



ENERGY TRANSFORMATION TO THE FUTURE
DRIVE ELECTRIC, DRIVE THE FUTURE



ENERGY ABSOLUTE
PUBLIC COMPANY LIMITED



AMITA Technology (Thailand) Co., Ltd.

Lithium ion Battery Plant

Capacity 1 GWh



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In cases this Annual Report (Form 56-1 One Report) references information disclosed on the Company's website the disclosed information shall be deemed to be part of Form 56-1 One Report. The Board of Directors certifies the correctness and completeness of such disclosed information which is the same as information disclosed in Form 56-1 One Report.

Vision

A leader in alternative energy business

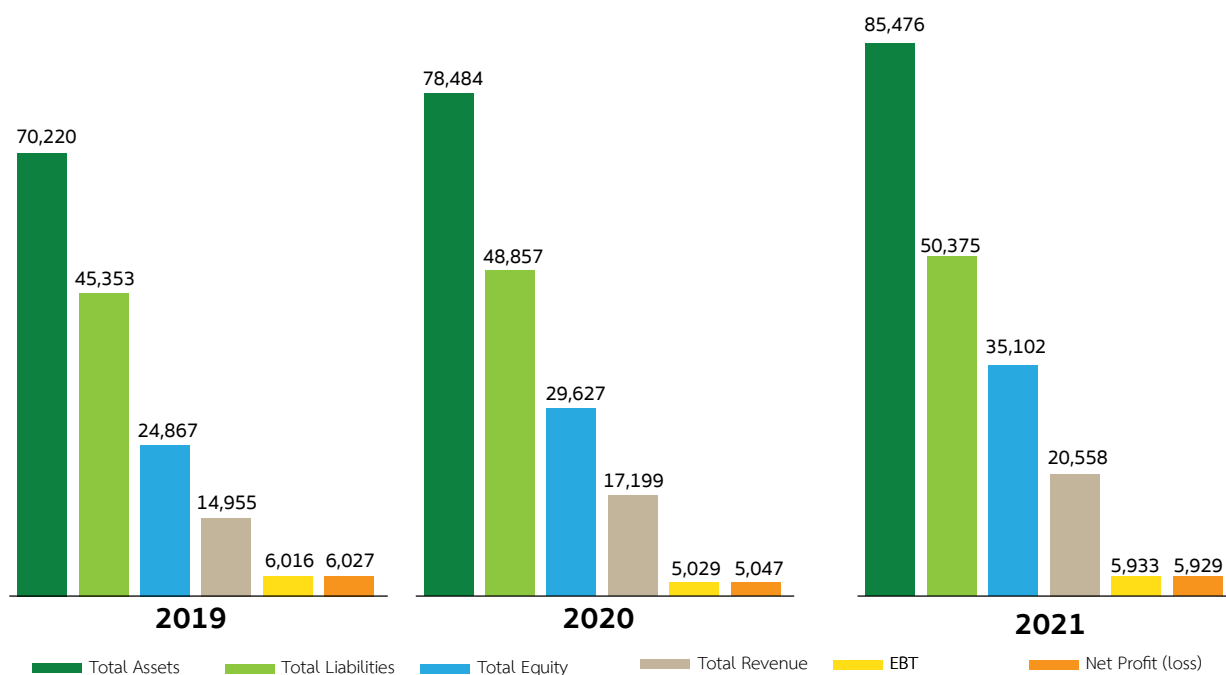
by using the modern technology and environmentally friendly for the best benefit of consumers, shareholders, partners, and fairness to employees

Mission

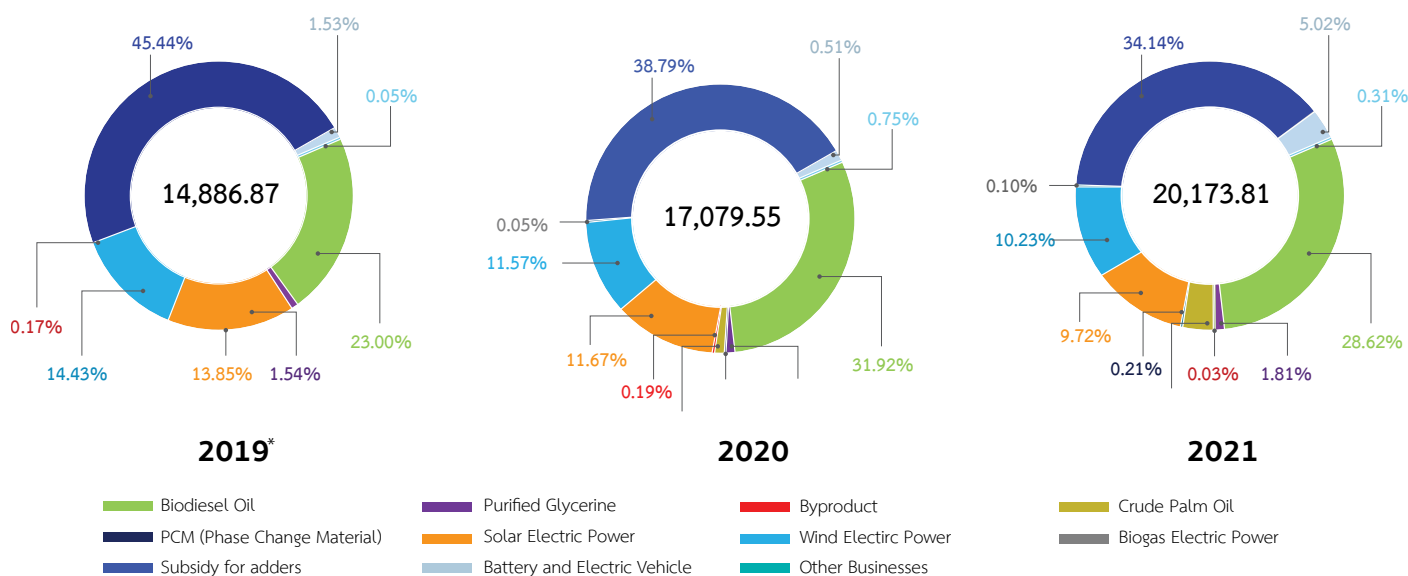
- Promote the utilization of modern technology to increase production efficiency
- Promote the utilization of energy crops and natural energy to reduce environmental pollution
- Support the Government policy for energy security of country
- Operate on the basis of fairness, trustfulness with partners and all shareholders
- Foundation human resources to grow steadily and sustainably

Financial Highlights

(THB million)



Product Sales and Services



*In 2019, there were reclassifications within the financial statements for the year 2019 in order to align with the presentation of consolidated and separate financial statements for the year ended 31 December 2021.

Significant Financial Ratios

		2019	2021	2021
Net Profit Margin	%	40.48	29.55	29.40
Return on Equity Ratio	%	29.19	20.34	20.23
Return On Assets Ratio	%	11.44	8.97	8.93
Debt to Equity Ratio	time	1.82	1.65	1.44
Liquidity ratio	time	2.31	0.54	0.92

Message from Chairman and Chief Executive Officer



A blue ink signature of Mr. Somchainuk Engtrakul.

Mr. Somchainuk Engtrakul
Chairman of the Board of Directors

A blue ink signature of Mr. Somphote Ahunai.

Mr. Somphote Ahunai
Chief Executive Officer

Message from Chairman

Dear Shareholders,

During the year 2021, the coronavirus (COVID-19) has impacted the global. The panic to the pandemic of COVID-19 and the implement a rapid control of the spread of COVID-19 has been conducted and consequently affected the day to day life leading to “New Normal Life Style” and slow down the global economy sharply.

For business of the EA group, the Company has closely monitored the situation of the pandemic of COVID-19 and also adjusted the investment and strategic planning in consistency with the current situation. The measurement to control spread of COVID-19 is affected to the business of Bio-diesel unit and causing the delay of the new projects under construction. Nevertheless, due to the major revenue of group Company is from the renewable power business unit that can run usual operation during such pandemic of COVID-19. Therefore, in overall, the business of the group Company has slightly been affected from COVID-19.

Besides above, during the last year, the group Company continues to strive towards to develop new business to link and enhance the existing business of group Company, such as the development of energy storage system in order to achieve the most effective utilization of energy efficiency of clean energy and the development of Green Diesel and Bio-PCM projects, for which it will strengthen the competitiveness of the Company in the region level. Currently, this Green Diesel and Bio-PCM projects are able to produce at the pilot plant level, enabling the Company to expand the business into the textile industry.

For the development of good governance and sustainable, the group Company remains committed to conduct the business with good governance. During the last year, the Company has been certified and be the member of the certified companies of Thailand’s private sector collective action coalition against corruption (CAC), and continued on track and was awarded the “Excellent – 5 star” rating for Corporate Governance Report for the fourth consecutive year, reflecting that the Company’s emphasis on sustainable business growth in line with good governance and transparency. Moreover, the Company has been selected for inclusion in the THIS index which reflect the sustainable business operations in line with responsibility to the environment and to society according to the principle of good governance (Environmental, Social and Governance or “ESG”) and this will attract investors looking to invest in accordance with responsible investment approaches (Responsible Investment).

By succession of the previous year, the Company would like to express the appreciation to the management and all employees for your dedication, effort and being the important part in achieving success and business growth. This consideration also goes to the business operation that is adhering to transparency, compliance with corporate governance and social responsibility. The Company believes that these will robust foundation of work will bring to the group of Company the sustainable growth together with continual social responsibility to the future.

On behalf of the Board of Directors, I would like to express my appreciation to all shareholders, customers, business partners, public and private agencies from central and regional or even local territories, as well as all stakeholders for your ongoing confidence and trust in our potential, and hopefully to receive such a support in the future.

Sincerely Yours

Mr. Somchainuk Engrakul
Chairman of the Board of Directors

Message from Chief Executive Officer

Dear Shareholders and all stakeholders,

The year 2021 was remarkably the second challenging year affected by the protracted and severe coronavirus pandemic (or COVID-19), which caused widespread damage to Thailand and the rest of the world. The situation of the virus continued to have an enormous negative impact on economic and social losses resulting in the slowdown of economic recovery and investment activities. However, the Company closely monitored to assess the impact, risks, and opportunities on an ongoing basis in the strategic planning over the past period. In addition, the Company also gives importance to all the stakeholders, including establishing a partnership under the name “Chuay Gun Group” to support the pandemic throughout the country such as medical personnel, governmental agencies, and the general population by providing tools and disinfection equipment, convert a normal room into a negative pressure chamber, disseminate knowledge and the continuous funding.

Despite efficient management and collaboration among various stakeholders, both internal and external aspects, the Company recorded the total sales of THB 20,558.10 million and a net profit of THB 5,929.35 million (increased 19.53 percent and 17.47 percent respectively from the same last year) as well as receiving awards and recognition from many organizations both nationally and globally. In particular, the S&P Global Corporate Sustainability Assessment (CSA) ranked EA as a member in the Sustainability Yearbook 2022 for the first year since the beginning of February 2022. Moreover, the Company achieved the sustainability assessment results of MSCI ESG Ratings at the AA level and was selected as one of Thailand Sustainability Investment (THSI) list for the 4th consecutive year. These reflect the confidence that resulted in the operation and a Company’s success, including the prominence of product and service development and good corporate governance. Moreover, the Company has integrated the sustainable development goals as part of the corporate strategic planning, reinforcing the Company’s viability in the long term.

The previous year was an essential year that the Company successfully performed an opening ceremony for a lithium-ion battery facility and a fully integrated energy storage system with the largest capacity in the ASEAN, which is located in Chachoengsao province under the Eastern Economic Corridor (EEC) Development Plan. This is the first commercial battery plant with an initial capacity of 1 GWh per year, and the total production area is over 80,000 square meters. In the future, the Company plans to increase its manufacturing capacity to 50 GWh per year.

The lithium-ion battery plant and energy storage system is considered as critical components in the development of commercial electric vehicles and the use of renewable energy as sources of sustainable energy in everyday life to reduce greenhouse gas emissions which have caused major climate changes around the world. The Company collaborated with the expert team from Amita Technologies Inc., (Amita-Taiwan), the leading Lithium-Ion Polymer battery manufacturer and distributor, for more than 20 years. The collaboration aims to transfer an experience in technology development in Thailand to be a modern factory, world-class quality standards, and continuous production efficiency improvement through Amita Technology (Thailand) Co., Ltd.

Furthermore, Amita Technology (Thailand) Co., Ltd. is a world-class company with a largest pouch cell production capacity in ASEAN, using modern technology and high safety materials to produce battery cells with high energy capacity, lightweight, and long service life, no components of harmful substances such as acid or lead and using special techniques to produce cells. It will be able to separate the positive and negative plates easier in the process of recycling when the battery has reached the end of its life as an environmentally friendly and also has the first electrolyte factory, which is one of the important raw materials that determine the efficiency of battery cells using internally in the ASEAN region. Besides, Amita's batteries are designed to be compatible with Ultra-Fast Charge technology that supports fast charging in just 15 minutes and up to more than 3,000 cycles; an advantage for the use of large commercial electric vehicles as timing factor is a critical factor.

Moreover, the Company's goal is to promote internal vehicle business, for example, "MINE Bus", "MINE Smart Ferry" and Electric Truck including Electric Vehicle Charging Station "EA Anywhere". The Company also has a commitment to developing various technologies within our group that are continuously linked to an ecosystem, especially energy technology, energy storage system, and battery as well as a variety of electric vehicles. Moreover, the EV charging technology has developed to the level of Ultra-Fast Charge that is more advance and is going to generate higher operating results from 2021 onwards. The Company has always upheld in having modern technology and good innovation, specially developed for the benefit of the environment and increases the quality of living. This will be a very important strategy to differentiate and enhance the competitiveness of the Company maintain leadership in the alternative energy business, including stimulating sustainable growth. This is the key to starting the electric vehicle industry supply chain in Thailand and plays a critical role in developing the country's economy, which drives Thailand for the ASEAN region (ASEAN BEV HUB).

The Company has a strategy to drive the public transportation systems to become modern comfortable and help reduce pollution in a sustainable manner, which aligns with the government's promotion of a new S-curve industry along with developing the energy storage systems for renewable energy power plants and drive the country towards a low-carbon society.

I would like to thank all those who have contributed to the success and pride of the Company, including the Board of Directors, Employees, Customers, Business Partners, Shareholders, Financial Institutions, Government Agencies, and community enterprises, as well as related persons.

Sincerely Yours,
Mr.Somphote Ahunai
Chief Executive Officer

Awards and Achievements



Award
**Most Innovative Energy
 Solution Provider Thailand 2021**
 By: World Business Outlook

Award
**1st Runner-Up, Biofuel Project:
 ASEAN Energy Awards 2021**
 By: ASEAN Centre for Energy (ACE)



Award
**Asian Service Award (ASA) 2021:
 The 19th ANQ Congress 2021**
 By: Asian Network for Quality (ANQ)



Award
**Green Project of the Year:
 Country Deal Awards (ASEAN):
 The Asset Triple A Infrastructure Awards 2021**
 By: The Asset



MSCI ESG Ratings : AA
 By: MSCI



Bloomberg Gender Equality Index (GEI)
 By: Bloomberg



**Excellent CG Rating
 (5 Star) for 4th Consecutive year**
 By:
 Thai Institute Of Directors (IOD)
 and The Stock Exchange of Thailand



**Thailand Sustainability Investment (THSI)
 for 4th Consecutive year**
 By:
 The Stock Exchange of Thailand



**Sustainability Disclosure
 Recognition for 2nd Consecutive year**
 By:
 Thaipat Institute

Award

- **Excellence of Alternative Energy, Biofuel Project**
- **Excellence of Energy Conservation, MINE Smart Ferry**
- E Smart Transport Co., Ltd.
- **Excellence of Alternative Energy, On - Grid Alternative Energy Project**
- EA Solar Phitsanulok Co., Ltd.



Thailand Energy Awards 2021

By: Department of the Energy Development and Promotion,
Energy Ministry



Award

Products Innovative Awards 2021 - MINE Smart Ferry

By: Business+ Magazine and College of Management Mahidol University



Award and Certification

Green Industrial level 4 (Green Culture)

- EA Solar Lampang Co.,Ltd.
- EA Solar Nakornsawan Co.,Ltd.
- EA Solar Phisanulok Co.,Ltd.

Green Industrial level 3 (Green System)

EA Solar Co.,Ltd.

By:

Department of Industrial Works, Industrial Ministry



CSR-DIW Continuous Award 2021 for 4th Consecutive year

- Energy Absolute Public Company Limited

CSR-DIW Continuous Award 2021

- EA Solar Phisanulok Co.,Ltd.

By:

Department of Industrial Works, Industrial Ministry



Honorable Mention, Human Rights Awards 2021

By:

Rights and Liberties Protection Department, Ministry Of Justice



ENERGY ABSOLUTE

Energy for the Future



Section 1 : Business Operations and Performance

1. Structure and Business Operations of EA

1.1 Policy and Business Overview

1.1.1 Vision, Mission, Goal and Strategy of the Company and Subsidiaries

Vision

A leader in alternative energy business by using the modern technology and environmentally friendly for the best benefit of consumers, shareholders, partners, and fairness to employees.

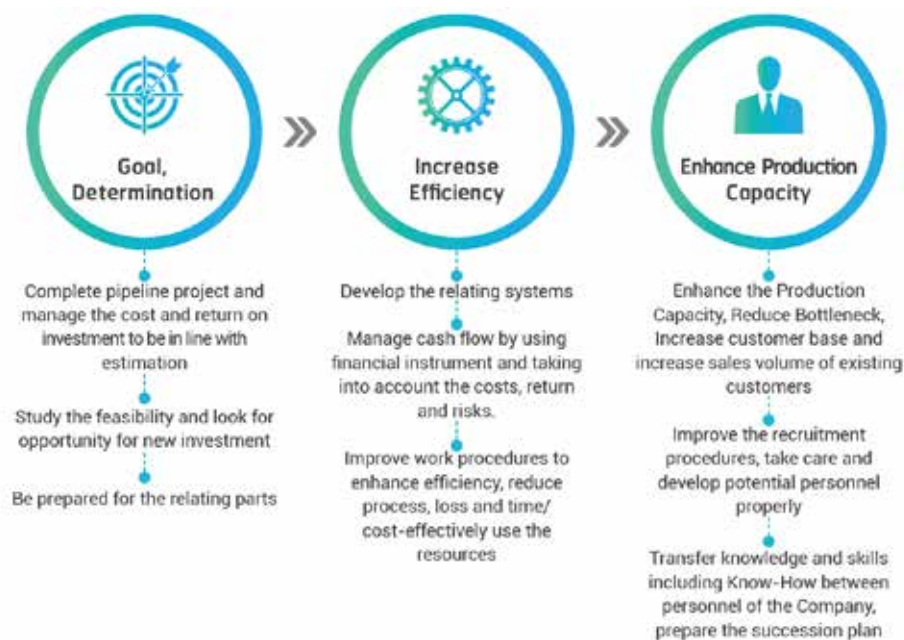
Mission

1. Promote the utilization of modern technology to increase production efficiency
2. Promote the utilization of energy crops and natural energy to reduce environmental pollution
3. Support the Government policy for energy security of country
4. Operate on the basis of fairness, trustfulness with partners and all shareholders
5. Foundation human resources to grow steadily and sustainably

Values



Goal / Strategy



History

Energy Absolute Public Company Limited (“the Company” or “EA”) was first incorporated on 6 March 2006 in original name Suntech Palm Oil Company Limited, with registered capital of THB 50 million. In 2008, the Company was converted into a public company limited and renamed as Energy Absolute Public Company Limited. The registered capital was increased from THB 50 to 250 million. In 2009, registered capital increased to THB 360 million. After that, in 2012, the registered capital decreased to THB 305 million by share amount reduction from deducting of the unpaid shares, then increase the capital to THB 373 million by issuing new ordinary share of 680 million shares with a par value of THB 0.10 per share in order to initial public offering with the number of IPO 560 million shares at a IPO price of THB 5.50 per share and offer to the existing shareholders in proportion to their shareholding amount to 120 million shares at a price of THB 1.50 per share during 21-23 January 2013. As a result, the Company’s registered and paid-up capital was increased to THB 373 million.

In 2013, the Company registered 3,730 million shares, at the par value of Baht 0.10 per share, total value of Baht 373 million to the “Market for Alternative Investment (mai) and since 6 January 2017 onwards, the Company submitted a request to the Stock Exchange of Thailand to approve the trading of EA’s securities in the Stock Exchange of Thailand (SET) (from mai to SET). The ordinary shares were allocated in the Resources category, Energy and Utilities section. The abbreviation for securities trading remained “EA” as before since 6 January 2017 onwards.

In this connection, on 9 February 2022, the Company’s registered capital was increased by THB 29 million, from THB 373 million to THB 402 million in accommodation of the convertible debentures.

1.1.2 Development and Significant Changes during the past 3 years

Development and Significant Changes of the Company and Subsidiaries

2019

Biodiesel Business

- Improve Biodiesel production to be consistent with the notification of the nature and quality of biodiesel type of fatty acid methyl esters 2019 which effective on 1 December 2019.

Renewable Power Plant Business

- Wind Power Plant (Hanuman Project) at Chaiyaphum has already commercial operated. Details are as follows:

Projects	Production Capacity	Started Commercial Operation
Hanuman 1	45 megawatts	25 January 2019
Hanuman 5	48 megawatts	22 March 2019
Hanuman 8	45 megawatts	25 January 2019
Hanuman 9	42 megawatts	30 March 2019
Hanuman 10	80 megawatts	13 April 2019

- Study the solution to increase the efficiency of electricity generation of solar power plant at Nakhon Sawan by using solar panel cleaning robot to mitigate the impact of dust on solar panels. The study result in 2019 showed that using cleaning robot can increase the efficiency of electricity generation up to 2.5 percent. The Company planned to use solar panel cleaning robot within the year 2020.

- Develop Backtrack Function to decrease shade cast upon solar panels. The tracking system will increase the efficiency of backtrack function on a steep and sloping ground. The expecting result is to increase electricity generation up to 0.77 percent.
- Solar Power Plant (Project 1, 2, 3) maintained the certification for reducing the amount of greenhouse gases for the third year by the Thailand Greenhouse Gas Management Organization (“TGO”) the amount of greenhouse gases reduced for Project 1 and Project 2 during December 2017 to December 2018 and for Project 3 during October 2017 to December 2018 is 376,568 tons of carbon dioxide equivalent (tCO₂e).
- Wind Power Plant (Hadjangkhan Project 1, 2, 3) maintained the certification for reducing the amount of greenhouse gases for the second year in a row by TGO during October 2017 to December 2018 is 205,065 tons of carbon dioxide equivalent (tCO₂e).
- Wind Power Plant (Hanuman Project 1, 5, 8, 9, 10) at Chaiyaphum has been approved for listing in the Thailand Voluntary Emission Reduction Program: T-VER by TGO under the project name “*Wind Power Plant at Chaiyaphum, Thailand*” The credit term is calculated from 1 January 2019 - 31 December 2025.
- Wind Power Plant (Hanuman Project 1, 5, 8, 9, 10) certified by TUV NORD (Thailand) Ltd. for its Quality System Management and Environmental Management as follow: (1) International Quality Management System “ISO 9001: 2015” and (2) The Environmental Management System “ISO 14001: 2015”

Other Businesses

- MOU for charging network development to support MG vehicles through i-Smart function technology.
- Decreased the proportion of the investment in joint venture with Shenzhen Ateess Power Technology Co., Ltd. (Former name is Shenzhen Growatt Power Technology Co., Ltd.) from 44 percent to 36.67 percent due to Shenzhen Ateess Power Technology Co., Ltd. received contribution from another joint venture party.
- The Company acquired 96,609,821 newly-issued ordinary shares of Amita-Taiwan, as a result, the Company held 65.61 percent of issued and paid-up share capital.
- The Company established new subsidiaries (direct and indirect) as follows:
 - EA BVI Holding Limited (“BVI Holding”). The purpose is to invest and do business in Taiwan.
 - EA (BVI 1) Limited (“BVI 1”), British Virgin Islands with the purpose of investing in Taiwan.
 - EA (BVI 2) Limited (“BVI 2”), British Virgin Islands with the purpose of investing in Taiwan.
 - E Smart Transport Co., Ltd (“EST”). The purpose is to provide public boat transportation services and public boat tour.
 - Smart Waste Management Co., Ltd. (“SWM”) with the purpose of operating waste disposal.
 - EV Now Co., Ltd. (“EV Now”). The purpose is to manufactures and distributes electric buses, trucks and other vehicles including public transportation business.
- The investment of affiliated companies
 - BVI Holding invested in Zept Inc. (Zept”) the company incorporated under the law of the Republic of China (Taiwan) which operated the business in designs, developing and assembly related to EV powertrain systems. The purpose is to expand and increase the competitiveness.

- AMITA -Taiwan invested in Wan Meng Automatic Precision Co., Ltd. (“Wan Meng”), the company incorporated under the law of the Republic of China (Taiwan) which operated the business in Automatic control equipment engineering. The purpose is to expand and increase the competitiveness of Amita-Taiwan.
- AMITA – Taiwan invested in Sun Field Investments Co., Ltd. (“Sun Field”), the company incorporated under the law of the Independent State of Samoa which operated the investment and holding business. The purpose is to expand and increase the competitiveness of AMITA-Taiwan Signed MOU in Motor show 2019 event during MMC and Suvarnabhumi Pattana Credit Union Cooperative,
- Signed MOU in Motor show 2019 event during MMC and Suvarnabhumi Pattana Credit Union Cooperative, Limited, taxi service operator for a subscription of 3,500 units with a taxi union, Cooperative Credit Union Suvarnabhumi Pattana Limited, to pre-order of 3,500 EVs including spare parts. Those EVs are going to sell to its member to be used as EV taxi and also agree to use charging stations services.

2020

Biodiesel Business

- Developed B100 production according to “the notification of the nature and quality of biodiesel type of fatty acid methyl esters 2019” to increase the production from 650,000 Liter per day to 800,000 Liter per day as well as investment in production process of biodiesel from byproducts (Palm Fatty Acid Distillate) to reduce production cost and increase the competitiveness.
- The Company operates new product research and development under the biodiesel business to innovate the product using crude palm oil (CPO) as a substrate which has been patented already by EA Bio Innovation Co., Ltd. to operate manufacturing and distributing such products, consisting of
 - (1) Green Diesel (GD) or Bio Hydrogenated Diesel (BHD) products as a mixture of diesel fuel to help increase performance and cleanliness of engines and
 - (2) PCM (Phase Change Material) to be used in temperature control, such as construction materials components, fibers, etc. to help in absorbing, storing, controlling and releasing heat to maintain temperature. PCM is popular and in high demand in weather variability countries.

The Green Diesel and PCM plant located at Rayong province which now successfully completed machinery installation and commissioning testing. The 1st phase commercial operation has been started mainly for PCM products and it will gradually increase production capacity to the fullest of 65 tons per day and then the next phase of 65 tons per day will start later on. In the meantime, the Company research and develop continuously to expand the market opportunity to use PCM in other industries to further expand added value.

Renewable Power Plant Business

- Solar Power Plant (Project 1, 2, 3) maintained the certification for reducing the amount of greenhouse gases for the fourth year in a row by TGO. The amount of greenhouse gases reduced during January 2019 to December 2019 is 344,922 tons of carbon dioxide equivalent (tCO₂e).
- Wind Power Plant (Hadjangkhan Project 1-3) maintained the certification for reducing the amount of greenhouse gases for the third year in a row by TGO. The amount of greenhouse gases reduced during January 2019 to December 2019 is 164,873 tons of carbon dioxide equivalents (tCO₂e).

- Wind Power Plant (Hanuman Project 1, 5, 8, 9, 10) received a certificate for reducing the amount of greenhouse gases for the first year by TGO. The amount of greenhouse gases reduced during February 2019 to December 2019 is 263,871 tons of carbon dioxide equivalent (tCO₂e).
- Solar Power Plant and Wind Power Plant are in the certification process during January 2020 to December 2020 the Company has been submitted the reduced amount of greenhouse gases 758,292 tons of carbon dioxide equivalent (tCO₂e).
- The investment of affiliated companies
 - ERH invested in Subyai Wind Farm(1) Co., Ltd. ("SWF"). The purpose is to increase the competitiveness in Manufacturing and distributing electricity from wind power.
 - ERH invested in TF Tech Holding Co., Ltd. ("TFTH"). The purpose is to produce electricity generated from floating and rooftop solar power.

Other Businesses

- The Company established new subsidiaries (direct and indirect) as follows:
 - EA Palm Network Co., Ltd. ("EPN"). The purpose is to produce and distribute crude palm oil.
 - EA Waste Management Co., Ltd. ("EWM"). The purpose is to Invest in assets of the Company Group relates to waste management including produces and distributes electricity generated from waste.
 - Absolute Assembly Co., Ltd. ("AAB"). The purpose is to produces and distributes of electric vehicles including Assembly and Services for electric vehicles.
- The investment of affiliated companies.
 - EPN invested in Larp Pak Dee Palm Co., Ltd. ("LPD"). The purpose is to expand and increase the competitiveness in manufacturing and distributing crude palm oil with the total investment after capital increasing value is of 150 million baht representing 75 percent of issued and paid-up share capital of LPD.
 - EPN invested in Combine Energy Tech Co., Ltd. ("CET"). The purpose is to expand and increase the competitiveness in Shore Tank business including plan to build the Green Diesel and Bio-PCM plant with the total investment value of 285.51 million baht representing 70 percent of issued and paid-up share capital of CET.
 - EPN invested in Combine Kanjanadit Palm Oil Co., Ltd. ("KJD"). The purpose is to expand and increase the competitiveness in manufacturing and distributing crude palm oil with the total investment value is of 37.53 million baht representing 75 percent of issued and paid-up share capital of KJD.
 - EMH acquired ordinary shares in Nex Point PLC. ("NEX"). The investments aimed to jointly develop the manufacturing, assembly, and distribution as well as sales and after-sales service for passenger buses, commercial vehicles, and passenger cars. The company group will take a major role in manufacturing and developing of batteries and relevant technologies to be applied in electric buses and electric vehicles. The total investment value is of 1,474 million baht representing 40.01 percent of issued and paid-up share capital of NEX.
 - EST invested in Chaophraya River Line Co., Ltd. ("CRL"). The purpose is to expand the electric ferry business and provide travel services along the Chao Phraya River. The total investment value is of 55.70 million baht representing 99.99 percent of issued and paid-up share capital of CRL.
- Addition investments in a joint venture (Shenzhen Ateess Power Technology Co., Ltd.) from other joint venture party. As a result, the investment proportion increased from 36.67 percent to 38.58 percent.

- The Company introduced the first Electric Charging Station for electric ferry at the minimum power of 4,000 kW by installing 14 chargers of 300 kW DC Fast Charge which can be fully charged only 15-20 minutes according to the qualification of electric vehicle and battery capacity. This is to support all types and models of electric passenger ferries. The first electric charging station located at Pu Chao Saming Phrai side on the bank of Chao Phraya River, Bhumibol 2 Bridge, Phra Pradaeng district, Samut Prakan province. However, for the charging stations in other areas still keep installation continuously to support electric passenger ferries along the Chao Phraya River.
- DC Fast Charger 150 kW is ready to service for electric car which installed in outdoor areas such as petrol station, department stores, 7-Eleven and 24hours locations that can accommodate full capacity of electric car users.
- Amita Technologies (Thailand) Co., Ltd. (“Amita-TH”), a subsidiary company operating the lithium-ion battery plant project in Thailand, has signed MOU with Chulalongkorn University to jointly research the recycling of lithium-ion batteries. Amita-TH will apply the study results from this program within a period of 3 years. This is the extension of investment in the battery industry of the Company comprehensively from battery cell manufacturing to use in the electric vehicle industry and utility industry as well as recycling lithium-ion batteries at the end-of-life. The success of this project will make Thailand the first country in ASEAN to be the investment hub in the energy storage systems industry and electric vehicles that can compete with other countries in the global market.
- the Company agreed to collaborate with the Ministry of Higher Education, Science, Research and Innovation (MHESI) by signing an MOU with the National Science and Technology Development Agency (NSTDA) in a collaboration project for research and development of raw materials to increase the efficiency of the high-capacity energy storage systems or high efficiency and safety battery in a period of 5 years (2020 - 2025) including the high efficiency and safety battery management system. This gives significance to be more dependence on using domestic resources and production to reduce imports from abroad and to be environmentally friendly including supporting and strengthening the sustainable industrial development in the country.
- As of 31 December 2020, the installation of 410 stations has been completed. It can be categorized into DC Charger for 266 chargers and AC Charger for 592 chargers to support all types and models of electric vehicles including Thai electric vehicles designed and manufactured by the EA Group such as Electric cars, Electric passenger buses, and electric passenger ferries. The charging technology is developed to be charged with high charging rate (4C-Rate) within 15-20 minutes. Customers can reserve and accommodate power via mobile application “EA Anywhere”. The Company is investing in installation charging stations with major partners and also opening collaboration with other partners according to the Company's business plan continuously.
- The Company Group started launching electric ferry under “MINE SMART FERRY” which is 100% manufactured and operated by Thailand. On 22 December 2020, the Company had the opening ceremony for the trial launch of an electric ferry on the Chao Phraya River and enable full-service in 2021. MINE SMART FERRY received the 2020 National Innovation Award from the National Innovation Agency (NIA) and on 30 July 2020, it was registered as the country's first electric ferry for mass transit from the Marine Department to provide travel services along the Chao Phraya River from Phra Nangklao Bridge Pier to Sathorn Pier, over the 20 kilometers route. This water transportation will connect with public land transportation as well. Also, it is part of promoting options to the public for traveling by electric water transportation with convenience and safety, environmentally-friendly, without generating air pollution, PM 2.5 and noise pollution.

- The AAB plant is located in Chachoengsao province, close to electric vehicle plant, and is under construction. It will have a production capacity of 3,000 units per year and it can produce various types of vehicles such as buses and trucks. AAB imports some parts from abroad to assemble but the important parts are designed and manufactured domestically with the automated manufacturing process as well as having a drive test facility.

2021

Biodiesel Business

- Bio Diesel Plant has improved energy efficiency by using waste energy from production process to heat incoming raw materials. Furthermore we have used waste from distillation (distillated residue) to burn as fuel. This has contributed to cut down production cost and increase competitiveness. The initiative has awarded Thailand Energy Award 2021 and Asean Energy Awards 2021.
- After the company has manufactured and sold PCM and Green Diesel (BHD) into the market we have increased company competitiveness through international sustainable certification and Carbon Credit Certification such as ISCC(International Sustainability and Carbon Certification), RSPO(Roundtable on Sustainable Palm Oil) and Carbon Footprint of products. These certifications would help us to access and sell for export markets.

Renewable Power Plant Business

- Solar Power Plant of the subsidiaries at Nakhonsawan, Lampang and Phitsanulok provinces maintained the certification for reducing the amount of greenhouse gases by the Thailand Greenhouse Gas Management Organization (“TGO”) the amount of greenhouse gases reduced during January 2020 to December 2020 is 341,115 tons of carbon dioxide equivalent (tCO₂e).
- Wind Power Plant of the subsidiaries of Hadkanghan Projects at Songkhla and Nakhon Si Thammarat provinces and Wind Power Plant of Hanuman projects at Chaiyaphum province maintained the certification for reducing the amount of greenhouse gases by the Thailand Greenhouse Gas Management Organization (“TGO”) the amount of greenhouse gases reduced during January 2020 to December 2020 is 417,177 tons of carbon dioxide equivalent (tCO₂e).
- The Company established new subsidiaries (indirect) as follows:
 - Wind Kalasin 1 Co., Ltd. (“WKS1”). The purpose is to research and develop wind power plants.
 - Wind Kalasin 2 Co., Ltd. (“WKS2”). The purpose is to research and develop wind power plants.
 - Wind Khonkaen 1 Co., Ltd. (“WKK1”). The purpose is to research and develop wind power plants.
 - Wind Amnatcharoen 1 Co., Ltd. (“WAMR1”). The purpose is to research and develop wind power plants.
 - Wind Ubon Ratchathani 1 Co., Ltd. (“WUBON1”). The purpose is to research and develop wind power plants.
 - Wind Mahasarakham 1 Co., Ltd. (“WMHK1”). The purpose is to research and develop wind power plants.

Electric Vehicle and Energy Storage System

Battery development, manufacturing and distribution business

- Amita Technology (Thailand) Co., Ltd. launched the lithium-ion battery manufacturing plant phase 1 which commenced its commercial production with a production capacity of 1 gigawatt hours per year on December 12, 2021. Its products are certified by the IEC Safety Standard and UN Recommendations (UNR) on transport of hazardous goods and can thus be exported for distribution abroad.

Electric charging station service business (For electric vehicle)

- For Electric Ferry : Two electric charging stations of the Group for electric ferries has been completed and the electric ferry service has been launched. The first station for 300 kW is located along the Chao Phraya River, in front of Salaree Temple, Muang Nonthaburi district, Nonthaburi province where 5 chargers have been installed. The other station for 300 kW is located at Public Warehouse 1, Public Warehouse Organization, Ministry of Commerce, Thonburi district, Bangkok where 10 chargers have been installed.
- For public land transport : The Group has made investment in the construction of electric charging stations for electric buses to accommodate 8 electric bus routes. The construction was completed in 2021 as planned with installation of 34 chargers of 300 kW at 5 stations (Wongwian Phra Pradaeng, Ekkachai, Kanchanapisek-Prannok, Bangplee, and Rangsit-Bangpoen).
- For passenger electric cars : At year-end 2021, chargers had been installed at a total of 431 electric charging stations for all types of electric vehicles, comprising of 379 DC chargers and 583 AC chargers.

Electric Vehicle Business

- The Company established Absolute Assembly Co., Ltd. (AAB) to manufacture electric buses and commercial electric vehicles of all types with a production capacity of 3,000 units per year to accommodate various types of electric vehicles designed and produced locally. In 2021, over 100 electric buses were assembled and delivered for actual use on more than 10 routes.
- In 2021, the Company delivered over 20 units of MINE Smart Ferry and provided ferry travel service on the route from Phra Nangklao Bridge Pier to Sathorn Pier in response to the demand for pollution-free and eco-friendly marine travel on the Chao Phraya River to mitigate pollution problems.
- MINE Smart Ferry is connected with Bangkok Sky Train via City Line (Green Line), Metro Line (Blue Line) and Urban Line (Purple Line) as a link between marine transport and public land transport. This provides the general public with marine travel alternative for convenient and safe travel using pollution-free and eco-friendly electric vehicle.

Other Businesses

- Mine Mobility Research Co., Ltd. (“MMR”) Developed battery system for commercial vehicles and was certified to UNR100 electric vehicle safety standards
- The Company established new subsidiaries (direct and indirect) as follows:
 - EA Mobility Rental Co., Ltd. (“EMR”). The purpose is to provide vehicle rental service.
 - Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd. (“BEV”). The purpose is to research, develop, test, and certify quality of battery.
- The investment of affiliated companies.
 - EA Waste Management Co., Ltd. invested in a joint business with Ranong Clean 2021 Co., Ltd. (“RNC”). The investment aimed to provide service of waste management.
 - Amita Technologies Inc. (“AMITA-Taiwan”) invested in CSBC Power Technology Co., Ltd. (“CSBC”), the company incorporated under the law of the Republic of China (Taiwan) which operated the business in distributing marine equipment and vehicles.

1.1.3 Details of use of proceeds from each debentures as of December 31, 2021

As of December 31, 2021, the details of use of proceeds are as follows:

Domestic Debentures, unsubordinated and unsecured debentures in registered name form with debenture holder representative (Enforced under Thai laws)

The funds derived from the issuance of all Baht debentures, EA227A, EA297A, EA228A, EA248A, and EA298A were utilized according to the objectives stated in the indenture and offering documents.

Domestic Debentures, unsubordinated and secured debentures in register name form without debenture holder representative (Enforced under Thai laws)

The funds derived from the issuance of all Baht debentures, i.e., EA260A, EA227B, EA237A, and EA257A were utilized according to the objectives stated in the indenture and offering documents.

1.1.4 General Information

Details of General Information as specified under section 5. General and Other Important Information.

1.2 Nature of Business

1.2.1 Revenue Structure

Majority of revenues of the Company and its subsidiaries comprises of the revenue from **Biodiesel Business**, namely biodiesel, purified glycerin, byproducts, crude palm oil and PCM (phase change material), revenue from **Renewable Power Plant Business**, namely solar electric power, wind electric power, biogas electric power and subsidy for adders and revenue from **Battery and Electric Vehicle Business**, namely battery development, manufacturing and distribution business, and electric vehicle business and revenue from **Other Businesses**. The details are as follows:

- Revenue Structure of Business

Type of Revenue		2019		2020		2021	
		THB (million)	%	THB (million)	%	THB (million)	%
Biodiesel Business							
1. Biodiesel oil	EA	3,423.24	22.89	5,451.16	31.69	5,773.73	28.08
2. Purified glycerin	EA	228.93	1.53	265.54	1.54	364.35	1.77
3. Byproducts	EA	25.51	0.17	31.79	0.18	6.75	0.03
4. Crude Palm Oil	LPD, KJD	-	-	505.31	2.94	1,979.60	9.63
5. PCM (Phase Change Material)	EBI	-	-	8.49	0.05	41.40	0.20
		3,677.68	24.59	6,262.29	36.41	8,165.83	39.72
Renewable Power Plant Business							
6. Solar electric power	ESLO, ESN, ESL, ESP	2,061.64	13.79	1,993.40	11.59	1,961.43	9.54
7. Wind electric power	EWHK3, PND, BJRD, NYKD, NWP, BCD	2,148.29	14.37	1,975.60	11.49	2,063.85	10.04
8. Biogas electric power	KJD	-	-	8.62	0.05	20.65	0.10
9. Subsidy for adders		6,764.35	45.23	6,624.36	38.52	6,887.46	33.50
		10,974.28	73.38	10,601.98	61.64	10,933.39	53.18
Battery and Electric Vehicle Business							
10. Revenue from other Battery and Electric Vehicle	Amita -TH, AMITA-TW, AAB, MMC, EV Now	227.09	1.52	86.68	0.50	1,012.20	4.92
		227.09	1.52	86.68	0.50	1,012.20	4.92

Type of Revenue		2019		2020		2021	
		THB (million)	%	THB (million)	THB (million)	%	THB (million)
Other Businesses							
11. Revenue from other services	ESM, CRL, EST, EMN	7.82	0.05	128.60	0.75	62.39	0.30
Total revenue from Sales and Services		14,886.87	99.55	17,079.55	99.30	20,173.81	98.13
12. Accounting gain on Business Combination		-	-	-	-	-	-
13. Other income		67.67	0.45	119.59	0.70	384.29	1.87
Total Revenue		14,954.54	100.00	17,199.14	100.00	20,558.10	100.00
Share of gain (loss) from investments in associates and a joint venture		(14.26)		(61.05)		13.55	

Remarks : /*

EA Solar Co., Ltd. (ESLO)

EA Solar Nakornsawan Co., Ltd. (ESN)

EA Solar Lampang Co., Ltd. (ESL)

EA Solar Phitsanulok Co., Ltd. (ESP)

EA Bio Innovation Co., Ltd. (EBI)

Absolute Assembly Co., Ltd. (AAB)

Mine Mobility Corporation Co., Ltd. (MMC)

Energy Mahanakhon Co., Ltd. (EMN)

EA Wind Hadkanghan 3 Co., Ltd. (EWHK3)

Pongnok Development Co., Ltd. (PND)

Benjarat Development Co., Ltd. (BJRD)

Nayangklak Development Co., Ltd. (NYKD)

Nayangklak Wind Power Co., Ltd. (NWP)

Energy Solution Management Co., Ltd. (ESM)

EV Now Co., Ltd. (EV Now)

E Smart Transport Co., Ltd. (EST)

Banchuan Development Co., Ltd. (BCD)

Larp Pakdee Palm Co., Ltd. (LPD)

Kanjanadit Palm Oil Co., Ltd. (KJD)

Amita Technology (Thailand) Co., Ltd. (Amita-TH)

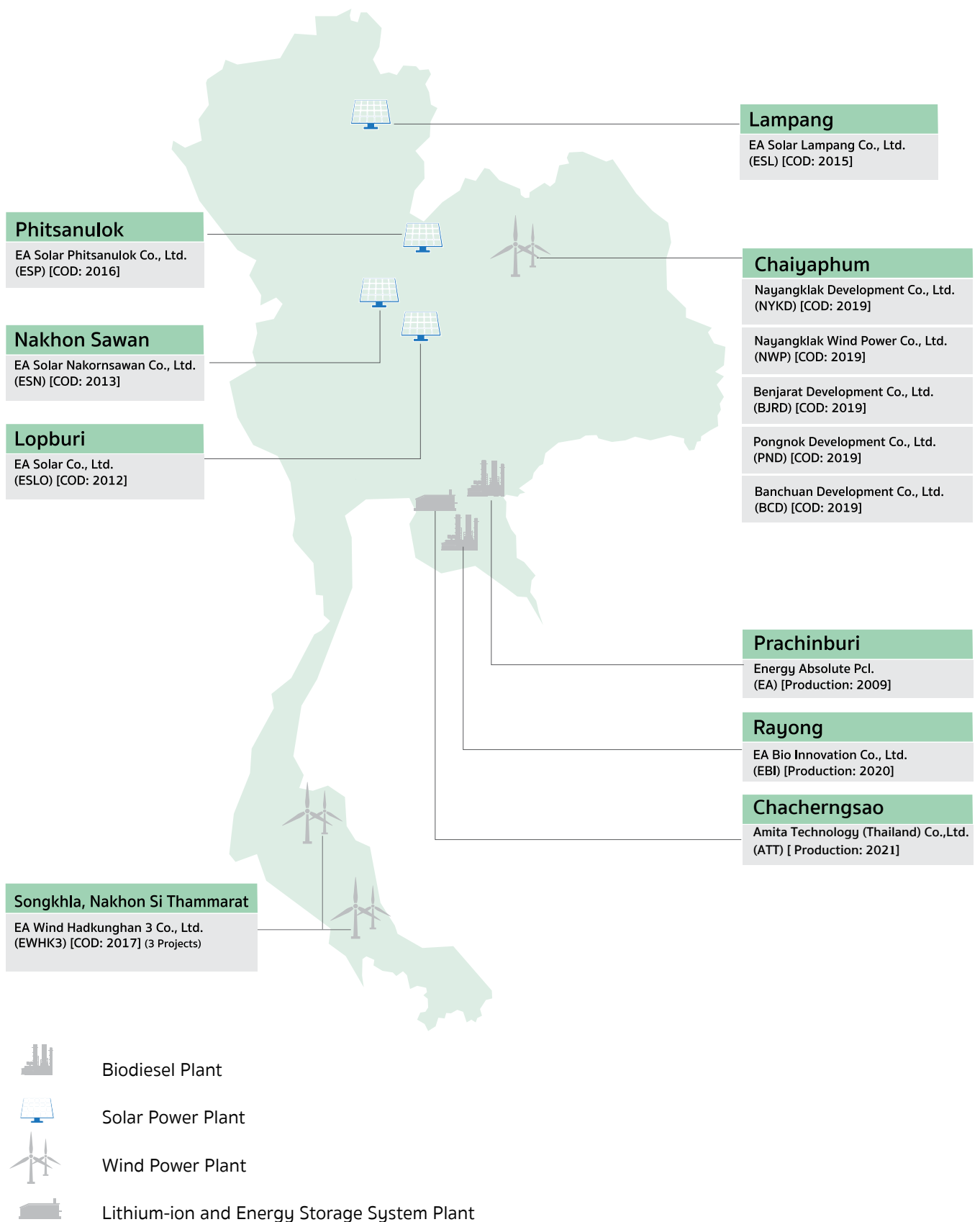
Amita Technologies Inc. (Amita-TW)

Chaophraya River Line Co., Ltd. (CRL)

- Revenue from domestic vs overseas

Type of revenue	2019		2020		2021	
	THB (million)	%	THB (million)	%	THB (million)	%
Revenue from domestic	14,726.66	98.48	17,120.95	99.55	20,443.55	99.44
Revenue from overseas						
- Within CLMV	-	-	-	-	-	-
- Other countries	227.88	1.52	78.19	0.45	114.55	0.56
	14,954.54	100.00	17,199.14	100.00	20,558.10	100.00

The Company Group's Plants Location





1.2.2 Products and Services

Biodiesel Business

The Company operates a business of producing and distributing of biodiesel (“B100”), pure glycerin and by-products and has been grant license of Oil Trader under Section 7 of the Fuel Trade Act B.E. 2543 from the Ministry of Energy (Oil Trader under Section 7 as aforesaid means oil trader with a trading volume of each type of fuel or trading volume of all type equal or more than 100,000 metric tons or about 120 million liters per year). Besides the above, the Company further research and develop the raw palm to create value to based product and obtained a new product as Phase Change Material (PCM) produced by the Company’s subsidiary, i.e. EA Bio Innovation Co., Ltd. Many countries that approach saving energy and utilizing for the most efficiency energy are currently interested in PCM. Therefore, PCM is the products which will create the high demand of market and will enhance the stabilization the raw palm prices and palm farmers.

Nature of Products

Biodiesel (B100)

Biodiesel (B100) is a natural diesel alternative fuel, produced from vegetable oils and animal fats. Most of biodiesel is produced from palm products, such as Crude Palm Oil (CPO), Refined Bleached Deodorized Palm Oil (RBD) and Stearine and be taken into the Trans Esterification process (Transesterification Process) to react with an alcohol (Ethanol or Methanol) and base as the catalysts, such as sodium hydroxide (NaOH) in order to form the Ester which is catalyst by type of alcohol used for reaction. This biodiesel ester’s properties are almost the same as diesel fuel. As such, biodiesel performs well in engine. If biodiesel is consumed purely, it will be called B100. However, if biodiesel is blended with the high speed diesel, it will be called according to the blending proportion, such as, B7 is high-speed diesel fuel that contains 7% biodiesel (B100) by volume or B10 is high-speed diesel fuel that contains 10% biodiesel (B100) by volume.

Purified glycerin

Purified glycerin is a transparent, colorless, scentless, sweet-tasting liquid, and well-soluble in alcohol and water but not in fats. Since glycerin has various chemical properties, it can be used as a substrate to synthesize with other chemical

substances. It is widely used in food, medicine, cosmetics, and soap industries. Purified glycerin is made by refining raw glycerin from biodiesel production process through the glycerin refining process. Purified glycerin is one of the Company's products using as an ingredient in many types of products such as cosmetics, medicine and consumer daily products such as toothpaste. The production capacity for glycerin is at 80 tons per day.

Byproducts

In addition to the above-mentioned products, there are byproducts generated from the production process of biodiesel which include raw glycerin which is the orange liquid soluble in alcohol and water, free fatty acid (FFA) - the fat dark color liquid used as a mixture in feed meals industry and others. The byproducts result from the palm oil extraction includes Palm Fatty Acid Distillate: PFAD which become solid at the room temperature, similar to a candle.

Phase Change Material: PCM

PCM are substances that absorb and release thermal energy during the process of melting and freezing. When a PCM freezes, it releases a large amount of energy in the form of latent heat at a relatively constant temperature. Conversely, when such material melts, it absorbs a large amount of heat from the environment. PCMs recharge as ambient temperatures fluctuate, making them ideal for a variety of everyday applications that require temperature control such as wall, House, Clothes, Parcel. In addition, PCM benefits in term of energy saving. For the industries, PCM was used in the buildings and construction, transportation, cooling industry, clothes and others in order to maintain temperatures. Furthermore, some PCM has bio base which friendly to environment, using PCM for heat storage option are particularly attractive because they offer high-density energy storage.

Promotional privileges and benefits

The Company has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, as follows:

Type of the business being promoted	Promotion Card No.	Capacity per year being promoted	Date of approval
1. Pure glycerin production	1657(2)/2551	24,000 tons/year	12 May 2008
	2037(2)/2554/ ¹	124,800 tons/year	11 July 2011
2. Biodiesel production	2182(9)/2551	289 million liters/year	6 May 2015
3. Refined Bleached Deodorized Palm Oil production (RBD)	1889(2)/2554	178,200 tons/year	24 November 2017
4. Manufacture of biological from Agricultural Products (Phase Change Material (PCM))	63-0529-1-18-1-0	16,812 tons/year	14 December 2020

Remarks: ¹ having the same privileges as production of purified glycerin as per promotion card no. 1657(2)/2551

Furthermore, the Company is certified for Quality Management Systems ISO 9001: 2015, Roundtable on Sustainable Palm Oil: RSPO, Kosher standard, Environmental Management Systems ISO 14001: 2015, Occupational Health and Safety Management Systems (OHSAS) ISO 45001:2018, and the Green Industry Level 3 (GI3) Systematic Environmental Management. The Company strives to improve management into a systematic approach, to conform to the requirement and law, to create a good working

environment where employees performing work with safety which will reflect the endeavor of the Company on social responsibility, environmental responsibility that covering inside and out of the organization, creating a positive image for the organization.

Marketing and Competition

Marketing policy

1. Product Strategy

The quality of B100 biodiesel meets quality standards as announced by the Department of Energy Business, the Ministry of Energy. The Company concentrates on continual development production technology including the research and development (R&D) in order to seek for new material with lower price for production of quality biodiesel. All these comprise to the creation of competitive performance and adding value to the products in long run as well as product development that create added value to the products.

The Company examined raw materials by collecting samples from all production tanks for the quality control where any materials which is not in line with the standard will reprocess. All products stored in the ready-made product tanks must pass quality control. The Company also created labs to perform quality testing by random selecting products to ensure product quality.

2. Price Strategy

The product prices are stipulated as follows:

(1) Biodiesel (B100)

The price of B100 biodiesel is based on the price announced by the Energy Policy and Planning Office (announced price) on weekly basis, and is also depended on the demand and supply of the particular period of time where the Company has no control over the selling price. However, the Company set the selling price of biodiesel at the rate higher than the announced price, deducted with the discount which is varied depending on a particular period of time. The Company will offer the bidding price which is lower than the announced price to huge customers whose sale contract made with the Company shall come into expiration soon, in order to support customer's decision for contract renewal. However, any selling prices cannot be made at a lower rate than the announced price without approval from the Executive Committee's meeting.

(2) Purified glycerin

The selling price of purified glycerin is based on the ICIS pricing which is a standard price for chemical supplies and energy in the world market. The Company has set the policy of purified glycerin selling price at the rate not lower than ICIS price, deducted by the discount as stipulated by the Company. However, any selling prices cannot be made at a lower rate than the announced price without the approval from Executive Committee meeting.

(3) By Products

Byproduct from production, the Company has set the sales policy of byproducts to meet the reasonable market price and quality.

3. Sales channel strategy (Place)

The Company sells biodiesel fuel directly to the large oil distributor by directly coordinated and communicated through Sales and Marketing department. One of the marketing tactics is to offer more discount to the major customers to increase sale volume while lessening the cost of production per unit (economies of scale). For purified glycerin selling, the Company distributed to domestic and oversea customers which using glycerin as a raw material or customer which produce and distribute chemical supplies or consumer goods etc. In addition, the purified glycerin is distributed to oversee market to reduce risk from dependent on local market.

4. Marketing and publicity strategy (Promotion)

The Company operates marketing and publicity strategy by maintaining production quality that meets the standard, building a good relationship with customers to retain existing customer base, including continuing the operation development, and obtaining industrial certification to build confidence in the Company's business. Meanwhile, the Company also expands the customer base regularly.

In regard to service, the Company and customers plan together about the details of transport and deliver i.e. product quantity and time to ensure that our service is performed to meet customers' requirements and meet the effectiveness of production and procurement plan.

Target groups

Target groups of the Company are as follows:

(1) Biodiesel (B100)

The whole biodiesel is distributed within the country where the majority of customers are fuel traders as defined in Section 7 (local major oil traders) and the oil trader as defined in Section 10 mainly, the biodiesel trading contract is made with the major customers where each contract duration is valid for 3 months, maximum not exceeding 3 years. Over 99 percent of the biodiesel sale is distributed to the large oil traders in Thailand.

(2) Purified glycerin

Purified glycerin can be divided into various grades based on the purity level. The Company can produce glycerin at the purity level of 99.50 - 99.85 percent (the purity level of more than 99.50 percent is categorized to Pharmaceutical Grade). The Company provided purified glycerin to group of customers both in domestic and oversea countries. However, in 2021, local customers represented 100% of revenue due to high demand while production capacity of pure glycerin dropped as raw material supply was affected by the COVID-19 pandemic.

(3) Byproducts

Target groups of the Company are the producers and distributors of chemical supplies both in domestic and overseas.

(4) Phase Change Material (PCM)

Target groups of the Company are the producer of construction materials and fiber producer both in domestic and overseas.

Biodiesel Industry Competition

For the year 2021, the Department of Energy Business, Ministry of Energy has announced the list of biodiesel producer type of fatty acid methyl esters which approved for sales or possession for sales from the Ministry of Energy, the total capacity equal to 9,704,464 liter per day, namely as the details below:

No.	Company	Capacity (liter/day)	location
1	AI Energy Public Company Limited	722,222	55/2 Moo 8 Sethakrit1road, Klongmadua, Krathumban District, Samutsakorn 74110
2	Bangchak Biofuel Company Limited	1,000,000	28 Moo 9 Bang Krasan, Bangprain, Pranakorn Sri Ayutthaya 13160
3	Global Green Chemicals Public Company Limited	693,642	199/1 Moo 2 Khaosok, Nongyai District, Chonburi 20190
		1,028,600	8 soi G12 Pakornsongkorraj road, Maptapud, Rayong District, Rayong 21150
4	New Biodiesel Company Limited	1,000,000	23 Moo 6 Sawiat, Tha Chang, Surat Thani 84150
5	PPP Green Complex Company Limited	630,000	321 Moo5 Phetkasem, Kang Raek, Bang Saphan District, Prachuap Khiri khan, 77170
6	GI Green Power Company Limited	200,000	217 Moo 15 Tasae, Tasae District, Chumpornbang 86140
7	Patum Vegetable Oil Company Limited	1,800,000	29/3 Moo 6 Phathumthani- Lad Lum Kaew, Kubangluang District, Lad Lum Kaew, Phathumthani 12140
8	Verasuwan Company Limited	200,000	53/6 Moo 5 Sethakij road, Natee, Samut Sakhon District, Samut Sakhon74000
9	Global Bio Power Company Limited	300,000	8/1 Moo 11 Nongbua, Ban Khai, Rayong 21120
10	Trang Oil Palm Company Limited	100,000	168 Moo 1 Trang-Sikao Road, Namuangphet, Sikao District, Trang 92000
11	Bio Synergy Company Limited	30,000	150 Moo 13 Khok Kruat, Nakhon Ratchasima District, Nakhon Ratchasima 30280
12	Energy Absolute Public Company Limited	650,000	507 Moo 9 Kabin Buri-Korat road, Nong Ki, Kabin Buri District, Prachinburi 25110
13	Suksomboon Energy Company Limited	450,000	110 Moo 4 Hang Sung, Nong Yai District, Chonburi 20190
14	Circular Energy Company Limited	600,000	100/17 Moo 19 Navanakorn 24 Rd., 24 Khlong Nueng Pathum Thani 12120
15	Thanachok Oil Light Company Limited	300,000	78/9 Moo 8 Khlong Maduea, Krathum Baen District, Samut Sakhon 74100
Total		9,704,464	As of 12 January 2022

Source: the Department of Energy Business, Ministry of Energy (<http://www.doeb.go.th/info/data/dataoil/Methyl-ester.pdf>)

Product Procurement

In order to the procurement of raw materials for the producing B100, the Company realizes the efficiency in the production process to strengthen the efficiency of procurement in accordance with the market conditions. The information from the production unit is informed for the appropriate decisions for cost competitive over the long term.

- **Crude palm oil (CPO), stearin and refined bleached deodorized palm oil (RBD)**

The crude palm oil, stearin and RBD are the main raw materials used in the production of biodiesel. These materials are supplied to the Company directly from suppliers namely, vegetable oil factory or crude palm oil factory or purified glycerin distributor from different regions i.e. south, east, central in order to prevent the risk of insufficient supplies. At present, the local producers of crude palm oil comprised of more than 100 palm pressing factories which the Company carefully selects more than 30 suppliers for the procurement procedure and have never experienced any significant issues. Furthermore, the Company carries on the development of the production process to enlarge the scope of available raw materials to be used as a feedstock to biodiesel production. For instance, palm fatty acid distillate (PFAD) and free fatty acid (FFA) are used as a raw material in the production of biodiesel in order to reduce risk of insufficient supplies as a result of price fluctuation.

Nevertheless, the procurement criteria as prescribed above are based on reservation quantity as regulated in Section 7 as well as advanced sales plan, risk of the cost of raw materials, the situation in the market and price announcement from the Energy Policy and Planning Office.

- **Methanol**

Methanol is a substantial input in the transesterification process of which the Company procures from local suppliers.

- **Catalyst**

The catalyst is a substance used in biodiesel production which consists of Sodium Methylate to catalyze the reaction in transesterification. The catalyst is supplied by local producers and distributors.

- **Activated Carbon**

Activated Carbon is used to depolarization of glycerin which supplied by local chemical supplies distributors.

- **Refined Palm Oil**

Refined Palm Oil is the main raw material used to produce Phase Change Material (PCM) which the company procures from local suppliers both in south region and east region.



Renewable Energy Business Group

The Company expands its business to produce and distribute solar and wind electric power generated from renewable energy according to the government policy that promotes the production of electricity from renewable energy for reducing the dependence on import of energy and to stabilize the energy security. At the present, the Company operates 13 projects as detailed below:

- 1) Solar Power Plant 4 Projects with total production capacity of 278 megawatts.
- 2) Wind Power Plant 8 Projects with total production capacity of 386 megawatts.

Product characteristics

The Company produces and distributes electric power generated from renewable energy from the sunlight and wind to distribute to the Provincial Electricity Authority (PEA) and the Electricity Generating Authority of Thailand (EGAT).

Solar Power Plant

The Company produces and distributes solar electric power. There are 4 projects commercial operated with total production capacity of 278 megawatts. Details are as follows:

Projects	Production Capacity	Status
EA Solar Farm Phatthana Nikhom District / Lopburi Province	8 megawatts	Started commercial operation (COD) on 17 October 2012
Project 1 Takhli district /Nakhon Sawan Province	90 megawatts	Started commercial operation (COD) on 23 December 2013
Project 2 Mueang Lampang District / Lampang Province	90 megawatts	Started commercial operation (COD) on 17 February 2015
Project 3 Phrom Phiram District / Phitsanulok Province	90 megawatts	Started commercial operation (COD) on 1 April 2016
Total production capacity	278 megawatts	

(1) Solar Power Plant, total production capacity 8 megawatts / Lopburi Province

- The power plant is under the management of EA Solar Company Limited, a direct subsidiary company classified as a Very Small Power Producer (VSPP). The Project is located at No. 188, 188/2, Moo 3, Khok Tum - Pa Sak River Road (Highway No. 3333) Km.21, Phatthana Nikhom sub-district, Phatthana Nikhom District, Lopburi in the area approximately 315 Rais.
- A power purchase agreement (PPA) with the Provincial Electricity Authority (“PEA”) for 5 years. Each default renewal is valid for 5 years and effective until the agreement will be terminated.
- The EA Solar was granted Adder privilege for VSPP of renewable energy in the rate of Baht 8 per kilowatt per hour for 10 years from the COD as announced by the PEA. The Adder privilege for VSPP is as per resolution of the National Energy Policy Council dated 9 March 2009.

(2) Solar Power Plant, total production capacity 90 megawatts/ Nakhon Sawan Province

- The power plant is under the management of EA Solar Nakhonsawan Company Limited, a direct subsidiary company classified as a Small Power Producer (SPP). The project is located at No. 99/9, 99/10, Moo 5, Huawai Sub-District, Takhli district, Nakhon Sawan District, Nakhon Sawan, on the area of approximately 1,810 Rais.
- A power purchase agreement (PPA) between EA Solar Nakhonsawan Company Limited and the Electricity Generating Authority of Thailand (EGAT) for 5 years. Each default renewal is valid for 5 years under a condition that the party who wishes to renew the agreement must inform in writing to another party at least 30 days before the expiration date of the agreement.
- Granted Adder privilege for SPP of renewable energy in the rate of Baht 6.50 per kilowatt per hour for 10 years from the COD.

(3) Solar Power Plant, total production capacity 90 megawatts/ Lampang Province

- The power plant is under the management of EA Solar Lampang Company Limited, a direct subsidiary company classified as a Small Power Producer (SPP). The project is located at No. 333, Moo 1, Ban-uam Sub-district, Ban-Pao District, Mueang Lampang District, Lampang including an area in Nonglom Sub-district, Hang Chat District, Lampang in the area of approximately 2,477 Rais.
- A power purchase agreement (PPA) between EA Solar Lampang Company Limited and the Electricity Generating Authority of Thailand (EGAT) for 5 years. Each default renewal is valid for 5 years under a condition that the party who wishes to renew the agreement must inform in writing to another party at least 30 days before the expiration date of the agreement.
- Granted Adder privilege for SPP of renewable energy in the rate of Baht 6.50 per kilowatt per hour for 10 years from the COD.

(4) Solar Power Plant, total production capacity 90 megawatts/ Lampang Province

- The power plant is under the management of EA Solar Phitsanulok Company Limited, a direct subsidiary company classified as a Small Power Producer (SPP). The project is located at No. 88, Moo 11, Matong Sub-district, Phrom Phiram District, Phitsanulok, in the area of approximately 2,230 Rais.

- A power purchase agreement (PPA) between EA Solar Phitsanulok Company Limited and the Electricity Generating Authority of Thailand (EGAT) for 5 years. Each default renewal is valid for 5 years under a condition that the party who wishes to renew the agreement must inform in writing to another party at least 30 days before the expiration date of the agreement
- Granted Adder privilege for SPP of renewable energy in the rate of Baht 6.50 per kilowatt per hour for 10 years from the COD.

Promotional privileges and benefits

The Company has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, as follows: Investment Promotion Section 7.1 Solar Energy, total 4 projects as follows:

Type of the business being promoted	Promotion Card No.	Date of approval
EA Solar Farm / Lopburi Province	2467 (1)/2554	17 November 2011
Project 1 / Nakhon Sawan Province	1251 (1)/2556	20 May 2013
Project 2 / Lampang Province	2076(1)/อ./2557	3 September 2014
Project 3 / Phitsanulok Province	58-2034-0-00-2-0	10 July 2015

Wind Power Plant

The Company produces and distributes wind electric power. There are 8 projects commercial operated with total production capacity of 386 megawatts. Details are as follows:

(1) Hadkanghan 1-3 : total 3 projects with the total production capacity of 126 megawatts.

Projects	Production Capacity	Status
Hadkanghan 1 Ranod District / Songkhla Province	36 megawatts	Started commercial operation (COD) on 3 March 2017
Hadkanghan 2 Huasai District /Nakhon Si Thammarat Province	45 megawatts	Started commercial operation (COD) on 10 June 2017
Hadkanghan 3 Pak Panang District /Nakhon Si Thammarat Province	45 megawatts	Started commercial operation (COD) on 23 June 2017
Total production capacity	126 megawatts	

- The power plant 3 projects are under the management of EA Wind Hadkanghan 3 Company Limited, classified as a Small Power Producer (SPP). The project is located at Huasai District, Pak Panang District, Nakhon Si Thammarat to Ranod District, Songkhla.
- A power purchase agreement (PPA) between EA Wind Hadkanghan 3 Company Limited and the Electricity Generating Authority of Thailand (EGAT) for 5 years. Each default renewal is valid for 5 years under a condition that the party who wishes to renew the agreement must inform in writing to another party at least 30 days before the expiration date of the agreement.

- The EA Wind Hadkanghan 3 was granted Adder privilege in the rate of Baht 3.50 per kilowatt per hour for 10 years from the COD.

(2) Hanuman 1,5,8,9,10 : total 5 projects with the total production capacity of 260 megawatts.

Projects	Production Capacity	Status
Hanuman 1 Thep Sathit District/ Chaiyaphum Province	45 megawatts	Started commercial operation (COD) on 25 January 2019
Hanuman 5 Thep Sathit District/ Chaiyaphum Province	48 megawatts	Started commercial operation (COD) on 22 March 2019
Hanuman 8 Thep Sathit District/ Chaiyaphum Province	45 megawatts	Started commercial operation (COD) on 25 January 2019
Hanuman 9 Thep Sathit District, Nong Bua Rawe District/ Chaiyaphum Province	42 megawatts	Started commercial operation (COD) on 30 March 2019
Hanuman 10 Bamnet Narong District/ Chaiyaphum Province	80 megawatts	Started commercial operation (COD) on 13 April 2019
Total production capacity	260 megawatts	

- The power plants are under the management of 5 indirect subsidiary companies, classified as a Small Power Producer (SPP). The project is located Thep Sathit district, Nong Bua Rawe district and Bamnet Narong district, Chaiyaphum.
- A power purchase agreement (PPA) between 5 indirect subsidiary companies and the Electricity Generating Authority of Thailand (EGAT) for 5 years. Each default renewal is valid for 5 years under a condition that the party who wishes to renew the agreement must inform in writing to another party at least 30.
- Granted Adder privilege for SPP of renewable energy in the rate of Baht 3.50 per kilowatt per hour for 10 years from the COD.

Promotional privileges and benefits

The Company has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 7.1 Wind Energy and granted tax benefits from the Board of Investment (BOI) for 8 years corporate income tax on net profit exemption and 50% reduction of corporate income tax on net profit desired from the promoted activity for 5 years, total 8 projects as follows:

Type of the business being promoted	Promotion Card No.	Date of approval
Hadkanghan 1 Ranod District / Songkhla Province	1702(1)/2558	12 February 2015
Hadkanghan 2 Huasai District /Nakhon Si Thammarat Province	1701(1)/2558	12 February 2015
Hadkanghan 3 Pak Panang District /Nakhon Si Thammarat Province	1703(1)/2558	12 February 2015
Hanuman 1 Thep Sathit District/ Chaiyaphum Province	60-0055-0-13-2-0	12 February 2015
Hanuman 5 Thep Sathit District/ Chaiyaphum Province	60-0051-0-13-2-0	12 February 2015
Hanuman 8 Thep Sathit District/ Chaiyaphum Province	60-0052-0-13-2-0	12 February 2015
Hanuman 9 Thep Sathit District, Nong Bua Rawe District/ Chaiyaphum Province	60-0053-0-13-2-0	12 February 2015
Hanuman 10 Bamnet Narong District/ Chaiyaphum Province	60-0054-0-13-2-0	12 February 2015

Marketing and Competition

Trends and growth of alternative energy business (renewable energy) in the future

The Thailand Power Development Plan 2018-2037 (PDP2018) was endorsed by the National Energy Policy Council (NEPC) and acknowledged by the Cabinet, in accordance with the government policy which focusing on 3 parts as follows

1. Energy Security

The security of power supply, transmission system and distribution system in response to the demand of electricity to support economic and social development plan including consider the power plant in order to sustain energy security.

2. Economy

It is vital to consider the optimized energy costs and promote low cost production while not causing obstacles to economic and social development including the readiness preparation for electrical system in order to the competition in electricity production to increase the efficiency of Electricity production in overall.

3. Ecology

To reduce the impacts on the environment by supporting the production of electric power generated from renewable energy and increasing the efficiency of electrical system both electricity production and electric energy consumption by developing smart Grid.

The Government is taking steps to increase renewable energy to correspondence with the outstanding renewable energy and support electricity consumption behavior including Disruptive Technology and in line with the conference of the parties (COP21) which consists of biomass, biogas, solar energy, Hydro Floating Solar Hybrid Power plant and other renewable energies.

The purpose of purchasing power of renewable energy is to maintain the pricing fluctuation and comply with the government policy which targeting the production capacity as of 2037 amount to 16,243 megawatts.

The energy renewable projects during 2018 to 2037

(According to the Thailand Power Development Plan 2018-2037 (PDP2018 Revision 1))

Biomass Power Plant (Biomass)	2,780 megawatts
Biogas Power Plant (Biogas)	400 megawatts
Solar Energy (Solar PV)	8,740 megawatts
Hydro Floating Solar Hybrid Power plant	2,725 megawatts
Wind Energy (Wind)	1,485 megawatts
Industrial Waste	44 megawatts
Mini Hydro Power Plant EGAT	69 megawatts
Total at year 2037	16,243 megawatts

Source: the National Policy Council Energy department, Ministry of Energy

Marketing Policy

The Company has no direct competitors in term of marketing due to all the productions are distributed to the state authorities which are the Electricity Generating Authority of Thailand (EGAT) and Provincial Electricity Authority (PEA), based on the sale contracts (PPA). The Company has a strong determination to become a leading producer of alternative energy by using cutting-edge technology, choosing quality equipment from reliable manufacturers to ensure the smooth and stable performance of the power plants. In addition, the Company and the Company Group take into account the influence of teamwork which is an essential part of workflow. Through operation of the Company group, we employ personnel with experience and skills especially, civil work, to design and maintain the solar power plants.

Target customers / Distribution

The target customers for solar and wind power plants is electricity agencies from the government sector which includes the Provincial Electricity Authority (PEA) for 8 megawatts solar power plant in Lopburi and Electricity Generating Authority of Thailand (EGAT) for solar power plants in Nakhon Sawan, Lampang and Phitsanulok, each project has 90 megawatt capacity and total wind power plants as prescribed in the power purchase agreement which the Company and the Company Group made with the said government agencies in order to support the government policy about increasing the production capacity of electricity from renewable energy, to reduce importing energy in the long-term.



Electric Vehicle and Energy Storage System

1. Battery development, manufacturing and distribution business

To enhance competitiveness in the renewable energy business and to comply with the business operation policy of the Company's Group, the Company acquired ordinary shares of Amita Technologies Inc. (AMITA-Taiwan), a company incorporated under the law of Taiwan, the Republic of China (ROC) and listed on the Emerging Stock Market of the Stock Exchange of Taiwan to operate lithium-ion polymer battery development and manufacturing business. In addition, the Company has established a subsidiary, i.e. Amita Technology (Thailand) Co., Ltd. to develop, manufacture, and distribute lithium-ion batteries. At present, for the plant construction, the plant was able to accommodate commencement of phase 1 production in late 2021. Thereafter, the production capacity will be gradually increased in the next phase to meet the market demand and be expected to sell for electric vehicle business of the Company's group, such as E-Bus, E-Ferry. In this regard, the Company shall take batteries produced by AMITA-Taiwan's battery

Nature of Products

Generally, lithium-ion battery is an energy storage device which can store high volume of electric charge. After electricity is used up, the battery can be rechargeable as it contains chemicals which can react change to the former form by putting electricity into the equipment called "Charger" Regarding properties of a lithium-ion battery, apart from electrode materials, the Company has designed them to have outstanding properties enabling it to contain high volume of energy, have light weight and long useful life. Lithium-ion batteries of the Group contained no chemicals which are hazardous to environment, such as acid liquid or lead. The Group is committed to developing and manufacturing lithium-ion batteries for diverse applications as follows:

(1) Electric Vehicle

These electric passenger cars, electric trucks and electric transport boats, can help lessen pollution from internal combustion engines, reduce use of fuel oil, and prevent emission of exhaust gases into the air. Using electric power for automobiles can be regarded as an alternative energy to efficiently replace fuel energy. Especially amid the increasing concerns about global warming, use of lithium-ion batteries can be a good choice of power for electric vehicle and benefit to the environment.

(2) Energy Storage System (ESS)

Since renewable energy becomes part of electric power industry with an image of clean technology, it has increasingly been used for electricity generation. However, renewable energy has some limitations concerning system stability as most of them come from solar and wind power, hence inability to generate and distribute electricity at a consistent pace. As such, energy

storage system has increasingly played a significant part in power generation system, paving way for advancement toward the age of energy for the future.

Energy storage system (ESS) refers to a system and equipment which can change electric power or electricity to power in other forms so that electricity can be stored for use when needed, and will change the stored energy to electric power again when electricity is needed. ESS is very essential to the electric system in the future as it can help stabilize the electricity generating system and maintain consistent electricity quality. In addition, it helps support the change of electrical load to the appropriate period of time. For example, when electricity generated exceeds the existing electrical load, instead of throwing it away, the excess energy can be stored in the ESS for the period of lower electricity generation. This will enable smooth energy management in overall.

Strengths of energy storage system (ESS) are as shown below:

- Enhance stability of renewable energy for consistent electricity generation even when there is disruption in renewable energy power generation such as in case of thick clouds blocking sunlight (solar radiation density) or no wind blow (wind speed), etc.
- Serve as a backup energy source to store electric power from the generation system and for use in place of solar power which cannot be generated during night time.
- Stabilize the electric system to cope with fluctuations in the electric system by using power from batteries to maintain stability of the electric pressure and frequency of the system.
- Manage congestion of electric power network by having power from batteries to supplement the system instead of transmitting electricity from afar in case such areas need high volume of electricity for a certain period of time. The ESS uses lithium-ion batteries as they are suitable for installation, storage, and fast transmission of electricity, and worthwhile compared with their useful life. In addition, they can easily be moved for installation elsewhere (*subject to regulatory authority's permission*).

Each lithium-ion battery has the following components:

- (1) **Negative electrode:** Main components are graphite-coated copper plates.
- (2) **Positive electrode:** Main components are nickel manganese cobalt-coated aluminum plates.
- (3) **Electrolyte solution:** It is solution which has lithium as the main component. Electrolyte solution will exchange lithium's ion and electrons between negative and positive electrodes.
- (4) **Semipermeable membrane:** Polypropylene (PP) separates negative and positive electrodes.

Types of Products

(1) Lithium-ion battery cells

Lithium-ion battery cell is the smallest product unit. The Parallel connection attains the higher Nominal Capacity while the connecting several cells in Series adds its voltage (Nominal Voltage) and will be called module. And if the battery modules are stacked together to form a larger size, it will be called a battery pack used with electric cars, electric ferry, or Energy Storage System (ESS). Each battery cell mainly contains cathode (positive electrode) and anode (negative electrode) and electrolyte solution as lithium is the element which allows electron to come from atom easiest among all elements. Therefore, lithium-ion can store high volume of energy.

(2) Lithium-ion battery modules

Lithium-ion batteries can change electric power capacity according to the application requirements. As capacity of each type of machine requires different capacity, the Company designs arrangement of lithium-ion battery cells to be in modules of various sizes so as to be convenient for diverse applications, whether they are for electric cars, electric trucks, electric boats, or energy storage system, etc.

Promotional privileges and benefits

Amita Technology (Thailand) Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 5.2.6.1 High Density Battery, Promotion Card No. 62-1184-1-18-1-0. The Board has been approved on 22 October 2019 and granted tax benefits from the Board of Investment (BOI) for 8 years corporate income tax on net profit exemption and 50% reduction of corporate income tax on net profit desired from the promoted activity for 5 years.

Marketing and Competition

Business growth trend and outlook of Battery

Lithium battery is currently a popular topic amid public interest of smart electronic equipment and the energy storage system (ESS) which has lithium-ion batteries as main components and used in various types. The National Metal and Materials Technology Center has classified lithium-ion batteries according to negative and positive electrodes and applications into 6 types as below:

Table: Types of lithium-ion batteries classified by negative and positive electrodes and applications

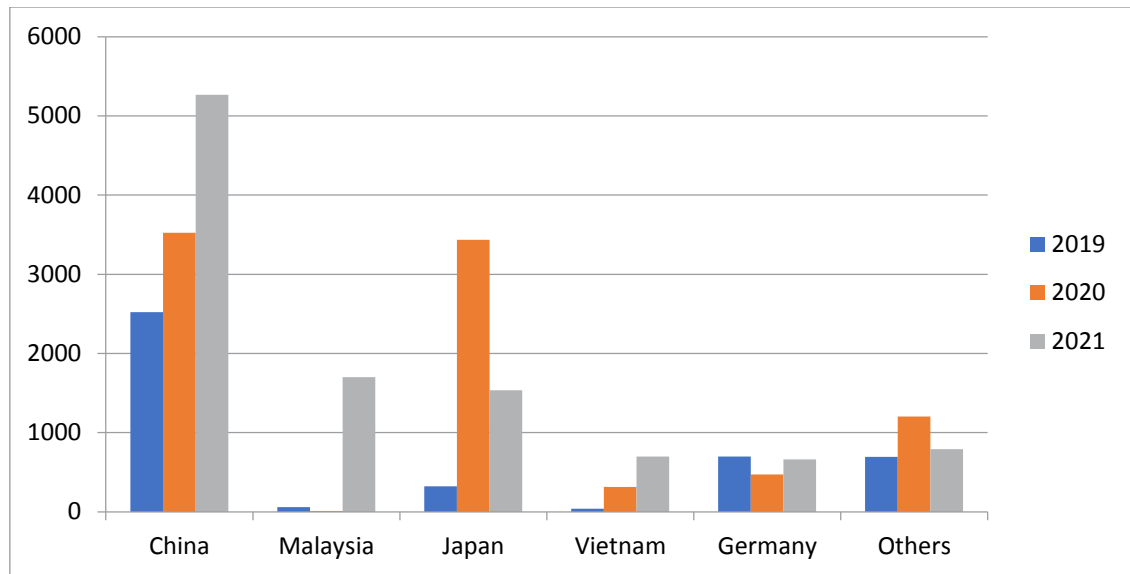
Type no.	Positive electrode	Negative Electrode	Applications
1	Lithium Cobalt Oxide (LiCoO ₂ , LCO)	Graphite	Mobile phones, tablets, laptops, digital cameras
2	Lithium Manganese Oxide (LiMn ₂ O ₄ , LMO)	Graphite	Power tools, medical equipment, power transmission system in electric vehicles
3	Lithium Nickel Manganese Cobalt Oxide (Li(Ni,Mn,Co)O ₂ , NMC, NCM)	Graphite	Electric bikes, medical equipment, power transmission system in electric vehicles (normally hybrid cars), backup power system
4	Lithium Nickel Cobalt Aluminum Oxide (Li(Ni, Co, Al)O ₂ , NCA)	Graphite	Medical equipment, power transmission system in electric vehicles (found in Tesla Model S), backup power system
5	Lithium Iron Phosphate (LiFePO ₄ , LFP)	Graphite	Power transmission system in electric vehicles or replacement of start-lighting-ignition battery), system which requires high current and durability
6	Graphite or LMO	Lithium Titanate (Li ₄ Ti ₅ O ₁₂ , LTO)	Backup power system, power transmission system in electric vehicles (Mitsubishi i-MiEV, Honda Fit EV)

Source: MTECH Article on Get to Know Batteries, Part 4 Material Technology Magazine Volume

(https://www2.mtec.or.th/th/e-magazine/magazine_detail.asp?Run_no=dlkebzwwve)

Currently, Thailand has still imported lithium-ion batteries in a large volume. Any future increase in investment in lithium-ion battery manufacturing will help cut down import and import costs. In addition, it is an opportunity for manufacturers of equipment in which lithium-ion batteries are used as components, such as wireless charging devices and charging stations for electric cars, etc.

Bar chart: Thailand's import of lithium-ion battery (850760) during 2019-2021 (Unit: Million Baht)

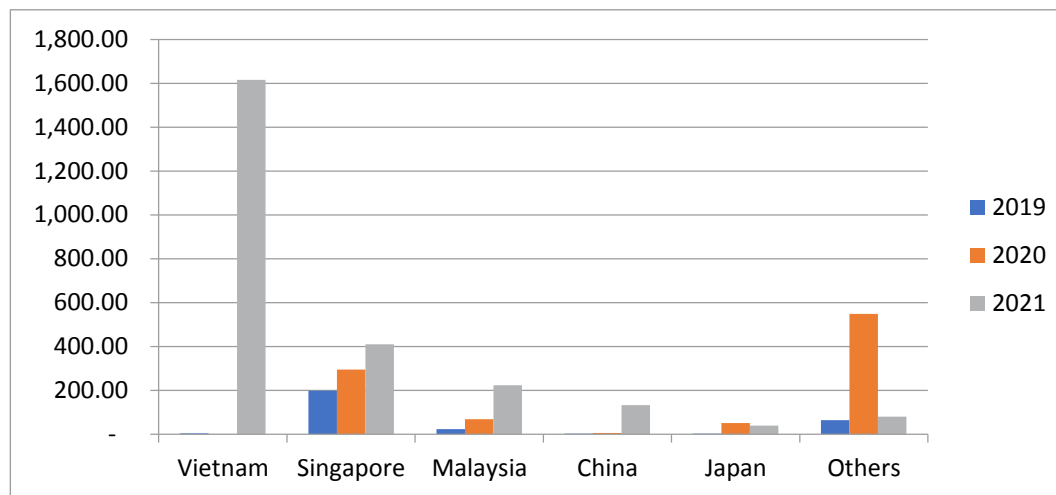


2019	2,522.23	60.93	323.18	38.08	699.62	693.01
2020	3,525.86	9.23	3,435.59	312.30	471.61	1,202.36
2021	5,267.04	1,701.76	1,535.91	697.90	661.45	790.64

Source: Information and Communication Technology Center, Office of Permanent Secretary, Ministry of Commerce, with collaboration from Customs Department;: tradereport.moc.go.th

From the chart above, in 2020 (Jan.- Dec.), Thailand imported lithium-ion batteries in the total value of approximately Baht 10,654.69 million, increasing by 19% from those in 2020 and 146% from those in 2019. This presents that the import of lithium-ion battery in Thailand continues to increase significantly and it is indicated a continuously growing of demand for this type of battery. Pursuant to the ASEAN-China Free Trade Agreement (ACFTA), Thailand has reduced the tariffs on the sensitive products (Sensitive list: SL) under Secondary Battery category imported from China to 5 percent from the previous set goal at 20 percent, resulting in the increase of imports from China with the value of Baht 5,267.04 million, presenting the increase of import at 49 percent higher than the same period of the last year and market share rise to 49 percent in 2021.

Bar chart: Thailand's export of lithium-ion battery (850760) during 2019-2021 (Unit: Million Baht)



2019	3.68	197.77	23.23	2.75	2.24	64.49
2020	0.91	295.08	68.24	5.53	50.22	548.07
2021	1,615.31	410.14	223.44	132.94	39.86	79.33

Source: Information and Communication Technology Center, Office of Permanent Secretary, Ministry of Commerce, with collaboration from Customs Department;: tradereport.moc.go.th

From the chart of export value of lithium-ion battery of Thailand during 2019-2021, (Jan.- Dec.), it presents, in 2021, Thailand exported the total lithium-ion battery of Baht 2,501.02 million, with a growth rate of 158 percent from the same period of 2020. This presents that the export of lithium-ion battery in Thailand continues to increase significantly as compared with the same period of last year. This also presents the growth of battery manufactory in the country. The battery exported to Vietnam is likely increase with the value of Baht 1,615.31 million or approximately of 64.59 percent of total value in the year 2021. And by 2021, Thailand exported the lithium-ion battery to Singapore, valued at Baht 410.14 million or 16.40 percent of the total export value.

Marketing policy

1. Marketing Strategy (Product)

The Company has focused on continuous research and development of production technology to ensure the designed lithium-ion battery has high quality and efficiency, store higher quantity of energy, and spend less charging time. The Company's research and development team has enabled improvement of quality of lithium-ion battery cells at all times, as well as production formula, manufacturing process, and quality control in every step of the manufacturing process.

Also, the Group has invested in construction of electrolyte mixture plant as an important component of lithium-ion batteries. Therefore, it is able to improve electrolyte formula appropriately and continuously. For such downstream products as module batteries, the Company has set up module battery assembly units to provide application convenience for each group of customers who prefer batteries with diverse capacities, whether they are electric cars, electric trucks, electric boats or electric storage batteries for electricity generation and distribution system. Currently, the Company has conducted marketing and

technical research on new battery module design focusing on flexibility to allow modifications in response to customers' diverse applications.

2. Pricing Strategy (Price)

The Company has formulated product distribution policy based on the market price and set competitive prices in alignment with the technology and capacity of its products which are the selling point, and control of production costs in all aspects involving procurement of quality raw materials from various sources, construction of large plants, and automation of manufacturing process. This will help control and allow for efficiency and reduction of product unit costs in the manufacturing process, and enhance competitiveness in both domestic and overseas markets.

3. Distribution channel strategy (Place)

The Company has distributed battery packs through direct distribution channels to electric automobile manufacturers such as electric cars, electric trucks, electric buses or even electric boats both at home and overseas. Its Group's sales teams are direct contact for sales activities. Manufacturing of the products of both module and pack types are in the sizes as required by customers (made to order). In term of energy storage system (ESS), the sale team has directly engaged with the industrial group for use as backup energy source in case of emergency to prevent power system inconsistency. Design and installation have been carried out jointly with the solar panel distributors to ensure even more stable solar power distribution and reduce use of system power during peak period, hence decrease in electricity expense for industrial customers.

4. Procurement of raw materials

As the Company realizes raw material procurement risk, it has a policy in place to procure each type of raw materials from more than three reputable and reliable distributors to prevent shortage of raw materials for battery manufacturing. The Company has gathered information on battery demand and planned the delivery jointly with trade partners to prevent raw material shortage in the future.



2. Electric charging station service business (For electric vehicle)

The Company has expanded business to electric charging station business for electric vehicles under “EA Anywhere” brand, operated by Energy Mahanakhon Company Limited, its subsidiary. Its objective is to promote use of clean energy in the automobile industry to reduce greenhouse gas emission and also use of renewable energy which is environmentally friendly in place of fuel energy in the country’s transport system. This also responds to the development of infrastructure in preparation for electric automobile innovation or next generation automotive industry.

Nature of Products

“Electric charging station” is the station that provides charging service for electric vehicle which include PHEV (plug-in hybrid electric vehicle) and BEV (battery electric vehicle). The electric charging station is based on conductive charging technology. The electric vehicle is connected to the charger by cable (or charging cable) which is widely used nowadays. The charging is available for direct current and alternating current. The alternating current can be charged up to 44 kWh, depending on the onboard charger of each automotive model. Meanwhile, the direct current charger can charge up to 150 kWh and DC chargers for passenger buses, trucks and passenger ferry can be charged a maximum of 300 kWh.

Besides, the group Company has developed the charger with modern technology, variety of styles according to the electrical power to support the battery size of all types of vehicles. So that it can be used with all electric cars, including the electric vehicles designed and manufactured by the group Company, such as electric cars, electric buses, and electric passenger ferry, which can be charge at the highest speed (4C-Rate) whereas the charging time depends on the type of vehicle and

The size of the battery divided into 4 models as follows:



- **Ultra-Fast Charge :**

DC 300 kW, the fastest charger that can serve large battery electric vehicles such as electric ferries, electric buses.



- **Super-Fast Charge :**

DC 150 kW chargers can serve mid battery electric vehicles (BEV) only, for example, electric buses and electric vehicles.



- **Super-Fast Charge :**

DC 40 kW chargers can serve for Electric Vehicles car only.



- **Normal Charge :**

AC Normal chargers can serve electric vehicles car both Plug-in Hybrid (PHEV) and Battery Electric Vehicle (BEV)

Promotional privileges and benefits

Energy Mahanakorn Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 7.35 Electric Vehicle Charging Stations, Promotion Card No. 63-0401-1-00-1-0. The Board has been approved on 2 April 2020 and granted tax benefits from the Board of Investment (BOI) not more than 100% of investment for 5 years.

Marketing and Competition

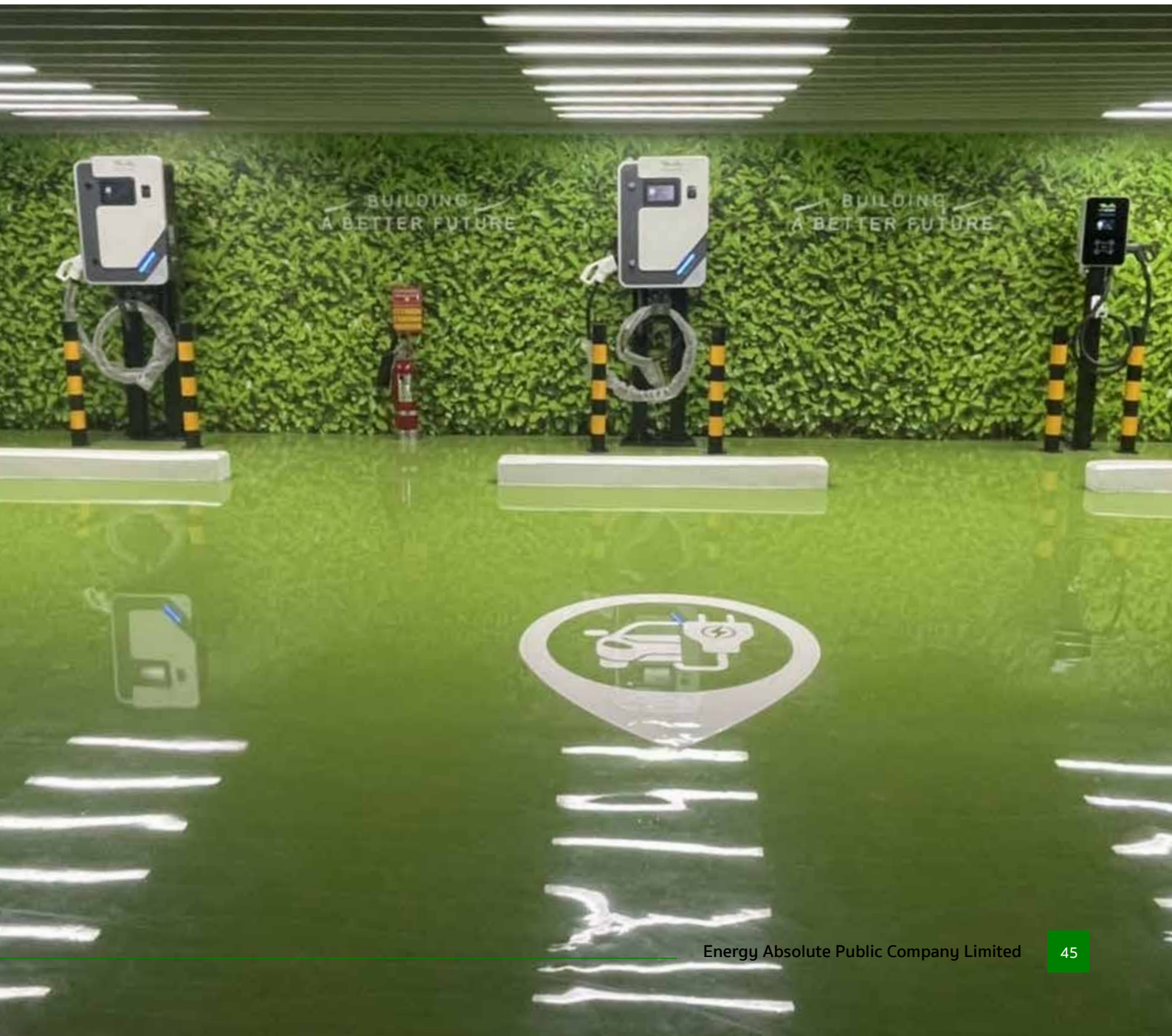
Service providers are facing wide-ranging challenges in the investment in electric charging station expansion compared with other businesses in the renewable energy sector. In 2021 in particular, service providers from both public and private sectors introduced their partners and actively penetrated electric charging station business while accelerating infrastructure and ecosystem development to accommodate the robust growth of electric vehicle market. Particularly, foreign automobile companies expanded electric charging stations in their service center and showroom premises, aiming to push up continuous growth of electric vehicle market in Thailand. This has resulted in a larger number of electric charging stations for users.

However, although the Company is the market leader in electric charging station industry with the largest number of fast and normal chargers across the country, the Company still needs to improve efficiency of the chargers, charging stations and physical conditions of the locations to ensure the ability to accommodate larger diversity of electric vehicles and to edge up its competitiveness. The Company plans to expand electric charging stations for electric buses as well as electric trucks and electric tractors to connect transportation across economic areas such as the route to the Eastern Economic Corridor (EEC) covering Rayong, Chon Buri and Chachoengsao provinces, etc. and main routes to key economic areas in other regions particularly the Northeast covering the areas in Nakhon Ratchasima, Khon Kaen and Buriram provinces, etc. For 2022, the Company plans to continuously expand large-scale electric charging stations to serve electric trucks and electric buses on primary and secondary routes.

Product Procurement:

To select location for installation of electric charging stations, the Group takes into consideration the feasibility of such locations where users would access, e.g., areas with a large number of service users or travelers by car, or rest stops in Bangkok and the vicinity as well as in regional areas along the routes to destinations. At present, the investment is targeted at installation in the areas which allow for 24-hour service and can accommodate entry-exit of electric vehicles at all times such as gas stations, hotels, and rest spots along main routes. In its next plan, the Group will focus on installation of DC chargers or fast chargers in the areas which allow for 24-hour service and installation of large electric charging stations on main transportation and logistics routes to support use of electric vehicles in inter-regional transport business and economic routes such as the EEC, etc.

For electric charging station, users can walk-in to use the service right away through “EA Anywhere” application, available for download via Apple Store for iOS and Play Store for android devices. Currently, electric charging stations are available across the country. The Company also plans to invest continuously in the installation of electric charging stations in collaboration with major partners and to welcome other new partners which have the locations and whose businesses align with the Company’s business plan.





3. Electric Vehicle Business

The prevailing global warming situation has caused rising global temperature while the PM 2.5 problem from incomplete combustion in diesel engine results in toxic emissions from vehicle exhaust, i.e., Particulate matter and black soot, etc.

Commercial vehicles used in Thailand which are rather old and create black soot particles are a major source of carbon emissions and PM 2.5. Recognizing the significance of such problem, the Company has expanded its business to commercial electric vehicles, starting with construction of the assembly plant of large commercial electric vehicles in Ban Pho district, Chachoengsao province which covers an area of about 55,000 square meters. The Company's electric vehicle business is environmentally friendly and enables the Company to utilize electric vehicles in its operation with lower fuel cost than using combustion-engine vehicles. It also supports the National Energy Plan to drive Thailand towards clean energy and to reduce carbon emission to achieve net zero carbon emission within 2065-2070.

Nature of Products

(1) Electric Bus

The Group commenced construction of the electric bus assembly plant in 2020 with a capacity of 3,000 buses/year. This 100% electric buses use high quality lithium-ion batteries produced by the Group. The electric bus assembly plant which started commercial operation in 2021 has assembled and delivered over one hundred electric buses.

Electric bus manufactured by the Company has driven efficiency and contain no internal combustion engine which would cause air and noise pollution. It can drive continuously on all types of roads, traffic and weather condition. Its reliability is no less than that of internal combustion engine vehicles. It is installed with 250-350 kWh high quality lithium-ion battery produced by the Company, and this helps uplift eco-friendliness and sustainability of the road trip.

(2) Electric Ferry

The Company operates electric boat business under the brand "MINE SMART FERRY" through its subsidiary, namely E Smart Transport Co., Ltd. MINE SMART FERRY has been designed by the Group teams and produced 100% by Thai labor under the Corporate Social Innovation (CSI) concept with its potential and innovation availability.

MINE SMART FERRY is a 24-meter catamaran boat with marine-grade aluminum alloy structure and 250-passenger capacity. Its maximum speed is up to 16 knots. With the use of 700-800 kWh lithium-ion battery produced by the Group and equipped with ultra-fast charge technology of EA Anywhere, the battery can be charged to 85% in only 15 minutes. The electric boat can travel by as high as 80 kilometers per one charge.

MINE SMART FERRY has turned around public transport along the Chao Phraya River by modernizing and making it more eco-friendly, and causing neither water pollution nor PM 2.5. There are a total of 23 ferries in the project fleet, which will be increased to meet passenger demand in the future. The service covers the routes from Phra Nangklao Bridge Pier to Sathorn Pier (distance of 22 kilometers). In addition, the Company has collaborated with the Marine Department in the

development of public piers such as Saphan Phut Pier and Phra Pinklao Bridge Pier, aiming to connect the land and marine public transport systems and provide more options of convenient and safe marine travel with pollution-free and eco-friendly electric vehicles. MINE SMART FERRY has been registered as the first Thai electric ferry which has passed the examination, safety test and sailing standard of the Marine Department. It is a Thai innovation and won the National Innovation Awards 2020 for Economy from the National Innovation Agency.

(3) Small Electric Car

Small commercial electric car “MINE SPA1” was launched in 2019. It is 100% driven by electricity. At present, the Company focuses mainly on the production and development of electric bus due to small number of competitors. Additional study and research has also been conducted on other types of commercial electric vehicles to enlarge the target groups of electric vehicle market in the future.

Promotional privileges and benefits

Mine Mobility Corporation Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 4.18 Manufacture of Electric Vehicle with Battery and Parts and granted tax benefits from the Board of Investment (BOI) not more than 100% of investment for 5 years as follows:

Promotion Card No.	Date of approval
63-0536-1-00-1-0	13 May 2020
64-0067-1-00-1-0	20 January 2021

E Smart Transport Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 7.22.1 Ferry or Tour Boat or Tour Boat Renting Services and granted tax benefits from the Board of Investment (BOI) not more than 100% of investment for 5 years as follows:

Promotion Card No.	Date of approval
63-0920-1-00-1-0	21 August 2020
64-0730-1-00-1-0	15 July 2021
64-0731-1-00-1-0	15 July 2021
64-0732-1-00-1-0	15 July 2021

Absolute Assembly Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 4.27 Manufacture of Battery Electric Bus and Truck, Promotion Card No. 64-0758-1-00-1-0. The Board has been approved on 29 July 2021 and granted tax benefits from the Board of Investment (BOI) not more than 100% of investment for 3 years.

Market and Competition

Currently, electric vehicles tend to increasingly replace internal combustion engine vehicles. This will help mitigate pollution problems caused by internal combustion engine and reduce use of fuel oil, hence lower polluted air emissions. It is thus considered one of the renewable energy options that will efficiently replace fuel energy.

Marketing Policy

Electric vehicle business in Thailand is likely to enjoy a favorable growth. At present, the Company has electric bus assembly plant targeted at commercial vehicle market. The accumulated number of registered commercial vehicles totals 1.3 million units, an average increase of about 3% per year. Meanwhile, newly registered commercial vehicles averages at more than 80,000 units per year (*Ref: Transport Statistics Group, Planning Division, Department of Land Transport*)

Bar Chart: Accumulated Number of Registered Commercial Vehicles during 2012-2021



Source: Transport Statistics Group, Planning Division, Department of Land Transport

The National Electric Vehicle Plan and the data on accumulated registered commercial vehicles during 2012-2021 reflect opportunity of the shifting more to use of electric vehicles in the future. The Company currently has electric bus assembly plant focusing specially on commercial vehicle market. Its electric bus has advantages over general combustion engine vehicles in terms of lower energy and repair/maintenance costs. The Company also has strength over its competitors as its business operation covers the entire ecosystem, from manufacturing of electric vehicles, batteries, electric charging stations to after-sale services as well as availability of strong business partners.

Target Groups

The Company targets commercial customers that use electric buses and electric boats in the business operations including those in the public sector with intention to use electric buses and electric boats. The Company views that competition in Thai commercial electric vehicle market is rather low and there are not so many players in this market. In addition, import of electric buses and electric boats from overseas incur high costs. Therefore, the Company aims to level up domestic public transportation system for more modernity, convenience and sustainable reduction of pollution as well as to take part in driving Thailand toward a low carbon society.

Products and Services Procurement

The Company established Absolute Assembly Co., Ltd. (AAB) to operate manufacturing of all electric buses and electric vehicles for commercial purpose with a production capacity of 3,000 units per year. AAB can also accommodate production of other types of electric vehicles such as coach, truck or other industrial vehicles. Parts are imported from overseas for use in conjunction with major parts designed and produced locally using automated manufacturing process. The Company also has lithium-ion battery plant, which is the key to electric vehicle manufacturing, operated by its subsidiary company, Amita Technology (Thailand) Co., Ltd., with a production capacity of 1 gigawatt hour per year. Its business operation covers the end-to-end system, from manufacturing, assembly, distribution to after-sale services.



Other business

1. Battery Electric Vehicle and Electronic Products Testing Center

The Company has established a battery testing center for electric vehicles and electronic products to test the efficiency and safety and for international standard battery certification. It is also aimed at promoting use of electric vehicles according to the 30@30 policy of the government, which encourages comprehensive production in the electric vehicle industry throughout the production chain with the target to have zero-carbon emission auto vehicles in a 30% proportion by 2030 (based on the data from the Energy Policy and Planning Office). Generally, battery is one of the hazardous products which require safety test on many aspects and certification before distribution. The testing standards vary by usage as well as user country. The Company's testing center aims to become an international testing hub for electric vehicle manufacturers in ASEAN and worldwide. It also plans to include testing for diverse sizes and usage of battery. The Company currently has high-technology machinery which enables testing in accordance with international standards and expects to commence the battery testing operation by 2022.

Nature of Products

"Battery Electric Vehicle and Electronic Products Testing Center" provides battery efficiency and safety testing service, and international standard certification service for both cell module and pack test. Its services are divided into two types as follows:

1. **Scientific test** which is categorized by properties of the testing substance including physical, chemical and electrical properties, and other tests such as short circuit, charging and releasing capacity, battery life, vibration, compaction, crash and fire resistance tests, etc.
2. **International standard test (Certification)** which is classified by applicable international standard, e.g., UN R100, TIS 2217-2548, etc. Each test item is indicated according to the main objectives of the relevant standard as certification for the battery efficiency and safety before distribution for use of the product.

Promotional privileges and benefits

Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd. has been granted promotion privileges from the Board of Investment (BOI) according to the Investment Promotion Act, Investment Promotion Section 7.14 Scientific Laboratories Promotion Card No. 64-1069-1-00-2-0. The Board has been approved on 12 October 2021.

Market and Competition

For battery safety standard in Thailand, the Thai Industrial Standards Institute (TISI) issued the Draft TISI 2217-2548 as safety standard for battery cells and secondary battery containing electrolyte alkaline or other non-acid electrolyte for portable use. It also prescribes certification symbol on battery for sale and use in Thailand. The Company has procured the tools

and equipment for such domestic standard certification and planned to expand the scope of testing capacity to cover other international testing standards in the future.

2. Research and Development

The company established subsidiaries to conduct research and development of products related to palm oil, lithium-ion batteries, and electric vehicles, involving both electric cars and electric ferries. This serves as an extension of development to launch new innovative products, improve the potential and quality of existing products, and boost the competitiveness of the group on a long-term sustainable basis.

Nature of research and development

Green Technology Research Company Limited:

Established to develop and conduct research works on innovation to pursue development and add value to Thai agricultural products. The Company's products or services involve the manufacturing processes from palm-related raw materials for higher value added. The manufacturing processes innovated can be registered for patents. The target customers are companies in its Group. Such as Green Diesel projects and Phase Change Material (PCM) which is the new research and development under Biodiesel business for value adding of crude palm oil using as substrate consisting of

- (1.) Green Diesel (GD) products: for blending with diesel fuel to enhance the efficient and engine performance.
- (2.) Phase Change Material (PCM) is a substance which releases/absorbs sufficient energy at phase transition to provide useful heat/cooling. The PCM is used in many commercial applications where stable temperature is required such as being a component of building materials or fabric fibers. The demanding of PCM is increased in the countries with inclement weather

Mine Mobility Research Company Limited:

Develop and invent research in electric vehicles, such as electric cars, electric passenger ferry, and battery system in order to expand the technology of electric vehicles to respond to the needs of the customer under the concept of "MISSION NO EMISSION". The "Zero Pollution Mission" is aimed and focused on vehicles without pollution and being the environmental friendly, economical, and safe. This is also easy to maintain in the long-term so that Thais can use electric cars and electric passenger ferry with high quality and to transform Thailand into an innovative city without pollution in the future. According to the "Zero Pollution" intention, we have been developing the research center for electric cars under the name "MINE Mobility" in line with Electric Vehicle (EV) Solution, with a focus on pollution-free innovation, with its subsidiary, Mine Mobility Corporation Co., Ltd., as a manufacturer, distributor, and manufacturer of electric vehicles and electric vehicle parts. In recent years, the company designed, developed and manufactured the electric passenger ferry using an 800 kWh lithium-ion battery, which can support maximum speed charging from the DC Fast Charge charger with a total power of more than 3 megawatts as an energy source to drive electric motors under the name "MINE SMART FERRY".

1.2.3 Operating assets

1. Operating assets for the Company and its subsidiaries

Operating assets for the Company and its subsidiaries are property, plant and equipment as of 31 December 2021 as follows:

Table of operating assets as at 31 December 2021

Type of asset	Owner	Pledged as collateral	NBV as of 31 December 2021 (Million Baht)	Type of asset
1. Land comprise of			2,125.57	
1.1 Land with the total area of 30-1-80 rai, located at 507 Moo 9 Soi 7, Kabinburi Industrial Zone, Kabin Buri-Nakhon Ratchasima Road, Nong Ki Subdistrict, Kabin Buri District, Prachinburi Province	The Company	No pledge		Location of biodiesel plant and purified glycerin and warehouse
1.2 Land for the solar power plant project with the total area of 315-3-20 rai, located in Phatthana Nikhom District, Lopburi Province	EA Solar Co., Ltd.	No pledge		Location of 8W solar power plant
1.3 Land for the solar power plant project, with total area of 1,894-1-76 rai, located at located in Nakhon Sawan Province	The Company	No pledge		Location of 90MW solar power plant
1.4 Land for the solar power plant project, with the total area of 2,477-3-60.09 rai, located in Lampang Province	The Company	No pledge		Location of 90MW solar power plant
1.5 Land for the solar power plant project, with the total area of 2,279-0-45 rai, located in Phitsanulok Province	The Company	No pledge		Location of 90MW solar power plant
1.6 Land for the wind power plant project, with the total area of 62-3-46 rai, located in Chaiyaphum Province	The Company	No pledge		Location of wind power plant
1.7 Land for the wind power plant project, with the total area of 127-2-73 rai, located in Songkhla Province	The Company and EA Wind Hadkanghan 3 Co., Ltd.	No pledge		Location of wind power plant
1.8 Land for the wind plant project, with the total area of 853-0-68.8 rai, located in Nakhon Si Thammarat Province	The Company and EA Wind Hadkanghan 3 Co., Ltd.	No pledge		Location of wind power plant
1.9 Land with the total area of 1,810-2-16 rai, located in Map Ta Phut Industrial Estate, Rayong Province	EA Bio Innovation Co., Ltd.	Pledged as collateral		Location of PCM plant and warehouse

Type of asset	Owner	Pledged as collateral	NBV as of 31 December 2021 (Million Baht)	Type of asset
1.10 Land located in Ban Pho, Chachoengsao Province, with the total area of 73-0-37 rai	Mine Mobility Corporation Co., Ltd	Pledged as collateral		• Location of vehicle assembly and battery plant
1.11 Land with the total area of 147-3-117 rai, located in Kanchanadit, Surat Thani Province	Kanjanadit Palm Oil Co., Ltd.	No pledge		• Location of CPO and Biogas plant
1.12 Land with the total area of 140-0-0.1 rai, located in Plai, Krabi Province	Larp Pakdee Palm Co., Ltd.	Pledged as collateral		• Location of CPO plant

Type of asset	Company name	Pledged as collateral	NBV as of 31 December 2021 (Million Baht)	Type of asset
2. Buildings and building improvement	The Company	- No -	69.63	used in operations and rental
	EA Solar Co., Ltd.	- No -	6.56	used in operations
	EA Solar Nakornsawan Co., Ltd.	- No -	105.28	used in operations
	EA Solar Lampang Co., Ltd.	- No -	103.55	used in operations
	EA Solar Phitsanulok Co., Ltd.	- No -	119.88	used in operations
	EA Wind Hadkanghan 3 Co., Ltd.	- No -	90.27	used in operations
	Banchuan Development Co., Ltd.	- No -	72.06	used in operations
	EA Bio Innovation Co., Ltd.	Pledged as collateral limit total amount 962 million	209.12	used in operations
	Mine Mobility Research Co., Ltd.	Pledged as collateral limit total amount 1,200 million	229.54	used in operations and rental
	Kanjanadit Palm Oil Co., Ltd.	- No -	91.09	used in operations
	Larp Pakdee Palm Co., Ltd.	Pledged as collateral limit total amount 310.85 million	99.62	used in operations
	Group of company	- No -	511.97	used in operations
3. Machine	The Company	- No -	108.26	used in operations
	Energy Solution Management Co., Ltd.	- No -	11.43	used in operations and rental
	Energy Mahanakhon Co., Ltd.	- No -	238.45	used in operations
	Amita Technologies, Inc. and its subsidiaries	- No -	399.93	used in operations
	Green Technology Research Co., Ltd.	- No -	52.61	used in operations
	Mine Mobility Research Co., Ltd.	- No -	106.86	used in operations
	EA Bio Innovation Co., Ltd.	Pledged as collateral limit total amount THB 962 million	944.24	used in operations

Type of asset	Company name	Pledged as collateral	NBV as of 31 December 2021 (Million Baht)	Type of asset
	Mine Mobility Corporation Co., Ltd.	Pledged as collateral limit total amount THB 1,200 million	311.76	used in operations
	Kanjanadit Palm Oil Co., Ltd.	- No -	85.24	used in operations
	Larp Pakdee Palm Co., Ltd.	- No -	193.54	used in operations
	E Smart Transport Co., Ltd.	- No -	651.34	used in operations
	Chaophraya River Line Co., Ltd.	- No -	72.42	used in operations
	Group of company	- No -	276.77	used in operations
4. Power plant, substation, transmission line and parts	EA Solar Nakornsawan Co., Ltd.	Pledged as collateral limit total amount THB 6,732 million	3,857.37	used in operations
	EA Solar Lampang Co., Ltd.	Pledged as collateral limit total amount THB 6,509 million	6,064.97	used in operations
	EA Solar Phitsanulok Co., Ltd.	Pledged as collateral limit total amount THB 7,024 million	6,146.56	used in operations
	EA Wind Hadkanghan 3 Co., Ltd.	Pledged as collateral limit total amount THB 5,363 million	9,019.50	used in operations
	EA Solar Co., Ltd.	- No -	482.49	used in operations
	Banchuan Development Co., Ltd.	- No -	5,547.00	used in operations
	Benjarat Development Co., Ltd.	- No -	2,679.02	used in operations
	Pongnok Development Co., Ltd.	- No -	3,107.11	used in operations
	Nayangklak Development Co., Ltd.	- No -	2,936.14	used in operations
	Nayangklak Wind Power Co., Ltd.	- No -	2,925.90	used in operations
5. Office equipment, furniture and motor vehicles	Group of company	- No -	143.88	used in operations

2. Intangible Assets

The intangible assets of the Company and its subsidiaries as of 31 December 2021 as the below;

Unit: THB Million

Type of Intangible Assets	List of Intangible Assets	Book Value as of 31 Dec 2021
Right to power purchase agreement	Group of company	26.83
Right to use transmission line and substation	EA Solar Co., Ltd.	9.39
	EA Solar Nakornsawan Co., Ltd.	132.06
	EA Solar Lampang Co., Ltd.	136.45
	EA Solar Phitsanulok Co., Ltd.	208.79
	EA Wind Hadkanghan 3 Co., Ltd.	283.70
	Benjarat Development Co., Ltd.	119.39
	Nayangklak Wind Power Co., Ltd.	126.33
	Nayangklak Development Co., Ltd.	201.02
	Pongnok Development Co., Ltd.	97.74
	Banchuan Development Co., Ltd.	247.24
Computer software	Group of company	58.96
Trademark	Group of company	247.75
Patents	Group of company	729.31
Intangible assets under development	Group of company	164.74
Total		2,789.70

1.3 Shareholding Structure of EA Group

1.3.1 Shareholding Structure of EA Group

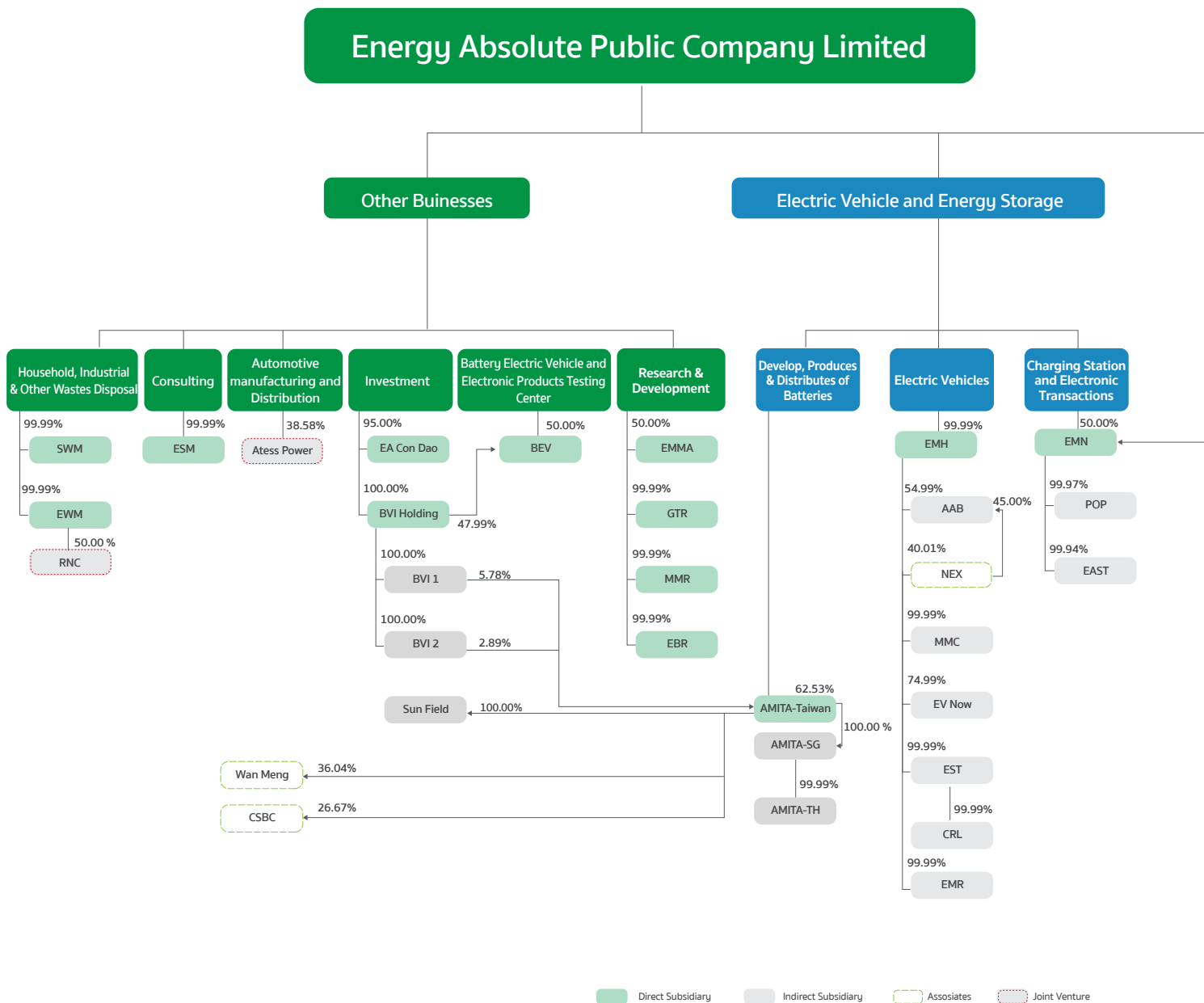
Absolute Energy Public Company Limited, Thailand's Leader in Clean Energy Innovation, was founded in 2006 as Sun Tech Palm Oil Co., Ltd. and began operations in the biodiesel business in 2008. The Company has expanded its business to generate and distribute solar electricity, including other businesses such as battery development and manufacturing, electronic vehicles and charging stations, as well as investing in the company's business in the Republic of China, which benefits the company's core business. Currently, the Company engaged in 3 major businesses:

- (1) **Biodiesel Business** – To produce and distribute biodiesel (B100), purified glycerin and byproducts.
- (2) **Renewable Power Plant Business** – To generate electricity from solar power plants and wind power plants to be distributed to the Electricity Generating Authority of Thailand (EGAT) and the Provincial Electricity Authority (PEA).
- (3) **Electric Vehicle and Energy Storage System** – To expand its operations to include the business of developing and manufacturing lithium-ion batteries and charging station services. For electric vehicles under the trademark "EA Anywhere", the goal of implementing clean energy in the automotive industry and promoting environmentally friendly energy consumption. Its operations were also expanded to include and its extension to electric vehicle business for electric buses, electric passenger ferries, and small electric vehicles.
- (4) **Other business** – To expand its business operations to include Battery Electric Vehicle and Electronic Products Testing Center for performance, safety and international certification for batteries, including research and development of palm oil related products, lithium-ion batteries and electric vehicles.

The group's operation is divided as follows:

Group's Shareholding Structure

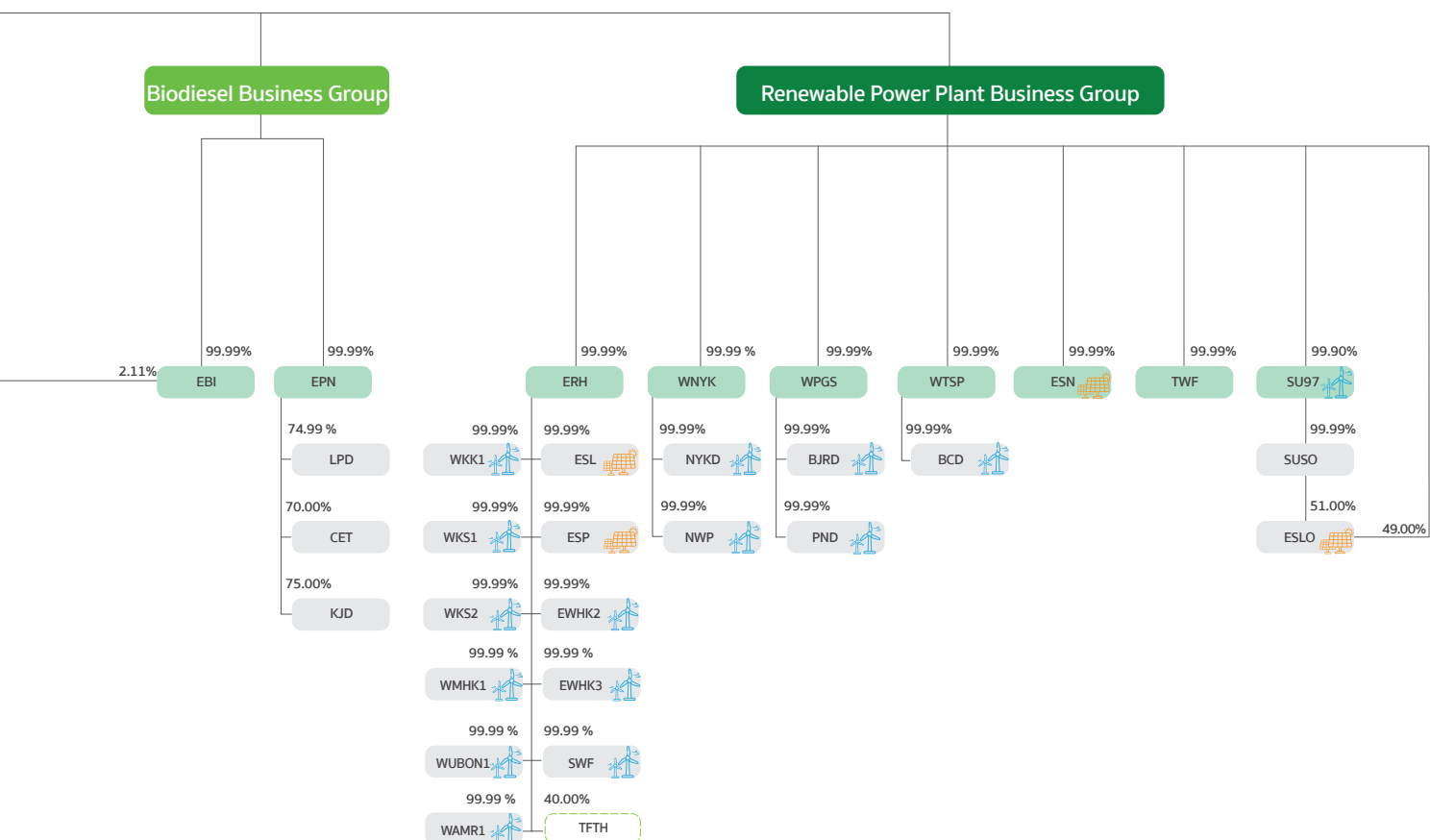
(As of 31 December 2021)



SWM : Smart Waste Management Co., Ltd.
EWM : EA Waste Management Co., Ltd.
RNC : Ranong Clean 2021 Co., Ltd.
ESM : Energy Solution Management Co., Ltd.
Atess Power : Shenzhen Atess Power Technology Co., Ltd.
Wan Meng : Wan Meng Precision Co., Ltd.
CSBC : CSBC Power Technology Co., Ltd.
EA Con Dao : EA Con Dao (SG) PTE. LTD.
BVI Holding : EA BVI Holding Limited
BVI 1 : EA (BVI) 1 Limited
BVI 2 : EA (BVI) 2 Limited

Sun Field : Sun Field Investment Co., Ltd.
BEV : Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd.
EMMA : Emma Corporation Co., Ltd.
GTR : Green Technology Research Co., Ltd.
MMR : Mine Mobility Research Co., Ltd.
EBR : Energy Beyond Research Co., Ltd.
AMITA-Taiwan : AMITA TECHNOLOGIES INC.
AMITA-SG : Amita New Technology PTE. LTD.
AMITA-TH : Amita Technology (Thailand) Co., Ltd.
EMH : EA Mobility Holding Co., Ltd.
AAB : Absolute Assembly Co., Ltd.

NEX : NEX Point PLC.
MMC : Mine Mobility Corporation Co., Ltd.
EV Now : EV Now Co., Ltd.
EST : E Smart Transport Co., Ltd.
CRL : Chaophraya River Line Co., Ltd.
EMR : EA Mobility Rental Co., Ltd.
EMN : Energy Mahanakon Co., Ltd.
POP : Paypop Co., Ltd.
EAST : EA Station Co., Ltd.



Direct Subsidiary
Indirect Subsidiary
Associates
⚡ Wind Power Plant
 ☀️ Solar Power Plant

EBI : EA Bio Innovation Co., Ltd.
EPN : EA Palm Network Co., Ltd.
LPD : Larp Pakdee Palm Co., Ltd.
CET : Combine Energy Tech Co., Ltd.
KJD : Kanjanadit Palm Oil Co., Ltd.
ERH : EA Renewable Holding Co., Ltd.:
WKK 1 : Wind Khonkaen 1 Co., Ltd.
WKS 1 : Wind Kalasin 1 Co., Ltd.
WKS 2 : Wind Kalasin 2 Co., Ltd.
WMHK 1 : Wind Mahasarakham 1 Co., Ltd.
WUBON 1 : Wind Ubon Ratchathani 1 Co., Ltd.
WAMR 1 : Wind Amnatcharoen 1 Co., Ltd.

ESL : EA Solar Lampang Co., Ltd.
ESP : EA Solar Phitsanulok Co., Ltd.
EWHK 2 : EA Wind Hadkanghan 2 Co., Ltd.
EWHK 3 : EA Wind Hadkanghan 3 Co., Ltd.
SWF : Subyai Wind Farm (1) Co., Ltd.
TPTH : TF Tech Holding Co., Ltd.
WNYK : Wind Nayangklak Co., Ltd.
NYKD : Nayangklak Development Co., Ltd.
NWP : Nayangklak Wind Power Co., Ltd.
WPGS : Wind Progressive Co., Ltd.
BJRD : Benjarat Development Co., Ltd.
PND : Pongnok Development Co., Ltd.

WTSP : Wind Tossaphum Co., Ltd.
BCD : Banchuan Development Co., Ltd.
ESN : EA Solar Nakornsawan Co., Ltd.
TWF : Thepsathit Wind Farm Co., Ltd.
SU97 : Surachai (1997) Co., Ltd.
SUSO : Surachai Solar (1997) Co., Ltd.
ESLO : EA Solar Co., Ltd.

Information of companies which the Company holds shares more than 10 percent of total paid up capital

As of December 31, 2021, The Company had 56 subsidiaries (comprising 22 Direct Subsidiaries and 34 Indirect Subsidiaries) 4 associated companies and 2 Joint Ventures. Details are as follows:

Subsidiaries	Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (Direct / Indirect) (Percent)	Office Location
Biodiesel Business					
Subsidiaries (Direct)					
1. EA Bio Innovation Co., Ltd.	EBI	400,100,000	40,010,000	99.99	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District,
2. EA Palm Network Co., Ltd.	EPN	1,200,000,000	120,000,000	99.99	Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
Subsidiaries (Indirect)					
3. Combine Energy Tech Co., Ltd.	CET	181,000,000	1,810,000	70.00	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
4. Larp Pakdee Palm Co., Ltd.	LPD	310,000,000	3,100,000	74.99	No. 456 Moo 3 Khao Khen Sub-district, Plai Phraya District, Krabi Province 81160 Tel : 075 656 598 Fax : 075 6569 597
5. Kanjanadit Palm Oil Co., Ltd.	KJD	195,000,000	1,950,000	75.00	No. 179/1 Tha U Thae Sub-district, Kanchanadit District, Suratthani Province 84160 Tel : 077 953 012, Fax : 077 953 012

Subsidiaries	Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (Direct / Indirect) (Percent)	Office Location
Renewable Power Plant Business					
Subsidiaries (Direct)					
6. Surachai (1997) Co., Ltd.	SU97	190,500,000	190,500	99.90	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
7. EA Renewable Holding Co., Ltd.	ERH	7,429,200,000	742,920,000	99.99	
8. EA Solar Nakornsawan Co., Ltd.	ESN	5,590,000,000	559,000,000	99.99	
9. Thepsathit Wind Farm Co., Ltd.	TWF	2,000,000	20,000	99.99	
10. Wind Nayangklak Co., Ltd.	WNYK	1,879,500,000	187,950,000	99.99	
11. Wind Progressive Co., Ltd.	WPGS	1,879,500,000	187,950,000	99.99	
12. Wind Tossaphum Co., Ltd.	WTSP	1,670,000,000	167,000,000	99.99	
Subsidiaries (Indirect)					
13. EA Solar Co., Ltd.	ESLO	550,000,000	Common Stock 4,480,000 Preferred Stock 1,020,000	Direct: 49.00 Indirect: 51.00	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
14. Surachai Solar (1997) Co, Ltd.	SUSO	179,500,000	179,500	99.99	
15. EA Solar Lampang Co., Ltd.	ESL	2,125,000,000	212,500,000	99.99	
16. EA Solar Phitsanulok Co., Ltd.	ESP	2,125,000,000	212,500,000	99.99	
17. EA Wind Hadkanghan 2 Co., Ltd.	EWHK 2	123,065,000	12,306,500	99.99	
18. EA Wind Hadkanghan 3 Co., Ltd.	EWHK 3	3,120,000,000	312,000,000	99.99	
19. Nayangklak Development Co., Ltd.	NYKD	939,000,000	93,900,000	99.99	
20. Nayangklak Wind Power Co., Ltd.	NWP	939,000,000	93,900,000	99.99	
21. Benjarat Development Co., Ltd.	BJRD	876,000,000	87,600,000	99.99	
22. Pongnok Development Co., Ltd.	PND	1,002,000,000	100,200,000	99.99	
23. Banchuan Development Co., Ltd.	BCD	1,669,000,000	166,900,000	99.99	
24. Subyai Wind Farm(1) Co., Ltd.	SWF	2,000,000	20,000	99.99	

Subsidiaries		Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (Direct / Indirect) (Percent)	Office Location
25.	Wind Khonkaen 1 Co., Ltd.	WKK1	1,000,000	100,000	99.99	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
26.	Wind Kalasin 1 Co., Ltd.	WKS1	1,000,000	100,000	99.99	
27.	Wind Kalasin 2 Co., Ltd.	WKS2	1,000,000	100,000	99.99	
28.	Wind Mahasarakham 1 Co., Ltd.	WMHK1	1,000,000	100,000	99.99	
29.	Wind Ubol Ratchathani 1 Co., Ltd.	WUBON1	1,000,000	100,000	99.99	
30.	Wind Amnatcharoen 1 Co., Ltd.	WAMR1	1,000,000	100,000	99.99	
Other Businesses						
Subsidiaries (Direct)						
31.	Energy Mahanakorn Co., Ltd.	EMN	200,000,000	20,000,000	Direct : 50.00 Indirect: 2.11	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
32.	Energy Solution Management Co., Ltd.	ESM	530,000,000	5,300,000	99.99	
33.	Emma Corporation Co., Ltd.	EMMA	100,000	1,000	50.00	
34.	Green Technology Research Co., Ltd.	GTR	112,000,000	11,200,000	99.99	
35.	Mine Mobility Research Co., Ltd.	MMR	440,000,000	44,000,000	99.99	
36.	Energy Beyond Research Co., Ltd.	EBR	20,000,000	2,000,000	99.99	
37.	EA Mobility Holding Co., Ltd.	EMH	3,348,470,000	334,847,000	99.99	
38.	Smart Waste Management Co., Ltd.	SWM	10,000,000	1,000,000	99.99	
39.	EA Waste Management Co., Ltd.	EWM	950,100,000	95,010,000	99.99	
40.	Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd.	BEV	175,000,000	17,500,000	Direct : 50.00 Indirect : 47.99	

Subsidiaries	Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (Direct / Indirect) (Percent)	Office Location
41. Amita Technologies Inc.	Amita Taiwan	3,500,000,000 / ¹	277,249,406	Direct : 62.53 Indirect : 8.67	No. 6, Chazhuan Road., Gueishan, Taoyuan County 33349, Taiwan Tel : +886-3-2631212 #133 Fax : +886-3-3200638 Website : www.amitatech.com
42. EA CON DAO (SG) PTE. LTD.	EA Con Dao	10,000 / ²	10,000	95.00	No. 8 MARINA BOULEVARD #05-02 MARINA BAY FINANCIAL CENTRE SINGAPORE (018981)
43. EA BVI Holding Limited	BVI Holding	500,000 / ³	50,000	100	Tortola Pier Park, Building 1 Second Floor, Wickhams Cay I, Road Town, Tortola, British Virgin Islands
Subsidiaries (Indirect)					
44. Amita Technology (Thailand) Co., Ltd.	Amita-TH	2,400,000,000	240,000,000	99.99	No. 89 AIA Capital Center Building, 16 th Floor, Din Dang Sub-District, Din Dang District, Bangkok 10400 Tel : +66 2248 2488-92, +66 2002 3667-9 Fax : +66 2248 2493
45. EV Now Co., Ltd.	EV Now	50,000,000	5,000,000	74.99	
46. E Smart Transport Co., Ltd.	EST	401,000,000	40,100,000	99.99	
47. Mine Mobility Corporation Co., Ltd.	MMC	550,000,000	55,000,000	99.99	
48. Absolute Assembly Co., Ltd.	AAB	1,500,000,000	150,000,000	54.99	
49. EA Mobility Rental Co., Ltd.	EMR	100,000	10,000	99.99	
50. EA Station Co., Ltd.	EAST	500,000	50,000	99.94	
51. Paypop Co., Ltd.	POP	100,000	10,000	99.97	

Subsidiaries	Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (Direct / Indirect) (Percent)	Office Location
52. Chaophraya River Line Co., Ltd.	CRL	65,000,000	650,000	99.99	No. 72 CAT Telecom Building, Wat Muang Alley (Charoenkrung), Bangrak Sub-District, Bangrak district, Bangkok 10500 Tel : 0 2105 4762
53. AMITA NEW TECHNOLOGY PTE. LTD.	Amita-SG	110,301,031 / ³	110,301,031	100	No.1 Robinson Road #17-00 AIA Tower Singapore (048542)
54. Sun Field Investments Co., Ltd.	Sun Field	10,000,000 / ³	10,000,000	100	Equity Trust Chambers, P.O. Box 3269, Apia, Samoa
55. EA (BVI) 1 Limited	BVI 1	8,230,000 / ³	823,000	100	Tortola Pier Park, Building 1
56. EA (BVI) 2 Limited	BVI 2	30,000 / ³	3,000	100	Second Floor, Wickhams Cay I, Road Town, Tortola, British Virgin Islands

Remark: /¹ Taiwan Dollar /² Singapore Dollar /³ United States Dollar

* The Company holds shares through direct and indirect subsidiaries. Details of Group's Shareholding Structure also appear in page 56-57

Subsidiaries	Abbrev.	Registered Capital (THB)	Number of Shares sold (share)	Shareholding ratio* (By the Group) (Percent)	Office location
Associates					
57. Wan Meng Automatic Precision Co., Ltd.	Wan Meng	100,000,000 / ¹	3,596,000	36.04	58-1,Alley 289, Lane 68, Ming Fu Rd. Sec. 3, Yangmay, Taoyuan, Taiwan
58. NEX Point Public Company Limited	NEX	1,897,833,514	1,674,452,510	40.01	No. 999/999 Moo 4, Bangchalong Sub-district, Bang Phli District, Samulprakra Province Tel : +66 2026 3599 Fax : +66 2116 4878
59. TF Tech Holding Co., Ltd.	TFTH	200,000,000	2,000,000	40.00	No. 1010 Shinawatra Tower 3, 12 th Floor, Vibhavadi Rangsit Road, Chatuchak Sub-district, Charuchak District, Bangkok 10900 Tel : +66 2513 8989 Fax : +66 2513 9060
60. CSBC Power Technology Co., Ltd.	CSBC	75,000,000	75,000,000	26.67	6F., No. 20, Sec. 3, Bade Road Songshan District. Taipei, Taiwan, ROC
Joint Venture					
61. Shenzhen Ateess Power Technology Co., Ltd.	Ateess Power	3,600,000 USD	The Company's investment amount is 1,387,500 USD	38.58	Room 203, 2 nd Floor, Building 5 Jiayu Industry Park, No. 28 Guangming, Xibianling, Shangwu Village, Shiyan Street, Baoan District, Shenzhen China
62. Ranong Clean 2021 Co., Ltd.	RCN	100,000,000	1,000,000	50.00	No. 87/142 Tha Mueang Road, Khao Niwet Sub-district, Mueang Ranong District, Ranong Province Tel : 089 814 8019
Remark: ¹ Taiwan Dollar ² Singapore Dollar ³ United States Dollar					

* The Company holds shares through direct and indirect subsidiaries. Details of Group's Shareholding Structure also appear in page 56-57

1.3.2 Parties with Conflict of Interest

- None -

1.3.3 Shareholders

The first 10 major shareholders as at December 30, 2021

Name of Shareholders	As at December 30, 2021	
	Number of shares	Shareholding Percentage
1. Group of “Ahunai”	1,622,040,430	43.4863
1.1 Mr. Somphote Ahunai	865,736,386	23.2101
1.2 Sotus & Faith#1 *	300,000,000	8.0429
1.3 Sotus & Faith#1 * (held under Custodian - UBS AG SINGAPORE BRANCH)	274,700,000	7.3646
1.4 Sotus & Faith#1 * (held under Custodian - MORGAN STANLEY)	66,000,000	1.7694
1.5 Sotus & Faith#2 * (held under Custodian - UBS AG SINGAPORE BRANCH)	2,770,000	0.0743
1.6 Mrs. Blanca Shulan Huang	24,983,607	0.6698
1.7 Mr. Somboon Ahunai	6,992,951	0.1875
1.8 Ms. Supaporn Ahunai	23,997,049	0.6434
1.9 Mr. Julin Ahunai	16,800,000	0.4504
1.10 Mrs. Wilai Ahunai	4,800,000	0.1287
1.11 Mr. Pholsith Ahunai	18,522,237	0.4966
1.12 Mr. Peeraphol Ahunai	16,738,200	0.4487
2. UBS AG SINGAPORE BRANCH (excluded shares held under 1.3, 1.5, and 5.2)	478,688,593	12.8335
3. Thai NVDR Co., Ltd.	241,441,478	6.4730
4. Group of “Chiannikulchai”	168,373,092	4.5140
4.1 Mrs. Mukda Boonsieng	153,040,243	4.1030
4.2 Mr. Wutthilerd Chiannikulchai	15,332,849	0.4111
5. Group of “Sapthaweekul”	144,013,109	3.8609
5.1 Mr. Amorn Sapthaweekul	72,968,316	1.9563
5.2 Mr. Amorn Sapthaweekul (held under Custodian - UBS AG SINGAPORE BRANCH)	17,000,000	0.4558
5.3 Mr. Amorn Sapthaweekul (held under Custodian - LGT BANK (SINGAPORE) LTD.)	10,000,000	0.2681
5.4 Ms. Wassa Rimchala	25,823,087	0.6923
5.5 Mr. Anat Sapthaweekul	18,221,706	0.4885
6. Mr. Luchai Pukan-Anan	102,348,900	2.7439

Name of Shareholders	As at December 30, 2021	
	Number of shares	Shareholding Percentage
7. Group of “Noparumpa”	69,342,100	1.8590
7.1 Ms. Ploysongsang Noparumpa	64,069,700	1.7177
7.2 Mr. Tim Noparumpa	5,272,400	0.1414
8. SOUTH EAST ASIA UK (TYPE C) NOMINEES LIMITED	65,764,486	1.7631
9. STATE STREET EUROPE LIMITED	39,646,225	1.0629
10.Mr. Somkiat Thanatcharoenkul	38,721,900	1.0381
11.Other shareholders	759,619,687	20.3651
Total shares	3,730,000,000	100.0000
Total shareholders	25,181 persons	

Remarks : * Please refer to “Controlling power of the Company, changes in shareholding structure and the management,”

Controlling power of the Company, changes in shareholding structure and the management

Shareholder Structure

Since the Company has established, Mr. Somphote Ahunai is the major shareholder. Shareholding as of 30 December 2021 is 40.4613 percent of total registered shares (exclude the shares held by spouse). Mr. Somphote Ahunai disposed 643.47 million shares (17.1026%) in EA to Sotus & Faith #1 Limited and Sotus & Faith #2 Limited (“Sotus”) to establish the trust and reported the change of securities holding to the Securities and Exchange Commission. Since Mr. Somphote Ahunai is entitled to vote together with another two members of Protector Committee, therefore, in order to have an anonymous resolution, Mr. Somphote Ahunai will be entitled to vote to oppose the two members from the Protector Committee only. However, Mr. Somphote Ahunai cannot control the two members of the Protector Committee in order to force them to vote in favor of him.

However, after the consideration by the Securities and Exchange Commission, Sotus is the ultimate beneficiary owner; Mr. Somphote Ahunai must count in the said shares to the shares in EA of which he holds from the beginning until the disposal to Sotus. This includes the consideration on the duty to report the acquisition or disposal of securities or the duty to prepare the tender offer pursuant to the Security and Stock Exchange Act B.E. 2535 as well.

The Management

There is no significant change in the management of the Company and the Company Group. In other word, since the establishment of the Company until present, Mr. Somphote Ahunai still holds the positions in the Company as follows:

- | | |
|--|--|
| 1) An authorized signatory director | 3) Chairman of the Executive Committee |
| 2) Vice Chairman of the Board of Directors | 4) Chief Executive Officer |

1.4 Registered Capital and Paid-up Capital

Energy Absolute Public Company Limited (EA) is a listed company on the Stock Exchange of Thailand with a total registered capital of THB 373,000,000 as at December 31, 2021, fully paid up and divided into a total of 3,730,000,000 ordinary shares with a par value of THB 0.10 per share.

In addition, the Company registered the company's registered capital from the existing registered capital of THB 373,000,000 to new registered capital of THB 402,000,000 with the Department of Business Development, Ministry of Commerce on February 9, 2022.

1.5 Issuance of Other Securities

1.5.1 Convertible Securities

- None -

1.5.2 Debt Securities

Debentures

The Annual General Meeting of Shareholders approved the offering and issuance of the debentures as details below:

- Annual General Meeting of Shareholders dated April 25, 2019 approved the offering and issuance of the debentures up to Baht 15,000 million in order to be used as working capital and invest in projects of the Company.
- Annual General Meeting of Shareholders dated April 23, 2020 approved the offering and issuance of the debentures up to Baht 15,000 million in order to invest in projects of the Company and refinance the existing debentures.

As at December 31, 2021, the Company offered and issued debentures of 4 times in the total of 9 tranches, which the outstanding debenture value totals up to amount of Baht 12,200 million as details below:

1. Debentures No. 1/2019 unsubordinated and unsecured debentures in registered name form with debenture holder representative.

Symbol	Issuance Date	Maturity Date	Tenor	Amount (THB million)	Annual coupon rate (%) (payment frequency)	Terms
EA227A	July 11, 2019	July 11, 2022	3 years	1,000	2.61 (Semi-annually)	-
EA297A	July 11, 2019	July 11, 2029	10 years	2,000	3.61 (Semi-annually)	

2. Debentures No. 2/2019 unsubordinated and unsecured debentures in registered name form with debenture holder representative.

Symbol	Issuance Date	Maturity Date	Tenor	Amount (THB million)	Annual coupon rate (%) (payment frequency)	Terms
EA228A	August 15, 2019	August 15, 2022	3 years	500	2.41 (Semi-annually)	-
EA248A	August 15, 2019	August 15, 2024	5 years	1,500	3.11 (Semi-annually)	-
EA298A	August 15, 2019	August 15, 2029	10 years	2,000	3.58 (Semi-annually)	-

3. Debentures No. 3/2019 unsubordinated and unsecured debentures in registered name form without debenture holder representative.

Symbol	Issuance Date	Maturity Date	Tenor	Amount (THB million)	Annual coupon rate (%) (payment frequency)	Terms
EA260A	October 16, 2019	October 16, 2026	7 years	3,000	2.744 (Semi-annually)	-

4. Debentures No. 1/2020 unsubordinated and unsecured debentures in registered name form with debenture holder representative.

Symbol	Issuance Date	Maturity Date	Tenor	Amount (THB million)	Annual coupon rate (%) (payment frequency)	Terms
EA227B	July 10, 2020	July 10, 2022	2 years	500	2.62 (Semi-annually)	-
EA237A	July 10, 2020	July 10, 2023	3 years	1,000	3.94 (Semi-annually)	-
EA257A	July 10, 2020	July 10, 2025	5 years	700	3.30 (Semi-annually)	-

1.6 Dividend Policy

Dividend Policy of the Company

The Company has a policy to pay the annual dividends to shareholders at minimum of 30 percent of net profit after deduction of all income tax and reserves as specified in the articles of association and by the laws. Payment of dividends is subject to the cash flow, investment plans, conditions and requirements of company's contracts including legal limitations and other appropriateness in the future. The Board of Directors may consider paying the annual dividends with approval from the Annual General Meeting of Shareholders (AGM), except interim dividend payment which the Board of Directors has the authority to approve before reporting the interim dividend to the shareholders at the next shareholders' meeting.

Dividend Payment (THB/share) for the year 2018 to year 2020

Dividend Payment (THB/share)	year 2018	year 2019	year 2020
Net Profit per share (THB : share)	0.93	1.05	0.90
Dividend rate per share (THB : ordinary share)	0.25	0.30	0.30
Dividend Payout Ratio per Net Profit (%)	26.75	28.63	33.32

Remark : Separate Financial Statements

Subsidiaries' Dividend Policy

The dividend payment of subsidiaries is according to the articles of association and as specified by laws. Regarding to the subsidiaries established for conducting solar power plant business, the consideration must base on conditions of the loan contract and debt service coverage ratio (DSCR).



Risk Management

2. Risk Management

2.1 Risk Management Policy and Plan

Energy Absolute Public Company Limited (“the Company”) recognizes the importance of risk management as part of good corporate governance and a significant foundation to bring the Company toward the expected achievements of its objectives. Proper risk identification and management will support good decision making and enable the Company to perceive opportunities and be aware of any possible impacts on its operation.

The Company has put in place organization risk management covering risk identification, risk assessment, determination of risk management plan, as well as monitoring and management of key risks in overall to ensure efficiency and effectiveness of its risk management. The Risk Management Committee has prepared risk management handbook so that the Risk Management Working Group will understand the risk assessment guidelines and perform risk monitoring, status report, and consistent review of the adequacy and efficiency of risk management measures to allow for the Company’s timely and appropriate risk management.

The Risk Management Working Group shall report the risk status to the Risk Management Committee on a regular basis. In case of an incident that has material impact on the Company’s operation, the Risk Management Working Group shall immediately report such incident to top executives and Chairman of the Risk Management Committee. Meanwhile, risk management culture shall also be fostered constantly among the management and the employees.

2.2 Risk Factors

The Company recognizes and gives importance to management of risks in all perspectives under changing circumstances from both internal and external factors which may affect its business operation. This aims to build confidence among its stakeholders, and enable smooth and continuous operation as planned, and with highest efficiency according to the objective of being a leader in alternative energy business by using the modern technology and environmentally friendly for the best benefit of consumers, shareholders, partners, and fairness to employees. Major risks in the year in subject which may affect business operation of the Company and its group of companies can be divided into 7 areas as follows:

1. Strategic Risk

Risk from dependence on key executives

The Company’s energy business operation has been developed and grown under the management of major shareholders and key executives, namely Mr.Somphote Ahunai, Mr.Amorn Saphaweekul, and Mr.Wutthilerd Chiannilkulchai, who are authorized directors to sign on behalf of the Company, executive directors, and top executives. The three executives above are competent with in-depth knowledge, expertise, and experience in terms of both daily business operation and execution of projects according to the Company’s new business expansion plan towards energy industry.

However, realizing on the risk of dependence on the key executives, the Company’s management structure has been adjusted to be more systematic and professional by prioritizing and decentralizing certain parts of daily management tasks to various business units as well as allocating duties and responsibilities of the key executives explicitly to other executives and employees of each business unit. The Company has properly set the internal control, information storage and database

systems. Regular sharing and exchange of necessary and relevant news and information between executives and employees is also promoted. In addition, the Nomination Committee has given consent to the succession planning policy to strengthen and get the Group well-prepared. Also, the Executive Trainee Program has been launched to attract personnel with high potential to join the Group to succeed key personnel in major projects as new generation executives, which will help to drive the Group's business expansion both domestic and overseas.

Moreover, the Board of Directors has approved the establishment of Employee Trust to seek and provide additional long-term benefits to talented employees to motivate and retain them to work for the Group. This project is also aimed to inspire new hires for the Group in the future.

Risk from competition in the industries

Crude palm oil (CPO) manufacturing and distribution industry

The CPO manufacturing and distribution industry has encountered fierce competition for the past several years. Since palm is a widely grown agricultural produce, there are a large number of players in the market, hence CPO production capacity in excess of market demand. The Company has thus allocated the use of CPO by having part of the output from its plant to feed as raw material for its biodiesel plant and phase change material (PCM) plant. CPO storage tank is also under construction planning, aiming to store CPO during low market price conditions and sell it when market price is on the rise for higher profitability. Moreover, the government's B10 diesel promotion policy implemented in 2020 continual to 2021 has helped absorb CPO supply of more than 2.3 million tons per year, representing two-thirds of the country's CPO production output. The remaining one-third is to fulfill consumption (Source: Energy News Center).

Biodiesel manufacturing and distribution industry

Biodiesel manufacturing and distribution industry competition tends to intensify due to expansion of production capacity of existing manufacturers and market entry of newcomers. As such, the Company has to bear higher competition risk in the domestic market, such as offering discount on biodiesel prices announced by the government, etc. However, with awareness of the rising trend of competition, the Company has improved and developed its manufacturing process to cut cost per unit while maintaining product quality to be in line with the standards to ensure that the Company still has competitive advantage over its competitors, especially amid high competition situation, in parallel to product development to add value and differentiate its products from those of competitors until leads to achievement of the phase change material (PCM) development.

Renewable energy manufacturing and distribution industry

The Company recognized the importance of solar panel efficiency so the Company has changed all solar panels at the Solar Power Plant Project in Takhli district, Nakhon Sawan province, and more than half of solar panels at the Solar Power Plant Project in Mueang Lampang district, Lampang province, leading to more than 10% increase in efficiency compared to that of former solar panels. In addition, Thailand has been facing PM 2.5 problem which causes solar panels to get dirty quickly and prevents full light absorption. Therefore, the Company has applied cleaning robot for solar panels which ensures full light absorption and increases productivity compared to the traditional cleaning method used in Thailand. As a result, the Company is able to steadily maintain its revenue from solar power generation business.

The Company's renewable power generation and distribution business has currently been granted tariff adder on renewable energy for a period of 10 years, starting from the commercial operation date (COD). The tariff adder for the solar power plant will gradually expire from 2022 until 2026, while that for the wind power plant will expire from 2027 until 2029, hence decrease in revenues from these projects in the future. The Company is thus conducting study and seeking investment opportunity for new power generation and distribution projects in order to earn more income in the future.

Electric Vehicle Manufacturing Industry:

With the government's focus on the National Strategy on Eco-friendly Development and Growth (data from the Office of the National Economics and Social Development Council) particularly when Thailand is facing PM 2.5 problem, demand for electric vehicles has been on the rise. Despite its popularity in many foreign countries, electronic vehicle technology is rather new to Thailand. Manufacturers need to be well-prepared in several technological aspects, e.g., body, battery, electric charger, etc. Nonetheless, in 2021, the Group constructed an assembly plant for electric buses which are 100% driven by electricity with a production capacity of 3,000 units per year. The electric bus assembly plant has started its commercial operation and has so far assembled and delivered more than one hundred electric buses. The Group is thus considered well positioned for electric vehicle industry. Moreover, the Group has constructed a factory to manufacture battery, which is a key component of electric vehicle, and has already started commercial operation. The Group also has strengths over its competitors as its business covers the entire ecosystem, from manufacturing of electric vehicles, batteries, electric charging stations to after-sale services as well as strong business partnership.

(1) Small Electric Car

The Group launched electric cars under "MINE Mobility" brand, Model SPA1 in 2019. However, due to the COVID-19 pandemic, target customers like public service vehicles or taxis have been affected by the change in travel behavior of passengers, e.g., working more from home and less travel to various places, or more use of private cars to avoid the COVID-19 spread. The Group is confident that the situation will be eased when vaccines are available to the public. At present, the Company focuses mainly on the production and development of electric bus due to small number of competitors. Additional study and research has also been conducted on other types of commercial electric vehicles to enlarge the target groups of electric vehicle market in the future.

(2) Electric Ferry

Competition in the electric ferry industry is not so high. The business operation is under supervision of a government agency, i.e., Marine Department. The entrepreneur is required to strictly comply with the rules and regulations concerning its operation, hence difficult for new market entrants. Moreover, the prevailing contagion has necessitated people to live the New Normal way of life. This has hit public transport business as some people are still concerned about travelling to crowded areas. However, for the Company group's electric ferry, preventive measures are maintained including social distancing, passenger screening, provision of alcohol gel at service points in the ferry, seating arrangement with one empty seat in between each passenger, and installation of air sterilizers in the ferry to strengthen the passengers' confidence in the service.

(3) Electric Bus

In 2021, the Group completed construction an assembly plant for electric buses which are 100% driven by electricity with a production capacity of 3,000 units per year and supports change of production lines to serve the purpose of other vehicles such as coach, truck and vehicles used in other businesses. The Company group is a new operator in the bus assembly business. In order to prevent knowledge base and construction risks, the Company invests in the plant in collaboration with the alliances which are plant design expert and world's leading bus assembly operator to ensure optimum efficiency of the plant and assembly line in accordance with the international standards. For the COVID-19 has remained a risk factor which affects people's travel behavior.

Energy storage or lithium-ion battery industry

It is the industry where competition is based on technology aimed at developing the batteries for longer useful life at lower cost and with high electricity storage capacity that can respond to extracting electric power for use in a short period of time and in diverse industries with high safety. High competition is evident in ongoing development for new models of better quality. The Company has collaborated with various sectors to get ready for such endeavor. Although the COVID-19 crisis impact on technicians from supplier to enter into the country but the Company still have teams with qualifications and potential relates to technology to operate continuously.

Electric Vehicle Charging Station industry

In 2021, several service providers from both public and private sectors introduced their partners and actively joined electric charging station market. Development of infrastructure and ecosystem has been accelerated to accommodate growth of electric vehicle market. Foreign automobile companies, in particular, have expanded to have electric charging stations in the premises of their service centers and showrooms, aiming to push up continuous growth of electric vehicle market in Thailand, hence more options for users of electric charging stations. Moreover, the Company has made a joint venture investment with manufacturers of charging equipment to control technology of the equipment and costs of equipment manufacturing and installation to ensure lower costs than its competitors, as well as speeded up investment and installation of the equipment at charging stations in operation across the country, with focus on Bangkok and Greater Bangkok to dominate prime locations ahead of its competitors. Moreover, the Company has entered into cooperation agreements with electric car manufacturers to offer electric charging service for electric car buyers in order to build connections and exchange important technologies and technical information as a way to foster relationship. This will bring about smooth business expansion and it will be difficult for other competitors to enter the market.

Risk from implementation of new business projects

As new investment projects require advanced technology and high investment amount, and in which the Group has not so much experience, the project implementation must be carried out with prudence in investment planning to align with the business framework of the Company and its Group in both short and long terms, and with action plans worked out in the same direction. Details can be summarized as below:

- Create business Ecosystem in which various business sections are inter-related and support one another to drive integrated business success. For instance, the Company aims to grow clean energy business so it has invested in

solar and wind power plants, energy storage business (batteries), and charging station for electric vehicles and electric vehicle business.

- Establish an investment structure that is appropriate for nature of business and business structure of each project. The Company has a policy to focus on investment at a significant level to allow for control of major parts of the operation (not less than 50% unless in case otherwise as deemed reasonable) and collaborate with strong allies in the country and those overseas. Collaboration may be in the form of joint venture with business partners or self-investment but partnering with allies, especially in investment in lithium-ion battery electric power storage, which is a strategic investment conducive to future growth.
- Using a strategy of gradual implementation of investment projects by studying and checking related factual information (Due Diligence) and preparing a feasibility test of investment in various scenarios. If the project is found worth investment, the Company will first start with a small size of investment until there is more clarity and risks can be controlled and managed, the Company will then gradually expand investment to meet the target set forth. This investment strategy will be applied to new project of the Company.
- During project implementation, a working team will be set up which consists of the main business units will be in charge in the project to work together with the strategy development and investment planning department under close monitoring and supervision from Chief Executive Officer and Deputy Chief Executive Officer with support from relevant work units. The working team will hold meetings regularly and report the project progress to the Executive Committee at least once a month, and also report the risk issues to the Risk Management. Hence, control and monitoring mechanism is in place according to the strategic plan.

Risk from Investment in New Overseas Projects

The Company has planned to expand business to align with its commitment to growing business with determination, consistency and sustainability. However, despite the attractiveness of overseas business investment and operation, there are risks in association with such endeavors, including legal and regulatory risks, economic and political instability, and different and unfamiliar national policies and processes of application for relevant licenses. This might delay the project implementation or failure to achieve the targets. The Company has taken a risk management measure by setting prudent investment criteria and guidelines for supervising and monitoring development of new projects through due diligence. In addition, the Company will engage advisors who have specialized expertise such as legal advisors, accounting advisors, etc., to work closely with its qualified teams to ensure that the Company will be successful in developing its projects and/or business acquisitions as planned. Besides, the Company also has a policy to seek business allies with potential, experience, and expertise in conducting business in a particular country to enhance investment capability and mitigate possible operational risk.

2. Operational Risk

Risk associated with human resources management

The Company has expanded investment in various businesses to ensure consistent growth and for value-add to its businesses. This necessitates it to prepare its human resource to accommodate the business growth in line with future personnel requirement which focuses on technology and innovation leadership. The Company gives priority to development of skills,

knowledge and competence to keep pace with business demand and growth as well as global and technological changes. Human resource management plan which fails to align with the business expansion plan may affect the Company's competitiveness and operational performance. For human resource risk management, the Company has assessed risks and come out with medium risk in all aspects, i.e. personnel recruitment, turnover rate and potentiality development.

Personnel Recruitment: the Company is well-prepared in terms of human resources and risk of shortage of personnel with knowledge and skills related to the business to accommodate business expansion. To support its business growth, the Company has put in place EA Group Human Resource Management Policy to enable sharing of human resources within the Group with maximum efficiency. The Company has also speeded up building of network for manpower development and enhancement of technological expertise to create concrete output and extended its collaboration with the government and private sectors as well as leading organizations, both at home and abroad. The Company signed the Memorandum of Understanding (MOU) with the National Science Technology and Innovation Policy Office (STI) on networking for manpower development and expertise on modern automotive technology and national power storage system, and the MOU with educational institutions and entrepreneurs in the Eastern Economic Corridor (EEC). The Company has also served as a source of learning and manpower development by providing short-term training courses which focus on practical outcome according to the Company's demand and supports Thailand's National Strategy 4.0 and manpower development for the EEC.

Turnover Rate: The Company has put in place the Succession Policy and Plan for key positions to cushion turnover risk, and implemented the Executive Program of which three classes were completed and opening of a new class is currently underway. It has also employed career management system to give opportunities to talented and interested employees to work for projects or work units within the EA Group and grow together with the Company.

Development of Personnel Potential: The Company has ensured knowledge management, prepared technology transfer plan, from both Thai and expatriate experts (expats), and provided training for the employees to enable self-dependence at an appropriate level. Knowledge transfer from Thai experts and expats also encourages creativity in the organization and enhances the ability to attract and retain talented personnel. The Company has further expanded knowledge and expertise of its personnel through research and technological development for the Group's new product initiatives, product quality improvement and greater competitiveness in the long run and for sustainability.

In addition, the Company has adopted Knowledge Management (KM) as a tool for organization knowledge exchange. The objective is to gather and systematize body of knowledge to enable the staff members' access to core business knowledge for self-development toward competency and performance efficiency, which will contribute to maximum competitiveness of the organization. The Company has also promoted and created environment for knowledge exchange by arranging activities for staff members who have specialized knowledge to share their expertise and experience with others so that such knowledge learned from direct experiences can be adapted in the work or for improvement. This would help save time and resources required in general learning process.

The Company has encouraged new work challenges through "EA Inside EA Program," a creative work and innovation competition which aims at multi-faceted improvement, such as faster delivery, improved quality, higher productivity, transparency and examinability, and sustainability. Emphasis has been given on development of employee potential to

suit the organization needs with the use of systematic and continuous personnel development guidelines involving all staff members organization-wide according to the 10:20:70 learning principle. The 10% represents learning through training and self-learning. The Company has made available various learning channels to suit staff members' learning platform and approach as well as applied digital technology and system for personnel development during the COVID-19 pandemic. The 20% represents learning from supervisors through advice and coaching as well as learning from knowledge exchange with others. Lastly, the 70% represents on-the-job learning and application of knowledge and skills learned from exchange with others into the work in charge.

Risk of operational disruption

Solar and wind power plants may not be able to be operated during a natural disaster such as in cases of strong wind, flash flood, lightning, etc. These incidents may cause damage of machinery and equipment. The current COVID-19 pandemic may affect the travel of local and foreign experts for repair and maintenance of the solar power plant and the wind power plant. However, the Company has put in place a business continuity plan, and prepared spare parts and tools for repair and maintenance to reduce potential risk of machinery and equipment impairment and for prompt recovery to normalcy. Furthermore, the Company Group has applied for business interruption insurance for compensate when an unexpected situation occurs and in case that the project cannot operate. For the solar power plant, there is power output guarantee from the manufacturers throughout 25 years of useful life, and product warranty of 10 years. Also, the Company has selected inverters with production technology from a renowned manufacturer well accepted overseas and with product warranty of 5 years. As regards wind power plant, the Company has engaged the manufacturers of wind turbines to specifically provide wind turbine generator operation and maintenance service in conjunction with using wind turbines from a reputable manufacturer with 5-year product warranty. This includes systematic and stringent management of the COVID-19 situation to prevent impacts on the operation of each power plant.

For other plants, adequate tools and equipment are put in place to support such cases as fire, flood and disaster. All business units will also have practice drills every year to understand the procedures and be able to timely deal with emergency cases.

3. Financial Risk

Risk associated with debt service capability

The Company has in place investment and business expansion plan both domestically and overseas, which requires a large amount of funds. The Group's financial source mainly comes from financial institution loans, hence liability to comply with agreements and conditions in the loan agreements throughout the contractual period. The Company has systematically managed and worked out a long-term financial plan, alongside monitoring and management of liquidity. Viewing its quarterly performance so far, there have been consistent cash flows from operation as projected with an appropriate level of debt to equity ratio. According to TRIS Rating Co., Ltd. (TRIS) in 2021, the Company's credit rating has been maintained at "A". This reflects the Company's stronger credibility with continued cash flow growth, which can help build confidence among creditors, trade partners, and other stakeholders, and ensure that the Company has good cash flow position and stable financial status for payment of principal and interest debts as scheduled. At present, the Group has

good debt payment record without any debt default, and considerable financial potential to support its efficient expansion of investment according to its master plan.

Risk of Investment returns lower than projected

The Company and its Group's business expansion is project based, depending on investment in new projects. This will involve diverse nature of projects, investment risks and investment returns. Certain necessary tools and equipment need to be imported, such as solar panels, wind turbines, and electric vehicle chargers, etc. Each project has to bear respective risks of changes in key factors used in investment assumptions like indefinite costs of projects due to uncertain prices of imported equipment as a result of foreign exchange volatility, demand and supply fluctuations, cost overrun, and so on. The Company has prevented such risks by prudently and comprehensively studying each project before making investment and working with as well as under advice from specialized experts. In addition, it has entered into tool and equipment supply agreements in advance to mitigate risk of changes in exchange rate. It also has a policy to manage loan interest rate risk by employing such a financial instrument as interest rate swap to convert floating interest rates to fixed rates.

Risk associated with funding for new businesses

Project development requires high investment which the Company makes investment through each newly established subsidiary for each project with formulation of shareholding and investment structures as deemed appropriate to prepare for funding from financial institutions. However, the Company's projects always new in Southeast Asia so it may be considered high risk for financial institutions. In some cases, the financial institution might reject the projects, or set strict loan conditions that may affect the project operation.

However, in view of the Company's business operation with consistent growth, the Company has gained confidence from financial institutions and received a rating of "A" by TRIS Rating including gained confidence from financial institutions in approving long-term loans and also success in issuing long-term loans to investors. Besides, with its good debt payment record without any debt default, the Company is confident that it can negotiate with financial institutions and institutional investors to continuously provide financial support for the Company's future projects.

Risk of change in electricity offtake rate

The electricity offtake rate under the Power Purchase Agreement with the Electricity Generating Authority of Thailand and the Provincial Electricity Authority, besides the adder, consists of the base tariff and Ft rate. The Electricity Regulatory Commission (ERC) may consider and announce adjustment of the base tariff in line with the circumstances and related factors including cost of investment in the construction of power plant and transmission/distribution systems for the Ft charge ERC calculates and announces every 4 months with reference to uncontrollable fuel costs in production of electricity, i.e. fuel prices, inflation, foreign exchange rates. Therefore, the Company Group's revenues from sales of electricity will vary to Base Tariff and Ft change. However, there have been so far very few adjustments of the base tariff. Even though the Ft rate adjusts every 4 months but the change rate does not significant impact on the overall electricity sales, the Company should only be slightly affected and in some cases is the positive Impact or some are negative on its revenue.

4. Compliance Risk

Risk from changes in government policies

Biodiesel business policy

In response to the government policy to support diesel oil price for 4 months (December 2021-March 2022), the blending proportion of biodiesel in diesel B7 and diesel B20 has been changed to 7% according to the Notification of the Department of Energy Business regarding Specification of Appearance and Quality of Diesel Oil No. 7, B.E. 2564 (2021). This has resulted of biodiesel market, which is an uncontrollable external factor for the Company.

Policy on renewable power plant business

Even though the country's master plan on alternative energy development specifies priority and promotion of proportionate use of alternative energy or renewable energy to reduce environmental impact and increase dependence on domestic energy source in place of import. Therefore, the Company has focused on expanding business to related industries such as electric power storage, electric vehicles, electric charging station, etc., and explored opportunities of expanding its investment to neighboring countries and beyond.

Electric vehicle and battery business policy

Despite the public sector's business stimulation through investment promotion for electric vehicle (EV) operators, no clear policy or action plan have yet been put in place to encourage or boost domestic demand for electric cars. This is different from other countries where there are support measures including tax reduction or subsidy for EV buyers, etc. As a result, the development of EV and related industries in Thailand has been at a gradual pace as evidenced by new car registration statistics classified by fuel type. For Battery electric vehicle market recorded a total number of 1,898 units in 2021 and 1,290 units in 2020 (data from the Automotive Intelligence Unit, Thailand Automotive Institute). However, the Company has obtained support on import tariff for its electric bus assembly plant in the duty-free zone in which projects licensed to operate are required to use local content of more than 40%. As the Group supports use of local parts especially such key part as lithium-ion battery produced by its local plant, the Group has enjoyed a cost advantage and can well compete with newcomers in the electric vehicle market in the future. However, with its strong belief that electric vehicle business will replace the existing automotive business, the Company has stimulated market demand and prepared for future EV business operation by establishing Energy Mahanakhon Co., Ltd. under the "EA Anywhere" tagline to operate the installation of EV charging stations with the objective to build consumer confidence in buying electric cars. The Company will also expand channels for use of lithium-ion battery from electric cars, which is the major market, to electric bus and electric ferry as well as plan to add overseas distribution channels.

Risk related to compliance with relevant laws and regulations

The Company engages in diverse types of businesses such as biodiesel, renewable energy production and distribution, electric vehicle and related businesses, etc. Each business is governed by specific laws, rules and regulations. Any changes in these laws and regulations will have impacts on the Company's business operation. Violation of the rules, regulations, or requirements and relevant laws may also impair the performance and reputation of the Company. The Company is well aware of and gives importance to keeping abreast of new laws, rules and regulations. Its rigorous compliance is assured through adoption of international standard systems, such as ISO 9001, RSPO, ISO 14001 and ISO 45001, etc. In addition,

the Company has in place two key work units, namely ISO Department and Licensing and Investment Promotion Department in charge of the control and monitoring of compliance with the related rules, regulations, laws and requirements according to the delegated authority and responsibilities. The Internal Audit Department is also in place to perform the follow-up and examination to ensure operational consistency and prevent possible impacts on the business operation. Information is disseminated organization-wide to create understanding and awareness of the impacts and actions to be taken. This will help support strict regulatory compliance of the management and employees as well as contractors and mitigate risks or minimize impacts on the organization.

5. Business Operation Risk

Risk from dependence on large customers

The Company is a producer and distributor of biodiesel (B100) for use as fuel. It also produces and distributes purified glycerin and by-products. In the sale of biodiesel, the Company has relied on 7 large customers under sales agreements. A sale to large oil distributors in Thailand is an advantage to the Company as they are financially reliable. Nonetheless, the sale proportion may be adjusted downward in line with the demand in each period.

Moreover, the Company believes that likelihood of losing major customers is minimal as the sales are carried out under sales agreements each with contractual term from 3 months to a maximum of 3 years. Discount on biodiesel price announced by the government will also offered for the next agreement to be executed, which will help ensure consistent renewal of the agreement. Furthermore, the government stipulates that large fuel oil traders or distributors pursuant to Section 7 of Fuel Trade Act B.E. 2543 (Fuel Trade Act B.E. 2543: A fuel trader under Section 7 refers to any person who is a fuel trader having annual trade volume for each type or for all types together of fuel from 100,000 metric tons or approximately 120 million liters upward) must use biodiesel (B100) as a mixture in high-speed diesel to be distributed. Thus, demand for biodiesel (B100) should grow in line with the increase in automobiles that consume high speed diesel and in the mixture proportion of biodiesel in diesel oil.

Besides the production efficiency improvement, the Company recognizes that good customer relationship management leads to satisfaction and lasting relations between customers and the company, especially, in enhancing the probability of renewing long-term contracts with those nearing expires. The Company therefore seeks for feedback through the customer satisfaction survey every year, with elements focusing on product or service and deliver that meet customers' needs, behaving in an appropriate manner, etc. The outcomes reflect customers' satisfaction and expectations to the Company and also indicate how to develop work process to address even more needs of old and new customers. In 2021, the overall customers of biodiesel business are indeed satisfied with its operations at the excellent level.

Risk associated with raw material procurement and price fluctuations

Main raw materials for the Company's biodiesel production are crude palm oil (CPO), stearin, and refined bleached and deodorized palm oil (RBD palm oil) which are subject to supply and price volatility. For example, they may be affected by drought or flood, trade protectionism, and demand in overseas markets, etc. The government has given priority to maintaining the levels of palm oil prices and palm oil reserve in the stock to ensure adequacy in line with demand and supply situation in the country.

In 2021, crude palm oil price at year end (average of Baht 46.76 per kilogram in December) moved up sharply from that in the middle of the year (average of Baht 33.00 per kilogram in June) (*data from Agricultural Extension Group 1, Department of Internal Trade, Ministry of Commerce*) due to lower output than projected.

At present, the Company has made each raw material purchase and agreed on the prices based on the respective agreement. The raw materials are purchased from edible oil refineries and palm oil crushing mills who procure such raw materials for the Company. By this method, there may be risk incurred if these producers and suppliers are unable to produce or supply the raw materials to the Company within the specified time and under the set conditions. Moreover, if they decide to produce biodiesel and stop supplying the raw materials to the Company, the Company's business operation may be impacted. However, in such case, it may help lessen risk from loss on stockpiling of high-priced raw materials.

As such, the Company has prepared to prevent and relieve the impact from such risk by contacting and maintaining good relationship with raw material producers and suppliers and also has a policy in place to diversify the procurement sources of raw materials among producers in various regions of the country. Moreover, the Company has invested in two potential crude palm oil refineries to reduce the risk from raw materials shortage for RBD Palm Oil and Stearine. Furthermore, the Company will purchase from large vegetable oil factories in the central and eastern regions to prevent risk in case some regions may experience seasonal disruption or unprecedented incidents or disasters that might hinder their production and lead to shortage of supply.

6. Social Risk

Human Rights Risk

The Company recognizes the importance of respect for and protection of human rights and has included the EA Human Rights Policy, EA Human Rights Commitment, and business ethics, etc. in the Company's handbook and announcement which has been made to all staff members via the Company's website, email notification as well as employee orientation. It is also a mandatory course for all staff members to understand and be aware of the fundamental rights and freedom of all human beings. This will help reduce risk from violation of human rights in the business operation.

Risk from Operation that Impact to the Community, Society and Environment

The Company gives importance to the environmental management system (ISO 14001 : 2015) to ensure sustainable business operation alongside the community, the society and the environment, and focuses on preventing pollution which would affect the nearby community, including air, water and industrial waste pollution, as well as the climate change and water shortage. Therefore, the Company has set up ISO Working Group to take charge of the quality, safety and environmental management. Guidelines for operation and monitoring of environmental management, both inside and outside the plant, have been in place to ensure that the Company's operation has neither caused negative impact nor damage to community environment and resources, and is based on the 3R concept, i.e. Reuse, Reduce and Recycle, which helps reduce manufacturing waste, waste material emission and waste disposal expense. Various projects have also been implemented such as installation of solar rooftop, less use of liquefied petroleum gas (LPG) and control of electricity use in the buildings, etc., aiming to reduce greenhouse gas emissions. According to the audit result of ISO certification agency, the Company has complied with the standards, laws and regulations of relevant management standards without any impact or damage to the environment and resources of the community.

7. Emerging Risk

Technology and Innovation Risk

The Company's consistent business growth and expansion since 2017 has been attributable to its strength in the technology and innovation areas. Its long-term operational plan is to utilize energy storage technologies to bring energy security and to uplift use of eco-friendly renewable energy. The Company is aware of new risks that may arise from new technological inventions to replace the existing technologies which the Company is now investing in, or from the fact that power sale/purchase can freely be undertaken at both local and international levels and at low prices, which may lead to possible changes in the growth of electricity power production and storage. Possible changes in various forms have prompted the Company to make efforts in strengthening its business and income base, and continuously expand the market to the entire energy storage industry, electric vehicle industry and other related industries in parallel to exploring new investment opportunities along with human resource development and advanced technological study and development.

In addition, the Company recognizes that adoption of new technologies and innovations in the operation processes is significant and clearly beneficial in a long term, as well as can shorten operation time and save costs. The Company has thus launched projects to support invention and innovation development to promote self-learning among the employees and stimulate their creativity in adopting innovations for performance development and improvement.

Cybersecurity and Data Security Risk

The COVID-19 pandemic has drastically changed the way businesses operate and how employees perform their work, from working at the office to working anywhere or working from home, hence possible cybersecurity and data safety risk. The Company has thus worked out measures to prevent and reduce such risk to ensure continuity in business operation by providing the employees with cybersecurity training to strengthen their knowledge and understanding as well as increase their caution on utilization of work systems and business information. Information technology disaster recovery plan is also made available on a regular basis to ensure ongoing business operation of the Company in case of emergency.

The occurrence of deadly epidemics Risk

The occurrence of deadly epidemics in many countries tends to intensify spreading faster every year without vaccine for some deceases. The situation became more difficult to control in a timely manner which affected our business operation indirectly. That is, unable to import tool, machinery, equipment, raw material and labor from our partners in many countries, especially China, the country of our important partners. Our executive directors and working team also had to postpone or cancel their business trip to the high-risk countries, including suspending marketing activities that will have a lot of participants, caused delay in some of the company's new investment projects. However, the company has its back up plan to find tool, machinery, equipment and raw material from alternative sources that can be substituted, as well as rescheduled its execution plan and activities to minimize impact including providing appropriate health care and sanitary to our people and related stakeholders.



3. Driving Business for Sustainability

3.1 Sustainability Management Policy and Target

Energy Absolute Public Company Limited and affiliated companies (EA group) aim to be “A leader in alternative energy business, by using the modern technology and environmentally friendly for the best benefit of consumers, shareholders, partners and fairness to employees”. Therefore, the company has announced a policy to set up sustainability system for all dimensions, with balance of economic, social and environmental dimension. The sustainability policy is set as a framework to operate under explicit procedure and continuity development, including business strategy and business plan, aiming to comply with international standard. All executive management and employees of EA group are anticipated to follow the policy in same direction. Sustainability policy of EA group is established as follow:

1.) Economic

Corporate Governance

- Determine plan and working procedure in accordance with corporate governance policy which is approval by the board of directors.
- Disclosure performance to shareholders and the public transparently.

Business Ethic and Anti-corruption

- Emphasize on compliance with business ethic and anti-corruption.
- Provide a monitoring process to ensure consistency with policy implementation.
- Encourage all stakeholders to perform accordingly

Risk management and Crisis Management

- Assess the risk of EA group in various areas including short and long term operation. This leads to introducing a risk management plan to mitigate and capture all risk.
- Introduce emergency plan of key function and rehearse the implementation of the plan.
- Encourage employees of EA group to be aware of the involving risk and to comply with the risk management plan.
- Report the significant issues to the Executive Committee / Risk Management Committee / Board of Directors, as the case may be.

Management of business partners in supply chain

- Assess the satisfaction and compare with the target, analyze the results to develop relationship with partners whom especially important to business operation of EA group.
- Evaluate risks from suppliers in the supply chain, and take action to manage that risk.
- Enhance relationship with business partners who are good citizen according to social and environment dimension, and also well comply with laws, regulations and good practice.

Innovation in business and social

- Conducting corporate strategy that focusing on innovation and business opportunity to enhance continually growth.
- Promote and support development both inside EA group and stakeholders.

2.) Environment

- Determine and announce policy covering quality, environment, energy saving, occupational health and safety, to be practice throughout EA group.
- Determine environmental program annually, focusing in continual support and development.

3.) Social

- Adherence in fairness and respect for human rights to all workers
- Determine and conduct employee development program at all levels
- Provide an explicit and consistent evaluation system.
- Emphasize on community and society development and continuously implement projects.

3.2 Stakeholder Impacts Management in the Business Value Chain

Recognizing the importance of value chain management as a key foundation of business operation toward sustainable growth, the Company has put in place the procedures to assess economic, social and environmental impacts as well as engagement of stakeholders throughout the value chain so as to manage key sustainability issues and properly respond to the demand and expectation of each stakeholder group.

Stakeholders of all sectors are significant to the continuity of business operation and play an important part in its sustainable growth. The Company has analyzed and assessed the impacts of the operational procedures and the value chain to identify the stakeholders and assess the expectation of internal and external stakeholders of all sectors. Key issues are scrutinized to cover all areas so as to ensure risk hedging and mitigate impacts which may cause business disruption since each process is of different importance to the stakeholders.

Engagement Channel and Stakeholder's Issue

(Importance of stakeholders ordered by high to low)

Stakeholder	Engagement Channel	Stakeholder's Issue and expectations	Responses to Stakeholders' Expectations
Employees	- Complaints or Whistleblowing Channels	- Fair wages and benefits	- Standard safety management
	- Mailbox	- Career opportunities and stability, Happiness in workplace	- Standard environmental management
	- HR internal communication	- Human rights and labor practices	- Provident fund
	- Employee engagement survey	- Confidence in the equipment and safety of the production process	- Strict compliance with human rights and employment policies
	- Town Hall Meeting	- Safety workplace	- Career path and advancement
Business partner / Customer			- Continuous knowledge enhancement through knowledge sharing
	- Customer Satisfaction Survey	- Confidence in the equipment and safety of the production process	- Clear and standard procurement policy
	- Formal Meeting	- Confidence in the equipment and safety of the production process	- Anti-corruption policy and promotion through implementation
	- Complaints and Suggestions Channels	- Business transparency	- Good corporate governance, transparency and examinability
	- Meeting on occasions	- Human rights and labor practices	- Ethical obligation to protection of confidential information
Investor / Shareholder	- Responding to Disclosure Requests	- GHG emissions	- Improvement and maintenance of equipment to ensure efficiency
	- Contract and Written Agreement	- Innovation management	- Research team for development of products and services
		- Quality of products and services	
	- Investment Conference and Roadshow	- Opportunity and Risk management	- Anti-corruption policy and promotion through implementation
	- Opportunity Day / Analyst Meeting	- Innovation management	- Good corporate governance, transparency and examinability
Society / Community	- IR call and Email	- GHG emissions	- Appropriate dividend payment
	- Public information on EA's website	- Business transparency	- Transparent information disclosure
	- Annual General Meeting		- Appropriate business plan and risk management
	- Site Visit		
	- Communication through Employees in local area	- Community relations engagement	- Human rights policy and promotion
Society / Community	- Community Survey	- Human rights and labor practices	- Anti-corruption policy and promotion through implementation
	- Complaints and Suggestions	- Social and Environmental impact from the Company's operations	- Good corporate governance, transparency and examinability
	- Meeting on Occasions	- Customer well-begin and economic distribution	- Support for public activities
	- Public information on EA's Website	- Quality of products and services	- Environmental policy and promotion through implementation
	- Community Activities		

Stakeholder	Engagement Channel	Stakeholder's Issue and expectations	Responses to Stakeholders' Expectations
Environment / Civil Society	- Public information on EA's Website - Complaints and Suggestions channels - Clarification of the facts to the public - Publication of Annual Report and Sustainability Report	- Social and Environmental impact from the Company's operations - Customer well-begin and economic distribution - Innovation management - GHG emissions	- Human rights policy and promotion - Anti-corruption policy and promotion through implementation - Good corporate governance, transparency and examinability - Support for public activities - Environmental policy and promotion through implementation
Co-investors	- Board and management meeting for subsidiaries and associated companies and Joint Venture - Public information on EA's Website - Publication of Annual Report and Sustainability Report	- Business transparency - Human rights and labor practices - GHG emissions - Innovation management - Opportunity and Risk management	- Anti-corruption policy and promotion through implementation - Good corporate governance, transparency and examinability - Transparent information disclosure - Appropriate business plan and risk management
Creditors	- Meeting between Management and Creditors - Public information on EA's Website - Publication of Annual Report and Sustainability Report - Contract and Written Agreement	- Business transparency - Human rights and labor practices - Innovation management - Opportunity and Risk management	- Anti-corruption policy and promotion through implementation - Good corporate governance, transparency and examinability - Transparent information disclosure - Appropriate business plan and risk management
Government Sector	- Meeting between the Company and related Sector - Meeting on Occasions - Partnership and supports of Government's Projects - Public information on EA's Website - Publication of Annual Report and Sustainability Report	- Business transparency - Human rights and labor practices - Innovation management - Opportunity and Risk management - GHG emissions	- Anti-corruption policy and promotion through implementation - Good corporate governance, transparency and examinability - Transparent information disclosure - Appropriate business plan and risk management - Environmental policy and promotion through implementation

Assessment Result of the Customer satisfaction level

Biodiesel Business



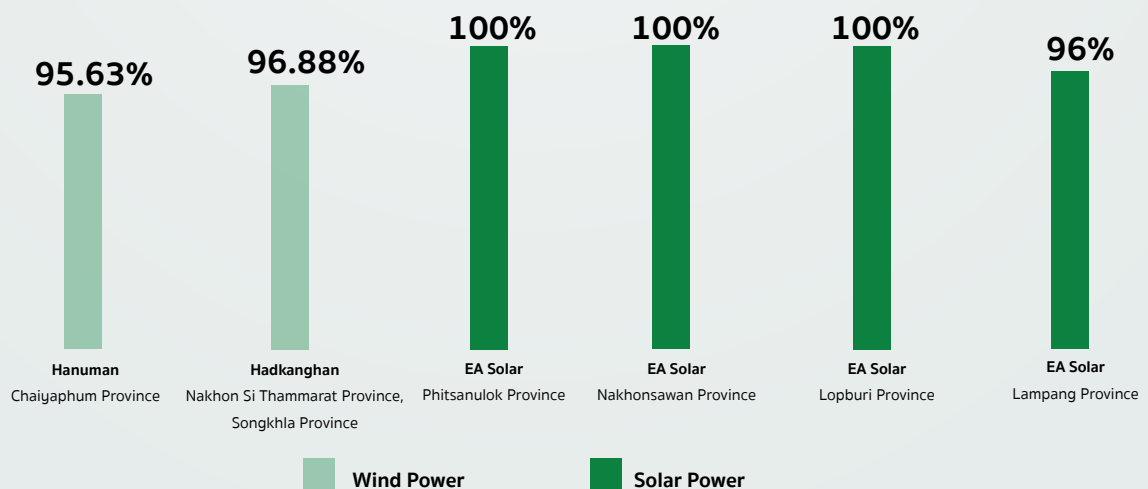
2021 Target of Customer Satisfaction is not less than 97%

Products



Renewable Energy Business

2021 Target of Customer Satisfaction is not less than 90%



3.3 Sustainability Management in Environmental Dimension

3.3.1 Environmental Policy and Practice

The Company has committed to develop the standard of business operations and general management to be in line with our Sustainable Environment Management Policy. The focuses will be on safety environmental and health in workplaces including the social responsibility. The policy will cover all Company's operations which emphasize on resource management covering all business activities products, services, transportation and distribution, as well as waste management. Furthermore, this commitment is the direct responsibility of all executives, employees and transfer to business partners, contractors and the relevant stakeholders whom working on the company's behalf. The objectives are as follows:

1. To be a leader in alternative energy business by using the modern technology and environmentally friendly for the best benefit of shareholders.
2. To comply with all applicable quality health safety and environmental laws and regulations as well as other business operation and stakeholder requirements environment.
3. Create customer satisfaction in terms of the services , quality , safety and on-time delivery of all products
4. Prevent, minimize and protect impacts from our operations on the environment and communities while supporting a wide range of human and social development initiatives.
5. To commit on the prevention of all risks, terminate hazard for reduction of injury and illness from working, which may occur to employee and stakeholder.
6. Continually improve our processes, operations and internal company management system.

3.3.2 Environmental Performance

- **Efficient Energy Use**

The company has Energy management guidelines by developing an appropriate energy management system. The operating guidelines are setting goals and creating energy projects for the reduction of fuel consumption. Fuels that the company can reduce are LPG and Coal.

In 2021, the Company group prepared a summary of the annual report on Energy management by setting goals and creating energy projects for the implementation of fuel consumption control to be in the appropriate amount for the operation as summarized below:

For Biodiesel Business

The factory set up a project to reduce fuel consumption by dividing into 2 projects as follows:

1. The project to reduce LPG by reusing the remaining heat from hot RBD oil back to heat up directly on raw material.

The ratio of LPG consumption per RBD oil production reduces from 0.71 to 0.64 (Kg of LPG / Kg of RBD oil).

2. The project to reduce Coal by changing 16 ton tubes Boiler. The ratio of Coal consumption reduces from 150 to 146 (Kg of Coal / Ton steam).

For Solar Power Plant business

Project on Reduction of Electricity Consumption, Timer was installed in the automatic transfer switch (ATS) to enable electricity cut of unused equipment at night, thus reducing electricity consumption by 18,801 kilowatt-hour (kWh) per month or 14% of total consumption before the project implementation, and saving electricity expense of Baht 56,403 per month.

- **Water Resource Management**

The Company has a guideline for water management resulting from its operations by reusing the used water to reduce the amount of water used. In addition, the company has an action plan to turn the treated wastewater into good quality water for use in the green areas of the factory. To replace the use of tap water, including campaigning and promoting the use of resources in a cost-effective manner and maximum efficiency. Although some of the Company's projects are located in a water-stressed area, no huge amounts of water are consumed and affect the stakeholders. The project also has a stakeholder-focused water management plan in place. In 2021, there were no water-related incidents with a financial impact above USD 10,000.

For Biodiesel business

For 2021 performance, the amount of water used in the production process is 145,274 cubic meters and the amount of recycled water is 3,577.51 cubic meters from the operation of 2 projects, as shown below:

1. Project on use of blowdown water from cooling tower to replace pipe water in the fire-fighting system: The project helps reduce pipe water consumption by 3,369.21 cubic meters or 5% of water required to be filled in the cooling tower.

2. Project on reuse of treated water for plant cleaning: The project reduces use of pipe water by 208.3 cubic meters or 0.15% of total pipe water consumption of the plant.

- **Waste Management**

For waste management, the Company has implemented environmental policies in waste management through planning as a bottom-up approach, commencing with a decrease in resource consumption, in accordance with the organization's goals that encourage the most efficient use of resources. When the quantity of waste produced is decreased, the amount of waste produced and the waste disposal burden imposed by the Company's business operations and activities will be reduced.

Management Approach

Under the Quality, Environmental, and Occupational Health & Safety Policy, the Company has initiated waste management as a practical approach to reducing the negative impacts on the communities and the environment. Also, the Company focuses on the minimization of the amount of waste produced and recycles it to reduce the waste generated by management. The Company has constantly implemented waste management projects such as relocating solar panels that are decreasing in efficiency to other areas of the Company's Group or communities, etc. In addition, the Company has established a waste management procedure that covers the management of waste and hazardous waste generated by the Company's production processes or activities, as well as the control of the sorting process/type of waste and hazardous waste, and proper waste and hazardous waste disposal.

In addition, the Company has established waste management guidelines. From previous operations, the Company has established waste management practices and implemented the 3Rs (Reduce, Reuse, Recycle) strategy by focusing on reducing,

reusing, and recycling. Besides that, the Waste Management Procedure has been reviewed on a regular basis, and awareness among employees in the organization about excellence in environmental management and the commitment to complying with relevant laws has been established in order to lead to sustainable business development. By organizing the “3Rs Campaign Communication”, which focuses on reducing, reusing, and recycling, the Company has campaigned and cultivated the cost-effective use of resources for its employees and personnel. The Company has a management process in place as well as cost-effective resource utilization and regular control and follow-up.

For Biodiesel Business

The project to reduce dirt in wastewater from glycerin tower is implemented with the use of filter press so that filtered water can be reused in the production process. The project helps reduce treatment of wastewater from the production process by 46 tons per month, hence a decrease of wastewater treatment expense by Baht 57,500 per month.

• The Management and Reduction of Greenhouse Gases

The Company realizes the importance of participating in society and environment care to be better quality and conducting different activities to support social development and a sustainable environment.

Management approach

The Company has a social and environmental policy as follows:

- Consider the impact of the business operation on society and environment
- Strictly comply with the relevant laws, regulations and related practices
- Develop and improve work standards to comply with environmental standards

The Company strictly complies with relevant environmental laws and regulations. In 2021, there were no environmental violations and the Company has not paid any significant fines (Environmental Violations Fine since USD10,000 or more) related to environmental issues.

GHG Emissions of the Group

	2019	2020	2021*
Direct GHG emissions of the Group tons of carbon dioxide equivalent (tCO ₂ e) (Scope 1)	44,201	45,305	39,326
Energy Indirect GHG emissions of the Group tons of carbon dioxide equivalent (tCO ₂ e) (Scope 2)	10,882	12,965	13,559
Other Indirect GHG emissions of the Group tons of carbon dioxide equivalent (tCO ₂ e) (Scope 3)	55	68	143,502
Direct and Indirect GHG emissions of the Group tons of carbon dioxide equivalent (tCO ₂ e) (Scope1,2,3)	55,138	58,338	196,387
Total Revenue (Million Baht)	14,955	17,199	20,558
GHG emissions intensity of the Group (tons of carbon dioxide equivalent (tCO ₂ e) per Baht 1 Million of Revenue)	3.69	3.39	9.55

Remark: A GHG emission from coal was revised last year referring to IPCC standard.

*2021 data has been reviewed by Bureau Veritus (Thailand) Co., Ltd. and issuance of the TGO greenhouse gas emission certificate (ISO 14064-1) is currently underway.

The Company gives importance to greenhouse gas management. The business that generates the largest volume of greenhouse gas emission is biodiesel business. The Company has thus continuously implemented projects such as those on reduction of electricity consumption, water consumption and waste treatments, etc. aiming to lessen direct and indirect greenhouse gas emission from the production process.

The Company conducted assessment according to the guidelines of Thailand Greenhouse Gas Management Organization (TGO) and the data was reviewed by Bureau Veritas (Thailand) Co., Ltd. (TGO-registered verifier). In 2021, volume of greenhouse gas emission by the Group was as follows:

- Direct greenhouse gas emission = 39,326 tons of carbon dioxide equivalent (tCO₂e)
- Indirect greenhouse gas emission = 13,559 tons of carbon dioxide equivalent (tCO₂e) and
- Other indirect greenhouse gas emission = 143,502 tons of carbon dioxide equivalent (tCO₂e) and
- Direct and indirect greenhouse gas emission of the Group = 196,387 tons of carbon dioxide equivalent (tCO₂e)

The Group recorded an increase in greenhouse gas emission from the foregoing year by 138,049 tons of carbon dioxide equivalent per year as the scope of collection of data on indirect greenhouse gas emission was extended in 2021 according to TGO's requirements on carbon footprint calculation and report.

Climate Change Implementation

As the climate change situation has intensified and affected many continents of the world, which is partly a result of greenhouse gas emissions from human activities. Many countries have turned their attention and are aware of the disaster, which can reduce the severity of climate change by collaborating to reduce greenhouse gas emissions. The company, therefore, has implemented business processes to reduce greenhouse gas emissions as follows:

Promotion of a low carbon society (Reduce of Greenhouse Gas Emissions)

The Company supports building the low carbon society and the reduction of greenhouse gas emissions and it has been approved for listing in the Thailand Voluntary Emission Reduction Program: T-VER with the Thailand Greenhouse Gas Management Organization (public organization) or TGO. TGO develops the project to promote and support all sectors to take part in reducing the greenhouse voluntarily. The amount of greenhouse gas reduced or known as 'Carbon Credit' under T-VER or "TVERs" can be traded to the local voluntary carbon market. TGO has determined criteria and procedures for project development, the methodology for reducing greenhouse gas, listing and certifying the amount of greenhouse gas. The project must cause reduction/absorb the greenhouse gas in Thailand, to reduce the emission rate which is the main cause of global warming, increase the source to store the greenhouse gas, generating income from trading the greenhouse gas. As a result, in 2021, the Company has applied to participate in such initiatives. The following renewable energy projects can cut greenhouse gas emissions by 794,151 tons of carbon dioxide equivalent (tCO₂e):

Solar Power Plant Project: The TGO sub-committee approved the greenhouse gas mitigation in this project as follows:

Unit: tons of carbon dioxide equivalent (tCO₂e)

The amount of greenhouse gas reduced from the electricity generation	January - December 2019	January - December 2020	January - December 2021
Solar Farm at Nakhonsawan, Thailand - under an operation of the Company's subsidiary, EA Solar Nakhonsawan Co., Ltd. with a capacity of 90 MW.	101,947	99,629	102,999
Solar Farm at Lampang, Thailand - under an operation of the Company's subsidiary, EA Solar Lampang Co., Ltd. with a capacity of 90 MW.	115,285	116,526	115,795
Solar Farm at Phitsanulok, Thailand - under an operation of the Company's subsidiary, EA Solar Phitsanulok Co., Ltd. with a capacity of 90 MW.	127,690	124,960	127,211

Note: 2021 data has been reviewed by SGS (Thailand) Co., Ltd. (registered verifier of TGO) and issuance of the TGO greenhouse gas emission certificate (voluntary type) is currently underway.

Wind Power Plant Project: The TGO sub-committee approved the greenhouse gas mitigation in this project as follows:

- 1.) **Wind Farm at Songkhla and Nakhon Si Thammarat, Thailand** - Indirect subsidiary, EA Wind Hadkanghan 3 Co., Ltd. with a capacity of 126 MW. The Sub-Committee of TGO has certified that the amount of greenhouse gas reduced as follows:

Unit: tons of carbon dioxide equivalent (tCO₂e)

The amount of greenhouse gas reduced from the electricity generation by Wind Power Plant	January - December 2019	January - December 2020	January - December 2021
Wind Farm at Songkhla and Nakhon Si Thammarat	164,873	143,270	162,371

- 2.) **Wind Farm (Hanuman Wind Farm 1, 5, 8, 9 and 10) at Chaiyaphum, Thailand** of a group of company with a capacity of 260 MW. The Sub-Committee of TGO has certified that the amount of greenhouse gas reduced as follows:

Unit: tons of carbon dioxide equivalent (tCO₂e)

The amount of greenhouse gas reduced from the electricity generation by Wind Power Plant	February - December 2019	January - December 2020	January - December 2021
• Hanuman Wind Farm 1	46,829	43,164	43,883
• Hanuman Wind Farm 8	47,756	43,457	45,832
The amount of greenhouse gas reduced from the electricity generation by Wind Power Plant	April - December 2019	January - December 2020	January - December 2021
• Hanuman Wind Farm 5	52,635	61,382	63,123
• Hanuman Wind Farm 9	41,213	43,260	45,456
The amount of greenhouse gas reduced from the electricity generation by Wind Power Plant	May - December 2019	January - December 2020	January - December 2021
• Hanuman Wind Farm 10	75,438	82,644	87,481

Note: 2021 data has been reviewed by SGS (Thailand) Co., Ltd. (registered verifier of TGO) and issuance of the TGO greenhouse gas emission certificate (voluntary type) is currently underway.

3.4 Sustainability Management in Social Dimension

The Company Group dedicate to business principle by focusing on sustainability in diverse dimensions such as economic, society, and environment. Meanwhile, we attempt to develop communities surround our plants by creating a value from organizational operation. The Company Group established a Corporate Social Responsibility (CSR) to develop and improve quality of well-being of the communities. Activities were created to respond in any areas such as occupation, quality of life, education, religion, culture and tradition, environment and also health. In 2021, we concentrate on health area because of the Covid-19 situation. We provide medical stuffs for medical personnel. All of these activities could build up our reputation and awareness of the communities around our sites. There is also public communication to third party and stakeholders by declaration our policy and vision.

As a guideline for business process management (CSR-in-Process), The Company Group established a “Corporate Social Responsibility Policy” with the following 7 principles.

Principle 1: Good Corporate Governance

Principle 2: Conduct Business with Fairness

Principle 3: Human Rights and Treatment to Employees

Principle 4: Responsibility to Consumers

Principle 5: Environment and Safety

Principle 6: Participation in Development of Community and Society

Principle 7: Development and Dissemination of Innovation from Social Responsibility

3.4.1 Personnel

Human Resource Management of the Group

The Company has continuously invested in various businesses for business value added and thus prepared its human resources to accommodate the business expansion and respond to future demand for human resources, as it aims to become the leader in eco-friendly technology and innovation. These businesses comprise electric charging station, electric vehicle, electric ferry, battery and high-density energy storage system, and others. Emphasis is put on development of skills, knowledge and competence to keep pace with the rapidly rising demand and business expansion.

For manpower preparation, the Company has set out EA Group human resource management policy to encourage the employees to be both smart and good employees so as to optimize deployment of human resources across the Group. Its human resource management guidelines are as follows:

1.) Corporate Values

The Company has determined EA DNA and EA Mankind as collaborative behavior within the EA Group. Employees are encouraged to be both smart and good manpower, with such qualifications as passion, eagerness, teamwork, EA smartness (bringing innovations and new values, having entrepreneurship spirit, and taking action with professional knowledge, skills and expertise), and EA goodness (thinking, speaking and acting in the good and right way, and having good intention for the organization and other stakeholders).

2.) Performance Management

In order to drive the organization toward achievement of its goals, the Company has intensely implemented the Pay for Performance system, and put in place procedures for setting goals and indicators in line with the organization strategies as well as behavioral assessment and 360-degree feedback from acquaintances to enable the employees to accomplish their performance goals and ensure behaviors in alignment with the organization culture. Assessment results have been applied in human resource development. The Company has also identified essential skills and competencies, wage rates and bonus as well as established a Trust Fund as a way of giving long-term returns and motivating the employees to create shared values for sustainable growth.

3.) Human Rights

The Company respects and protects human rights and is committed to managing its business in adherence to good corporate governance principles with social responsibility and respect for differences. Its business operation is anchored on the basic human rights principles, with focus on common value on sustainable growth. Human rights principles are blended in EA DNA in respect of synergy, requiring EA people to cultivate positive attitude toward work performance, be able to foster good relationship and communicate with others efficiently, have courage to talk about work-related matters or existing problems and to ask questions and give opinions with respect and integrity in order to maximize mutual benefits, be open and listen to different views, adjust themselves and be resilient to changes, work collaboratively as a team even amid diversity regarding age, gender, nationality, religion, etc., have respect for each other, and synergize to work toward achievement and sustainable excellence. EA DNA is incorporated into the performance evaluation, individual development plan, development plan for career advancement, salary adjustment and annual bonus consideration, as well as selection of employees to join the Trust Fund.

Human Rights Performance

- The Company received Human Rights Awards 2021 for the second consecutive year from the Department of Labour Protection and Welfare, Ministry of Justice.
- The Company rolled out the EA human rights policy, EA human rights commitment, and code of business ethics, etc. as part of the content in the Company's handbook, which have been communicated to all employees via the Company's website, email as well as in the employee orientation course. They have also been arranged as mandatory course for all employees to develop understanding and realize fundamental rights and freedom that belong to every human being, aiming to lower risk from violation of human rights in the business operation. In 2021, a total of 979 employees joined the course and passed the test, representing 83% of total employees.
- One of the key human rights projects to promote differences and diversity among the employees and encourage learning and exchange of ideas, views and experiences is employment of the elderly. The Company has employed 2 elderly persons aged more than 60 who have proper knowledge and experiences to work for the Accounting Department.
- The EEC scholarship project is aimed to provide educational opportunities, enhance academic capacity and research potential, and develop manpower through short- and medium-term courses targeted at practical output in the areas of technology, high-density energy storage system, oleochemical industry and modern automotive industry to meet the demand under Thailand 4.0 Strategy and accommodate the Eastern Economic Corridors (EEC). This is a testament of the Company's consistent realization of the importance of respect for and protection of human rights.

- The Company joined as member of Bloomberg's Gender Equality Index (GEI) for the second consecutive year to enhance cooperation on gender equality promotion with the international agency.
- The Company entered into an agreement to promote gender equality with U.S. Agency for International Development (USAID).
- Other major human rights projects to promote differences and diversity among the employees and encourage learning and exchange of ideas, views and experiences include increase in female employment rate by 5% per year, employment of the elderly, and employment of LGBTQI+ persons.

Development of Personnel Potential

The Company focuses on development of employees' potential to match with the organization requirements and puts in place systematic, continuous and comprehensive personnel development guidelines which involve all employees in the organization according to the 10:20:70 learning principle.

The 10% learning: represents learning through training and self-learning. The Company has made available various learning channels to suit the employees' learning platform and approach. In 2021, the Company applied digital technology and system for personnel development during the COVID-19 pandemic to ensure continuous learning, and provided training in the format that would allow the employees to manage learning by themselves and with the content covering diverse areas of employee development to level up the skills as well as build necessary work-related skills in response to the rapidly changing business environment. The training was divided into five learning categories, i.e. rules and regulations of the Company, leadership skill, technical skill, communication skill and EA DNA, which can be chosen freely by the employees.

The 20% learning: represents learning from supervisors through advice and coaching as well as learning from knowledge exchange with others. In 2021, the Company adopted knowledge management (KM) as an organization knowledge exchange tool. The objective is to gather and systematize body of knowledge, which is in the persons or documents, to enable the employees to access core business knowledge and develop themselves to become knowledgeable and perform tasks efficiently, which will contribute to optimum competitiveness of the organization. The Company has also promoted and created an environment for knowledge exchange by arranging knowledge sharing activities for employees who have specialized knowledge to share their expertise and experience with others so that such knowledge learned from direct experiences can be adapted in the work or for improvement. This would help save time and resources as required in general learning process. Moreover, the Company has developed knowledge management platform under the name "EA Knowledge Management System" as a knowledge storage accessible by the employees at any time and kept safe from outsiders. The knowledge management system also gives benefits at the organization level, i.e. preventing loss of key knowledge and more importantly developing horizontal knowledge culture where everyone is equally entitled to data access and learning.

The 70% learning: represents on-the-job learning and application of knowledge and skills learned from exchange with others to the work in charge.

Development of Innovation and New Value

To instill the value of innovative thinking and new values with focus on shared values for sustainable growth and to support employees' development of knowledge and skills that will truly be with them forever, the Company has initiated the "EA Inside EA" program to promote development of innovations within the organization or add value to the Company.

Performance on Development of Personnel Potential

- The Company initiated the Executive Trainee Program for direct transfer of experience from the Chief Executive Officer and top management through consideration of leadership skill from working on new challenging projects. It has also promoted development of skills and self-learning through hands-on practice, utilized career management and rotation system to allow talented employees to work for the projects or work units within the EA Group and grow together with the Company under the “Create Your Own Journey” project. Three classes of the Executive Trainee Program were completed and opening of a new class is currently underway for development and preparation of management personnel.
- The Company adopted digital technologies and systems in its human resource management during the COVID-19 pandemic to enable continuous self-development of the employees. A total of 17 training courses are provided for self-learning where the employees freely choose the topics of their interest. In 2021, a total of 989 employees attended the training averagely for 1.43 hours per year.
- The Company also arranged on-site training for a total of 801 employees through 57 courses, representing averagely 5.09 training hours per year.
- The Company encourages and creates knowledge exchange atmosphere by arranging knowledge sharing activity where the employees who have specialized knowledge and expertise share their knowledge and experience with their colleagues. In 2021, the knowledge sharing activity was organized on five topics and attended by 76 employees, representing averagely 1.45 training hours per year.
- The Company encouraged new work challenges through a creative work and innovation contest in “EA Inside EA” program. In 2021, a total of 17 projects were submitted in the EA Inside EA contest, e.g. project on reduction of electricity consumption in the buildings, IoT project and project on reduction of water consumption, etc., representing a significant increase by 112.5% from 2020.

In summary, development of employee potential in 2021 under the 10:20:70 learning principle posted an average of 17 hours/person/year, representing 100% of the individual training target (15 hours/person/year).

Employment

The Company has put in place systematic recruitment system and continuously provided opportunities for talented persons to join as a major force in driving the organization forward. Emphasis is put on development of manpower and technological expertise to create tangible outcome and accommodate business expansion in the future.

Diversity in Employment

The Company promotes acceptance of and adopts diversity & inclusion to create benefits. Foreign experts in various fields of the core businesses are hired to enhance knowledge and share experiences, and training is arranged for expats to ensure self-reliance of the Company at an appropriate level. Diversity & inclusion also help promote creativity in the organization, uplift the ability to attract and retain talented people, and benefit the corporate image and marketing. At present, there are 37 expats, representing 3% of total employees.

Employment Performance

- The Company has cooperated with the public and private sectors as well as leading local and international organizations through, for instance, signing of the memorandum of understanding (MOU) on networking for development of manpower and expertise in modern automotive technology and national energy storage system with educational institutions to prepare its personnel for bachelor's and master's degrees in applied artificial intelligence (AI), smart technology, mechanical engineering, mechatronics engineering and automation. The Company has also served as source of learning and practice for personnel development by providing short-term training courses with focus on practical outputs to meet the requirements of the Company and the country under Thailand 4.0 strategy as well as to accommodate the EEC.
- In 2021, the Company granted commitment-free scholarships to school and university students under the MOU with 15 institutions. qualified The committee considered and selected school and university students who have EA DNA, career goal, and intention to give back to the society according to the creating shared value guidelines. The scholarships were granted to a total of 20 students, comprising 7 undergraduate students from 3 universities and 13 high vocational students from 6 institutions, who are provided with tuition fee support for 4 academic years, monthly allowance, entitlement to internship at workplaces with life insurance coverage, and mentors to take care and give work-related advice so as to prepare and allow them to learn and gain actual work experience.

Employee Engagement

The Company has arranged to have an employee engagement survey by a locally and internationally renowned institution. The survey results in 2020 indicated the employee engagement of 51% from the target of 56%. In 2021, the Company enhanced the employee engagement in terms of development and learning with the increase in channels, platforms, topics and courses and improvement of information technology system to meet user demand for speed and easy access while taking into account the organization sustainability. The Company has scheduled the employee engagement survey on a biannual basis. The next survey will be conducted in 2022. Meanwhile, the turnover rate was recorded at 25.65% of total employees, a surge by 45% in the previous year. To lower the turnover rate, the Company has put in place the succession plan to allow the employees to realize their career advancement path and to ensure appropriate care by the management in aspects of work performance and self-development.

Significant of labor dispute in the past 3 years

There is no significant of labor dispute in the past 3 years of the Company and subsidiaries.

3.4.2 Creating Shared Value - CSV

Policy and objectives

The company is committed to enhancing the quality of life and well-being of locales, communities, and society, as well as alleviating poverty and income inequality. Especially during the COVID-19 situation, Thai society and the agricultural industry in Thailand are more vulnerable. Therefore, the company implements social benefit initiatives through creating shared value, or CSV, with local people around the plant in order to create career opportunities for people in the community and local farmers. The project focuses on sustainable career development, covering economic, social, and environmental dimensions that affect the strength of the community and resilience following the Sustainable Development Goals (SDGs) framework and Global Reporting Initiative (GRI) standards.

Economic and career development, as well as the promotion of well-being	   
Environmental and natural resource conservation	 
Lifelong learning promotion	
Stakeholder Engagement	

The company applies a CSV approach alongside C-SI (Corporate Social Innovation) that focuses on engaging with local people and relevant organizations to create innovation, as well as developing skills for the future in innovation integrated with local wisdom to achieve a sustainable and equitable future for all in a stable and resilient community.

EASE – EA Social Enterprise

In late 2015, the company initiated the EASE-EA Social Enterprise to pursue a social benefit that does not prioritize profits but aims to create social benefits through sustainable self-reliance, to enhance people's quality of life, starting with the communities surrounding the company's power plants as pilot project areas, and to create "a good job" in the community, providing local people with a stable income. As a consequence, there will be steady jobs, which will contribute to life stability and sustainable local economic growth.

Strategic plans for sustainable community living development



The project implementation centers on promoting the participation of local farmers from upstream to downstream in order to foster ownership and shared values for social innovation.

1. Start with the needs of the community and the surrounding context
2. Design and plan projects together.
3. Assist with project implementation and promote knowledge, particularly future innovation skills.
4. Joint evaluation and scale up continuously

Implementation of Ease Organic Project

For almost 6 years, EASE (EA Social Enterprise) has been conducting social projects with local farmers, communities, organizations, universities, and related partners to strengthen communities, develop sustainable self-reliant farmers' businesses through the promotion of knowledge, support production, promote market channels, and increase business opportunities fairly, as well as support research and development for scale up.



Social Enterprise projects through Creating Shared Value in 2021

The company continues to develop organic farming careers and promote livestock occupations in goat and sheep farming, along with continuously creating value for communities and society as well as the environment.

- For organic farming, farmers earned a stable income for farmers, averaging 353 baht/day, and for sheep and goat farming, 523 baht/day on average.
- Careers are created for the elderly, with 12.5% of seniors among farmers in all projects.
- Farmers in the project obtain the knowledge and skills to manage organic agriculture sustainably, as well as fundamental business and marketing, including the application of innovation and technology in organic farming.

3.4.3 Corporate Social Responsibility: CSR

CSR Strategy

CSR department adopt framework which focus on sustainable development in 3 dimensions: Economics, Social and Environment under the operation with fairness and equality, interdependence and balance. Our direction is focus on participation with the community to discuss and evaluate for satisfied solution both directly and indirectly. In addition, we cooperate to find the acceptable conditions by give an opportunity for communities to share their opinions and requirements. This could lead the solutions to solve any issues that happened. It could show that the Group adopts the framework of sustainable corporate social responsibility.

Sustainable Development Framework



CSR action plans

The CSR unit constitutes plans and indicators which can evaluate the result of CSR's project in various areas, with an emphasis on community participation and sustainable development, with the following objectives.



Participation in Community development

The Group prioritizes stakeholder and community participation. The communities that surrounding our projects is one of the significant stakeholders, CSR build up relationship and trust by creating and implementing various projects that could benefit them also reduce any opportunities that might be a threat in the near future. The company seek the activities about improvement the quality of life, environment conservation, education, safety and health. All of these could raise the reputation of the Group to communities.

Company action toward stakeholders and community awareness surrounding the site location

CSR created the public hearing for community opinions prescribed by authorities before investing in building a power plant and continuously closely following up on community opinions, recommendation and needs by assignation CSR staff for each plant to follow and report any issues or requirement that occur in the community. After this process, CSR team will discuss and plan the projects that suitable for each community. In addition, the organization had agreed to collaborate with the Ministry of Industry on the project “Environmental Governance Industrial Establishments”. It was a commitment to continuously focus on environmental protection and conservation with the community and local society by putting the principles of environmental governance into practice in the operation of the business in accordance with the established rules.

CSR Performance

The company group has adhered to a policy that must be carried out with care and seriousness to various stakeholders, including shareholders, customers, trading partners, creditors, communities around the factory locations, employees, regulatory agencies, and the government sector, based on the group’s business results. The aforementioned individuals or organizations are critical to the company’s operations, as are the principles of social responsibility guidelines (ISO 26000) and the Sustainable Development Goals. To meet the needs and expectations of society and communities in 2021, the Company has divided its operating results into 5 key areas, as follows:

1. Education

- Partnership School Project – Cow farming in follow up stage in Chaiyaphum Province
- Volunteer Project in local school in Lampang (rebuild the playground)
- EA Scholarship for implementation of EEC’s employees from EA group In Chachoengsao 2021



2. Economic growth and income generation

- Farming project in Phitsanulok Province
- Livestock project supported by giving grass from our site in Phitsanulok Province
- EA share by purchasing agricultural products from local farmers in Nakhon Si Thammarat and Songkhla Provinces
- Water sharing project for local agriculture in Phitsanulok Province



3. Environmental safeguard

- Reforestation in public place in Lampang Province
- Free fish project to conserve aquatic species in Phitsanulok Province
- Donation various fish species to conserve the diversity of fish species in local



4. Health and Well-being

- Green Energy Project: by installation Solar-cell to decrease the electricity bills in Chaiyaphum and Phitsanulok Provinces
- Donation Project: Providing electricity stuffs to Local State Quarantine (LSQ) in Rayong Province
- Renovation project: Repairing police office in Lampang Province

- Donation Project: supporting the necessary stuffs for local authority officers for operation with the pandemic in Nakhon Si Thammarat Province
- Supporting Project: Established the COVID-19 Care center (CCC) at Energy Absolute Learning Center in Nakhon Si Thammarat Province
- Supporting project: proving hens to community to be food resources in the near future



5. Culture and participation promotion

- Visiting and donation chairs to Thai-Muslim community at Ramadan season in Nakhon Si Thammarat and Songkhla Provinces
- Participation the local divinity worship yearly in Chaiyaphum Province
- Songkran celebrations and senior citizen's day in Chaiyaphum Province



Mitigating the COVID-19 impact and Caring for all stakeholders

In 2021, the Group still operates the company by following the policy to tend all of our stakeholders Employees

Employees	- The Company provided lunch meals for our staffs every day for preventing the risk of going out the office building since July to September. This period is the most severe of the pandemic in Thailand. - The company has the policy for providing adequate safety and hygiene equipment to all employees, including contractors
Shareholders	The Company attempted builds trust among shareholders, the company help an online shareholder meeting with social distancing measures and provided a channel for listening and communicate, as well as coping with the COVID-19 pandemic situation.
Community and Society	The Group still operates a group, well known as “Chuay Gun Group” to solve the issues from the pandemic such as donation air purifier and positive pressure mask for medical personnel in Thailand. This voluntary group was set by the company’s executives as follows: - Supporting air purifiers and developing the technology to gain more safety of medical personnel such as Negative pressure room. This technology could decrease any chances of spreading the virus in hospital (Not only the COVID-19) which received many responding about this innovation, many medical personnel satisfied and appreciated and believe it could support their performance in long term and in the near future. - Supporting “Pure Heart Foundation” by donation medical stuffs such as Oxygen Concentrator and providing Oxygen Concentrator in 2 Sizes; 5 Liters and 10 Liters, 1,000 units and 200 units respectively. The foundation takes this machine for operating the project. It could help many patients not only for the COVID-19 cases but also palliative care patient. In addition, the Group cooperates with the foundation to help communities which affected from the COVID-19 by giving Antigen Test Kit and necessary equipment for medical personnel.

3.4.4 Occupational Health and safety

The Company believes that the management of safety, occupational health, and working environment is a basic responsibility and it is an important and necessary factor for business operations and the company's employees. The Company determines to promote every business unit to have a healthy and safe operating environment and adheres consistently along with organizational development to determine for excellence. This is in line with the Sustainable Development Goals 8, decent work and economic growth.

Management Approach

The Company value employee safety by announcing occupational health and safety policy and working environment policy sets guidelines and safety management systems to ensure they are in line with legal and international standards on safety, occupational health, and work environment for employees, business partners, and stakeholders. This includes risk prevention measures for accidents, injuries, and illnesses caused by operations, along with support to improve the work environment to promote employees' physical and emotional wellbeing and hygiene, and their quality of work life.

- Prevent accidents, injuries, and illness due to operations with the cooperation of employees and all contractors as well as limiting and controlling risks in unsafe operations by providing a briefing and checking safety readiness before operating in the area.
- Cooperate with other government agencies and private organizations to comply with laws and regulations strictly regarding safety and implement good safety standards in business operations emergency and accidents from operations quickly effectively and carefully.
- Provide personal protective equipment to prevent, mitigate and control risks and potential health impacts from operations, transportation, services, as well as guidelines for controlling emergencies to reduce losses and injuries
- Set procedures, action plans, and training including educating employees at all levels to have sufficient knowledge, understanding, and information regarding work safety to prevent danger from work or various diseases including use in daily life.
- Provide safety measures for employees and those involved by providing a safe and hygienic working environment
- Arranges annual health checks for all employees according to work-related risk factor (Confined Space Entry Work, High Work).
- Provide training, rehearsal, and control to work correctly and can use tools equipment correctly in case an incident occurs, which the rehearsal plan is practiced annually.
- Review occupational health and safety management policies and provide assessments periodically.
- Listen to comments and suggestions from employees, contractors, business partners, communities, the government, and relevant parties to improve or work together to increase confidence in occupational health and safety operations.

In 2021, the Company has provided training about work safety as follows:

- | | |
|---|---|
| • Training on basic firefighting and emergency preparedness | • Training to Confined Space entry. |
| • Training on chemical spill situation | • Training Process Safety Management Internal Auditor |
| • Training on the use of personal protective equipment. | • Training Officer in Management level and Supervisor level |
| • Training on Occupational disease | • Training on the management of waste or unused materials |
| • Training on First aids | • Training ISO 45001:2018 requirements |
| • Training to control external service providers | • Training assessment to identify risks, opportunities, and hazards |
| | • Forklift Safety Training |

Performance

The Group determined the operational indicators from Lost Time Injury Frequency Rate (LTIFR) and fatalities are as follows:

Indicators	2020		2021	
	Target	Performance	Target	Performance
Lost Time Injury Frequency Rate : LTIFR of employees (per 1 million hours)	0	0	0	0
Lost Time Injury Frequency Rate : LTIFR of contractors (per 1 million hours)	0	1.86	0	1.09
Work-related fatalities of employees (person)	0	0	0	0
Total number of employees (person)		722		1,169
Work-related fatalities of contractors (person)	0	0	0	0

COVID-19 Safety Measures of the Company

The Company considered to health and safety and well-being of employees especially during the COVID-19 pandemic that effects to the business operation including the living condition of employee so the Company set out the measures to protect, take care and facilitate of all employees

- Employees and contractors have to report Antigen Test Kit result every 7 days before entering into the workplace.
- Use the 'Bubble and Seal' system to take care of the workers in the factory to control and prevent the spread of the virus.
- Safety measures when entering into the workplace such as providing alcohol gel, temperature checks, touching point cleaning, wearing a mask and RT-PCR test before entering into the workplace.
- Declaration of health and travel timeline or the contact with a probable or confirmed COVID-19 every day.
- Support employees to find hospital beds and track the health of employees in case of home isolation.
- Accommodations for vaccination. COVID-19 vaccines are highly effective at preventing infection, serious illness, and death.
- Providing alcohol gel, temperature checks and increasing the rounds of cleaning at the dormitories.
- Educating employees on the seriousness of COVID-19 and steps they can take to avoid the spread of the disease.
- Coordinate with the relevant government sectors and hospital to investigate the infection and assess the number of close contact tracing.

4. Management Discussion and Analysis: MD&A

The operating results during the past 3 years for the Company and its subsidiaries, the revenue from sales and services can be divided into 4 business groups as follows:

- **Biodiesel Business:**
 1. Revenue from sales of biodiesel
 2. Revenue from sales of purified glycerin
 3. Revenue from sales of byproducts
 4. Revenue from sales of crude palm oil (“CPO”)
 5. Revenue from sales of PCM (Phase Change Material)
- **Renewable Power Plant Business:**
 1. Revenue from sales of solar electric power
 2. Revenue from sales of wind electric power
 3. Revenue from sales of biogas electric power
 4. Revenue from subsidy for adders
- **Battery and Electric Vehicle Business:**
 1. Revenue from battery development
 2. Revenue from electric vehicles
- **Other Businesses:**
 1. Revenue from other services

Type of Revenue	2019	2020	2021
	THB (million)	THB (million)	THB (million)
Manufacturing and distributing biodiesel, purified glycerin, and crude palm oil (including byproducts)			
- Revenue from Sales	3,677.68	6,262.29	8,165.83
- Cost of Sales	3,631.15	5,745.14	7,881.99
- Gross Profit	46.53	517.15	283.84
Generating and distributing solar and wind electric power (including from subsidy for adders)			
- Revenue from Sales	10,974.28	10,601.98	10,933.39
- Cost of Sales	2,532.43	2,920.56	2,847.85
- Gross Profit	8,441.85	7,681.42	8,085.54
Battery and Electric Vehicle Business			
- Revenue from Sales and Services	227.09	86.68	1,012.20
- Cost of Sales	233.92	300.33	961.91
- Gross Profit	(6.83)	(213.65)	50.29

Type of Revenue	2019	2020	2021
	THB (million)	THB (million)	THB (million)
Other Businesses			
- Revenue from Sales and Services	7.82	128.60	62.39
- Cost of Sales	354.89	305.38	201.60
- Gross Profit	(347.07)	(176.78)	(139.21)

Results of Operation for the Company and its Subsidiaries

Revenue from Sales of products and Total Revenue

1. Revenue from sales of biodiesel

Total revenue from sales of products of the Company and its subsidiaries in 2019, 2020 and 2021 were THB 3,677.68 million, THB 6,262.29 million and THB 8,165.83 million, respectively. In 2021, the revenue increased from 2020 by THB 1,903.54 million or 30.40 % or increased from 2019 by THB 4,488.15 million or 122.04% as categorized by products such as biodiesel, purified glycerin, byproducts, crude palm oil and PCM (Phase Change Material).

1.1) Biodiesel

Revenue from biodiesel in 2019, 2020 and 2021 was THB 3,423.24 million, THB 5,451.16 million and THB 5,773.73 million, respectively. In 2021, the revenue increased by THB 322.57 million or 5.92% from 2020, and increased by THB 2,350.49 million or 68.66% from 2019. The increase was mainly from price factor which recorded a 28.04% increase in 2021, following the contraction in crude palm oil stock supply. Meanwhile, the sales volumes decreased due to the Energy Policy and Planning Office's policy to reduce B100 proportion in biodiesel fuel blend from 7% (B7) and 10% (B10) to 6% (B6) from 11-31 October 2021, as well as another policy to restrict the B100 proportion in biodiesel fuel blend to only B7 despite the previously used B7, B10 and B20 for 4 months from 1 December 2021, and the shrinkage of demand for biodiesel from industrial and tourism industry due to COVID-19 pandemic.

1.2) Purified Glycerin

Revenue from purified glycerin in 2019, 2020 and 2021 was THB 228.93 million, THB 265.54 million and THB 364.35 million, respectively. In 2021, the revenue increased by THB 98.81 million or 37.21% from 2020, and increased by THB 135.42 million or 59.15% from 2019. This was due to the COVID-19 pandemic pushed the demand for glycerin for alcohol gel production higher than the previous year, resulting in the rise of Glycerin price in the global market for in 2021, despite the decrease in sales volume due to the Energy Policy and Planning Office's policy to reduce of B100 proportion in biodiesel fuel blend resulting in less production of B100 and glycerin as its byproducts.

1.3) Byproducts

Revenue from byproducts in 2019, 2020 and 2021 was THB 25.51 million, THB 31.79 million and THB 6.75 million, respectively. In 2021, the revenue decreased by THB 25.04 million or 78.77% from 2020, and increased by THB 18.76

million or 73.54% from 2019 from process improvement by introducing more Palm Fatty Acid Distillate (PFAD) as raw material for B100.

1.4) Crude Palm Oil

Revenue from crude palm oil started recognize the revenue in 2020 and 2021 was THB 505.31 million, and THB 1,979.60 million, respectively due to the Company and its subsidiaries recognized the revenue from crude palm oil in Larp Pakdee Palm Co., Ltd. (EA shareholding 74.99%) in the second quarter of 2020 and Kanjanadit Palm Co., Ltd. (EA shareholding 75.00%) in the third quarter of 2020. In 2021, the revenue increased by THB 1,474.29 million or 291.76% from 2020. This was mainly due to the increase in the average selling price of crude palm oil from low stock supply in early 2021 and increased export, and the lower production from the foreign labor shortage for palm oil industry in Malaysia, the 2nd largest global exporter of palm oil.

1.5) PCM (Phase Change Material)

Revenue from PCM due to the start of sales of PCM in 2020, the Revenue in 2020 and 2021 was THB 8.49 million, and THB 41.40 million, respectively. In 2021, the revenue increased by THB 32.91 million or 387.63%.

2. Revenue from solar and wind power plants

Revenue from solar and wind power plants in 2019, 2020 and 2021 was THB 10,974.28 million, THB 10,601.98 million and THB 10,933.39 million, respectively. In 2021, the increase of THB 331.41 million or 3.13% when compared to 2020 was due to stronger wind current compared to the same period last year led to higher production of wind power plants, despite the decrease of THB 40.89 million or 0.37% when compared to 2019.

3. Revenue from lithium-Ion battery and electric vehicle business

Revenue from lithium-Ion battery and electric vehicle business in 2019, 2020 and 2021 was THB 227.09 million, THB 86.68 million and THB 1,012.20 million, respectively. In 2021, the increase of THB 925.52 million or 1,067.74% from 2020 and increased by THB 785.11 million or 345.75% from 2019 was due to the sales of 112 units of electric bus in 2021.

4. Revenue from other business

Revenue from other business in 2019, 2020 and 2021 was THB 7.82 million, THB 128.60 million and THB 62.39 million, respectively. In 2021, the revenue decreased by THB 66.21 million or 51.49% from 2020, and increased by THB 54.57 million or 697.83% from 2019.

5. Other income

Other income in 2019, 2020 and 2021 was THB 67.67 million, THB 119.59 million and THB 384.29 million, respectively, for 2021 increased by THB 264.70 million or 221.34% from 2020, and increased by THB 316.62 million or 467.89% from 2019 which occurred from the sales of unused asset of THB 318.18 million.

Cost of sales and gross profit

Cost of sales and services in 2019, 2020 and 2021 were THB 6,752.39 million, THB 9,271.42 million, and THB 11,893.35 million, respectively. In 2021, cost of sales increased for THB 2,621.93 million or 28.28% from 2020 and increased by THB 5,140.96 million or 76.14% from 2019.

1. Manufacturing and distributing Biodiesel Product: In 2021, the cost of sales was THB 7,881.99 million, increased by THB 2,136.85 million or 37.19% from 2020 and increased by THB 4,250.84 million or 117.07% from 2019 with respect to the increase in palm oil price which is the raw material for biodiesel.
2. Generating and distributing Electricity: In 2021, the cost of sales was THB 2,847.85 million, decreased by THB 72.71 million or 2.49% from 2020 and increased by THB 315.42 million or 12.46% from 2019. In this regard, the cost of sales includes depreciation, administrative and maintenance expenses, etc.
3. Manufacturing and distribution lithium-ion battery and electric vehicle: In 2021, the cost of sales was THB 961.91 million, increased by THB 661.58 million or 220.28% from 2020 and increased by THB 727.99 million or 311.21% from 2019 following the increase in sales volume of electric buses.
4. Other businesses: In 2021, the cost of sales was THB 201.60 million, decreased by THB 103.78 million or 33.98% from 2020 and decreased by THB 153.29 million or 43.19% from 2019.

Gross profit of the Company and its subsidiaries in 2019, 2020 and 2021 were THB 8,134.48 million, THB 7,808.14 million, and THB 8,280.46 million, or 54.64%, 45.72%, and 41.05% of revenue from sales, respectively, according to the aforementioned changes in revenue and cost.

Selling Expenses

Selling expenses of the Company and its subsidiaries in 2019, 2020, and 2021 were THB 81.29 million, THB 79.84 million and THB 71.84 million, or 0.55%, 0.47% and 0.36% of revenue from sales and services, respectively. In 2021, selling expenses decreased by THB 8.00 million or 10.02% and decreased by THB 9.45 million or 11.63% from 2019, mainly from its lower sales volume.

Administrative Expenses

Administrative expenses of the Company and its subsidiaries in 2019, 2020 and 2021 were THB 864.55 million, THB 1,198.58 million and THB 1,365.49 million, or 5.81%, 7.02% and 6.77% of revenue from sales and services, respectively. In 2021, administrative expenses increased by THB 166.91 million or 13.93% in comparison to 2020, and increased by THB 500.94 million or 57.94% in comparison to 2019 due to increase in employee expenses and factory management expenses to support to expansion of Battery and Electric Vehicle business.

Financial Costs

In 2019, 2020 and 2021, the financial cost of the Company and its subsidiaries were THB 1,386.27 million, THB 1,636.80 million and THB 1,387.54 million, or 9.31%, 9.58% and 6.88% of revenue from sales and services, respectively. The decrease of THB 249.26 million or 15.23% of financial costs in 2021 compared to 2020 was due to the repayments of

loan from financial institutions due in 2021 and lower average interest rate, despite an increase of THB 1.27 million or 0.09% from 2019.

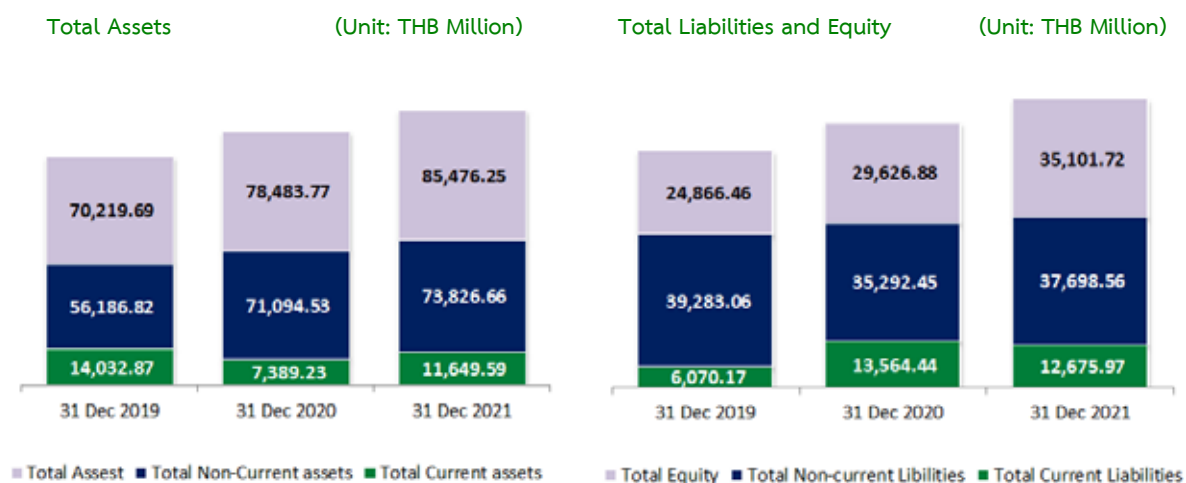
Net Profit and Rate of Net Profit

Net profit of the Company and its subsidiaries (in part of the profit attributable to owners of the parent) in 2019, 2020 and 2021 were THB 6,081.61 million, THB 5,204.57 million and THB 6,100.07 million, or 40.85%, 30.47%, and 30.24% of revenue from sales and services, respectively. In 2021, net profit increased by THB 895.50 million or 17.21% in comparison to 2020 due to stronger wind and the sales of 112 units of electric buses. The net profit increased by THB 18.46 million or 0.30% due to better performance of Biodiesel business. However, the Company maintains business expansion policy that focuses on high yield business, for example, the lithium-ion battery and up-to-date energy storage system manufacturing plant with biggest capacity in ASEAN, which have marked its opening on 12 December 2021, as well as the electric and commercial vehicle manufacturing business which is undergoing test runs for commissioning in early 2022.

Return on Equity

Return on equity of the Company and its subsidiaries in 2019, 2020 and 2021 were 29.19%, 20.34% and 20.23%, respectively. Shareholder's equity (in part of equity attributable to owners of the parent) was THB 23,364.51 million, THB 27,811.52 million and THB 32,501.02 million, respectively. The paid-up ordinary shares were THB 373 million and the premium on share capital was THB 3,680.62 million.

Statement of Financial Position



Assets

Total assets of the Company and its subsidiaries as of 31 December 2019, 2020, and 2021 were THB 70,219.69 million, THB 78,483.77 million and THB 85,476.25 million, respectively. Details of significant assets were as follows:

- **Cash and Cash equivalents**

Cash and cash equivalents of the Company and its subsidiaries as of 31 December 2019, 2020, and 2021 were THB 10,028.95 million, THB 2,950.67 million and THB 2,926.97 million, respectively. In 2021, the decreasing was mainly from business operations.

- **Trade accounts receivable and allowance for doubtful receivables**

As of 31 December 2019, 2020 and 2021, the Company and its subsidiaries had trade accounts receivable of THB 2,665.76 million, THB 2,750.19 million and THB 3,690.37 million or 3.80, 3.50% and 4.32% of total assets, respectively. In 2021, trade accounts receivable increased due to the battery and electric vehicle business.

- **Other accounts receivable**

Other accounts receivable of the Company and its subsidiaries as of 31 December 2019, 2020 and 2021 were THB 509.51 million, THB 761.29 million and THB 2,719.65 million, respectively. Other accounts receivable increased from sales of unused asset.

- **Inventories**

As of 31 December 2019, 2020 and 2021, the inventory of the Company and its subsidiaries were THB 757.68 million, THB 833.30 million and THB 1,483.15, or 1.08%, 1.06% and 1.74% of total assets, respectively. The significant increase in inventories in 2021 was due to the raw materials in preparation for lithium-ion battery production for Amita Technology (Thailand) Co., Ltd.

- **Property, plant and Equipment**

The property, plant and equipment of the Company and its subsidiaries as of 31 December 2019, 2020 and 2021 were THB 51,371.09 million, THB 55,856.94 million and THB 58,420.63 million, respectively. The increase of THB 2,563.69 million or 4.59% in comparison to 2020 and increase of THB 7,049.55 million or 13.72% from 2019, was mainly from the investment in new projects such as lithium-ion batteries and electric vehicle.

Property, plant and Equipment by asset type

Unit: THB Million			
Property, plant and Equipment	As of 31 Dec 2019	As of 31 Dec 2020	As of 31 Dec 2021
Land	1,234.05	2,106.97	2,125.57
Buildings and Buildings improvement	656.03	1,317.71	1,708.57
Machines, equipment, and instruments in the plants	1,242.87	2,686.67	3,352.68
Office equipment, furniture and motor vehicles	77.67	97.76	143.88
Assets and Construction in progress	1,209.82	4,935.10	8,323.33
Power plants, substation, transmission system and components	46,950.65	44,712.73	42,766.60
Total	51,371.09	55,856.94	58,420.63

• Intangible Assets

The intangible assets of the Company and its subsidiaries as of 31 December 2019, 2020, and 2021 were THB 2,792.78 million, THB 2,792.58 million and THB 2,789.70 million, or 3.98%, 3.56%, and 3.26% of total asset, respectively. In 2021, intangible assets decreased by THB 2.88 million compared to the same period of last year

Intangible Assets details

Unit: THB Million

List of Intangible Assets	As of 31 Dec 2019	As of 31 Dec 2020	As of 31 Dec 2021
Right to power purchase agreement	30.22	28.52	26.83
Right to use transmission line and substation			
• Solar Power Plant in Lopburi	10.58	9.98	9.39
• Solar Power Plant in Nokhon Sawan	147.63	139.84	132.06
• Solar Power Plant In Lampang	151.52	143.98	136.45
• Solar Power Plant In Phitsanulok	229.97	219.11	208.79
• Wind Power Plant In Nakhon Si Thammarat and Sogkhla	311.54	297.61	283.70
Wind Power Plant In Chaiyaphum	863.69	827.92	791.72
Computer software	31.74	38.40	58.96
Patents	670.07	675.45	729.31
Brand	231.07	232.93	247.75
Intangible assets under development	114.75	178.84	164.74
Total	2,792.78	2,792.58	2,789.70

Liquidity

As of December 31, 2020 and 2021, the current assets of the Company and its subsidiaries was THB 7,389.23 million and THB 11,649.59 million or 9.41% and 13.63% of total assets, respectively. The major current assets were with high quality and liquidity such as cash and cash equivalents amounting to THB 2,950.67 million and THB 2,626.97 million, respectively. Trade accounts receivable were THB 2,750.19 million and THB 3,690.37 million, respectively. Inventories were THB 833.30 million and THB 1,483.15 million, respectively. The ratio of current assets to total assets is likely to increase due to sales of unused asset, despite the expansion into the business of generating and distributing of electricity from renewable energy which categorized as non-current assets and high value, such as, land and power plants.

As of 31 December 2020 and 2021, the Company and its subsidiaries incurred the current liabilities of THB 13,564.44 million and THB 12,675.97 million or 17.28% and 14.82% of total liabilities and equity, respectively. The current liabilities of the Company in 2021 compared to the same period of last year decreased by THB 888.47 million mainly due to the decrease in short-term loans from financial institutions by THB 1,022.25 million, the decrease in long-term loans from financial institutions and debentures due in one year by THB 1,761.33 million. Meanwhile, accounts payable from construction and sales of assets increased by THB 1,756.14 million when compared to 2020 due to solar panels replacement in order to boost efficiency for solar power plants.

Furthermore, the conversion from short-term debt to long-term debt is in line with the expansion of non-current assets. The aforementioned change in current assets and current liabilities resulted in the Company's liquidity ratio at 2.31 times

in 2019, 0.54 times in 2020 and 0.92 in 2021. The liquidity ratio in 2021 was significantly increased due to the repayment of THB 4,000 million debentures resulting in lower current liability and hence the decrease in proportion of current liabilities to total liabilities.

Source of Fund

Liability

As of 31 December 2019, 2020 and 2021, the Company and its subsidiaries incurred total liabilities of THB 45,353.23 million, THB 48,856.89 million and THB 50,374.53 million, or 64.58%, 62.25%, and 58.93% of total assets respectively. The details of liabilities were as follows:

- Short-term loan from financial institutions**

As of 31 December 2019, 2020 and 2021, the Company and its subsidiaries incurred short-term loans from financial institutions of THB 659.86 million, THB 2,640.31 million and THB 1,618.06 million, or 0.93%, 3.36% and 1.89% of total assets, respectively. As of 31 December 2021, the short-term loan from financial institutions decreased due to the conversion from short-term debt to long-term debt in line with the expansion in non-current assets.

- Long-term loan from financial institutions**

As of 31 December 2019, 2020 and 2021, long-term loans from financial institutions (including the portion due within 1 year) of the Company and its subsidiaries were THB 24,293.68 million, THB 24,239.96 million and THB 29,163.22 million, or 34.59%, 30.88% and 34.11% of total assets, respectively.

- Debenture**

The Company's outstanding debentures (including the portion due within 1 year) as of 31 December 2019, 2020 and 2021 were THB 16,990.85 million THB 16,191.77 million and THB 12,194.35 million, or 24.19%, 20.63% and 14.26% of total assets. The objective is for investing in projects such as battery factory construction.

Shareholders' Equity

The Company and its subsidiaries' shareholder's equity continuously increased. As of 31 December 2019, 2020 and 2021, were THB 24,866.46 million, THB 29,626.88 million and THB 35,101.72 million, or 35.41%, 37.74% and 41.06% of total asset, respectively. Shareholder's equity continued to increase due to the continuous profit leading to increase in retained earnings.

In 2019 and 2020, the Annual General Meeting of Shareholders approved the payment of dividend of THB 0.30 per share, or the dividend payout of THB 1,119 million from operating results under non-BOI businesses.

Dividend	2019	2020
Dividend (THB/Share)	0.30	0.30
Dividend payout (THB million)	1,119.00	1,119.00
Dividend payout ratio	28.63%	33.32%

Debt-to-equity ratio of the Company and its subsidiaries as of 31 December 2019, 2020 and 2021 were 1.82 times, 1.64 times and 1.43 times, respectively. In 2021, the debt-to-equity ratio decreased due to lower amount of loan drawdown

for the construction of power plants which were mostly completed in 2019. There were also gradual repayments of loan for the power plants that had commenced commercial operations, resulted to the overall decrease in debt. In addition, the Company incurred continuous profit leading to increase in retained earnings and shareholders' equity. As a consequence, the debt-to-equity ratio has been decreasing.

Cash flow

The Company and its subsidiaries incurred net cash flows from operating activities in 2019, 2020 and 2021 were THB 8,703.24 million, THB 9,237.64 million and THB 7,798.13 million, respectively. The increase in cash flows from operating activities was a result of the continuous profit from the sales of electricity from solar and wind power plants.

Net cash (payment) in investing activities in 2019, 2020 and 2021 were THB (14,834.44) million, THB (14,195.54) million and THB (5,940.59) million, respectively. The Company invested in the construction of a new wind power plant project in Chaiphaphum (Hanuman Project) in 2019. In 2020 and 2021, the Company and its subsidiaries mostly invested in the construction of lithium-ion battery plants and car assembly plant.

For financing activities in 2019, 2020 and 2021, cash flow receipts from (payments in) financing activities were equal to THB 10,723.13 million, THB (2,140.88) million and THB (1,810.06) million, respectively. Cash flow from financing activities was from the issuance of debentures in 2019 amounted to THB 10,000 million and repayment of debentures amounted to THB 1,000 million, the outstanding debenture value to THB 9,000 million were utilized for payment of power plants construction. Additionally, there was issuance of debentures amounted to THB 2,200 million in 2020. In 2021 the Company repaid the debenture in the amount of THB 4,000 million.

Cash flow from various activities for the year ended 31 December 2019, 2020 and 2021 are summarized as follows:

	Unit: THB Million		
Cash flow from activities	2019	2020	2021
Net cash receipts from (payments in) operating activities	8,703.24	9,237.64	7,798.13
Net cash payments in investing activities	(14,834.44)	(14,195.54)	(5,940.59)
Net cash receipts from (payments in) financing activities	10,723.13	(2,140.88)	(1,810.06)
Increase (decrease) of net cash	4,591.93	(7,098.78)	47.48
Cash and cash equivalents at beginning of year	5,478.57	10,028.95	2,950.67
Currency transaction differences	(41.55)	20.50	(71.17)
Cash and cash equivalents at ending of year	10,028.95	2,950.67	2,926.97

Factors that may impact Future Operations (Forward Looking)

Energy Absolute Public Company (“the Company”) Limited identified the significant factors that may affect the operations of the organization in the future, including key stakeholders both internal and external aspects, as well as risk and positive and negative impact on people and planet arising from business operations and the value chain for sustainable development, covering Environmental, Social and Governance Dimensions (ESG). Moreover, the Company has integrated the sustainable development goals as part of the corporate strategic planning to support for capacity strengthening of the

management of material risks and costs, minimize the negative impacts, creation and access to new markets, and creating innovations in business models making them more efficient therefore reinforce the viability of the Company in the long term.

In 2021, the Company has given importance to the issue of climate change which is already affecting our world today including, environmental issues, air pollution, and global warming such as severe weather, drought, floods and other disasters. Hence, the Company invested in a lithium-ion battery factory and energy storage system to increase efficiency in the country's electricity generation and distribution system, serving to all types of electric vehicle industry which in line with the government's promotion of new S-curve industry. Beside the electric vehicle producer, the Company also develop the energy storage systems for renewable energy power plants to reduce the fluctuation of electricity and create more stable power supply and supports the increase in the proportion of renewable energy power plants in the future toward energy sustainability especially, reduce air pollution and seeks to limit global warming, the most critical goal of COP26. EA has a plan to develop Thailand as an EV production hub for the ASEAN region (ASEAN BEV HUB) by producing the battery as an essential part in the development of commercial electric vehicles for example, "MINE Bus", "MINE Smart Ferry", Truck and Charging Station under name "EA Anywhere".

In addition, the Company has a strategy to drive the public transportation systems to become modern, comfortable, and help reduce pollution sustainably along with drive the country towards a low-carbon society. The Company has been relentlessly determined to drive our sustainability operations in term of create job opportunities for the Thai people, help improve the quality of life to have a better income and well-being, help Thailand overcome the "middle-income trap, moving toward becoming a high- income economy. This will raise GDP per capita and promote inclusive and sustainable economic growth according to the country definitions.

Key Financial Information

Result of operations of the Company and its subsidiaries	Consolidated/Audited			
	For the year ended 31 Dec 20		For the year ended 31 Dec 21	
	Million Baht	Percentage %	Million Baht	Percentage %
Revenue from operating	17,079.56	100	20,173.81	100
Cost of sales and services	(9,271.42)	(54.28)	(11,893.35)	(58.95)
Gross profit	7,808.14	45.72	8,280.46	41.04
Selling expenses	(79.84)	(0.47)	(71.84)	(0.36)
Administrative expenses	(1,198.58)	(7.02)	(1,365.49)	(6.77)
Other revenue from operating	119.59	0.70	384.29	1.90
Profit before interest and tax	6,649.31	38.93	7,227.42	35.83
Finance cost	(1,636.80)	(9.58)	(1,387.54)	(6.88)
Share of gains (losses) from investments in associates and joint ventures, net	(61.05)	(0.36)	13.55	0.07
Income tax	18.22	0.11	(3.35)	(0.02)
Profit before currency exchange rate and special items	4,969.68	29.10	5,850.08	29.00

Result of operations of the Company and its subsidiaries	Consolidated/Audited			
	For the year ended 31 Dec 20		For the year ended 31 Dec 21	
	Million Baht	Percentage %	Million Baht	Percentage %
Currency exchange gains (losses), net	9.77	0.06	65.92	0.33
Gain (losses) on measurement of derivatives	67.93	0.40	13.36	0.07
Net Profit for the year	5,047.38	29.55	5,929.36	29.39
Depreciation and amortization	2,730.38	15.99	2,767.97	13.72
Profit before interest, income tax, depreciation and amortization	9,396.34	55.01	10,088.21	50.00
Profit attributable to:				
Owners of the parent	5,204.57	30.47	6,100.07	30.24
Non-controlling interests	(157.18)	(0.92)	(170.72)	(0.85)

Summary of Key Financial Ratios

Key Financial Ratios		Year 2019	Year 2020	Year 2021
Current ratio	Times	2.31	0.54	0.92
Quick ratio	Times	2.09	0.42	0.52
Operating Cash flow ratio	Times	0.94	0.94	0.59
Account Receivable Turnover	Times	6.90	6.31	6.26
Average Collection Period	Days	52.92	57.87	58.26
Inventory Turnover	Times	12.42	11.65	10.27
Average Sale Period	Days	29.40	31.32	35.55
Account Payable Turnover	Times	31.01	28.19	32.54
Average Payment Period	Days	11.77	12.95	11.22
Cash cycle	Days	70.54	76.24	82.59
Profitability Ratios				
Gross profit margin	%	54.64	45.72	41.05
Operating profit margin	%	49.82	39.39	36.23
Cash to profit margin	%	117.35	137.32	106.73
Net profit margin	%	40.48	29.55	29.40
Return on equity	%	29.19	20.34	20.23
Efficiency ratios				
Return on assets	%	11.44	8.97	8.93
Return on fixed assets	%	14.96	12.43	12.81
Asset turnover	Times	0.23	0.23	0.25
Leverage Ratios or Financial Ratios				
Debt to equity ratio	Times	1.82	1.65	1.44
Interest coverage ratio	Times	8.07	6.13	7.67
Dividend payout ratio	%	15.47	22.17	18.87

5. General and other important information

5.1 General information

Company Name : Energy Absolute Public Company Limited

Security Name : EA

Company Registration Number : 0107551000061

Head Office : No. 89 AIA Capital Center Building, 16th Floor, Ratchadapisek Road, Din Daeng Sub-district, Din Daeng District, Bangkok 10400

Tel : +66 2248 2488-92, +66 2002 3667-9

Fax: +66 2248 2493

Website : www.energyabsolute.co.th

: Corporate Communications Department

Tel : +66 2248 2488-92, +66 2002 3667-9 # 19531 **Fax** : +66 2248 2493

Email : ir@energyabsolute.co.th

Nature of Business : 1) **Biodiesel Business (through the Company and Subsidiaries)**

- Produces and Distributes biodiesel (B100), purified glycerin and byproducts
- Produces and Distributes Phase Change Material (PCM)

2) **Renewable Power Plant Business (through Subsidiaries)**

- Produces and Distributes solar electric power
- Produces and Distributes wind electric power

3) **Electric Vehicle and Energy Storage System (through Subsidiaries)**

- Develop, Produces and Distributes of batteries
- Electric Charging Station Business (for electric vehicle)
- Electric Vehicle

4) **Other Businesses (through Subsidiaries)**

- Batteries, Electric Vehicles and Electronic Products Testing Center
- Research and Development Business
- Others

Registered Capital : THB 373,000,000.- (3,730,000,000 ordinary shares, with a par value of THB 0.10 per share)

Paid-up Capital : THB 373,000,000.- (3,730,000,000 ordinary shares, with a par value of THB 0.10 per share)
(as of December 31, 2021)

Plant Location / Project Office

Biodiesel Business

- **Biodiesel (B100), Purified Glycerin and Byproducts Plant**

Project Office / Project Location:

507, Moo 9, Soi 7, Kabinburi Industrial Estate,
Kabin Buri - Nakhon Ratchasima Road, Km.12,
Nong Ki Sub-district, Kabin Buri District,
Prachin Buri Province 25110

- **Phase Change Material (PCM) Plant:**

Project Office / Project Location:

WHA Eastern Industrial Estate (Map Ta Phut), 88, Soi G5,
Pakorn Songkrohraj Road, Map Ta Phut Sub-district,
Muang Rayong District, Rayong Province 21150

Renewable Power Plant Business

- **Solar Power Plant 8 megawatts /**
Lopburi Province
Project Office / Project Location:
188, 188/2, Moo 3, Khok Tum - Pa Sak River Road (Highway No. 3333) Km.21, Phatthana Nikhom Sub-district, Phatthana Nikhom District, Lop Buri Province 15140
- **Solar Power Plant 90 megawatts /**
Nakhon Sawan Province
Project Office / Project Location:
99/9, 99/10, Moo 5, Huawai Sub-District, Takhli District, Nakhon Sawan Province 60140
- **Solar Power Plant 90 megawatts /**
Lampang Province
Project Office:
333, Moo 1, Ban-uam Sub-district, Mueang Lampang District, Lampang Province 52100
Project Location:
Located at Ban-uam Sub-district, Ban-Pao District, Mueang Lampang District and Nonglom Sub-district, Hangchat District, Lampang Province
- **Solar Power Plant 90 megawatts /**
Phitsanulok Province
Project Office / Project Location:
88, Moo 11, Matong Sub-district, Phrom Phiram District, Phitsanulok Province 65180
- **Wind Power Plant 126 megawatts /**
Nakhon Si Thammarat and Songkhla province
Project Office:
212, Moo 2, Hua Sai Sub-district, Hua Sai District, Nakhon Sithammarat Province 80170
Project Location: Located at Hua Sai District, Pak Panang District, Nakhon Si Thammarat Province and Ranot District, Songkhla Province
- **Wind Power Plant 260 megawatts /**
Chaiyaphum province
Project Office:
8/8, Moo 8, Tako Thong Sub-district, Sap Yai District, Chaiyaphum Province 36130
Project Location:
Located at Thep Sathit District, Nong Bua Ra haew District and Bamnet Narong District, Chaiyaphum Province

Electric Vehicle and Energy Storage System Business

- **Development, manufacturing and distribution of Batteries Plant**
Project Office / Project Location:
88/9, Moo 7, Khao Din Sub-district, Bangpakong District, Chachoengsao Province and 8/8, Moo 1, Khlong Prawet Sub-district, Ban Po District, Chachoengsao Province
- **Manufacturing of Electric Vehicle Plant**
Project Office / Project Location:
8/18, Moo 1, Khlong Prawet Sub-district, Ban Po District, Chachoengsao Province and 8/8, Moo 1, Khlong Prawet Sub-district, Ban Pho District, Chachoengsao Province

Other References

Securities Registrar

Name : Thailand Securities Depository Company Limited (TSD)

Location : The Stock Exchange of Thailand Building

93 Ratchadaphisek Road, Din Daeng Sub-district,

Din Daeng District Bangkok 10400

Telephone : +66 2009 9999

Website : www.set.or.th/tsd

E-mail : SETContactCenter@set.or.th

Debenture Registrar / Debenture Holders Representative

1) Debentures Nos. 1-3/2019 (Tranche 1, 2, 3)

Debenture Registrar

Name : Bank of Ayudhya Public Company Limited

Location : Head Office No. 1222, Rama 3 Road,

Bang Phong Pang Sub-district,

Yan Nawa District, Bangkok 10120

Debenture Holder Representative

Name : Kiatnakin Phatra Bank Public Company Limited

Location : Head Office No. 209 KKP Tower, Sukhumvit21

(Asoke), Khlong Toey Nua, Watthana,

Bangkok 10110

2) Debentures Nos. 1-3/2020 (Tranche 1, 2, 3)

Debenture Registrar

Name : Kasikorn Thai Bank Public Company Limited

Location : Head Officer No. 1 Soi Rat Burana 27/1,

Rat Burana Road, Rat Burana Sub-district,

Rat Burana District, Bangkok 10140

Debenture Holder Representative

Name : Kiatnakin Phatra Bank Public Company Limited

Location : Head Office No. 209 KKP Tower, Sukhumvit21

(Asoke), Khlong Toey Nua, Watthana,

Bangkok 10110

Audit Firm

Name : 1) Miss Amornrat Permpoonwattanasook

Certified Public Accountant Registration No. 4599

2) Mr. Boonrueng Lerdwiseswit

Certified Public Accountant Registration No. 6552

3) . Ms. Rodjanart Banyatananusard

Certified Public Accountant Registration No. 8435

PricewaterhouseCoopers ABAS Company Limited

Location : Bangkok City Tower, 15th Floor, No. 179/74-80,

South Sathorn Road, Thung Maha Mek Sub-district,

Sathon District, Bangkok 10120

Tel : +66 2344 1000, +66 2824 5000

Fax : +66 286 5050

Legal Consultant

Name : S.C. Law Office Company Limited

Location : 90/42, 16th Floor, Sathorn Thani Building, North

Sathorn Road, Silom Sub-district, Bangrak District,

Bangkok 10500

Tel : +66 2696 9696-97

Fax : +66 296 9698

5.2 Other Information

The Company has been granted by the Securities and Exchange Commission (SEC) for issuance and offering the debentures. (Refer to 1.5 “Other Securities”)

5.3 Legal Disputes

No cases related to the Company and its subsidiaries as follows:

- No cases that may have a negative impact on the assets of the Company or its subsidiaries which is higher 5% of shareholder’s equity as at the 2021 year-end.
- No cases which significantly affect the business operations of the Company or its subsidiaries.
- No cases that do not arise from normal business operations of the Company or its subsidiaries.

5.4 Secondary Market

-None-

5.5 Regularly Contacted Financial Institutions

Bank of Ayudhya Public Company Limited

No. 1222, Rama 3 Road
Bang Phong Pang Sub-district,
Yan Nawa District, Bangkok 10120

Kiatnakin Phatra Bank Public Company Limited

No. 209 KKP Tower
Sukhumvit 21 (Asoke) , Khlong Toey Nua Sub-district
Wattana District, Bangkok 10110

Kasikorn Thai Bank Public Company Limited

No. 1 Soi Rat Burana 27/1,
Rat Burana Road, Rat Burana Sub-district,
Rat Burana District, Bangkok 10140

Siam Commercial Bank Public Company Limited

No. 9 Ratchadapisek Road
Jatujak Sub-district, Bangkok 10900



Corporate Governance

Section 2: Corporate Governance

6. Good Corporate Governance Policy

6.1 Corporate Governance Policy and Guidelines

Good Corporate Governance Policy

The Board of Directors understands the importance of implementing “Good Corporate Governance 2017” as announced by Stock Exchange of Thailand, and therefore, implemented such Good Corporate Governance as a guideline to enable effective and transparent management which will ensure trust and confidence among shareholders, investors, stakeholders and all related parties.

The Board of Directors defined “Company Manual” which consists of organizational culture (Vision, Mission, Values), Code of Business Ethics, Code of Conduct for Directors, Management and Employees, Corporate Governance, Social Responsibility and Anti-Corruption policy in writing for Directors, Management and all Employees to acknowledge, understand and strictly adhere to the policy and there are measures to monitor compliance with the policy. The Board of Directors assigned Directors, Management and Employees must comply with the policy. The Board of Directors also encourages to publish Company Manual to stakeholders and every related person as well as distribution on the Company’s website and reviewed annually.

The Board of Directors set forth the corporate governance policy that all level has to adhere to as guideline and has assigned the Corporate Governance Committee to govern and ascertain the Company’s corporate governance in compliance with standard performance including with operational assessment and practical enhancement in accordance with the Good Corporate Governance for listed companies amended B.E. 2560 of the Stock Exchange of Thailand (SET). Good Corporate Governance is divided into 5 categories as following details:

1. Rights of Shareholders
2. Equal treatment to shareholders
3. Roles of stakeholder
4. Information disclosure and transparency
5. Responsibilities of the Board of Directors

Policy and Guidelines for the Board of Directors

The Board of Directors plays an important role in corporate governance for the best interest of the Company. The Board of Directors responsible for performance of duties to shareholders and independent from management.

Structure of the Board of Directors

- The Board of Directors consists of at least 5 directors but not more than 15 directors, and at least half of the directors must have residence in Thailand.
- The Board of Directors consists of independent directors at least one-third (1/3) of the total number of directors and/or not less than 3 independent directors.

- The Chairman of the Board of Directors and the Chief Executive Officer must not be the same person for segregation of duties and responsibilities and balance of the power.
- Structure of the Board of Directors as of December 31, 2021, comprises of 11 members which having directors with diversified qualifications in terms of skills, experiences, and specific talents that benefits to the Company including Directors with knowledge and experience in engineering, accounting, finance, banking, law, management.
- The Board of Directors has independent directors as specified by the SEC which able to be independent in giving opinions.
- Term and number of years of the Board of Directors in the position of director of the Company according to the Company's regulations specified the number of years in each position of the Board of Directors shall be in accordance with the Public Limited Companies Act. At every Annual General Meeting of Shareholders, one-third of the Directors, or, if their number is not a multiple of three, then the number nearest to one-third, must retire. The directors retiring in the first and second years following the registration of the Company shall be drawn by lots. In every subsequent year, the directors who have been longest in the board shall retire. However, the retiring directors may be re-elected.
- The Company has specified the qualifications of the person who will be "Independent Directors" so that the independent directors of the Company are truly independent in accordance with the regulations of the SEC and SET. The definition / qualifications of independent directors of the Company more than to the definition of independent directors of the SEC and SET.
- The Chairman of the Board of Directors and Chief Executive Officer has clearly separated roles and responsibilities between the Board of Directors and management. The director is responsible for policy making and overseeing the management's operations at the policy level, while the management manages various tasks to be in accordance with the specified policy.
- Therefore, the Chairman of the Board of Directors and Chief Executive Officer is a different person and the Chairman of the Board of Director is not an executive director and not being a chairman or member in any sub-committees. Furthermore, the duties of the sub-committees are truly independent and not participate in the management of the Company as well as having no authorization to sign for binding the Company. This is to separate the duties between the policy oversight of the Company and management of the Company.
- Determination of the number of listed companies in which the directors will be appointed as directors, the Board of Directors is aware of the Good Corporate Governance in relation to the number of listed companies which the directors will be appointed as directors. Therefore, the beneficial contribution from the directors being able to devote their time to perform their duties efficiently. There is no director in the company that takes a position more than other 4 listed companies.
- The Board of Directors appointed the Nomination and Remuneration Committee in order to select the directors of the Company and senior management by going through the process and procedures and guidelines definitions and terms of the Company and related rules.
- The Board of Directors appointed the Company Secretary who has legal knowledge, experience and passed the Company Secretary Program from the Thai Institute of Directors Association.

Meeting of the Board of Directors

- The meeting of the Board of Directors is held at least 3 months for a meeting, with advance schedule of total meeting per annum. Meeting with special agenda may be held as necessary.
 - Not less than half (1/2) of the total directors attending the meeting shall constitute the quorum.
 - To call for the Board of Directors meeting, the Chairman or the person assigned to do so shall send the notice of the meeting and meeting document to all directors not less than (7) days prior the meeting date. (except for the urgent case and in order to protect the interest of the Company, the notification by other methods and set the meeting date earlier than that shall be allowed)
 - The Chairman of the Board of Directors should allocate appropriate time to enable directors to discuss important matters in each agenda.
 - The meeting of the Board of Directors will be held at least once a year with no executive or management members attending the meeting in order to open the opportunity to discuss various issues concerning the business operation of the Company or the subject in the interest. The Chief Executive Officer will be reported for acknowledgement of the meeting result.
 - The Company sets the meeting schedule and the main agenda of the Board of Directors' meeting and sub-committees meeting for the whole year in advance and notifies each director of the schedule. Therefore, the directors can arrange the time and attend the meeting.
 - The Board of Directors organized regular meetings in order to be informed and to jointly decide in the Company's business operations. The meeting agenda is clearly set in advance and there may be additional special meetings to consider important matters urgently. In the year 2021, the Company held 8 Board of Directors' meetings, which consist of 5 quarterly meetings, and 2 special meetings. In each Board of Directors' meeting, sufficient time is allocated for management and those involved will provide information and sufficient time for the directors to carefully consider the important information. In every Board of Directors' meeting, the Chairman of the Board asked all directors to exercise discretion carefully including freely expressing opinions voting at a meeting of the Board of Directors shall be made by a majority vote in which one director has one vote. If the votes are equal, the Chairman of the meeting will have an additional vote as the deciding vote. In each Board of Director's meeting, a meeting document is sent to the directors in advance in order to have sufficient time to study the information. In considering various matters, the Chairman of the Board which chaired the meeting gave the directors an opportunity to express their opinions appropriately.
- The Board of Directors' meeting organized a meeting between non-executive directors without management participation in the Board of Directors' meeting no. 3/2021, held on July 9, 2021, which considered 1. Personnel management (succession plan) 2. Business overview of Charging Station 3. Preparation of the Company group when technology changed.
- In considering matters as the agenda of the Board of Directors' meeting, the Chief Executive Officer / Vice President Executive Officer, is responsible for proposing matters to the Chairman of the Board of Directors in order to consider the matter as the agenda of the Board of Directors' meeting.

- The Board of Directors opened the opportunity and invited top executives to join the Board of Directors' meeting to provide more detailed information as directly related to the information and to have an opportunity to get to know senior executives for consideration of a succession plan.
- The Board of Directors assigns to the audit committee, which are all Independent Directors, to have a meeting at least once a year to discuss various issues about management that is of interest without the management team together and notify to the Chief Executive Officer.

Roles and Responsibilities of Chairman of the Board

- The Chairman of the Board is responsible for overseeing the use of policies and strategic operational guidelines of the management including providing advice and supporting the business operations of the management but not participate in the routine management of the Company.
- The Chairman of the Board acts as the Chairman of the Board of Directors' meeting and the shareholders' meeting and to encourage all directors to participate in the meeting as well as overseeing that the Board of Directors and shareholders' meetings are conducted effectively and successfully.
- Responsible as the leader of the Board of Directors in monitoring, supervising the Executive Committee and other sub-committees to achieve the objectives.
- Being the Chairman of the Board of Directors' Meeting and being the Chairman of the shareholders' meeting.
- Being a casting vote in the event that there are two equal votes in the Board of Directors' meeting.

The Company Secretary

The Board of Directors appointed the Corporate Secretary pursuant to Section 89/15 of the Securities and Exchange Act. B.E. 2535 and the amendment, to prepare and maintain important documents of the Company which are Registration of the Board of Directors, Invitation to the Board of Directors' meeting, minutes of the Board of Directors' meeting, Company's Annual Reports, Invitation to the shareholders' meeting, minutes of the shareholders' meeting, report of interest by the directors or executives, including any other matters as notified by the SEC regarding the applicable law of Securities and Stock Exchange.

Performance evaluation of the Board of Directors and Sub-Committees

The Company conducts a self-assessment of the board of directors and sub-committees related to good corporate governance according to the board self-assessment form issued by the Stock Exchange of Thailand by conducting an evaluation form for both collectively and individually at least once a year. The Board of Directors jointly set criteria for self-assessment of the performance of both the collectively and individually. Self-Assessment is required to be conducted annually and the Board of Directors will jointly consider the evaluation results to determine ways to improve work.

Evaluation form for the entire Board of Directors

1. Evaluation form for the entire Board of Directors is comprised of 6 topics:
 - 1) Structure and qualification of the Board of Directors
 - 2) The meeting of the Board
 - 3) Roles, duties and responsibilities of the Board of Directors
 - 4) Performance of Directors' duties
 - 5) Relationship with the management
 - 6) Self-development of directors and executives development
2. Individual Evaluation form for the individual Board of Directors is comprised of 3 topics:
 - 1) Structure and qualification of the Board of Directors
 - 2) The meeting of the Board
 - 3) Roles, duties and responsibilities of the Committee

Evaluation assessment form for the sub-committees:

1. The criteria of assessment form for the entire sub-committees is comprised of 3 topics
 - 1) Structure and qualifications of the Committee.
 - 2) The meeting of the Committee.
 - 3) Roles, duties and responsibilities of the sub-committee.

The Audit Committee brings the assessment form from the guideline of the SEC to be complied with the Company's assessment by adding the general responsibilities and specific duties of the Audit Committee.

2. Individual Evaluation Form for sub-committees is comprised of 3 topics:
 - 1) Structure and qualifications of the Committee.
 - 2) Roles, duties and responsibilities of the sub-committee.
 - 3) The meeting of the Committee.

The criteria for scoring at each level are as follows.

90 – 100 percent	= Excellent
80 – 89 percent	= Very Good
70 – 79 percent	= Good
Below 69 percent	= Fair

Remuneration of the Board of Directors and CEO

The Nomination and Remuneration committee has duty to determine directors' remuneration policy and criteria and present to the Board for consideration and propose to the shareholders for approval. The remuneration is considered with appropriateness and consistent to the responsibility and contribution from each director.

In addition to the remuneration of the Board of Directors, the company also takes into account the increased responsibilities from having more sub-committees which the Board of Directors proposed to the shareholders' meeting to approve the remuneration of the sub-committees. For the compensation of the Chief Executive Officer, will go through the process of consideration by the Nomination and Remuneration committee before propose to the board of directors for approval

The criteria to determine the remuneration are as follows:

1. Remuneration of the Board of Directors comprises of the monthly remuneration because the Company considers that the duties and responsibilities of directors are at all the time during their directors' term;
2. Remuneration of Sub-Committees shall be the attendance meeting fees for which this remuneration shall be proposed and obtain the approval from shareholders' meeting as the budget every year. Each sub-committee will set their working plan for the year as assigned by the board of directors;
3. Annual award or bonus for the Company's Directors is proposed as budget for shareholders meeting approval in advance. The bonus budget is considered from overall performance of the Company. However, the Board of Directors also conducts the self-assessment both of the whole board and each of director as well before paying such bonus;
4. Remuneration of CEO consists of salary and bonus, the Nomination and Remuneration Committee considers and set KPI of Chief Executive Office according to goal and planning of the Company and as per assignment from the Board of Director. The evaluation, in comparing with the Key Performance Indicator (KPI) and remuneration of CEO of the company in the same size and sector of the Company, is conducted at the end of the year. The remuneration of CEO is proposed to the Board of Directors for approval.

Succession Plan

The Board of Directors formulates the succession plan of Chief executive officer and top executives to ensure the confidence among shareholder, investors, organizations and employees for business continuity. The succession plan is reviewed on annual basis.

• Succession Plan Policy

The succession plan is executed with transparency and adequacy to ensure that the Company will have professional and high potential executive. The details of succession plan are as follows:

1) Chairman of Executive Committee or equivalent position

Once the Chairman of the Executive Committee or equivalent position becomes vacant or unable to perform duties, the Company may assign the duties to other executive in the similar or lower position as an acting person until the qualified person will be elected. The person elected to replace the vacant position should have great vision, competent knowledge and skills as well as an experience which suit to the culture of organization. In the event that the Chief Executive Officer is vacant, the Nomination and Remuneration Committee will consider the qualifications of persons nominated for the position of Chief Executive Officer and propose to the Board of Directors to approve the appointment.

2) Executive Level

Once the executive position ranked from director upward, becomes vacant or person holding such position is unable to perform duties, the Company may propose the elected successor to the Board of Executive Committee. The consideration procedures are as follows:

- Analyze the business operation, strategy, policy, investment plan, expansion plan, and evaluation of personnel readiness to be consistent with both short-term and long-term strategy of the Company.
- Formulate plan to prepare readiness of personnel by improving existing personnel to nominating for new replacement.
- Formulate recruitment program, employee training and development prior to the retirement or early resignation.
- Determine the competency, which is knowledge, skill, personality and desirable attitude of the particular position, as well as to formulate development plan for individual person (Individual Development Plan).
- Select, evaluate on performance and competency of the applicant.
- Conduct testing and evaluating of applicant to analyze their competency.
- Specify the successor based on the evaluation, analysis of competency and performance, as well as advance notice to the applicant in to be prepared for handover and knowledge transfer, and to specify the alternative successor.
- Develop and evaluate applicant is expected to be successor to see career development and potential to achieve target, applicant who not meet the requirement will be replaced.

Training and Development for Directors

Directors Orientation

Newly appointed director will be given company overview, regulations and business information relate to his duties. The company secretary is assigned to provide the information of the organization structure, nature of business, business structure of the Group Company, regulations, the article of association of the Company, Code of Conduct consisting of corporate culture, business ethics, code of conduct for directors, executives and employees, Good Corporate Governance, and anti-corruption policy, for the directors to understand the business of the Company and related regulations.

The Company also provides opportunity of skills development of directors through continual training courses to support directors to perform their duties with full efficiency and effectiveness.

The Control of the subsidiaries and associates

- 1) Mechanism to control and manage work performance of the subsidiaries and associates to control and oversee work operation of the subsidiaries, the Company sends its representative to undertake different position such as director, executive or controlling party in the subsidiaries and associates in proportion of shareholding. The duty of such representatives is to ensure the best performance of the subsidiaries and associates. Moreover, the representatives must ensure that the subsidiaries and associates has regulations of connected transactions or acquisition or disposal of the assets or any significant transaction to be accurate, apply criteria related to information disclosure and transaction

mentioned above to be in line with the regulations of the Company, to ensure the information storage and accounting record of the subsidiaries and associates can be reviewed and collected to enable delivering financial statement in timely manner.

- 2) The agreement between the Company and other shareholders in management of subsidiaries and associated (shareholder's agreement): The Company has no agreement with other shareholders in management of subsidiaries and associates.

Policy for holding director other companies of the Board of Director and CEO Policy

- 1) Holding position as a director in the maximum of 5 listed companies, including EA, and not in any competing business of the Company.
- 2) The board determines CEO can hold director position in 1) other companies but not the listed company 2) nonprofit organization. However, holding such position should not affect the CEO's exercise of its duties and responsibilities and not give rise to conflicts of interest.

Policy and Guideline relevant to shareholders and Stakeholders

Rights of shareholders:

The Company emphasizes and enhances the exercising of all shareholders right and protects all shareholders right as follows:

1) Rights of shareholders

- Right of holding Company's shares;
- Right to acquire, dispose and transfer the shares;
- Right to acknowledge complete information and news related to the Company;
- Right to attend and vote in the shareholders' meeting;
- Right to appoint or dismiss the Company's directors;
- Right to receive dividend from the Company;
- Right to take part in making decision and acknowledge the decision of the Company concerning changes of internal infrastructure which are
 - (1) Disposal or transfer the Company as a whole or important part to other persons;
 - (2) Acquisition or receive business of other companies or private companies under ownership of the Company;
 - (3) Covenant, amend or terminate of agreements concerning all leasing business of the Company, as a whole or important part, delegate other person to operate the Company's business, or consolidate with other person with intention to share the profit/ loss;
 - (4) Change details in memorandum of association or articles of association or other regulations of the same nature;
 - (5) Increase or reduce the Company's capital;
 - (6) Merge or liquidation of the Company;
 - (7) Issue debenture;

- (8) Execute other special transactions which are not normal transaction
- Right to propose matter as the agenda in the general meeting of shareholders
- Right to propose a person as a director of the Company in the shareholders' meeting.

2) The shareholders' meeting.

Shareholders including institutional investors have right to attend and vote in Shareholders' meeting with equal treatment. The Company shall refrain from any action that may limit the right to access the Company's information or to attend the meeting. The Company undertakes procedures regarding each meeting as follows:

- The 2021 general meeting of shareholders was scheduled to be held on April 23, 2021 at 14:00 hrs. at Vibhavadee Ballroom, Centara Grand at Central Plaza Ladprao, Bangkok. However, due to the wide and intense spread of the COVID-19 pandemic, the Company switched to organize the meeting electronically (E-AGM) with live broadcast from the conference room of the Company located at No. 89, 16th Floor, AIA Capital Center Building, Ratchadaphisek Road, Din Daeng district, Din Daeng sub-district, Bangkok 10400.

The meeting was held in compliance with the Emergency Decree on Electronic Meetings B.E. 2563 (2020) as well as the relevant laws and the guidelines under the AGM Checklist of the Thai Investors Association, Thai Listed Companies Association and the SEC.

- The Company provides notice of meeting with all necessary information and timely manner such as date, time, location and an agenda of the meeting, including supporting documents for each agenda in prior to the meeting date to allow shareholders to study supporting information for their vote, without additional agenda other than specified in the notice of the meeting or changes of important information without prior notice to the shareholders.
- The Company publicizes invitation to the Annual General Meeting of Shareholders including relevant enclosures and make it available on the Company's website at www.energyabsolute.co.th in both Thai and English version not less than 30 days prior to the meeting date and sent by registered mail in advance at least 7 days prior to the meeting which requires ordinary resolution and 14 days prior to the meeting which requires special resolution.

Furthermore, the Company clearly specifies the shareholder's rights to attend meeting, voting rights, proxy for shareholders, and proxy forms, the profile of the Independent director to act as proxy of shareholder, requirement for attending the E-AGM are indicated in the notice of AGM.

The annual general meeting of shareholders 2021, the Company sent the invitation letter 22 days and made it available on the Company's website 31 days prior to the date of meeting to provide shareholders an opportunity to study the key information.

- The Company acknowledges rules and regulations of the shareholder's meeting as well as voting procedure to be clearly stated in the notice of the meeting and inform to shareholder in the meeting.

- The Company allows shareholders to propose agenda to the meeting, propose a list of candidates of director position and send the related questions in advance in respect to AGM as well as name and contact details to the company prior to the meeting date through following methods:

Energy Absolute Public Company Limited.

Attention to: Company Secretary

16th Floor, AIA Capital Center Building, 89 Ratchadaphisek Road, Din Daeng sub-district,

Din Daeng district, Bangkok 10400

Tel : 0 2248 2488-92, 0 2002 3667-9 (Ext.19131, 19133)

Fax : 0 2248 2493

- The Company determines criteria and pattern to enable minor shareholders to propose a list of candidates for nomination of director position as well as to approve the list of proposed candidates. The proposal is opened for 3 months prior to the date of the shareholders' meeting when the Nomination Committee will consider the pattern for proposing list of candidates for director position.
- The Company stipulates the criteria to enable shareholders to propose agenda to the meeting prior to the date of the shareholders' meeting by informing through the Stock Exchange of Thailand of which the form can be downloaded from the Company's website. For the AGM 2021, the Company had invited shareholders to propose agenda in advance and propose the qualified person to be elected as director of the Company and send their questions from 1 October 2020 to 15 January 2021 (*for the Annual General Meeting of Shareholder 2022, the Company determined to be proposed of name list for consideration propose agenda including sending their questions from 1 October 2021 - 15 January 2022*) for the purpose of transparency and fairness. For AGM 2021, this attracted no recommendation of such agenda items or nomination of director.
- The shareholders can enquire, express their opinion and ask for clarification from the Board of Directors, sub-committee or the Management in regard to meeting agenda, policy, operation result, annual audit result from the independent auditor, remuneration policy of the directors and executives or other related matters.
- In the event that the shareholder is unable to attend the meeting, he/she can use proxy. The shareholders to be allowed to appoint an independent director or other person as considered an appropriate as well as their proxy on which he/she can specify their vote. Appointment of the proxy document must be clearly specified in invitation. In 2021, the Company has implemented online application allowing shareholders to watch the live shareholders' meeting online whereas the manual to watch live is also available on the Company's website.
- For the election of directors, the Company has enabling shareholders to vote each director individually to select a qualified representative to be a director in order to oversee the interests of shareholders and separated ballots individually by collecting all voting papers, whether agreed, disagreed or abstained.
- The Company held meetings in a timely manner, and support shareholders to fully express their opinion and ask for more information.

- The Company encourages directors, executives and auditors to attend the meeting for the benefit of answering questions of the shareholders. In the AGM 2021, the Chairman of the Board of Director, Chairman of the Audit Committee, Chairman of the Executive Committee and Chairman of other committees such as Chairman of the Nomination and Remuneration Committee, Chairman of the Corporate Governance and Sustainability Committee, Chairman of the Risk Management Committees and Chairman of the Strategic Planning Committee as well as the Chief Executive Officer and Deputy Chief Executive Officer, all abovementioned management attended the AGM.
- In the meeting date, the registration is performed through Barcode system to facilitate shareholders at best convenience.
- The Company Secretary provided minutes of meetings with accurate, complete and clear details and submitted to SET, SEC as well as disseminated through the Company website within 14 days after the date of meeting.

Equal treatment to shareholders:

All shareholders, investors, institutional investors both within the country and abroad, received equal treatment as specified in the Right of Shareholder Section. The Company has stipulated the policy to protect right of shareholders to ensure that everyone is being treated equally and fairly. Details appear in the corporate governance published on the Company's website.

Roles of stakeholders

The Company supports to conduct of business based on fairness and shared benefit between the Company and stakeholders. All related policies and measures are set forth as follows:

1) Treatment to stakeholders Policy: Stakeholders of the Company are categorized as follows:

- **Shareholders:** The Company determines to create quality and stable business growth for the full and sustainable benefit of the shareholders based on the effective work performance, excellent turnover, equal access to necessary information, disclosure of actual information, conducting business with honesty, integrity, transparency and fairness.
- **Customers:** The Company provides excellent service system to ensure that all customers receive appropriate response and complete, accurate information as required. The Company also has survey forms to take customers feedback as a guideline for continual improvement and development. The practice guideline to customers and product quality/ marketing communication are as follows:
 1. Advertise products and services of the Company based on the fact, refrain from misleading, against morality and culture, and does not cause the conflict to society.
 2. Deliver products and service in accordance with the agreement made with customers.
 3. Maintain its standards, product/service quality to ensure confidence and satisfaction among customers.
 4. Willing to listen to claim from customers and take immediate action to improve. In case such improvement is limited or require longer period of time, the issue must be noticed to customer. Furthermore, status of the procedure must be reported to customers within timely manner from time to time.
 5. Not require for money, material or any benefit which indicate unfaithful action from customers.

- **Partner:** The Company continues to treat its partner whom deemed as business partner with equity and based on the mutual benefit, develop and maintain long-term relationship with partner, while creating trust between each other. The Company has complied with the procurement regulations which the procedures and practice guides are clearly stated. Treatment to contract parties (partner and creditors):
 1. Strictly comply with the conditions, terms or contract strictly, in case of non-compliance, promptly notify/negotiate with the contract party to find the solution and mitigate the damage with fairness.
 2. Procure transparently. Preceding the procurement with transparency, equally, accurately, clearly, completely, fairly and verifiably treat all stakeholders.
 3. Procure from entrepreneurs who comply with laws that are not or do not benefit from labor or production process which is unlawful and immoral.
 4. Take into account the quality, safety of purchased goods and services which may affect the health of users, employees, communities, society and environment.
 5. Not use the information obtained from the procurement operation for private benefit or other people who are not involved.
 6. Negotiate and enter into a contract with fairness, not taking advantage over the contract party by considering reputation and image of the Company.
- **Creditors:** The Company strictly adheres to the creditors' conditions, controls the repayment of the load and interest to all types of debtors, fully meets the term and conditions of the loan agreement in full.
- **Employees:** The Company treats its employees with fairness and appropriate manner in term of opportunity and compensation, appointment, transfer, skill development and safe working condition. The Company welcomes any opinion and suggestions from employees and treats everyone with fairness and equality.
- **Competitors:** The Company determines to conduct business under fair competition environment, not seeking competitor's confidential information dishonestly or inappropriately, not executing any action that violates their intellectual property. The practice guideline to competitors is stipulated as follow:
 1. Refrain from damaging reputation of competitors by accusing in negative way;
 2. Refrain from seeking information, trade secret of competitors by dishonest method;
 3. Support fair competition and adhere to the competition rules strictly;
 4. Not enter into any agreement with competitors or any person which reduce or limit them competitiveness;
 5. Consider the equality and honesty in conduct of business and mutual benefit with the trading partners;
 6. Conduct business with morality
- **Community, Society, Environment, Health and Safety:** The Company maintains its participation in society by complying with the law and/or approved regulations, coordinates with government authorities, ensures that business operation will not cause any damage to community, society and environment, supports and develop society in terms of life quality development, education development, energy saving and environmental care. The practice guideline toward communities, societies, environment, health and safety are set forth as follows:

1. Comply with related laws correctly, completely and consistent to the management manual, and to support implementation of management system which in line with international standard (ISO) to business management within organization.
2. Inspect, monitor and evaluate work performance to lower impact to environment, hygiene, safety of communities and environment.
3. Communicate for better understanding; participate in providing information to communities and societies, investors, shareholders and general people with latest situation related to status and facts of the business operation of the Company without hiding any facts.
4. Commit to participate in development and support social activities, environment care and development on life quality of local communities in accordance with sustainable development for the harmonized society.

Information disclosure and transparency

Information disclosure

The Board of Directors places attention on disclosure of reliable, accurate, complete, transparent and timely released information for financial and nonfinancial matters to investors and all stakeholders to have reliable and sufficient information for decision. The Office of Company Secretary and the Department of Corporate Communication are responsible for communicate and disseminate information necessary for individual investors, corporate investors, analyst and individuals within the country and abroad different channels i.e. notify through the SET Community Portal and the Company's website, announcement of quarterly results, business operation plan. Important information being disclosed to the public are such as annual statement (form 56-1), annual report (form 56-2), financial information, information related to major shareholders and rights of voting, information related to directors and committee, information disclosed to SET, corporate governance policy, business ethic, activities and operative plan etc.

Disclosure of financial and non-financial information accurately, completely and in timely manner

The information appeared in the financial report is accurate in accordance with generally accepted accounting standards and reviewed by independent certified public auditors.

- The Company provides Report of the Board's Responsibility in the Financial Statements and encloses with the auditor's report in the Annual Report.
- Management Discussion and Analysis or MD&A has been provided to support disclosure of quarterly financial statement to ensure that investors acknowledge and understand well of any changes in relation to financial status and quarterly operation result besides the numbers shown in the financial statement.
- Disclose audit fee and other service fees related to the auditors in the Annual Report.
- Disclose roles and duties of the Board of Directors and sets of sub-committees, a number of meeting held and number of attendance of each director during the previous year in the annual report, under "Corporate Governance- Sub-committees". The Company has determined the policy on which directors and executives have to report their interest as

well as related persons who involve with stake holding of business management of the Company or its subsidiaries. The criteria and method of report is as follow:

- ❖ Report after first undertaking director or executive position;
- ❖ Report for any changes related to stake holding.

Auditor and quality of financial reports

The financial statements of the Company and its subsidiaries are reviewed and audited by an auditor approved by the office of the Securities and Exchange Commission who is independently, knowledgeable, expertise and qualities to give confidence to the Board of Directors and shareholders that the financial statements of the Company and the subsidiaries shall present the actual financial position and operating results of the Company.

- Nevertheless, the Company has policy to change the auditors if the auditor has been appointed for 7 consecutive fiscal years, and the Company can appoint a new auditor that is affiliated with the former audit firm of the former auditor. From the execution of duties due to the auditor, the Company's auditor can be re-appointed after pass the appointment period at least two fiscal years since the date of such auditor passed the duty
- The Board of Directors places important and responsibility on the financial statements of the Company and its subsidiaries based on general accounting standards, with full caution, accuracy and completeness to reflect actual operative result of the Company. The Board of Directors provided operative result and information disclosure with transparency and sufficiency to related authorities such as SEC and SET regally by taking into account the benefit of shareholders and investors. Furthermore, the Audit Committee is appointed by the Board of Directors to verify and examine reliability and accuracy of the financial report and internal control system.

Investor Relations or IR

The Company has appointed Corporate Communication Division to be mainly responsible for Investors Relations in order to communicate with external parties such as shareholders, institution investors, public investors, analysts and related public sectors with fairness and justice and to enable them to meet the Company's executives as considered appropriate under the policy that the information provided has been disclosed to the public. In the year 2020, the Company has prepared the investor relations ethics of the company. To be used as a framework and guideline for the investor relations operator of the company with the following requirements

- Disclose important and necessary information to make investment decisions accurately, adequately, timely in accordance with related regulations.
- Do not use inside information for personal benefit or for others, including refraining from buying-selling, transferring-accepting the Company's securities within 1 month before disclosing the financial statements and at least 1 day after the financial statements are disclosed as well as refrain from meeting and / or providing information about the Company's performance to outsiders at least 2 weeks before the disclosure of the financial statements.

All shareholders, investors and interested parties can contact the Investor Relations unit for any inquiring and more information via mailing or direct contact the following channel:

Investor Relations unit:

Energy Absolute Public Company Limited
 16th Floor, AIA Capital Center Building,
 No. 89 Ratchadaphisek Road, Din Daeng sub-district,
 Din Daeng district, Bangkok 10400 Thailand
 Tel: 0 2248 2488-92, 0 2002 3667-9 Ext.19531
 E-mail: ir@energyabsolute.co.th

Investor relations activities of the company in 2021 are as follows:

Investors Relations Activities	Total News/Times	Additional information
1. New Release: Publishing news in the form of Press release, Photo release. Such release contain the requisite information to disclose as the general business development of the group of the Company through domestic and international media	70 News for Domestic releases and 50 news for international releases	After the Company disclosed the official information to SET/SEC, the Investor Relations will release information through media channels.
2. Presenting information: The number of times to present information of the Company through various activities.		
2.1 “Opportunity Day” organized by SET	4 times via online channel	1. Financial Statements for the year ended 2020 2. Financial Statements for Q1 of 2021 3. Financial Statements for Q2 of 2021 4. Financial Statements for Q3 of 2021
2.2 “Analyst Group Meeting”	4 times via online channel	Number of participating company No. 1: 25 companies No. 2: 28 companies No. 3: 30 companies No. 4: 31 companies
2.3 “One-on-One Meeting” with analyst and institute investor at the office of the Company including the conference call after the announcement the operating results	70 times	Divided into : Q1/2021 : Total 13 times Q2/2021 : Total 11 times Q3/2021 : Total 21 times Q4/2021 : Total 25 times

Investors Relations Activities	Total News/Times	Additional information
2.4 “Road Show” for investors, analysts and shareholder both domestic and international	15 times via online channel	Divided into - Present to foreign investors: 7 times - Present to domestic investors: 8 times
- Stakeholders site visit at 10 times - Biodiesel factory at Prachin Buri province - Solar Power Plants at Nakhon Sawan, Lampang, and Phitsanulok provinces - Wind Power Plant at Chaiyaphum, Songkhla and Nakorn Si Thammarat provinces - Electric Vehicle Business consists of Electric Car, Electric Bus, Electric Ferry and Electric Charging Station		

Treatment of Insider Information

Use of internal information for purchase and sale of the Company’s securities

The Board of Directors has set the protection of internal information and purchase and sale of the Company’s securities to ensure equality and justice to all shareholders and to retrain directors and related executives from illegally sale and purchase of the securities for their own interest (Insider Trading).

• Use of Internal Information

The Company has implemented policy and protection approach for misuse of internal information for personal interest and securities sale-purchase as follows:

- 1) All directors, executives and employees including their spouse and minor child, including related person as per Section 258 are not allowed to use internal information which has not been disclosed to the public domain, to purchase, sale, transfer or receive securities of the Company.
- 2) Any purchase, sell, transfer or receive securities of the Company by directors, executive, including their spouse and minor child and related person as per Section 258 of the Securities and Stock Exchange B.E. 2535 must be report to the SEC and SET within 3 days from the date of transaction. The violation or failure to comply with the regulation issued in accordance with Section 275 of the Securities and stock Exchange B.E. 2535 is liable to a fine not exceeding Baht 500,000 and a further fine not exceeding Baht 10,000 for every day during which the contravention continues. A copy of transaction report must be submitted to the Company as evidence.
- 3) Directors, executives and employees of the Company who have access to the internal information shall not use such information prior to disclosure to the public, and shall not purchase, sell, transfer or receive securities of the Company within a period of one month prior to, and 1 day subsequent to the quarterly and annual financial statement will be disclosed to the public. The materiality content of the information is prohibited be disclosed to any other parties.
- 4) Report shareholding of director to the Board of Directors quarterly.

- **Control of internal information:**

All directors, executives and employees are not allowed to use internal information which has not been disclosed to the public domain for interest of their own or others. In addition, any third party who is involved or may have access to the important internal information of the Company, must enter into the non-disclosure agreement to ensure that the particular person will use the information with full caution and keep such information as confidential in the same manner as the executives and employees would practice.

- **Holding the Company's securities:**

All directors, executives and employees have freedom to sale and purchase of securities of the Company. However, to prevent conflict of interest, directors, executives and employees including their spouse and minor child are prohibited to sale and purchase of securities of the Company during 1 month prior to the date of disclosure of the financial statement to the public and at least 1 day after disclosure of the financial statement. Any acquisition, disposition, transfer, or receipt of the Company's securities held in their account must be reported and disclosed to the related authority. The Company reports changes in securities holding of directors and executives in quarterly to Board of the Directors and also must be reported in the Annual report.

In case there is any unpublished information which will be affected to the price of securities of the Company, the aforementioned persons must not sale and purchase the securities of the Company until such information has been published.

In this regard, if the executive and employee violate the use of internal information policy aforesaid, such person shall be deemed as violation of the Company's regulations. In addition, if such person is considered violation of Section 242 of the Securities and Exchange Act (No.5) B.E. 2559, such person shall be punished under the Securities and Exchange Act (No.5) B.E. 2559.

Conflict of interest policy

The Company operated business with honesty, integrity, transparency and fairness. Directors, executives and all employees are not allowed to engage in any business that competes with the Company or execute any business transaction which involves themselves or related person/juristic person that may lead to conflict of interest. It is responsibilities of the Board of Directors to monitor and ensure that everyone strictly comply with the rules and regulations of disclosing related transaction as stipulated by law or relevant authorities.

In case it is necessary to enter into a connected transaction, such transaction must be under general trade conditions as approved by the Board, with transparency and fairness, and executed in a manner as if to external party and conduct for the full benefit of the Company (Arm's length Basis). However, the connected transaction which is not based on the general trade conditions may lead to conflict of interest and must be reviewed and considered by the Audit Committee prior to being proposed to the Board or shareholders for approval.

Prevention on the conflict of interest

- The Company has structure of shareholding which is explicit, transparent without cross shareholding with major shareholders that may cause conflict of interest to a particular party. The structure of shareholding of the Company and subsidiaries is disclosed in the annual report with full details.
- The duties of the Board of Directors, executives and shareholders are clearly classified, therefore, there is no issue concerning intervening each other's duties.
- The Company determines that the directors and executives are responsible for providing report of stake holding as to review the related transactions.

Report on the interest of directors and related persons

It is the responsibility of directors and executives to report interest of directors and related persons regarding the management of the Company as regulations and conditions set forth by the SEC. The Company Secretary is responsible for collecting and submitting report of interest to the Chairman of the Board of Directors and the Chairman of the Audit Committee within 7 days from the date of receiving report.

Anti-Corruption Policy

The Company is aware of the importance of ethics, morals, and transparency in business operations including corporate social responsibility, the environment, and all stakeholders in accordance with the principles of good corporate governance. The Company prioritizes importance on the compliance with the rules, regulations and laws relating to anti-corruption including anti-corruption promotion activities within the company for better understanding and conscious commitment to against corruption in all forms.

To ensure that the Company has an appropriate risk management system to prevent corruption in all forms, the Company has set an anti-corruption policy to enable appropriate practices and operating regulations to prevent the corruption and to ensure the risk of fraud and corruption that may occur with the operations of the Company has been considered and implemented for prevention appropriately, sufficiently and prudently.

The Company has therefore established a written anti-corruption guideline in writing including explanations, understanding and communication of the said guidelines to the Board of Directors. The Board of directors various sub-committees as well as employees at all levels of the Company and the Company group thoroughly. This is to be considered as a clear guideline for anti-corruption in all forms that may occur in the operations of the Company.

1. Prohibit the directors, executives, employees, and stakeholder groups of the Company and its affiliates proceed or accept all forms of corruption either directly or indirectly for the benefit of oneself, family, friends and acquaintances, covering all businesses in every country and all related agencies and to regularly review the implementation of this anti-corruption policy as well as reviewing the guidelines and operational requirements to be in line with business changes, regulations, and legal requirements.
2. To have measures to prevent and against corruption as a part of the Company's business operations. This is the responsibility of all departments, including directors, executives, employees of the Company and affiliates as well as

groups of interested parties to participate in giving opinions on various practices to prevent and against corruption of the Company in order to achieve the Company's policy.

3. The Company must continually improve and develop measures to prevent and against corruption in accordance with relevant rules and regulations including the Code of Conduct and Good Corporate Governance, which must assess the risk of corruption that may occur in the Company's business operations and the preparation of guidelines under good internal control in order to prevent any forms of corruption from occurring in the Company's business operations.
4. The Company must not give or accept bribes or support all forms of bribery Including supervision and control of various donations including charitable donations, donations to political parties including giving or accepting gifts or receiving financial support as well as rewards or other benefits in order to make the transactions transparent and not to convince or motivate related persons, including directors, executives, employees of the Company and its affiliates as well as groups of public and private stakeholders performing improper operations.
5. The Company must provide a suitable, adequate, and sufficient internal control system to prevent corruption in all forms.
6. The Company must communicate the commitment of the Company in preventing and anti-corruption in all forms as well as promoting the knowledge on preventing and anti-corruption to the directors, executives and employees in order to instill good awareness and for all personnel of the Company being aware of their duties and responsibilities in carrying out their duty to fight against corruption in all forms.
7. The Company must provide a transparent financial reporting mechanism in accurate and reliable.
8. The Company must promote good and diverse communication channels in order to receive notification of fraud and corruption from directors, executives, employees and all relevant parties with a guarantee for the whistleblower to be protected by not being unfair punishment or being bullied and including the appointment of a person or group of people to closely monitor and monitor all corruption reports that have been reported.

Guidelines for the implementation of the anti-corruption policy

Directors, executives, and employees at all levels, stakeholder groups, and affiliates must comply with this anti-corruption policy including the code of ethics, good corporate governance policies, and guidelines for various groups of stakeholders as well as regulations and regulations about the work of the Company and/or other guidelines that the Company will be determined further and must not directly or indirectly engage in corruption by the following:

1. The Company is very determined and determined to create and maintain the corporate culture as well as raising awareness among personnel in the organization to have a common awareness that corruption is not acceptable to the Company regardless of the form of corruption in any form.
2. There is no circumstance of giving bribery, or receiving bribery, or bribery to various stakeholders' related duties and their responsibilities, either directly or indirectly, in order to gain improper benefits despite being the Company's benefits or personal interests which must be treated as follows:

- 2.1 Not accepting, and offering gifts, souvenirs, or similar items to any person related to their duties, responsibility, and their work both of government and private agencies
- 2.2 Not accepting assets, things, gifts, gifts or other benefits which is an inducement or inducement to refrain or omit to perform their duties. However, in the event that it is necessary to receive any property, gift, or other benefit, the recipient should ensure that it is carried out correctly in accordance with the regulations and/or the Company's policy as well as various related laws. In this regard, any property, item, gift, or other benefit which is given to each other in that function, its price should not expensive and should suitable for each occasion.
- 2.3 Not giving the property, items, gifts, or other benefits which is an inducement or inducement the recipient to make a decision or causing the recipient to not follow the trade practices as if they were with other partners. However, such giving must have a value not more than normal practice and suitable for each occasion.
- 2.4 Not being an intermediary or having any affiliations in offering money, assets, things or other benefits to those involved in the Company's business operations both public and private agencies in exchange for any special privileges that should not be obtained or unlawful or causing government officials to refrain or refrain from performing their duties according to the rules, regulations, and laws as specified.
3. For business operations and procurement with government agencies, do not give or accept bribes of any kind and must be done correctly. And being aware that rules, regulations, laws, rules, or traditions in each locality or in each country, may have different conditions, procedures, or practices. Therefore, contacting government agencies must be transparent, honest, and must proceed in accordance with relevant laws.
4. In procurement whether done with government sectors or private agencies, it must proceed through the procedures in accordance with the Company's regulations, transparent, and can be inspected.
5. Expenses for rearing business can do, but it must be reasonable, transparent, and can be inspected and to be in accordance with the ethics.
6. Charitable donations must do as follows:
 - 6.1 Use of funds or other assets of the company for donations for that charity must operate on behalf of the company only and must be a foundation charity organizations, hospitals, hospitals, temples, or organizations for social benefits with certificate or reliable can check This must be done through procedures in accordance with the regulations of the company.
 - 6.2 Personal charitable donations can be done, but it must not cause suspicion of corruption or for any wrongful interest.
7. Use of money or assets of the Company in order to support the Company's projects must be specified in the name of the Company only and must have business objectives creating a good image or for the reputation of the Company. Disbursement must specify objectives that are clear, transparent, and can be inspected, and proceed through the procedures in accordance with the Company's regulations.
8. No political involvement. The Company will adhere to political neutrality, support and adhere to the law under democratic rule. And there is no policy to provide political assistance to any political party whether directly or indirectly.

9. Directors, executives and employees of the Company and its affiliates must notify the responsible person immediately, and cooperate in the investigation of various facts without neglecting or neglecting to see any action that is considered corruption. However, if in doubt or questions such person may consult with the responsible person through various channels.
10. The Company will provide fairness and protection for personnel of the Company who refuse or report fraud or corruption in accordance with the protection measures for whistle blowing, any offense and corruption without any action that is unfair to the whistleblowers, such as reducing positions, punishing or negatively affecting employees who refuse corruption, etc., although the said actions will cause the Company to lose business benefits or opportunities.
11. The Company considers that any corruption by directors, executives, employees of the Company and its affiliates, is a violation of the ethics and regulations of the Company. Such persons shall be subject to disciplinary consideration in accordance with the regulations stipulated by the Company, including legal penalties.

The Company is aware and gives importance to the dissemination of knowledge and understanding about anti-corruption policies to both of all employees of the Company and other parties relating to the company business operations. The "Anti-Corruption Handbook" is conducted as the guideline for good practice of Company operations enable to be sustainable organization. The Company conducted in-house training on anti-corruption to directors, executives and employees, as well as assessing knowledge and understanding and further notify to business partners and stakeholders including the public along with the announcement of the **"No Gift Policy"**.

Whistle-blowing / Complaints Policy

In order to encourage both internal and external stakeholders to participate in Good Corporate Governance process, the company therefore has set a policy in the event that various groups of stakeholders have questions or see actions suspected of violation or non-compliance with laws, regulations, or business ethics, or suspicions that may lead to corruption can report clues or complaints together with sending evidence and details to the Chairman of the Audit Committee of the Company.

Conditions and consideration for receiving complaints / whistle-blowing

- 1) Details of the complaint must be true, clear, and have enough information to conduct a fact search for further action.
- 2) The complainant can choose not to reveal themselves in order to protect the complainant.
- 3) Information that the Chairman of the Audit Committee received will be considered a secret and reveal as necessary with regard to the safety of the complainant.
- 4) Complaints that have been screened and investigated will be reported to the Board of Directors to consider and determine suitable measures.
- 5) Complainants will be protected despite being a company employee and outsiders.

Whistle-blowing /Complaints Channels

Shareholders, directors, executives, employees and stakeholders in all groups can give clues in case of doubt or see actions suspected of violation or failure to comply with laws, regulations, or business ethics or events that may cause damage to the

Company to the Chairman of the Audit Committee, which the Company will keep the said information confidential in order to prevent the whistleblower to suffer. Channels for whistleblowing are as follows:

❖ Letter to the recipient of the complaint :

Chairman of the Audit Committee

Address : Energy Absolute Public Company Limited

16th Floor, AIA Capital Center Building,

No. 89 Ratchadaphisek Road, Din Daeng sub-district,

Din Daeng district, Bangkok 10400 Thailand

❖ E-mail Address

chairman.audit.com@energyabsolute.co.th

Implementation

1. Notify the progress/ consideration result of complaints to whistle-blower who disclosed his/her name and contact address;
2. The Company reserved its rights to not disclose any information and details concerning the interrogation or disciplinary action affecting the personal information and confidentiality.

Whistle-blowing procedures

1. The whistleblower is the Company's employee and outsider.
2. The person receiving the complaint in accordance with the channels specified by the Company is the Chairman of the Audit Committee.
3. Channels for reporting complaints / clues via:
 - chairman.audit.com@energyabsolute.co.th
 - www.energyabsolute.co.th
 - Send mail by post
4. Consider the facts and investigate and then report the results to the Board of Directors to determine further measures.

6.2 Business Code of Conduct

The Board of Directors has established the "Business Code of Conduct" for directors, executives and employees to use as a guideline for operations; it is divided into the following topics.

1. Human rights and treatment to employees
2. Communities, societies, environment, health and safety
3. Receiving or Providing Property or any benefits that might motivate the decision.
4. Conflict of interest in transactions of the Company
5. Acquisition and disposal securities of the Company and the use of internal information
6. Compliance with laws, regulations, provisions
7. Application of properties, information, IT and intellectual property of the Company

8. Treatment to customers and product quality / marketing communication
9. Treatment to contract parties (trading partner and creditors)
10. Treatment to competitors

In addition, the “Ethics of Director, Executives and employees” can also be summarized as follows:

1. Contain no conflict of interest
2. Protect the confidential information of the Company
3. Be responsible for the Company’s assets
4. Behave in line with morality and integrity

Details and Guidelines for Business Code of Conduct and Ethics of Director, Executives and employees are in the Code of Conduct section, which the Company discloses on the Company's website for acknowledgement of stakeholders and the public.

6.3 Compliance with the Principles of Good Corporate Governance

In 2021, the Board of Directors reviewed and approved the revision of corporate governance policy, guidelines and systems as described below:

- The Board of Directors reviewed the Company’s handbook which consists of the vision, mission, corporate values, code of business ethics, code of ethics for directors, management and employees, corporate governance (CG), anti-corruption and social responsibility to ensure the updatedness and alignment with the Company’s business operation.
- The duties and responsibilities of the Corporate Governance Committee were enhanced to additionally cover sustainable development and the Committee’s name was changed to “Corporate Governance and Sustainability Committee.”
- The policy on the CEO’s holding of directorship in other companies was established in accordance with the corporate governance principles.
- Determination of independent directors’ qualifications was rationalized to be in a larger scope than that required by the Securities and Exchange Commission.
- The Nomination Committee and the Remuneration Committee were combined into the “Nomination and Remuneration Committee.”
- Employee awareness of the business ethics, internal control, anti-corruption and cybersecurity measures was enhanced by providing training courses and conducting test via E-learning system.
- The Board of Directors Charter and the committee charters were reviewed. In 2021, amendment was made to the Corporate Governance and Sustainable Development Committee Charter and the Nomination and Remuneration Committee Charter in alignment with the additional responsibilities while no amendment was made to the Board of Directors Charter and those of other committees.

- According to the result of the 2021 Corporate Governance Survey of Listed Companies by the Thai Institute of Directors (IOD), the Company's corporate governance was rated "Excellent" with higher average CG score than those of overall listed companies and than the average CG scores of the SET100 and SET50 companies.
- For the assessment based on the Annual General Meeting (AGM) Checklist of the Thai Investors Association which is aimed to ensure that annual meetings of shareholders in Thailand are comparable with international standards using the assessment criteria that cover procedures of the shareholders' meeting, the Company received the full score of 100 of AGM Checklist.
- In view of corporate governance assessment of listed companies in ASEAN countries under the ASEAN CG Scorecard, in 2021, the Company submitted the information to the IOD as Thailand representative in the effort to enhance and level up the ASEAN CG Scorecard.
- In monitoring of corruption complaints from January 1 to December 31, 2021, the Company had no corruption complaint.

In 2021, the Company complied with the principles of good corporate governance, which did not cover the criteria of the Corporate Governance Report of Thai Listed Companies (CGR) and the ASEAN Corporate Governance Scorecard in three categories, as follows:

1. The determination of policy for the term of service of an independent director for no more than 9 years: Since the nature of the Company's operation is specialized. Therefore, the Company's director who has experience, expertise, and vision in this sector of business is a key source for pushing and driving the company's growth and becoming an industry leader. The Company takes into account the knowledge, competence, and experience of independent directors, together with the Company's independent director, who can provide their opinion without a conflict of interest or gain and loss to the Company.
2. Cumulative Voting: By the Company's Articles of Association, shareholders have a vote at the shareholders' meeting and are deemed that one share has one vote. The shareholder who has conflict of interest can also vote for directors.
3. Having at least one female director: The Company does not discourage or limit a director's gender. Individual shareholders are also given the opportunity to nominate a person to be appointed as a director in advance of the shareholders' meeting. No shareholder nominates a woman as a director.



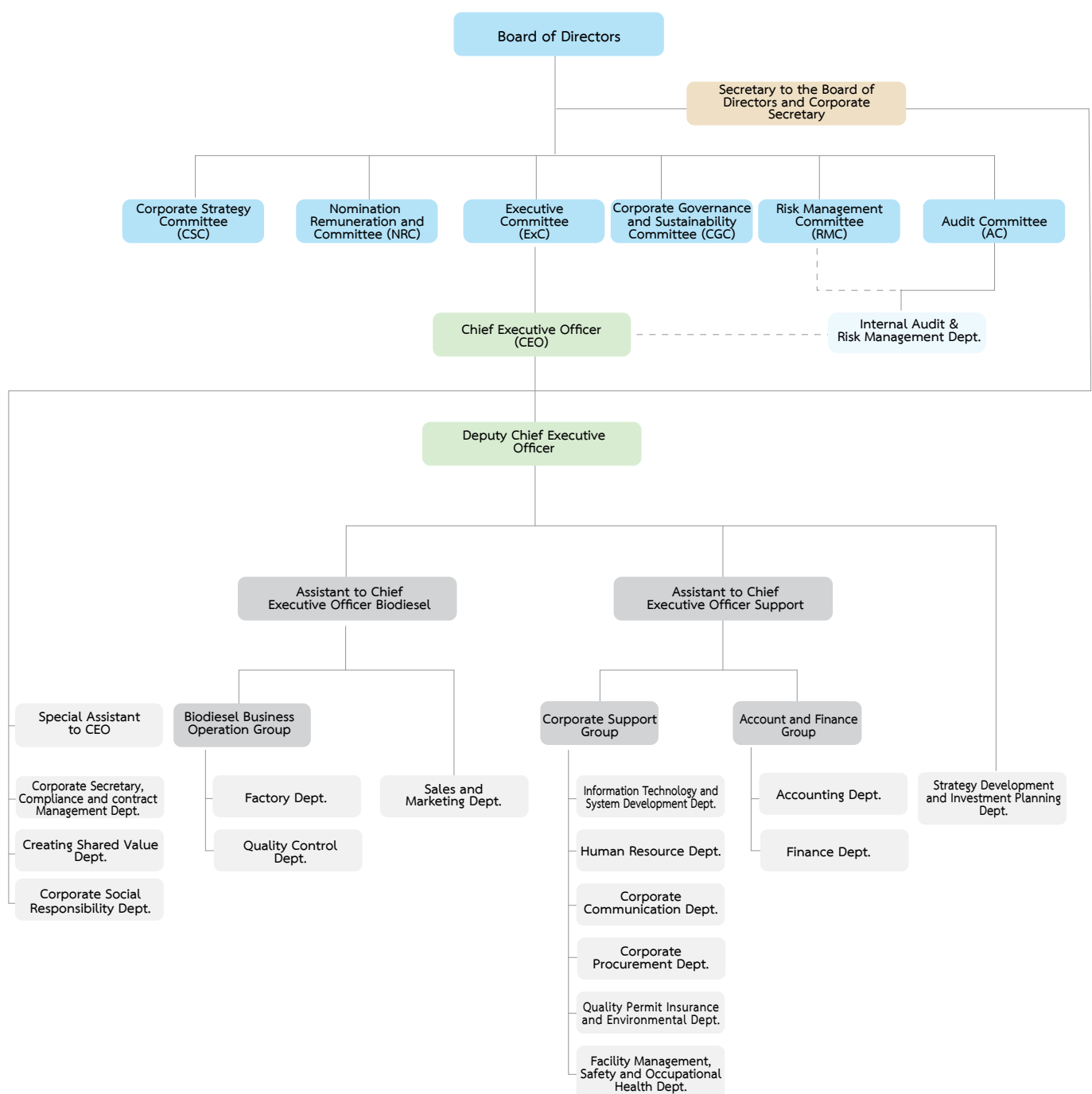
7. Governance Structure and Key Data on the Board of Directors, Sub-Committees, Management, Employees and Others

7.1 Management Structure

Organization Structure

As of December 31, 2021 the management structure of Energy Absolute Public Company Limited comprises of the Board of Directors and 6 Sub-Committees as follow:

- 1.) Executive Committee 2.) Audit Committee 3.) Nomination and Remuneration Committee 4.) Corporate Governance and Sustainability Committee 5.) Risk Management Committee and 6.) Strategic Planning Committee



7.2 Board of Directors

7.2.1 Composition of the Board of Directors

As of December 31, 2021, the Board of Directors consisted of 11 directors including 9 non-executive directors and 2 executive directors, namely Chief Executive Officer and Deputy Chief Executive Officer which 6 of whom are independent directors. The composition above is in line with the Company's Articles of Association, which prescribes that the Board of Directors shall comprise of at least 5 but not exceeding 15 directors and not less than half of whom must reside in Thailand.

7.2.2 Board of Directors

Name	Position	Date Appointed
1. Mr. Somchainuk Engtrakul	Chairman of the Board of Directors / Independent Director	12 March 2008
2. Mr. Somphote Ahunai	Director (Authorized Director) / Vice Chairman of the Board of Directors / Chairman of Strategic Planning Committee / Chairman of Executive Committee / Member of Risk Management Committee	12 March 2008
3. Mr. Amorn Saphaweeikul	Director (Authorized Director) / Member of Executive Committee / Member of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee	30 March 2012
4. Mr. Wutthilerd Chiannilkulchai	Director (Authorized Director) / Member of Executive Committee / Member of Risk Management Committee	12 March 2008
5. Mr. Sutham Songsiri	Director / Member of Executive Committee / Member of Risk Management Committee / Member of Corporate Governance and Sustainability Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee	12 March 2008
6. ACM. Chainan Thumasujarit	Independent Director / Chairman of Audit Committee / Chairman of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Corporate Governance and Sustainability Committee	7 August 2012

Name	Position	Date Appointed
7. M.R. Bravochat Chatchai	Independent Director / Member of Audit Committee / Chairman of Corporate Governance and Sustainability Committee / Chairman of Nomination and Remuneration Committee / Member of Risk Management Committee	26 November 2010
8. Pol.Gen. Phatcharavat Wongsuwan	Independent Director / Member of Risk Management Committee	18 April 2014
9. Mr. Somboon Ahunai	Director / Member of Executive Committee	22 April 2015
10. Mr. Amornsuk Noparumpa	Independent Director	27 April 2017
11. Mr. Somphop Keerasuntonpong	Independent Director / Member of Audit Committee / Member of Corporate Governance and Sustainability Committee / Member of Nomination and Remuneration Committee	23 April 2020

Ms. Yaowalug Pukpikul : Corporate Secretary and Secretary of the Board of Directors

7.2.3 Role, Responsibilities, and Authority of the Board of Directors

Roles and Responsibilities of the Board of Directors

(Duty of Care, Duty of Obedience, Duty of Loyalty and Duty of Disclosure)

- To perform their duties under applicable laws, objectives, regulations of the Company and resolutions of shareholders' meetings with duty of loyalty, duty of care, respect the laws and regulations of the Company (Duty of Obedience) and disclose information to shareholders accurately, completely, transparently, timely (Duty of Disclosure), accountability, as well as full benefit of all shareholders.
- To determine vision, strategy, policy and business direction of the Company, control and monitor whether the management's performance is effectively and efficiently in order to maximize economic value to the shareholders and achieve the sustainable growth.
- To determine policy and regulate the Company to prepare guidelines for supporting anti-corruption measures to ensure that management aware of the importance of this anti-corruption and cultivate to be an organizational culture.
- The Board of Directors is responsible in considering important subjects such as policies and business plans, big investment projects, corporate acquisition, management authority and other subjects prescribed by the law.
- The Board of Directors is responsible to evaluate and determination of remuneration for the management.
- The Board of Directors is responsible business performance and management practices to carefully and cautiously perform.

- The Board of Directors is responsible for setting an accounting system, financial reports and reliable accounting audit as well as overseeing the process of assessment on the suitability of internal controls and the efficient and effective internal audit, risk management, financial reports and follow up.
- The Board of Directors is responsible to prevent the conflicts of interest between the stakeholders of the Company.
- The Board of Directors is responsible to report the report of the Board of Directors' Responsibilities for the Financial Report along with the auditor report in the Annual Report as well as covering important issues in accordance with the good practice for the directors of the listed company under the Stock Exchange of Thailand.
- To disclose information to shareholders, investors and all groups of stakeholders with accuracy, standard, transparency and in timely manner.
- To provide efficient internal control system and internal audit.
- To provide efficient risk management and regularly follow up.
- To implement good corporate governance and regularly follow up the result.
- To appoint the Company Secretary to be responsible for arranging activities of the Board of Directors and to support the Board of Directors and the Company to comply with the law and related regulations.
- To implement business ethics for directors, executives and employees as a standard of work within the organization.
- It is duty of the independent directors to review the strategy, operating management, application of resource, appointment of directors and to determine standards of business conduct with their independent discreet, as well as to oppose the action of management or other directors in regard to the conflict which impact equality of all shareholders.
- The Board of Directors may seek for professional opinion in regard to business operation from external advisor at own cost of the Company.
- The Board of Directors may delegate or assign one or more directors or any other person to act on behalf of the Board. However, such delegation shall not be the delegation or sub-delegation which enables the Board of Directors or the attorney of the Board to approve any particular which him/herself or person who may have conflict, gain or loss or any conflict of interest in any other manner or conflict with the interests of the Company or its subsidiaries (if any), except for the resolution for the particular according to the policy and the criteria that the shareholders' meeting has approved

Board approval authority

- To approve and review the vision, mission and policy of the Company.
- To approve short-term and long-term strategic plans including the annual action plan, budget and manpower accordance with the strategic plan.
- To approve the work that benefits to the Company, shareholders and stakeholders and monitor the performance of the management and jointly consider and provide the suggestions to solve problems appropriately.
- To approve the sub-committees charter.
- To approve the organization structure of the Company.
- To elect and appoint director(s), in the event that the director retire during the year.
- To approve investment in business expansion and the investment.
- To appoint, withdraw and change sub-committee members.
- To approval of interim dividend payment.

- To approve the adjustment of remuneration for the Chief Executive Officer.
- To approve the succession plan for the position of Chief Executive Officer and Executive Levels.
- To approve accounting policies Additional investment Write-off or the disposal of the company's assets.
- To appoint the company secretary
- To endorse any issues prior propose to shareholder's meeting for approval as follows:
 1. Entering into the connected transactions, the acquisition, the disposal of assets of the Company according to the laws and regulations of SEC.
 2. Disposal or transfer of all or part of the core Company's business.
 3. Acquisition or accepting the transfer of other companies' businesses to the Company.
 4. Modification of the Memorandum of Association and the article of association of the Company.
 5. Increase / decrease of registered capital.
 6. Issuing of any securities other than the ordinary shares.
 7. Dissolution of the Company / merging with other company.
 8. Determine the date of the shareholders' meeting and the annual meeting agenda.
 9. Annual dividend declaration.
 10. Any other business that required by law or the article of association of the Company to obtain the approval from the shareholders' meeting.

Authorized Directors

The directors authorized to act on behalf of the Company as stated in the Company affidavit are **“Mr.Somphote Ahunai, Mr. Wutthilerd Chiannilkulchai, Mr. Amorn Sapthaweekul with two out of three mentioned directors jointly sign with the Company's seal affixed”**

Appointment and Removal of the Directors

- 1) The Company has Nomination and Remuneration Committee to select and propose the qualified person with morality, ethics and meets the requirements as prescribed in Section 68 of the Public Company Act B.E. 2535 and as stated in the related Notifications of the SEC and SET. The consideration also based on experience, knowledge, skills relevant to the business of the Company. Then the lists of selected applicants will be submitted to the Board of Directors for further proposal to the shareholders' meeting for selection and appointment. Currently, the Board of Directors consists of 11 members, 6 of them are Independent Directors, 2 of them are Executive Directors and 3 of them are non-Executive Directors.
- 2) At the Annual General Meeting of Shareholders (AGM), one-third of all directors shall resign by rotation. In case the number of resigned directors cannot be precede, the similar amount to one-third of the directors to resign during the first year. In second year after registration of the company, the ballot papers will be provided for seeking director to resign. Later years, the directors who hold longest term shall be resigned. The resigning directors may be re-elected.
- 3) Shareholders' meeting will appoint directors from majority votes according to the following rules and methods
 - 3.1 Shareholder has votes equal to one (1) share per one (1) vote.

- 3.2 Each shareholder must use all existing votes according to Clause 3.1 to elect one person or many people as directors, however, the votes cannot be divided.
- 3.3 Persons who receive the highest votes in descending order being elected as a director equal to the number of directors that should have or should be elected at that time. In the event that the person elected in the next order having equal votes in excess of the number of directors that the shareholders' meeting must elect at that time, the chairman of the meeting is the casting vote
- 4) In the event that the position of the director is vacant due to reasons other than the expiration of the term, the Board shall select the qualified person and does not have the characteristics of being prohibited under the law on public limited companies and the law on securities and stock exchange, to be replaced in the next board meeting except that director's remaining term shall be less than two months. The person who is the replacement director will be in the position of director only for the remaining term of the director that replaced.
- 5) The shareholders' meeting may have resolution to removal director(s) prior to the term expiration with the votes of not less than three-fourths (3/4) of the attending shareholders with total shares no less than half of total shares hold by the attending shareholders with the rights to vote.

Criteria for shareholder to propose the qualified candidate to be elected for director of the Company

1. Being a shareholder holds at least 5% of total shares of the Company (Not less than 186.5 million shares). The shareholder who wishes to propose a person for directorship must be a shareholder holding shares at the amount as specified previously as of the date of proposal and as of the date of closing shareholders' register in order to determine right to attend the meeting of shareholders.
2. Provide evidence of shareholding such as certificate of Shareholding is sued by the securities company or any other evidence issued from the Stock Exchange of Thailand (SET) or the Thailand Securities Depository Co., Ltd. (TSD).
3. The person being proposed for directorship shall have qualifications as follows:
 - (1) Fully qualified, without any prohibited characteristics, under law related to the Public Company Limited, Securities and Stock Exchange, including other laws and notifications, and the good corporate governance of the Company.
 - (2) Knowledgeable, possess good background experience, capable, independent to perform director's duties with care and loyalty, and able to attend Directors' meetings on a regular basis, as well as gender equity to be nominated as a director. However, the benefits of the Company are the most important consideration.
 - (3) Having one or more specific knowledge in a particular field which will generate benefit to the Company which are business of manufacturing and distribution biodiesel oil/ business of production and distribution of electricity / Electric vehicle business / business of alternative energy and have knowledge useful for the Company to support the business expansion according to the strategic plan to achieve goals, such as accountings, finances, laws, strategy and business plan Management, Information Technology etc., including the good corporate governance.
 - (4) Holding position as a director in the maximum of 5 listed companies, including EA, and not in any competing business of the Company.

Qualifications of directors

- Qualified, not being prohibited to run Public Company, law and regulation of Securities and Stock Exchange, including other applicable laws and good corporate governance of the Company.
- Knowledgeable, possess good background experience, capable, independent to perform director's duties with care and loyalty, and able to attend Directors' meetings on a regular basis, as well as gender equity to be nominated as a director. However, the benefits of the Company are the most important consideration.
- Having one or more specific knowledge in a particular field which will generate benefit to the Company which are:
 - 1) Production and distribution of biodiesel oil
 - 2) Business of production and distribution of electricity
 - 3) Electric vehicle Business
 - 4) Production and distribution of alternative energy
 - 5) have specialized knowledge that useful for the Company to support the business expansion according to the strategic plan to achieve goals, such as, accountings, finances, laws, strategy and business plan, Management, Information Technology etc.
 - 6) Good corporate governance
- Holding position as a director in the maximum of 5 listed companies, including EA, and not in any competing business of the Company.

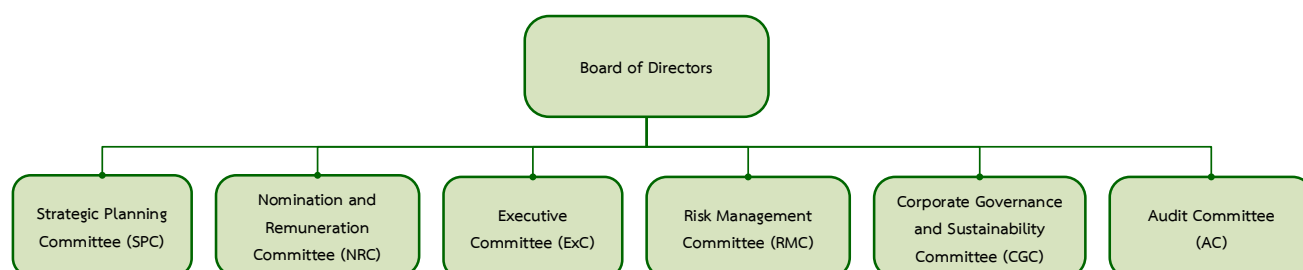
7.3 Sub-Committees

Appointment of Sub-Committees

The Board of Directors appointed sub-committees to oversee and monitor important issues and to regularly report to the Board. Sub-Committees are as follows:

- The Executive Committee
- The Risk Management Committee
- The Audit Committee
- The Strategic Planning Committee
- The Nomination and Remuneration Committee
- The Corporate Governance and Sustainability Committee

Structure of Sub-committees of the Company



1. The Executive Committee

The Executive Committee must be the Company's Director and/or the Company's Executive appointed by the Board of Directors based on the number of directors that the Board deemed appropriate and the Board of Directors will appoint one of executive committee member as the Chairman of the Executive Committee.

As of 31 December 2021: The Executive Committee consists of 5 members as follows:

	Name	Position
1	Mr. Somphote Ahunai	Chairman of the Executive Committee
2	Mr. Amorn Sapthaweekul	Executive Committee
3	Mr. Wutthilerd Chiannilkulchai	Executive Committee
4	Mr. Sutham Songsiri	Executive Committee
5	Mr. Somboon Ahunai	Executive Committee

Ms. Yaowalug Pukpikul: Corporate Secretary, Vice President of the Corporate Secretary, Compliance and Contract Management, is responsible for the Secretary of the Executive Committee

Scope of duties and responsibilities of the Executive Committee

- 1) To consider and review direction of business operation, business plan and strategy for approval of the Board of Directors.
- 2) To control the business operation of the Company to ensure the compliance with strategic business plan and the budget approved by the Board of Directors and to report result to the Board of Directors for consideration.
- 3) Establish a promotion and supporting system of the anti-corruption policy to communicate with all employees and related parties including reviewing the suitability of various processes and measures to comply with business changes, regulations, and legal requirements.
- 4) To review the code of conduct, handbooks for different departments to ensure compliance with the regulations stipulated by related government authority.
- 5) To set efficient internal control system and risk management system as well as monitoring system and to ensure work procedures are completed in line with law, regulations and good corporate governance.
- 6) To consider and propose accounting policy, investment, removal of bad debt, or removal of asset disposal to the Board of Directors for further consideration and approval.
- 7) To consider and approve work procedures as assigned by the Board of Directors.
- 8) To perform or act as a representative of the Board of Directors on behalf of the Company in coordination with government authorities such as SEC and SET, etc.
- 9) To consider and approve budget for normal transaction of the Company, which maximum value is 250 Million Baht.
- 10) To consider and approve employment, shifts, dismissal, approve Remuneration of the executives, as well as to determine punishment, indemnification, and approve on executive's resignation.

11) The meeting shall be held on a monthly basis where at least half of the directors attending the meeting shall constitute the quorum.

Nonetheless, the authority of the Executive Committee including authorization to other person as considered appropriate by the Executive Committee shall not constitute the authority to approve transactions that there is potentially conflicted persons may involve or any involvement causing conflicts of interest to the Company or any conflict with the Company or its subsidiaries (if any) or the transaction which is not under normal business transaction of the Company. To approve such transaction, the matter must be proposed to the meeting of the Board of Directors and/or shareholders for consideration and approval as stipulated by the regulations of the Company or related law.

2. The Audit Committee

The Audit Committee appointed by the Board of Directors are qualified in accordance with the Securities and Exchange Act including notification, rules and/or regulations prescribed by the SET that the Board of Directors appoints the Audit Committee, consisting of at least 3 Independent Directors, and at least 1 Independent Director has sufficient experience to review the financial statements.

As of 31 December 2021: the Audit Committee consists of 3 Independent Directors as following details:

	Name	Position
1	ACM. Chainan Thumasujarit	Chairman of the Audit Committee and Independent Director
2	M.R. Bravochat Chatchai	Member of Audit Committee and Independent Director
3	Mr. Somphop Keerasuntonpong	Member of Audit Committee and Independent Director (who has accounting knowledge and experience to review credibility of financial statements)

Ms. Aiyaret Boonyaruang: Acting - Vice President and Assistant Vice President of the Internal Audit and Risk Management is responsible for the Secretary of the Audit Committee

Audit Committee Qualification

- 1) Not being a director assigned by the Board of Directors to decide on the business operation of the Company, its parent company, subsidiaries, joint ventures, subsidiaries in the same level, major shareholders or the person authorizing and controlling the Company; and
- 2) Not being director of the parent company, subsidiaries or subsidiaries in the same level, particularly at listed companies;
- 3) Have sufficient knowledge and experience to be able to act as a member of the Audit Committee. There must be at least one member of the Audit Committee who has sufficient knowledge and experience to be able to review the reliability of the financial statements.
- 4) Have the same duties as prescribed in the Notification of the Stock Exchange of Thailand regarding qualifications and scope of work of the Audit Committee.

Duties and responsibilities of the Audit Committee are:

1. Financial Reports
 - ❖ To review a financial report and consider the completeness of the information acknowledged and to assess the appropriateness of accounting principles applied to the financial report;
 - ❖ To review accounting matters and significant financial report, including complicated or irregular transactions and the transaction which requires discretion;
 - ❖ To enquire management and auditors in regard to auditing result of the important risk concerning financial report and plan to reduce such risk;
 - ❖ To review efficiency of the internal control in regard to procedure of creating financial statement.
2. Internal control
 - ❖ To review to ensure that the Management has set the internal control system as well as internal control of the proper technology implemented, communication guidelines, importance of the internal control and risk management through the whole organization;
 - ❖ To review to ensure that the advice regarding internal control suggested by the internal audit and auditor has been amended and improved.
3. Internal Audit
 - ❖ Review and approve annual internal audit plan, as well as personnel and resources required;
 - ❖ Review activities and performance of the Internal Audit Department to ensure independency as well as approve the appointment, transfer, employment termination of the Head of Internal Audit or any function responsible for internal audit;
 - ❖ Review efficiency of the Internal Audit performance to ensure that the internal audit standard has been implemented;
 - ❖ Review the effectiveness of Anti-Corruption guidelines as well as to consider and audit follows the Whistle Blowing policy to ensure that the Company performs with a concise and suitable operation and in accordance with international standards and able to prevent any form of corruptions.
4. Control the compliance with law and regulations
 - ❖ Consider changes of law, regulations proposed by the Internal Audit which has impact to the business operation of the Company regularly;
 - ❖ Review the facts found by controlling authority, follow up, improve, as well as report to the Board of Directors;
 - ❖ Review efficiency of system which implemented to monitor compliance with the law, regulations, as well as correct in case the matter has not been followed.
5. Consider and ensure accuracy and completeness of the information disclosure of the Company in case there is connected transaction or conflict of interest.
6. Select, propose, appoint and consider remuneration of the Auditors.
 - ❖ Responsible for selection, appointment and proposal of the remuneration of the Auditors.

7. Compliance to the morality and ethic of the executives and employees
 - ❖ To review to ensure that business ethics and morality of the executives and employees, prevention policy on conflict of interest are made in written form and acknowledged by all executives and employees;
 - ❖ To support the compliance with morality, ethic and prevention policy on conflict of interest.
8. Provide report of activities of the Audit Committee by disclosure such information in the Annual Report of the Company which will be signed with affixed name by the Chairman of the Audit Committee.
9. Other responsibilities
 - ❖ Otherwise act as assigned by the Board of Directors;
 - ❖ Review and assess charter of the Audit Committee on regular basis, as well as propose to Board of Directors for approval in case of amendment;
 - ❖ Provide self-assessment, at least, on annual basis, and report the result to the Board of Directors

The Audit Committee has the authority to terminate the external auditor contract if the external auditor is unable to perform his duties or neglected his duties or wrongfully performs his duties.

3. The Nomination and Remuneration Committee¹

The Board of Directors appointed the Nomination and Remuneration Committee to support the Board of Directors in setting policies, criteria and procedures for recruiting qualified persons to serve as the Company's director, sub-committee member including top executives² and the person assigned by the Board of Directors in accordance with the nomination process and propose to the Board of Directors, and setting policies, pattern and criteria for paying the remuneration for the Company's directors, sub-committees as well as setting the remuneration for top executives and the person assigned by the Board of Directors to propose to the Board of Directors.

The Nomination and Remuneration Committee consists of at least 5 directors. The Chairman shall be independent director and at least half of member shall be independent directors. The Nomination and Remuneration Committee meeting shall elect one member as the Chairman of the Nomination and Remuneration Committee.

As of 31 December 2021: The Nomination Committee consists of 5 Directors as following details:

	Name	Position
1	M.R. Bravochat Chatchai	Chairman of the Nomination and Remuneration Committee and Independent Director
2	ACM. Chainan Thumasujarit	Member of Nomination and Remuneration Committee and Independent Director
3	Mr. Somphop Keerasuntonpong	Member of Nomination and Remuneration Committee and Independent Director

¹ During the year 2021, the Board approved the combination of the Nomination Committee and the Remuneration Committee as one sub-committee and it shall be the "Nomination and Remuneration Committee"

² Top Executives mean Chief Executive Officer or Managing Director or a person holding equivalent position with different position title of Energy Absolute Public Company Limited and its subsidiaries.

	Name	Position
4	Mr. Sutham Songsiri	Member of Nomination and Remuneration Committee
5	Mr. Amorn Saphaweeikul	Member of Nomination and Remuneration Committee

Ms. Porntip Sangchan: Vice President - Human Resource Department is responsible for the Secretary of the Nomination Committee

Duties of the Nomination and Remuneration Committee are as follows:

- 1) To consider policy of nomination of directors and top executives, nominate, select and propose qualified person with morality, ethics and qualification suitable to the position of committee member and/or executives, as the case may be.
- 2) To consider the policy and structure of directors' remuneration and sub-committee of the Company and propose to the Board of Directors for consideration and further propose to the meeting of shareholders for approval.
- 3) To consider and review the remuneration structure and ratio of the top executives to be in compliance with the current market condition and suitable to the Company's business performance, and propose to the Board of Directors for further consideration.
- 4) To review and assess the work performance of the directors and executives.
- 5) To provide the succession plan, revise the development plan of the Chairman of the Executive Officers or top executives as a prepared plan in the event that the CEO or top executives in particular position will retire or will be unable to perform their duties to assure smooth and continual business operation
- 6) Considering the vacant of the Board of Directors due to
 - Termination - Considering the selection of qualified candidates to be directors and propose to the Board of Directors for further propose to the annual shareholders' meeting for appointing
 - Termination other than the expiration of the term - Considering the selection of qualified persons as directors and propose to the Board of Directors for consideration and appointing to replace the vacant positions
- 7) Encourage to allow shareholders to propose names of persons to be nominated as directors.
- 8) Consider the preparation of the development plan for directors to develop knowledge of the current directors and new directors to understand the business, roles and duties of directors and important developments industry, such as the current conditions of the industry, the rules and laws related to the business of the Company.
- 9) Selecting the qualified directors to be directors in sub-committees in order to propose to the Board of Directors' meeting for appointment to fill in the vacant position.
- 10) Considering and reviewing the Charter of the Nomination Committee and regularly perform.
- 11) Other duties assigned by the Board of Directors.

4. Risk Management Committee

The Board of Directors appointed the Risk Management Committee to support the Board of Directors in setting risk management policy for overall corporate as well as to supervise and control to have risk management system or procedures to suitably remove/reduce the impacts on the business of the Company Group, also setting the composition, scope of authorities, duties and responsibilities to enable the Risk Management Committee to perform its duties with effectiveness.

The Risk Management Committee consists of at least 5 directors. Their duty is to propose and support to the Board of Directors. At least half of the members must have competent knowledge in finance, accounting, law or specific skill related to the business operation of the Company or risk management. The Risk Management Committee will select one member as the Chairman of the committee.

As of 31 December 2021: The Risk Management Committee consists of 7 Directors as following details:

	Name	Position
1	ACM. Chainan Thumasujarit	Chairman of Risk Management Committee and Independent Director
2	M.R. Bravochat Chatchai	Member of Risk Management Committee and Independent Director
3	Pol.Gen Phatcharavat Wongsuwan	Member of Risk Management Committee and Independent Director
4	Mr. Somphote Ahunai	Member of Risk Management Committee
5	Mr. Amorn Saphaweeikul	Member of Risk Management Committee
6	Mr. Wutthilerd Chiannilkulchai	Member of Risk Management Committee
7.	Mr. Sutham Songsiri	Member of Risk Management Committee

Ms. Yaowalug Pukpikul: Vice President of the Corporate Secretary, Compliance and Contract Management/
Corporate Secretary, is responsible for the Secretary of the Risk Management Committee

The duties of the Risk Management Committee are as follows:

- 1) To establish risk management policies, supervise and support efficient risk management covering the business operations of the Company which includes the risk of corruption and considering and reviewing various measures to prevent those risks to be at an acceptable risk level.
- 2) To follow up the implementation, review the report of risk management, ensure the appropriateness and sufficiency of the risk management, ensure the risk management remains in the acceptable level, and to ensure that the risk management has been continuously applied.
- 3) To regularly coordinate with the Audit Committee by exchanging knowledge and information regarding risk and internal control which impacts or may impact the Company.
- 4) Encourage to have culture of risk management and proper internal control.

5. The Corporate Governance and Sustainability Committee

The Board of Directors appointed the Corporate Governance Committee, consisting of at least 3 Directors to perform duties in setting and reviewing policies, regulations and operational approaches to be in line with the principles of good corporate governance, setting policies and planning activities related to the social responsibility, holding meeting to follow up the progress of corporate governance plan and social responsibility as well as providing suggestions and necessary support, implementing internal audit with the criteria of corporate governance in order to determine issues to be improved and being the Company's representative to communicate and implement activities related to the corporate governance with all executives, employees and external organizations.

As of 31 December 2021: The Corporate Governance Committee consists of 4 Directors as following details:

	Name	Position
1	M.R. Bravochat Chatchai	Chairman of Corporate Governance and Sustainability Committee and Independent Director
2	ACM. Chainan Thumasujarit	Member of Corporate Governance and Sustainability Committee and Independent Director
3	Mr. Somphop Keerasuntonpong	Member of Corporate Governance and Sustainability Committee and Independent Director
4	Mr. Sutham Songsiri	Member of Corporate Governance and Sustainability Committee

Ms. Yaowalug Pukpikul: Vice President of the Corporate Secretary, Compliance and Contract Management/ Corporate Secretary, is responsible for the Secretary of the Corporate Governance Committee

The duties of Corporate Governance Sustainability Committee are as follows:

- 1) The scope of duties and responsibilities of good corporate governance.
 - (1) To determine and review policy, regulations and work practices to be in line with good corporate governance, determine and plan about activities related to corporate social responsibilities, the stakeholders, i.e. 1.1) Shareholders 1.2) Employees 1.3) Social 1.4) Partners, 1.5) Creditor and 1.6) other stakeholders;
 - (2) To hold the meeting to monitor the progress of corporate governance plan as well as corporate social responsibilities, as well as to give advice and support as necessary;
 - (3) To conduct internal assessment based on corporate governance principles in order to seek for improvement;
 - (4) To act as representative of the Company in communication and conduct corporate governance with the executives, employees and external agencies.
- 2) The scope of duties and responsibilities of sustainability.
 - (1) To consider and advise on the establishment of a standardized sustainability policy framework and approach to sustainability that is comparable to international practices or principles in order to function effectively including respond to the needs of stakeholders in order to ensure the group's long-term growth.

- (2) To provide advice on the preparation of the group's sustainability plan in accordance with the policy framework specified.
 - (3) To give advice and feedback to the Board of Directors and management on how to improve the group's sustainability.
- 3) Other
- (1) Review and propose amendments to the scope of duties and responsibilities of the Corporate Governance and Sustainability Committee in accordance with current situation.
 - (2) Performing other duties assigned by the Board of Director

6. The Strategic Planning Committee

The Board of Directors appointed the Strategic Planning Committee to support the Board in considering the overall strategic of the Company and group then propose to the Board of Directors for consideration

As of 31 December 2021: The Strategic Planning Committee consists of 3 Directors as the following details:

	Name	Position
1	Mr. Somphote Ahunai	Chairman of the Strategic Planning Committee
2	Mr. Amorn Sapthaweeikul	Member of the Strategic Planning Committee
3	Mr. Sutha Songsiri	Member of the Strategic Planning Committee

Ms. Yaowalug Pukpikul: Vice President of the Corporate Secretary, Compliance and Contract Management/
Corporate Secretary, is responsible for the Secretary of the Strategic Planning Committee

Scope of duties and responsibilities of the Strategic Planning Committee

- 1) To consider and determine the corporate strategy of the group Company and propose to the Board of Directors for consideration and approval.
- 2) To review and monitor the direction of the corporate strategy of the group Company and propose to the ultimate strategic direction as deemed appropriate to the Board of Directors.
- 3) To consider and understand the strategic direction and initiatives, new business, as well as the corporate organization in overall to determine the essential resources to approach and support the corporate strategy of the group Company and propose to the Board of Directors.
- 4) To appoint or set up the management team or consultant or expert in order to seek advices or opinion as deemed appropriate and necessary.
- 5) To report the significant operations results and issue to the Board of Directors.
- 6) To review the Charter of the Strategic Planning Committee, and to conduct committee's self-assessment annually.
- 7) To perform other duty assigned by the Board of Directors.

7.4 Executives

7.4.1 List of Executives as of December 31, 2021

The Company has a total of 16 executives as follows:

Executive's Name	Position
1. Mr. Somphote Ahunai	Chief Executive Officer
2. Mr. Amorn Saphaweekul / ¹	- Deputy CEO - Acting Vice President - Quality Control Department
3. Ms. Wimolmas Wongmakornpan / ²	- Team of Assistant Chief Executive Officer-Support - Vice President - Creating Shared Value Department
4. Ms. Supaporn Ahunai / ³	- Special Assistant to CEO - Team of Assistant Chief Executive Officer-Support - Vice President – Quality Permit Insurance and Environmental Department
5. Mr. Vasu Klomklang / ⁴	- Senior Vice President - Strategy Development and Investment Planning Department - Acting Vice President - Corporate Communication Department
6. Ms. Kotchanan Suwannadaj / ⁵	Vice President - Accounting Department
7. Ms. Yaowalug Pukpikul	- Vice President - Corporate Secretary, Compliance and Contract Management Department - Corporate Secretary - Secretary of the Board of Directors - Secretary of Executive Committee - Secretary of Risk Management Committee - Secretary of Corporate Governance and Sustainability Committee - Secretary of Strategic Planning Committee
8. Mrs. Pornpip Sangchan	- Vice President - Human Resource Department - Secretary of the Nomination and Remuneration Committee
9. Ms. Aiyaret Boonyaruang	- Acting Vice President - Internal Audit and Risk Management Department - Assistant Vice President - Internal Audit and Risk Management Department - Secretary of Audit Committee
10. Mr. Kitiphong Tuesataya	Vice President – Corporate Procurement Department
11. Ms. Ornkamol Vitavasiri	Vice President - Finance Department
12. Mr. Cheerapan Panyanan	Vice President - Factory Department
13. Mr. Kawin Kaewkong	Vice President - Sales and Marketing Department

Executive's Name	Position
14. Mr. Chatrapon Sripratum	• Vice President - Strategy Development and Investment Planning Department
15. Mr. Puchong Prasonglert	• Vice President - Information Technology and System Development Department
16. Mr.Saranyoo Sornkamnerd	• Acting Vice President – Office Management, Safety and Occupational Health Department • Manager- Office Management, Safety and Occupational Health Department

Remark: /^{1 2 3 4} and /⁵ (Executives under SEC's Announcement)

Executives was appointed during the year 2021:

Executive's Name	Position
Ms. Wimolmas Wongmakornpan (no. 3)	: Team of Assistant Chief Executive Officer-Support effective as of November 1, 2021
Ms. Supaporn Ahunai (no. 4)	: Team of Assistant Chief Executive Officer-Support effective as of November 1, 2021
Ms. Kotchanan Suwannadaj (no. 6)	: Vice President – Accounting Department effective as of October 1, 2021
Ms. Aiyaret Boonyaruang	: Acting Vice President - Internal Audit and Risk Management Department Assistant Vice President - Internal Audit and Risk Management Department effective as of November 10, 2021
Ms. Ornkamol Vitavasiri	: Vice President - Finance Department effective as of February 15, 2021
Mr. Puchong Prasonglert	: Vice President - Information Technology and System Development Department effective as of February 15, 2021

Executives resigned during the year 2021

Executive's Name	Position
Ms. Ailada Ounchareonpornphat	: Resigned from Assistant to Chief Executive Officer-Support effective as of August 10, 2021
Ms. Omsin Siri	: Resigned from Vice President - Corporate Communication Department effective as of April 1, 2021
Ms Nopamas Choomklang	Resigned from Vice President - Accounting Department effective as of June 30, 2021
Mr. Narawut Tantianurak	: Resigned from Vice President - Internal Audit and Risk Management Department effective as of August 1, 2021
Mr. Anuparp Leelaratsameephanit	: Resigned from Senior Vice President - Accounting and Finance effective as of February 1, 2021

Roles and Responsibilities of the Chief Executive Officer

- Manage the business of the Company to be in accordance with laws, objectives, regulations and resolutions of the shareholders' meeting as well as policies, rules, regulations and resolutions of the Board of Directors.
- Perform duties with integrity and careful to protect the interests of the Company.
- Arrange the business plan, annual budget and operational goals including revising such plans during the year if deemed necessary in order to be consistent with the changing situation and propose to the Board of Directors for approval.
- Implement policies, business plans and budgets as approved by the Board of Directors to achieve the goals.
- Propose reports on the Company's performance and financial status for quarterly and annual including other reports that deem important to the Company's operations to the Board of Directors for consideration, acknowledgment or approval.
- Prepare or improve the organizational structure including the authority and responsibility of the executives under supervision, and propose to the Board of Directors for approval.
- Supervising the general administration of the Company to be effective including supervising the employees of the Company to strictly comply with the policies, rules, regulations, orders and resolutions of the Board of Directors and supporting anti-corruption policy by communicating to employee and related persons including review the process and measures to be in accordance with laws and regulations and up to date.
- To have authority to approve or take any action which the Board of Directors has already approved. The use of such approval authority cannot be done in the event that a person may have a conflict of interest (As defined in the Notification of the Securities and Exchange Commission) with the Company Or subsidiary. Except for the approval of normal business transactions with general trading conditions and the Board of Directors has already approved in principle under the Securities and Exchange Act.
- Perform other duties as assigned by the Board of Directors.
- The authority of the Chief Executive Officer as well as the authorizing to other persons that the Chief Executive Officer deems appropriate which will not include the authority or delegation of authority to approve any transactions that he or the person concerned may have conflicts or have interest or have any conflict of interest in any other manner or there is a conflict of interests with the Company or subsidiary (if any) or items that are not under normal business operations of the Company. The approval of such transactions must be proposed to the Board of Directors and / or the shareholders' meeting of the Company to consider and approve according to the regulations of the Company or related laws.

7.4.2 Executive's Remuneration Policy

Remuneration of the Executive

Money Remuneration

- Monetary remuneration for the executives such as salary and bonus

Year 2021	
Number of executives (person)	9
Remuneration (million baht)	136.95

Remark : Executives under SEC's Announcement (Including executives appointed and resigned during the year).

Other remuneration

- Other remuneration such as Social security fund and provident fund (The Company makes its contribution at 4, 6, 8 and 10 percent of the employee's salary) as follows:

Year 2021	
Number of executives (person)	9
Social security fund (Baht)	38,400
Provident fund (million Baht)	7.56

Remark : Executives under SEC's Announcement (Including executives appointed and resigned during the year).

7.5 Employees

Number of employees, remuneration and forms of remuneration

As of 31 December 2021, the Company has total 266 employees (Excluding executives under SEC's Announcement, directors and consultants).

- Number of employees of the Company separates by department (person)

Department	Daily/ Temporary	Full-Time	Total
Corporate Secretary, Compliance and Contract Management	-	5	5
Creating Shared Value	-	7	7
Internal Audit and Risk Management	-	3	3
Accounting	3	11	14
Finance	4	4	8
Strategy Development and Investment Planning	-	5	5
Information Technology and System Development	-	7	7
Human Resource	-	6	6
Office Management, Safety and Occupational Health Department	-	25	25

Department	Daily/ Temporary	Full-Time	Total
Corporate Communication	-	4	4
Quality Permit Insurance and Environmental Department	-	6	6
Corporate Social Responsibility	-	2	2
Sales and Marketing	-	5	5
Purchasing and Procurement	1	9	10
Factory	1	142	143
Quality Control	-	6	6
Special Project	-	6	6
Special Assistant to CEO	-	4	4

- **Number of employees of the Subsidiaries**

The Company has a total 903 employees in subsidiaries. Details are as follows:

Year 2021	
Number of executives (person)	12
Number of operating staff	891

Remark : The executives in subsidiaries consists of Vice presidents and equivalent responsible for management in subsidiaries.

Monetary remuneration and forms of remuneration

The remuneration of employees consists of monthly salary, bonus, overtime payments, social security fund and provident fund. In addition to the compensation paid to employees as consistent to the economic situation, competition, labor market, the Company also provides welfares to its employees that include medical expenses covering in and out patient case, marriage contribution and funeral contribution to employees' family.

- **Remuneration of the Company**

Year 2021	
Number of employees (person)	266
Compensation amount (million baht)	138.41

- **Remuneration of Subsidiaries**

Remuneration of the subsidiaries will be paid in the same way as the Company. Details are as follows:

Year 2021	
Number of employees (person)	903
Compensation amount (million baht)	282.28

Remark : The remuneration amount of subsidiaries already included 12 executives.

Provident Fund

Employees are currently enrolled in Energy Absolute Public Company' provident fund in the amount of 453 employees out of 907 eligible to participate, equivalent to 50%, managed by Krungsri Asset Management Co., Ltd., a management firm, disclosed information in accordance with the investment governance rules (I Code). The fund has encouraged investment by focusing on information that is in line with environmental, social and governance concerns (ESG). In collaboration with the Fund Management Company, the Fund establishes policies and appoints fund managers to invest in companies that take into account all stakeholders, including shareholders, employees, consumers, trade partners, society, and the environment.

7.6 Other important information

7.6.1 List of assigned person(s)

(1) The Company Secretary and Secretary of the Board of Directors

The Board of Directors appointed the Corporate Secretary pursuant to Section 89/15 of the Securities and Exchange Act, B.E. 2535 and the amendment (according to the Board of Directors' Meeting No. 7/2013, held on November 14, 2013 resolved to appoint Ms. Yaowalug Pukpikul as the Company Secretary and Secretary of the Board of Directors, effective as of November 14, 2013) whose roles and responsibilities are as follow:

- 1) To prepare and maintain the Company's documents, namely a registrar of directors, notices and minutes of the Board of Directors' meetings, annual reports, notices and minutes of shareholders' meetings.
- 2) To maintain reports on interest submitted by directors or executives of the Company including any other matters as notified by the Capital Market Supervisory Board regarding to the applicable law of Securities and Exchange Act.

The Company Secretary is also responsible for the following duties as required by the Board:

- Organizing meetings of the Board, sub-committees, and shareholders.
- Governing the Company's subsidiaries, including preparing and safeguarding their important documents.
- Ensuring that all shareholders are treated fairly, ethically and lawfully as well as promoting good relationship with minority shareholders.

Ms. Yaowalug Pukpikul holds a Law degree and completed Company Secretary trainings as follows:

- Bachelor of Laws, Thammasat University.
- Certificate "Merchant Marine Management", Merchant
- Marine Institute of Chulalongkorn University.
- Certificate "Marine Insurance" from Singapore National Shipping Association, Republic of Singapore.
- Company Secretary Program (CSP 56/2014), Thai Institute of Directors.
- Training Course "Internal Control and Risk Management / Value adding support strategic management" held by the Company

More Profile details appear in Attachment 1.

(2) The person supervising accounting

The Vice President of Accounting Department is assigned by position to be directly for supervising accounting. Miss Kotchanan Suwannadaj has been holding the position since October 1, 2021 (replacing Miss Nopmas Choomklang who resigned during the year 2021). She is a qualified as an accountant under the criteria prescribed by the Department of Business Development. Please see more profile details as appear in Executive Profile in Attachment 1.

(3) Head of the Office of Internal Audit

The Vice President of Internal Audit and Risk Management is assigned by position to be Head of the Internal Audit. Miss Aiyaret Boonyaruang has been holding the acting in this position since November 10, 2021 (replacing Mr. Narawut Tantianurak). More profile details appear in Part 2 “**9. Internal Control and Connected Transactions**” and details of the Head of the Internal Audit and Risk Management Department also appear in Attachment 3.

7.6.2 Head of the Office of Investor Relations and Contact Information

The Company sets up department related to “Investor Relations or IR” by appointing the Corporate Communication Division to be mainly responsible for Investors Relations in order to communicate with external parties such as shareholders, institution investors, public investors, analysts and related public sectors with fairness and justice and to enable them to meet the Company’s executives as considered appropriate under the policy that the information provided has been disclosed to the public. In the year 2020, the Company has prepared the investor relations ethics of the company. To be used as a framework and guideline for the investor relations operator of the company with the following requirements

- Disclose important and necessary information to make investment decisions accurately, adequately, timely in accordance with related regulations.
- Do not use inside information for personal benefit or for others, including refraining from buying-selling, transferring-accepting the Company's securities within 1 month before disclosing the financial statements and at least 1 day after the financial statements are disclosed as well as refrain from meeting and/or providing information about the Company's performance to outsiders at least 2 weeks before the disclosure of the financial statements.

In this connection, Mr. Vasu Klomklang, Acting Vice President of the Corporate Communication Division was assigned to be responsible for Investor Relations since April 1, 2021 (replacing Miss Omsin Siri who resigned during the year 2021). All shareholders, investors and interested parties can contact the Investor Relations unit for any inquiries or more information via mailing or direct contact on the following channel:

Investor Relations unit:

Energy Absolute Public Company Limited
16th Floor, AIA Capital Center Building,
No. 89 Ratchadaphisek Road, Dindaeng Subdistrict,
Dindaeng District, Bangkok 10400 Thailand
Tel: 0 2248 2488-92, 0 2002 3667-9 Ext.19531
E-mail: ir@energyabsolute.co.th

7.6.3 Audit Fee

For the fiscal year ended December 31, 2021, the Company and its subsidiaries has paid remuneration to the auditor for the auditing of financial statements (Audit Fee) in the total amount of 12,477,185.00 Baht, which is divided into the audit fees of the Company in the amount of 2,427,600.00 Baht, and the audit fees of the subsidiary companies in the amount of 10,049,585.00 Baht, and other non-audit fees of the Company and its subsidiaries for certification purposes by BOI, in the amount of 700,000 Baht which will be paid in the future as a result of unfinished audit service in the previous fiscal year.

8. Key Performance in Corporate Governance

8.1 Performance of the Board of Directors in 2021

The Board of Directors has reviewed and improved the Company's Manual, which consists of organizational culture (Vision, Mission, Values), Code of Business Ethics, Code of Conduct for Directors, Management and Employees, Corporate Governance, Social Responsibility, and Anti-Corruption policy to be in conformity with the principles of the Corporate Governance Code for Listed Companies 2017 of the Office of the Securities and Exchange Commission (SEC), which will serve as a guideline for Directors, executives and employees at all levels as work practice to enhance efficiency. This will build confidence in all stakeholders.

8.1.1 Nomination, Development and Performance Assessment of Directors

The Board has assigned the Nomination and Remuneration Committee to nominate qualified candidates to be appointed as directors from the list proposed by the major and minor shareholders. The Nomination and Remuneration Committee will consider the qualifications of directors and independent directors.

Qualifications of Independent Directors

At the Board of Directors Meeting No. 1/2021 on 4 February 2021, concurred with the Corporate Governance and Sustainability Committee, proposed the revised definition of the independence of directors, which is more stringent than the criteria set by the Securities and Exchange Commission (SEC) and the Stock Exchange of Thailand (SET):

- (1) Holding no more than 0.8% of total voting shares of the Company, parent company, subsidiaries, associate company, major shareholder or controlling person of the Company, including shares held by the connected persons of such independent director
- (2) Not being or having been an executive director, employee, staff, advisor earning regular monthly salary or the controlling person of the Company, its parent company, subsidiary, associate company, same-level subsidiary, major shareholder or controlling person, unless the foregoing status has ended for at least two years prior to the date of filing the application with the SEC Office. In this regard, such prohibited characteristics shall exclude the case where an independent director used to be a government official or advisor of a governmental agency, which is a major shareholder or the controlling person of the Company.
- (3) Not being a person who is related by blood or legal registration as father, mother, spouse, sibling and child, including spouse of child, other directors, executives, major shareholders, controlling person or person to be nominated as director, executive or controlling person of the Company or its subsidiary.
- (4) Not having or having had a business relationship with the Company, its parent company, subsidiary, associate company, major shareholder or controlling person in a manner that may interfere with independent discretion, which includes not being or having been a significant shareholder, director who is not independent director or the executive having a business relationship with the Company, its parent company, subsidiary, associate company, major shareholder or

controlling person, unless such foregoing relationships have ended for at least two years prior to the date of filing the Company with the SEC Office.

- (5) Not being or having been an auditor of the applicant, its parent company, subsidiary, associate company, majority shareholder, or controlling person, and not being a significant shareholder, controlling person, or partner of the audit firm which employs the auditor of the applicant, its parent company, subsidiary, associate company, majority shareholder, or controlling person, unless the foregoing relationship has ended for not less than 2 years prior to the date of filing the application with the SEC Office.
- (6) Not being or having been a provider of professional services, which includes serving as a legal advisor or financial advisor being paid with a service fee of more than two million baht per year by the applicant, its parent company, subsidiary, associated company, majority shareholder, or controlling person, and not being a significant shareholder, controlling person, or partner of such provider of professional services, unless the foregoing relationship has ended for not less than two years prior to the date of filing the application with the SEC Office.
- (7) Not being a director who is appointed as the representative of directors of the applicant, major shareholder, or shareholder who is a connected person of a majority shareholder.
- (8) Not undertaking any business of the same nature and in significant competition with the business of the applicant or its subsidiary, or not being a significant partner in a partnership, or an executive director, employee, staff, advisor earning regular monthly salary, or holding more than one (1) percent of the voting shares of another company that undertakes a business of the same nature and in significant competition with the business of the applicant or its subsidiary.
- (9) Not having any other characteristics that cause the inability to express independent opinions on the business operation of the applicant.

Nomination and appointment of the directors and CEO

1. Nomination of the directors

In 2021, three directors were retired by rotation and re-elected to serve as directors for another term, i.e., 1) Mr. Amorn Saphaweeikul (Director (Authorized Director) / Member of Executive Committee / Member of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee) 2) Mr. Sutham Songsiri (Director / Member of Executive Committee / Member of Risk Management Committee / Member of Corporate Governance and Sustainability Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee) and 3) Mr. Somboon Ahunai (Director / Member of Executive Committee). No shareholders nominate any person to be considered as the Company's director, and no new directors have been appointed to replace the existing.

The Board has assigned the Nomination and Remuneration Committee to moderate the appropriate person to be appointed as a director of the Company. In this respect, information on the appointment and removal of directors, criteria for shareholders to propose the names of persons to be directors, and the qualifications of directors is reported under Section 2, Corporate Governance, "7.2.3 Information regarding the Roles and Duties of the Board of Directors".

2. Nomination CEO

The Board has assigned the Nomination and Remuneration committee to consider qualifications and monitor the succession plan of the Chief Executive Officer. The Nomination and Remuneration Committee will consider the qualifications of the nominee for the position of Chief Executive Officer and recommend it to the Board of Directors for approval.

Director Development

For the year 2021, there were additional directors who attended the training as follows:

Director	Training / Public Lecture
Mr. Somphote Ahunai	- Public Lecture on “Global and Domestic Environment with the stability in energy sector” by National Defence College of Thailand - Public Lecture on “Global and Domestic Environment with the stability in energy sector” by National Defence College of Thailand - Public Lecture on “Monthly Update Meeting” by Bangkok University - Public Lecture on “Thailand’s Best Practice” by King Prajadhipok’s Institute - Public Lecture on “Climate Actions Our Efforts, Our Common Responsibility” by Thailand Greenhouse Gas Management Organization (Public Organization) - Public Lecture on “Thai EV’s direction to Sustainability” by Society of Automotive Engineers – Thailand (TSAE)
Mr. Amorn Sapthaweeikul	Cash Flow – 7 hours

The 2021 Performance Assessment of the Board and the Sub-committees

In 2021, the Board and sub-committees were evaluated individually and collectively, with the evaluation criteria as a percentage of the full score. The summary of the evaluation results is as follows:

	Collective basis (%)	Individual basis (%)
Board of Directors	99.03	100
Audit Committee	99.00	99.33
Nomination and Remuneration Committee	98.75	99.50
Risk Management Committee	93.06	93.18
Corporate Governance and Sustainability Committee	98.92	99.00
Executive Committee	98.92	98.00
Strategic Planning Committee	92.65	93.18

8.1.2 Meeting attendance and individual of directors compensation

Meeting attendance

The Board of Directors' Meeting is required at least once in every three (3) months, with a pre-scheduled meeting for the entire year, and a special session may be held as necessary. The Chairman of the Board of Directors or delegates send the meeting notices and supporting documents to the directors not less than seven (7) days prior to the meeting date, unless in a case of necessity or urgency for the purpose of maintaining the rights and interests of the Company, the summoning of the meeting may be made by other methods and the date of the meeting may be fixed sooner. Meetings are scheduled in advance annually.

In 2021, due to the COVID-19 pandemic so the chairman allowed to schedule an online meeting, In 2021, there were seven (7) meetings of the Board of Directors, five (5) regular meetings and two (2) special meetings, with one (1) meeting of directors without executives.

Attendance of the Board and Sub - Committee Meetings for 2021

Name	Position	Board of Directors and Sub-committee Meeting in 2021									
		Board of Directors total 7 meetings	Executive Committee total 12 meetings	Audit Committee total 9 meetings	Nomination Committee** total 1 meetings	Remuneration Committee** total 1 meetings	Nomination and Remuneration Committee total 2 meetings	Risk Management Committee total 6 meetings	Corporate Governance and Sustainability Committee total 4 meetings	Strategic Planning Committee total 2 meetings	Annual General Meeting
1. Mr. Somchainuk Engtrakul	Chairman of the Board / Independent Director	7/7	-	-	-	-	-	-	-	-	1/1
2. Mr. Somphote Ahunai	Vice Chairman of the Board / Chairman of Strategic Planning Committee / Chairman of Executive Committee / Member of Risk Management Committee	5/6*	8/12	-	-	-	-	6/6	-	2/2	1/1
3. Mr. Anorn Saphaweekul	Director / Member of Executive Committee / Member of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee	6/6*	12/12	-	-	1/1	2/2	6/6	-	2/2	1/1
4. Mr. Wuthilerd Chiannikulchai	Director / Member of Executive Committee / Member of Risk Management Committee	7/7	12/12	-	-	-	-	6/6	-	-	1/1
5. Mr. Sutham Songsiri	Director / Member of Executive Committee / Member of Risk Management Committee / Corporate Governance and Sustainability Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee	7/7	11/12	-	-	1/1	2/2	5/6	4/4	2/2	1/1
6. ACM. Chaihan Thumasujarit	Independent Director / Chairman of Audit Committee / Chairman of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Corporate Governance and Sustainability Committee	5/7	-	9/9	1/1	1/1	2/2	6/6	4/4	-	1/1

Board of Directors and Sub-committee Meeting in 2021											
Name	Position	Board of Directors total 7 meetings	Executive Committee total 12 meetings	Audit Committee total 9 meetings	Nomination Committee** total 1 meetings	Remuneration Committee** total 1 meetings	Nomination and Remuneration Committee total 2 meetings	Risk Management Committee total 6 meetings	Corporate Governance and Sustainability Committee total 4 meetings	Strategic Planning Committee total 2 meetings	Annual General Meeting
7. M.R. BravoChat Chatchai	Independent Director / Member of Audit Committee / Chairman of Corporate Governance and Sustainability Committee / Chairman of Nomination and Remuneration Committee / Member of Risk Management Committee	7/7	-	9/9	1/1	1/1	2/2	6/6	4/4	-	1/1
8. Pol.Gen. Patcharavat Wongsuwan	Independent Director / Member of Risk Management Committee	0/7	-	-	-	-	-	0/6	-	-	0/1
9. Mr. Somboon Ahunai	Director / Member of Executive Committee	5/7	11/12	-	-	-	-	-	-	-	1/1
10. Mr. Amornsuk Noparumpa	Independent Director	5/7	-	-	-	-	-	-	-	-	1/1
11. Mr. Somphop Keerasuntonpong	Independent Director / Member of Audit Committee / Member of Corporate Governance and Sustainability Committee / Member of Nomination and Remuneration Committee	7/7	-	9/9	1/1	1/1	2/2	-	4/4	-	1/1

Remask: * Exclude Non-Executive Meeting

** During the year 2021, the Board approved the combination of the Nomination Committee and the Remuneration Committee as one sub-committee and it shall be the "Nomination and Remuneration Committee"

The reason for unattended director was due to engaging in other business

Remuneration Directors

In 2021, the Annual General Meeting of Shareholders resolved to approve the director remuneration as follows:

1. Monthly fee of the Board
 - Chairman 60,000 THB / month
 - Vice Chairman 55,000 THB / month
 - Directors 50,000 THB / month
2. Meeting allowances fee of Sub-committee:
 - Audit Committee, Nomination and Remuneration Committee, Corporate Governance and Sustainability Committee, Risk Management Committee, Strategic Planning Committee (only the directors who attend the meeting) are approved as a limit, with each payment and position as follows:
 - Chairmen of Sub-Committees 25,000 THB / meeting
 - Members of Sub-Committees 20,000 THB / meeting
 - Executive payment 20,000 THB / person / meeting (The payment will be made only for member who has no received any monthly salary or consulting fees)
3. Annual Bonus
 - Chairman 2,000,000 THB
 - Vice Chairman 1,750,000 THB
 - Directors 1,500,000 THB / person
4. Other Remuneration
 - None -

The Remuneration for Directors in 2021

Name	Annual Bonus 2020 Paid in 2021	Remuneration for Directors (Monthly)	Meeting allowance for 2021					Total (Baht)
			Executive Committee	Audit Committee	Nomination and Remuneration Committee	Risk Management Committee	Corporate Governance and Sustainability Committee	Strategic Planning Committee
1. Mr. Somchainuk Engtrakul	⊗ 2,000,000.00	600,000.00						2,600,000.00
2. Mr. Somphote Ahunai	★ 1,711,748.63	540,000.00	⊗ -		✓ 120,000.00	✓ 120,000.00	⊗ 50,000.00	2,421,748.63
3. Mr. Anorn Saphaweekul	✓ 1,500,000.00	480,000.00	✓ -		✓ 40,000.00	✓ 120,000.00	✓ 40,000.00	2,180,000.00
4. Mr. Wuthilerd Chiannilkulchai	✓ 1,500,000.00	480,000.00	✓ -		✓ 120,000.00			2,100,000.00
5. Mr. Sutham Songsiri	✓ 1,500,000.00	480,000.00	✓ -		✓ 40,000.00	✓ 100,000.00	✓ 80,000.00	2,200,000.00
6. ACM. Chainan Thumasujarit	✓ 1,500,000.00	480,000.00	⊗ 200,000.00	✓ 40,000.00	⊗ 150,000.00	✓ 80,000.00		2,450,000.00
7. M.R. Bravochat Chatchai	✓ 1,500,000.00	480,000.00	✓ 160,000.00	⊗ 50,000.00	✓ 120,000.00	⊗ 100,000.00		2,410,000.00
8. Pol.Gen. Patcharavat Wongsuwan	✓ 1,500,000.00	480,000.00						1,980,000.00
9. Mr. Somboon Ahunai	✓ 1,500,000.00	480,000.00	✓ -					1,980,000.00
10. Mr. Amornsuk Noparumpa	✓ 1,500,000.00	480,000.00						1,980,000.00
11. Mr. Somphop Keerasuntongpong	✓ 1,036,885.25	480,000.00	✓ 160,000.00	✓ 40,000.00	✓ 80,000.00	✓ 40,000.00		1,836,885.25
Director resigned during the year 2020								
1. Mr. Chaiwat Pongpitsakul	✓ 463,114.75	0.00						463,114.75
Total	17,211,748.63	5,460,000.00	0.00	520,000.00	210,000.00	730,000.00	340,000.00	24,601,748.63

Remark: ⊗ = Chairman ★ = Vice Chairman ✓ = Director, Sub-committee member

8.1.3 Governance of Subsidiaries and Associates

The Company has established a policy of supervision of the Company's operations in which the Company holds shares (subsidiaries, associates) closely to maintain the interests of the Company's investments continuously, as well as to create added value and confidence for the Company's stakeholders, executives or controlling authorities in subsidiaries and associates in proportion to the shareholding. To ensure that the subsidiaries and associates have complete and accurate regulations regarding connected transactions, acquisition or disposition of properties or any other important transaction.

8.1.4 Monitoring of Compliance with Corporate Governance Policy and Guideline

1) Prevention of Conflicts of Interest

The Company determines to disclose information to prevent conflicts of interest and transactions that may have conflicts of interest for directors and executives.

2) Maintenance of internal data usage

- The Company has measures to prevent the unlawful use of internal information by directors, executives and employees in the department related to the information, including spouses and underage children of such persons, by prohibiting the purchase and sale, transfer and transfer of the Company's securities within 1 month prior to the disclosure of quarterly financial statements and annual financial statements, and at least 1 day after the disclosure of such financial statements.
- The Company's directors, executives, and relevant employees will be notified in writing of the black-out period before public disclosure of information material to changes in securities prices, in order for that information to be made public first.
- The securities holdings of the Company's directors and executives will be disclosed in annual report and on the Company's website. In addition, the securities holdings of the Company's directors will be reported to the Board of Directors Meetings.

3) Corporate governance, code of conduct, and anti-corruption activities

The Company provides training on good corporate governance, business ethics, and anti-corruption to employees, as well as requiring knowledge tests through the E-Learning system to be used as a guideline for operations.

Directors and Executives' (according to the definition of SEC) Shareholding in the Company in 2021
(including spouse and minor children)

Name – Surname	Shareholding as at		Share	Remark
	30 Dec 2021	30 Dec 2020	Increase/(decrease) during the year	
Directors				
1. Mr. Somchainuk Engtrakul	-	-	-	-
2. Mr. Somphote Ahunai	865,736,386	876,436,386	(10,700,000)	-
Held by Trustee	643,470,000	632,770,000	10,700,000	
Held by spouse	24,983,607	24,983,607	-	-
3. Mr. Amorn Saphthaweeikul	72,968,316	74,968,316	(2,000,000)	-
Held by Custodian	27,000,000	25,000,000	2,000,000	-
Held by spouse	25,823,087	25,823,087	-	-
4. Mr. Wutthilerd Chiannilkulchai	15,332,849	15,332,849	-	-
5. Mr. Sutham Songsiri	1,000,000	1,300,000	(300,000)	-
6. ACM Chainan Thumasujarit	-	-	-	-
7. M.R. Bravochat Chatchai	-	-	-	-
8. POL. GEN. Phatcharavat Wongsuwan	1,140,000	1,140,000	-	-
9. Mr. Somboon Ahunai	6,992,951	8,293,951	(1,301,000)	-
10. Mr. Amornsuk Noparumpa	-	-	-	-
11. Mr. Somphop Keerasuntonpong	-	-	-	
Executives (according to definition of SEC)				
1. Mr. Somphote Ahunai	865,736,386	876,436,386	(10,700,000)	-
Held by Trustee	643,470,000	632,770,000	10,700,000	-
Held by spouse	24,983,607	24,983,607	-	-
2. Mr. Amorn Saphthaweeikul	72,968,316	74,968,316	(2,000,000)	-
Held by Custodian	27,000,000	25,000,000	2,000,000	-
Held by spouse	25,823,087	25,823,087	-	-
3. Ms. Supaporn Ahunai	23,997,049	24,217,049	(220,000)	Appointed during 2021
Held by spouse	1,000,000	1,010,000	(10,000)	-
4. Ms. Wimolmas Wongmakornpan	17,600	17,600	-	Appointed during 2021
5. Mr. Vasu Klomklang	-	-	-	-
6. Ms. Kotchanan Suwannadaj	-	N/A	N/A	Appointed during 2021
Executives who resigned during 2021				
1. Mr. Anuparp Leelaratsameephanit	N/A	-	N/A	Resignation: effective from 1 February 2021
2. Ms. Nopamas Choomklang	N/A	-	N/A	Resignation: effective from 30 June 2021
3. Ms. Ailada Ounchareonpornphat	N/A	-	N/A	Resignation: effective from 10 August 2021

Remark: N/A means no information due to the executives was appointed or resigned during 2021.

8.2 Performance Report of Audit Committee

8.2.1 Report of Audit Committee

Dear Shareholders,

The Audit Committee of Energy Absolute Public Company Limited consists of 3 Independent Directors, and one of them must be competent and experienced to review the reliability of the financial statement. They are, therefore, qualified in accordance with the regulations of the Stock Exchange of Thailand and independently performed its duties as specified in the Audit Committee Charter.

The Audit Committee comprises of

- | | |
|--------------------------------|--|
| 1. ACM. Chainan Thumasujarit | Chairman of Audit Committee and Independent Director |
| 2. M.R. Bravochat Chatchai | Member of Audit Committee and Independent Director |
| 3. Mr. Somphop Keerasuntonpong | Member of Audit Committee and Independent Director |
- (be competent and experienced to review the reliability of the financial statements)

In 2021, the Audit Committee held 9 meetings attended by all 3 members, with 100 percent of the members attending. The Audit Committee invited executives to attend the meeting in the agenda related to them, and invited the internal audit officer to report the internal audit result including certified public accountant to propose the financial statement, clarify the facts and report the audit result with supporting evidence in each quarter.

The Audit Committee strictly complied with the Audit Committee Charter which approved by the Board of Directors and reported to the Board of Directors with suggestions as a guideline for the Management. The substance is described as follows;

1. The quarterly and annual financial statements for the year 2020 of Energy Absolute Public Co., Ltd. and consolidated financial statements were reviewed and audited by the auditors before submitting to the Board of Directors. This procedure was to ensure that the preparation of financial statements, accounting transactions with related companies would be accurate in accordance with accounting standard and legal requirement. The notes to financial statements were added with adequate information. Additionally, the related management team and the auditors were invited to attend the meeting to clarify and answer the inquiries of the Audit Committee regarding to the accuracy, adequacy, significant adjustment which affect its financial statements and auditor's opinions after considered and reviewed financial statements. The Audit Committee had an opinion that the financial statements was prepared in accordance with generally accepted accounting principles, accurate and reliable.

In addition, the Audit Committee arranged a meeting, together with the external auditor, in the absence of the executives every quarter, discussed significant information and internal control system related to accounting and financial reports and other matters including obstacles occurred during work. The Committee found that the auditors had received full cooperation from the management and had exercised full performance with complete independence. In addition, the

external auditors were deemed to be knowledgeable, with experience and expertise commensurate with their duties as auditors.

2. The Audit Committee assessed and reviewed the adequacy of the internal control system under the guidance of the Securities and Exchange Commission and the internal audit result of the Internal Audit Unit. The assessment was based on the report of the internal audit result conducted by the Internal Audit Unit and auditors. The Audit Committee instructed the Internal Audit Unit to monitor the matters that need to be corrected or improved to ensure that the Management has corrected or improved as per suggestions of the Internal Audit within the prescribed period of time, including encouraging the Internal Audit Unit to provide a risk management assessment for the preparation of an audit plan to cover all significant activities of the Company. The Audit Committee had an opinion that the internal control system of the Company is effective and adequate, without any significant defects and the Internal Audit Unit was independent. The Audit Committee has approved the Internal Audit Plan for the year 2022 which focuses on the operation that results in the efficiency, effectiveness and the continual development.
3. The Audit Committee promoted, supported and pushed the Company to provide adequate and proper anti-corruption measures to prevent corruption risk from business transactions such as anti-corruption manual, internal and external communication, whistleblowing channel, anti-corruption risk assessment and internal control and reviewed the compliance with anti-corruption measures. The Audit Committee had an opinion that the anti-corruption measure of the Company is proper and adequate.

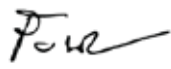
In 2022, the Audit Committee has set to assess the readiness to apply for renewal as a member of the Collective Action against Corruption, which expires on 30 June 2023.

4. The Audit Committee reviewed the compliance with Securities and Exchange Act of Thailand, regulations of the Stock Exchange of Thailand, laws related to the business and the policy of the Company. The Audit Committee considered that the Company has appropriately complied with the laws and regulations.
5. Review the related transactions or the transaction that may have a conflict of interest: The Audit Committee reviewed the related transactions or the transaction that may have a conflict of interest which was classified as a related transaction pursuant to the Notification of the Securities Exchange Commission of Thailand and the Securities and Exchange Commission. It was considered that the said transactions proceeded in accordance with the articles of association which adhering to the compliance with the notification of the Stock Exchange of Thailand. The related transactions were proceeded with the reasonable ground, taking into account the highest benefits of the Company and adequate disclosed.
6. To encourage having a risk management system and risk management policy, which is responsible for risk management committees to cover both potential opportunities and consequences, as well as develop a risk management plan to prevent or minimize the potential impact to an acceptable level.

7. The Audit Committee selected and proposed for an appointment of auditor and auditing fee based on transparency, independence and good corporate governance including the performance of the auditor in the previous year. Additionally, the Audit Committee also considered the reputation, reliability, the ability to perform auditing and certify on financial statements in time.
8. The Audit Committee reviewed the Audit Committee Charter with an opinion that the Charter was appropriate and in line with criteria of the Stock Exchange of Thailand and good corporate governance.
9. To conduct a fraud investigation by setting up a variety of systems and channels for receiving complaints or whistleblowers for ease of providing the complainant's information or whistleblowers, including on the website, www.energyabsolute.co.th, by email at chairman.audit.com@energyabsolute.co.th, by letter, or by telephone to the Audit Committee, as well as establishing confidentiality measures to protect whistleblowers.
10. To support the use of technology in operations in order to improve efficiency and effectiveness, as well as to control operations in accordance with the Company's regulations. This is to reduce any mistakes or the possibility of fraud, such as by implementing Robotic Process Automation (RPA) in process.
11. The Audit Committee evaluates its own performance on an annual basis. This is to ensure that the Audit Committee's performance is effective, as well as to promote and support corporate governance through collective and individual assessment. In 2021, the average collective assessment was 99 percent, and the average individual assessment was 99.33 percent.

In conclusion, the Audit Committee sufficiently maintained its independence and fulfilled its duties in monitoring with proficiency in accordance with the roles and responsibilities prescribed in the Audit Committee Charter as well as giving opinions and suggestions for the benefits and equitable treatment of stakeholders. The Audit Committee was of the opinion that the Company's financial statement is accurate, reliable and consistent with general financial reporting standards. The Company operates activities to comply with the laws, obligations relevant to the business including good corporate governance, compliance with rules and regulations and sufficient internal control systems with an effectiveness and efficiency of internal audit.

Energy Absolute Public Company Limited

ACM 
(Chainan Thumasujarit)
Chairman of Audit Committee

8.3 Performance Report of Sub-committees

Report of Corporate Governance and Sustainability Committee

Dear Shareholders,

The Corporate Governance and Sustainability Committee of Energy Absolute Public Company Limited performs its duties by supporting the Board of Directors in determining criteria and practices in various fields to be in conformity to the good corporate governance principles and to operate a business with social responsibility

The Corporate Governance Committee comprises of 4 members (3 independent directors) namely below.

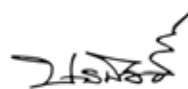
- | | |
|--------------------------------|--|
| 1. M.R. Bravochat Chatchai | Chairman of the Corporate Governance and Sustainability Committee and Independent Director |
| 2. ACM. Chainan Thumasujarit | Member of the Corporate Governance and Sustainability Committee and Independent Director |
| 3. Mr. Somphop Keerasuntonpong | Member of the Corporate Governance and Sustainability Committee and Independent Director |
| 4. Mr. Sutham Songsiri | Member of the Corporate Governance and Sustainability Committee |

In 2021, the Corporate Governance Committee performed its duties as assigned by the Board of Directors. Total 4 meetings were held to consider the following matters

1. In 2021, the Board resolved to change the name of the Corporate Governance Committee to the Corporate Governance and Sustainability Committee to expand the duties and responsibilities of the Corporate Governance Committee and to cover the sustainability.
2. To oversee the improvement of corporate governance and performance assessment. The Corporate Governance and Sustainability Committee monitored the improvement of corporate governance to ensure the conformity with good corporate governance principles. In 2021, the Stock Exchange of Thailand (SET) and the Thai Institute of Directors (IOD) collaborated in taking the survey on the corporate governance of the Thai listed companies. The Corporate Governance Assessment (CG 2021) scored 5 stars The Corporate Governance and Sustainability Committee is committed to develop and improve the corporate governance coupling with the growth of the Company Group, as well as to elevate to ASEAN corporate governance (ASEAN CG Scorecard).
3. To enhance and support using the result of quality assessment of AGM by Thai Investors Association (TIA) to be used as a guideline to maintain the quality of AGM in the future.
4. To review and amend the Corporate Governance and Sustainability Committee Charter to be at the current state and consistent with the responsibility of the Corporate Governance and Sustainability Committee.

5. To conduct self-assessment for both collectively and individually assessment. The performance assessment result on a collective basis was 98.92 percent and individual basis was 99.00 percent.

Energy Absolute Public Company Limited



(M.R. Bravochat Chatchai)

Chairman of the Corporate Governance and Sustainability Committee

Report of Nomination and Remuneration Committee

Dear Shareholders,

The Nomination and Remuneration Committee of Energy Absolute Public Company Limited is responsible for supporting the Board of Directors in nominating and proposing for qualified persons with knowledge and skills that suit the position of directors and top executives, and also sets the policy, form and criteria of the remuneration for directors, sub-committees and Chief Executive Officer of the Company in compliance with good corporate governance in order to create more transparency and fairness. The responsibility Includes proposing the opinion to the Board of Directors and shareholders' meeting.

The Nomination and Remuneration Committee comprises of

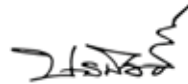
- | | |
|--------------------------------|--|
| 1. M.R. Bravochat Chatchai | Chairman of Nomination and Remuneration Committee and Independent Director |
| 2. ACM. Chainan Thumasuarit | Member of Nomination and Remuneration Committee and Independent Director |
| 3. Mr. Somphop Keerasuntonpong | Member of Nomination and Remuneration Committee and Independent Director |
| 4. Mr. Sutham Songsiri | Member of Nomination and Remuneration Committee |
| 5. Mr. Amorn Saphaweekul | Member of Nomination and Remuneration Committee |

In 2021, the Nomination and Remuneration Committee performed their duties as assigned by the Board of Directors. 2 meetings were held to consider and proceed with the following matters.

1. To consider and nominate directors who retired by rotation to re-elect to be the directors for another term. The Nomination Committee considered and selected the duly qualified persons who had no involvement in prohibited characteristics as stipulated by the Securities and Exchange Commission of Thailand. The nominated persons were proposed to the Board of Directors, before proposing to the General Meeting of Shareholders for appointment as a director to replace the directors who retired by rotation.
2. To allow shareholders to propose names of the qualified person to be nominated as a director of the Company, which appeared to be none Shareholders nominate a person to be selected as the Company's director At the Annual General Meeting of Shareholders for the year 2021.
3. To consider succession plan for top management positions and senior management position.
4. To review the Nomination and Remuneration Committee Charter to ensure compliance with the good corporate governance and the compatibility with current duties.
5. To consider and propose the bonus to director based on the last year performance by referring to the result of self-assessment and operating result compared to the target setting.
6. To propose the remuneration of directors and sub-committees to the Board of Directors and shareholders' meeting including the budget allocation to be the bonus to director in each year.

7. To consider the performance evaluation of Chief Executive Officer to be in line with the Company's goal and plan for the year as well as the performance assessment in accordance with SET's criteria.
8. To consider the performance of the Chief Executive Officer including propose the opinion about salary and bonus for the year.
9. In 2021, the Remuneration Committee organized the self-assessment for both collectively and individually assessment. The self-assessment result on a collective basis was 98.75 percent and individual basis was 99.50 percent.

Energy Absolute Public Company Limited



(M.R. Bravochat Chatchai)

Chairman of the Nomination and Remuneration Committee

Report of Strategic Planning Committee

Dear Shareholders,

The Strategic planning Committee of the Energy Absolute Public Company Limited (“the Company”) consists of 3 members from the Board of Directors. All of them are qualified with knowledge, specific skills that cover the determination and management of strategic direction which is beneficial to the business of the Company Group.

The Strategic Planning Committee consists of

- | | |
|--------------------------|--|
| 1. Mr. Somphote Ahunai | Chairman of Strategic Planning Committee |
| 2. Mr. Amorn Saphaweekul | Member of the Strategic Planning Committee |
| 3. Mr. Sutham Songsiri | Member of the Strategic Planning Committee |

The Strategic Planning Committee has performed its duties as assigned by the Board of Director and in accordance with the Strategic Planning Charter. In 2021, the Strategic Planning Committee held 2 meetings. The substance of the meetings is summarized as follows:

1. To consider the Strategic Planning Committee Charter in order to stipulate the responsibilities, composition and qualifications, term of office, meeting schedule as a practice guideline.
2. To monitor and approach the business operation, the investment of new projects of the Company to be in accordance with the scope approved of the Board of Directors.
3. To review the strategic direction of the Company and the group company
4. In 2021, the Strategic Planning Committee organized the self-assessment for both collectively and individually assessment. The self-assessment result on a collective basis was 92.65 percent and individual basis was 93.18 percent

Under the strategic planning direction as set, the Strategic Planning Committee is committed to driving the Company and Group Company to be an efficient sustainable growth and effectiveness towards.

Energy Absolute Public Company Limited



(Mr. Somphote Ahunai)

Chairman of Strategic Planning Committee

Report of Risk Management Committee

Dear Shareholders,

The Risk Management Committee of the Energy Absolute Public Company Limited (the “**Company**”) consists of 7 members from the Board of Directors, 3 of whom were independent directors. All of them are qualified with knowledge, specific skills that cover the risk management function which is beneficial to the business of the Company Group.

The Risk Management Committee consists of:

- | | |
|-----------------------------------|--|
| 1. ACM Chainan Thumasujarit | Chairman of Risk Management Committee and Independent Director |
| 2. M.R. Bravochat Chatchai | Member of the Risk Management Committee and Independent Director |
| 3. Pol.Gen. Patcharawat Wongsuwan | Member of the Risk Management Committee and Independent Director |
| 4. Mr. Somphote Ahunai | Member of the Risk Management Committee |
| 5. Mr. Amorn Saphaweekul | Member of the Risk Management Committee |
| 6. Mr. Wutthilerd Chiannilkulchai | Member of the Risk Management Committee |
| 7. Mr. Sutham Songsiri | Member of the Risk Management Committee |

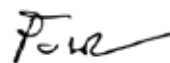
The Risk Management Committee has performed its duties as assigned by the Board of Director and in accordance with the Risk Management Charter. In 2021, the Risk Management Committee held 6 meetings. The substance is summarized as follows:

1. To consider the Risk Management Committee Charter in order to stipulate the responsibilities, composition and qualifications, term of office, meeting schedule as a practice guideline
2. To follow up major projects of the Company, to give advice and suggest the solution to reduce risks that may occur.
3. To follow up operation, investment of new business projects of the Company to be in line with the direction and scope approved by the Board of Directors
4. The review the Risk Management framework, to determine level/change, impact and damage level precisely in order to adhere to as a guide for assessing the severity of the risk and risk management. The risk identification for business operation of the Company and the Company Group are classified in 7 types as follows:
 - 1.) Strategic Risk
 - 2.) Operational Risk
 - 3.) Financial Risk
 - 4.) Compliance Risk
 - 5.) Business Operation Risk
 - 6.) Emerging Risk
 - 7.) Social Risk
5. In 2021, the risk management committee organized the self-assessment for both collectively and individually assessment. The self-assessment result on a collective basis was 93.06 percent and individual basis was 93.18 percent.

The Risk Management Committee strives to perform its duties to cause the adequate supervision and risk management, to ensure that such risks are within acceptable ranges and to promote the efficient and effective business operation of the Company Group.

Energy Absolute Public Company Limited

ACM



(Chainan Thumasujarit)

Chairman of Risk Management Committee

Report of the Executive Committee

Dear Shareholders

The Executive Committee of Energy Absolute Public Company Limited, appointed by the Board of Directors, is responsible for assisting, supporting and serve the board-level-oversight role to monitor and manage the Company's business to be in line with strategy, policy, business operation plans, regulation as well as the objectives and main target which approved by the Board of Directors in order to perform the business efficiently and comply with the Company's corporate governance policy.

The Executive Committee comprises of

- | | |
|-----------------------------------|---|
| 1. Mr. Somphote Ahunai | Chairman of Executive Committee and Chief Executive officer |
| 2. Mr. Amorn Saphaweeikul | Member of Executive Committee and Deputy CEO |
| 3. Mr. Somboon Ahunai | Member of Executive Committee |
| 4. Mr. Sutham Songsiri | Member of Executive Committee |
| 5. Mr. Wutthilerd Chiannilkulchai | Member of Executive Committee |

In 2021, the Executive Committee performed its duties delegated by the Board of Directors. The total 12 meetings were held to consider the following significant matters which summarized as.

1. Consider and review direction of business operation, strategy and business plan of the Company and its subsidiaries

The Executive Committee considered and reviewed direction of business operation, strategy and business plan of the Company and its subsidiaries in each line of business, by specifying that the meeting shall be arranged and such plans shall be conveyed to the management and the employees at all levels for their acknowledgement and compliance, so that the targets should be achieved as per specified.

2. Review and monitor performance of the Company and its subsidiaries

The Executive Committee reviewed and monitored performance of the Company and its subsidiaries every month, in order to drive goal achievement of business operations.

3. Consider and approve the Company's annual budget

The Executive Committee considered and approved the Company's annual budget prior to further approve of the Board of Directors.

4. Consider the Company's investment and operations

The Executive Committee considered the Company's investment including financial transactions and credits which are important for business and operations as assigned by the Board of Directors.

5. Promote and support Anti-Corruption policy

The Executive Committee promoted and supported the anti-corruption policy to communicate with the employees and related parties.

6. Self-evaluation of the Executive Committee

The Executive Committee has conducted a self-assessment for the year 2021, that there are 3 topics as the structure and qualifications, roles and responsibilities and meeting of the Executive Committee. The assessment result on a collective basis was 98.92 percent and individual basis was 98.00 percent in order to use for improving with aims to increase efficiency of the operations.

Energy Absolute Public Company Limited



(Mr. Somphote Ahunai)

Chairman of Executive Committee

9. Internal Control and Connected Transactions

9.1 Internal Control

The Audit Committee, appointed by the Board of Directors, consists of 3 Independent Directors is responsible for reviewing the accuracy and reliability of the financial reports, the efficiency of internal control system, the compliance with relevant laws and regulations including the transactions that may lead to a conflict of interest.

The Board of Directors, Audit Committee and Management place a great emphasis on the internal control system by evaluating the effectiveness and adequacy of the system. In doing this, the Company has applied international standard frameworks of COSO (The Committee of Sponsoring Organizations of the Treadway Commission), Good Corporate Governance according to the Stock Exchange of Thailand (SET)'s practices and Risk Management on a regular basis. The assessment is conducted to ensure that the Company's internal control and risk management systems are appropriate and effective with good corporate governance. The accounting system and financial reports are accurate and reliable including the compliance with relevant laws and regulations related to the business operation.

The Audit Committee assesses the adequacy and effectiveness of the internal control system using the assessment form provided by the Office of the Securities and Exchange Commission of Thailand (SEC) and report to the Board of Directors at least once a year. The components of the framework of COSO for assessment are as follows:

1. Control Environment
2. Risk Assessment
3. Control Activities
4. Information and Communication
5. Monitoring Activities

In addition to the assignment to the Management to regularly submit the performance report to Executive Committee, the Audit Committee and Internal Audit Department also determine the annual internal audit plan to ensure that the business operations are in compliance with laws and regulations including vision and mission of the Company.

In the Board of Directors' Meeting No. 1/2022 held on 24 February 2022, with the attendance of Audit Committee, the Board considered the assessment of internal control system for the year 2021 using the assessment form provided by the Office of the Securities and Exchange Commission of Thailand (SEC).

The Board endorsed the Audit Committee's report on the assessment result of the Company's internal control system and, in overall, the Company and subsidiaries have sufficient and appropriate of internal control. The Company supplied manpower to support operational activities efficiently including the sufficient in reviewing of the connected transaction and transaction that may lead to conflict of interest. The Audit Committee and Management place great importance on Good Corporate Governance, Internal Control, Risk management in an acceptable level and the accounting and financial reports' accuracy and completeness. The Company also conducted the operations in compliance with the laws and regulations including Anti-Corruption policy that defines Directors, Managements, Employees, and related parties are aware of all kinds of corruptions

Note of auditors on internal control

PricewaterhouseCoopers ABAS Limited, the auditor of the Company and Subsidiaries has no comments and no suggestion regarding the internal control on accounting of the financial statements of the Company and its subsidiaries for the accounting year 2021, ended on 31 December 2021.

Head of the Internal Audit Unit

In 2021, the Audit Committee has appointed Ms. Aiyaret Boonyaruang as a Secretary of the Audit Committee and Acting Vice President of the Internal Audit and Risk Management Department. Audit Committee has considered the qualification, education and experience and is of the opinion that she is qualified to undertake the responsibility which will be benefit to the Company's business. At present, the consideration and approval on appointment, dismissal, relocation including performance assessment and compensation of Internal Audit must be approved by the Audit Committee.

Furthermore, the Company has established the Internal Audit Unit which the vice president of aforementioned department acting as a secretary of Audit Committee performing internal audit functions to ensure that the internal audit procedure is in accordance with the plan and reporting internal audit result to Audit Committee in the meeting. Before the internal audit result will be reported, there will be discussing with involved executives first. The comments and suggestion from audit committee is taken into, in order to develop internal audit procedure in the future. The internal audit result for the year 2021 of the Company Group is adequate and appropriate and Audit Committee is of the opinions that the Internal Auditor performed work completely and covering all important departments.

9.2 Connected Transactions

Connected Transactions of the Company and subsidiaries with other entities that may result in conflicts of interest during the year 2021 are as follows:

1.1 Dhipaya Insurance Public Company Limited (“TIP”)

Relationship: The Company and TIP have a common chairman of the board, namely Mr. Somchainuk Engtrakul.

Preconditions and Reasons: The Company and subsidiaries applied insurance under the co-insurance between TIP and other insurance companies and/or be the Fronting with other insurance companies in the case of foreign insurers. The insurance is made by broker that is not related to the Company, helping to find insurance company by considering term and condition including premium and propose to the Company for consideration to select the insurers with the reasonable premium and term that benefit to the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
The Company			
1.) Applied for Property All Risk Insurance, Public Liability Insurance to cover its biodiesel factory (Kabinburi Factory)			
• Such insurance premiums were recognized as Cost of Sales. (Cost of Production)	0.49	0.66	1.37
• Prepaid Insurance	0.67	0.57	-
2.) Applied for Motor Insurance			
• Such insurance premiums were recognized as administrative expenses.	-	0.06	0.28
• Prepaid Insurance	-	0.28	-
EA Solar Co., Ltd. (Indirect Subsidiary)			
1.) Applied for Property All Risks Insurance, Business Interruption Insurance to cover the solar power plant			
2.) Contractors All Risks Insurance			
• Such insurance premiums were recognized as administrative expenses.	0.60	0.59	0.79
• Prepaid Insurance	0.74	0.55	-
• Accrued Insurance Premium	-	-	0.06
EA Solar Nakorn Sawan Co., Ltd. (Direct Subsidiary)			
Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the solar power plant			
• Such insurance premiums were recognized as Cost of Sales	5.20	5.76	5.23
• Prepaid Insurance	6.89	-	-
• Accrued Insurance Premium	-	-	0.48

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
EA Solar Phitsanulok Co., Ltd. (Indirect Subsidiary) 1.) Applied for Industrial All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the solar power plant 2.) Applied for Industrial All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the Solar Rooftop - Such insurance premiums were recognized a Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	5.56 6.12 -	6.49 - -	5.93 - 0.53
EA Solar Lampang Co., Ltd. (Indirect Subsidiary) 1.) Applied for Industrial All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the solar power plant 2.) Contractors All Risks Insurance - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	5.56 6.77 -	6.38 - -	5.78 - 0.53
EA Wind Hadkanghan 3 Co., Ltd. (Indirect Subsidiary) Applied for Industrial All Risks Insurance, Business Interruption and Public Liability Insurance to cover the wind power plant - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	7.60 8.94 -	8.39 7.11 -	8.82 - 0.67
Nayangklak Development Co., Ltd (Indirect Subsidiary) Applied for Industrial All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the wind power plant - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	2.19 0.10 -	2.16 - -	2.36 - 0.02
Nayangklak Wind Power Co., Ltd. (Indirect Subsidiary) Applied for Industrial All Risks Insurance, Business Interruption and Public Liability Insurance to cover the wind power plant - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	2.22 0.10 -	2.19 - -	2.39 - 0.22

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Pongnok Development Co., Ltd. (Indirect Subsidiary) Applied for Industrial All Risks Insurance, Business Interruption and Public Liability Insurance to cover the wind power plant - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	1.90 0.50 -	2.32 - -	2.48 - 0.23
Benjarat Development Co., Ltd. (Indirect Subsidiary) Applied for Industrial All Risks Insurance, Business Interruption Insurance and Public Liability Insurance to cover the wind power plant - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	1.35 0.67 -	1.95 - -	2.10 - 0.19
Banchuan Development Co., Ltd. (Indirect Subsidiary) 1.) Applied for Property All Risks Insurance, Business Interruption and Public Liability Insurance to cover the wind power plant 2.) Marine Cargo Insurance - Such insurance premiums were recognized as Cost of Sales - Prepaid Insurance - Accrued Insurance Premium	2.95 1.22 -	3.97 - -	4.21 - 0.39
EA Bio Innovation Co., Ltd (Direct Subsidiary) Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	- 1.45	1.10 1.48	2.14 1.22
Energy Solution Management Co., Ltd. (Direct Subsidiary) 1.) Plant and Equipment All Risks Insurance 2.) Applied for Motor Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	- 1.39	3.49 4.49	4.84 -

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Mine Mobility Corporation Co., Ltd. (Indirect Subsidiary) Applied for Property All Risks Insurance and Public Liability Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	-	0.52	0.11
	-	0.52	0.20
E Smart Transport Co., Ltd. (Indirect Subsidiary) Applied for Hull and Machinery Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	-	0.11	1.44
	-	0.19	0.76
Energy Mahanakhon Co., Ltd. (Direct Subsidiary) Applied for Property All Risks Insurance, Public Liability Insurance to cover Charging Station - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	0.15	0.18	0.26
	-	0.62	0.01
Amita Technology (Thailand) Co., Ltd (Indirect Subsidiary) 1.) Applied Contractors All Risks Insurance during construction, Machinery Warehouse Insurance, Marine Cargo Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance 2.) Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	0.06	0.21	-
	0.08	0.43	-
	-	-	0.20
	-	-	0.03
Kanjanadit Palm Oil Co., Ltd. (Indirect Subsidiary) Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance - Such insurance premiums were recognized as administrative expenses - Prepaid Insurance	-	0.12	0.01
	-	-	0.61

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Larp Pakdee Palm Co., Ltd. (Indirect Subsidiary) Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance			
• Such insurance premiums were recognized as administrative expenses	-	-	0.40
• Prepaid Insurance	-	-	0.04
Absolute Assembly Co., Ltd. (Indirect Subsidiary) Applied for Property All Risks Insurance, Business Interruption Insurance and Public Liability Insurance			
• Such insurance premiums were recognized as administrative expenses	-	-	0.74
• Prepaid Insurance	-	-	0.34

1.2 Advance Finance PCL. (“Advance Finance”)

Relationship: The Company has director and executives which is the director and shareholder of Advance Finance as follows:

- The Company’s director and executive; Mr. Amorn Saphthaweeikul is the directors of Advance Finance.
- The Company’s directors and executives; Mr. Somphote Ahunai holds 10% of Advance Finance shares and Mr. Amorn Saphthaweeikul, holds 10% of Advance Finance shares.

Preconditions and Reasons: The Interest earned from short-term deposit which is another way to manage liquidity and increase interest earned by comparing the return with other financial institutions that is beneficial to the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
• Interest earned from short-term deposit	0.17	0.93	2.30

1.3 Thai EV Co., Ltd. (“THAI EV”)

Relationship: Mr. Kittikorn Phinitwongwitthaya is the director and major shareholder of THAI EV and an authorized director and major shareholder of EV Now Co., Ltd.

Preconditions and Reasons: For supporting electric public vehicles business of the Company Group which is operated by EV Now Co., Ltd. and providing place to be the office building and parking for electric vehicles. The price setting follows normal business.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Expenses for office building rental and parking for a three-year period The services is recorded as an administrative expenses	-	0.80	0.96

1.4 Double P Land Co., Ltd. (“PPL”)

Relationship: Mr. Ake Ahunai, a person who is an indirect major shareholder of PPL and close relative (Son) of Mr. Somphote Ahunai, a major shareholder, director and executive of the Company.

Preconditions and Reasons:

1. Amita Technology (Thailand) Co., Ltd., an indirect subsidiary, leased the land for construction of a battery plant for a period of 15 years and proposed to the 2020 Annual General Meeting of Shareholders for approval of the entering into the transaction. Details can be found on the Company’s website.
2. The Company has purchased a car from PPL for use in the Company, and the purchase price was compared to the market price and value for money.
3. The Company enters into the Service Agreement(s) with PPL by determining the price and contractual terms in the same manner as other customers both connected and not connected to the Company as a normal business of the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
1. Amita Technology (Thailand) Co., Ltd (Indirect Subsidiary) Land leasing for building a factory for 15-year period. - Recorded as Right of use asset - Depreciation of Right of use asset was capitalized as construction in progress under Properties Plant and Equipment.	- -	651.03 14.83	628.85 22.18
2. The Company Purchase of a car - Recorded as asset - Depreciation of asset	- -	- -	2.79 -

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
3. The Company			
Service providing			
• Revenue from services	-	-	0.24

1.5 Land Prosperity Holding Co., Ltd. (“LPH”)

Relationship: Mr. Ake Ahunai is an indirect major shareholder and a director of LPH as well as a close relative (son) of Mr. Somphote Ahunai, the major shareholder, director and executive of the Company.

Preconditions and Reasons: The Company enters into the Service Agreement(s) with LPH by determining the price and contractual terms in the same manner as other customers both connected and not connected to the Company as a normal business of the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Revenue from services	-	-	0.06

1.6 Wattanapiboon Land Co.,Ltd. (“WPBL”)

Relationship: Mr. Ake Ahunai is an indirect majority shareholder and a director of WPBL as well as a close relative (son) of Mr. Somphote Ahunai, the major shareholder, director and executive of the Company.

Preconditions and Reasons: The Company enters into the Service Agreement(s) with WPBL by determining the price and contractual terms in the same manner as other customers both connected and not connected to the Company as a normal business of the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Revenue from services	-	-	0.06

1.7 T Health Products Co., Ltd (THealth)

Relationship: Mr. Somphote Ahunai is a major shareholder of THealth, director and executive of the Company.

Preconditions and Reasons: Energy Solution Management Co., Ltd., a direct subsidiary, has purchased ATK equipment with THealth by comparing with the market price and quality.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Expense	-	-	38.92

1.8 Industrial Water Resource Management Co., Ltd. (IWRM)

Relationship: 25% of IWRM holds by LPH which Mr. Ake Ahunai is an indirect major shareholder and a director of LPH as well as a close relative (son) of Mr. Somphote Ahunai, the major shareholder, director and executive of the Company.

Preconditions and Reasons: EA Solar Lampang Co., Ltd., an indirect subsidiary, entered into the agreement for installation of floating solar equipment with IWRM, by determining the price and contractual terms in the same manner as other customers both connected and not connected to the Company as a normal business of the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Revenue from equipment installation	-	-	0.63

1.9 Visionary Vanguard Co., Ltd. (VV)

Relationship: Cdr. Parinya Ruckwatin is a major shareholder, the authorized director of VV as well as Chief Executive Office of E Smart Transportation Co., Ltd.

Preconditions and Reasons: E Smart Transportation Co., Ltd. (“EST”), an indirect subsidiary, entered in to the Office Rental and Service Agreement with VV, by determining office rental and service fee as normal business and contractual terms in the same manner as other customer both connected and not connected to the Company.

Transaction	Connected Transaction Value for the year		
	Ended 31 Dec 19 (Million Baht)	Ended 31 Dec 20 (Million Baht)	Ended 31 Dec 21 (Million Baht)
Office rental and service fee	-	-	1.96

In this regard, the Audit Committee of the Company has reviewed the above-mentioned connected transactions and determined that were necessary in term of fair condition and prices, and/or within the arm’s length basis. Prior to execution, the transactions were approved by management or the Company’s Board of Directors in accordance with the Company’s policies, SEC and SET’s policies.

2. Approval Measures and Procedures for Connected Transactions

The Company focuses on the consideration of transparent and beneficial transactions to the Company. In the event of connected transactions involving the Company and/or its subsidiaries with potential parties who may have conflict of interest, related party transaction, or connected transaction, the Approval Measures and Procedures for Connected Transactions are as follows;

- Criteria for the necessity and justification of such transactions for the best interest of the company and/or its subsidiaries to ensure that the company is operating in compliance with the code of conduct, rules and regulations of the Capital Market Supervisory Board and the Stock Exchange of Thailand including regulations, announcements, directives, or requirements of the Stock Exchange of Thailand.
- Criteria for fair price, the management executives provide its views on the price sensibility of such transactions to ensure that the terms involved follow the normal course of business, that third-party price comparison before proposes to the board of director and/or shareholders to approve. In the case that, Audit Committee does not have the expertise in the connected transactions, the company will provide an independent appraiser or external auditor of the company to ensure that such price is reasonable in support of decisions by the board of director and/or audit Committee and/or shareholders (as seen fit) which the potential conflicts of interest are not allowed to vote on the transactions.

3. Trends for Connected Transactions with Potential Parties of Conflict

- Directors and Management of the Company prepare reports on their individual vested interests with related parties and notify the company for use as reference for taking action under applicable requirements for connected transactions.
- Directors, Management and Employees are not allow to do business that may cause conflict of interests with the Company and avoiding to do the transaction that may cause conflict of interests with the Company. In addition, the board of director is to supervise and review the business transactions that are considered connected transactions according to the measures and procedures including disclosure of the Company connected transactions to comply with law and regulation.

For future connected transactions, must comply with all laws on securities and exchanges, regulations, announcements, directives, or requirements of the Capital Market Supervisory Board, SEC, and SET. For routine transactions likely to regularly occur, the Company must follow the criteria and approaches of general commercial practices, with price references and terms that are suitable and fair, sensible, and auditable. Such transaction engagement must follow principles on agreements with general commercial terms approved by the Board of Directors. To this end, the management must prepare a summary of connected transactions for reporting to the Audit Committee each year.

Attachment

Attachment 1

Information of the Board of Directors, Executives, Controlling Persons, The person taking the highest responsibility in finance and accounting, The person supervising accounting and Company Secretary

1. Mr. Somchainuk Engtrakul

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Somchainuk Engtrakul 	77	- None -	- None -	Education - Ph.D. (Honorary Degree) in Public Administration, Sripatum University - Bachelor of Laws, Sripatum University - Bachelor of Arts in Economics, UPSALA College New Jersey, U.S.A. - Diploma, National Defense Course Class 35, National Defense College (NDC) Training By Thai Institute of Directors (IOD) - Role of the Chairman Program (RCP) Class 9/2006 - Director Accreditation Program (DAP) Class 98/2012	Position in the Company		
					2017 - Present	Independent Director	
					2008 - Present	Chairman of the Board of Directors	
					Position in Subsidiary of the Company		
					- None -		
Independent Director/ Chairman of the Board of Directors (Non-Executive Director (Appointed on March 12, 2008)					Position in other Listed Companies		
					2004 - Present	Chairman of the Board of Directors / Independent Director	Major Cineplex Group PCL.
					1995 - Present	Chairman of the Board of Directors	Dhipaya Insurance PCL.

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Company / Other Organization		
					2020 - Present	Chairman of the Board of Directors	Dhipaya Group Holdings PCL.
					2008 - Present	Chairman of the Board of Directors	Vejjithani PCL.
					2008 - Present	Director	Siam Piwat Co., Ltd.
					2000 - Present	Director	Siam Piwat Holding Co., Ltd.
					Meeting Attendance in 2021		
					● Board of Directors Meeting		
					7/7 Meetings		

2. Mr. Somphote Ahunai

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Somphote Ahunai  Director (Authorized Director) / Vice Chairman of the Board / Chairman of Strategic Planning Committee / Member of Risk Management Committee / Chairman of Executive Committee / Chief Executive Officer (Appointed as a director on March 12, 2008)	54	41.1311 (own 23.2101; Trustee 17.2512; spouse 0.6698) (Please refer to 8.1.4 (5) Report of Securities Holding)	Younger Brother of Mr. Somboon Ahunai ¹ Elder Brother of Ms. Supaporn Ahunai ²	<u>Education</u>	Position in the Company		
				• Master of Business Administration, University of Pittsburgh, USA	2020 – Present	Vice Chairman of the Board of Directors	
				• Bachelor of Engineering, Chulalongkorn University	2020 – Present	Chairman of Strategic Planning Committee	
				• Ph.D. (Honorary Degree) in Engineering, Rajamangala University of Technology Isan (Engineering in renewable energy and environment)	2014 – Present	Member of Risk Management Committee	
					2009 – Present	Chief Executive Officer	
					2008 – Present	Director / Chairman of Executive Committee	
	<u>Training</u>				Position in Subsidiaries of the Company		
	By Thai Institute of Directors (IOD)				Subsidiaries Nos. 1, 3, 9, 18, 31-32, 34-35, 37, 41, 43-48, 52-53 and 55-56 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid up capital.”)		
					Position in other Listed Company		
	• Director Accreditation Program (DAP) Class 60/2006				2020 - Present	Director	Nex Point PCL.

¹ Mr. Somboon Ahunai (Director, Member of Executive Committee)

² Ms. Supaporn Ahunai (Assistant Chief Executive Officer – Support, Vice President – Quality, Permit, Insurance and Environment Department)

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Companies / Other Organizations		
				Other Training • Top Executive Program in Industrial Development and Investment Class 2 by Institute of Business and Industrial Development (IBID) • Ultra Wealth-Invest Like a master Class 1 by Economics Association Chulalongkorn University • The Executive Program on the Rule of Law and Development by Thailand Institute of Justice (TIJ) • The Executive Program in Energy Literacy for Sustainable Future Class 9 by Thailand Energy Academy (TEA) • Public Lecture on “Global and Domestic Environment with the stability in energy sector” by National Defence College of Thailand	Feb 2022 – Present 2021 – 2023 2021 - Present 2021 – Present Jan 2021 – Present 2021 – 2023 2020 – 2022	Qualified Director Advisor Director Qualified Director Director Honorary Advisor President of Institute of Industrial Energy	Rail Technology Research and Development Agency (Public Organization) Society of Automotive Engineers – Thailand (TSAE) Burapha University Hospital Foundation Burapha University Nursing Home for Older People Ramathibodi Hospital The Federation of Thai Industries Chachoengsao Chapter The Federation of Thai Industries

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				- Public Lecture on “Electric Vehicles turn around the Opportunities, Change Thai’s lifestyle” by Thansettakij Multimedia - Public Lecture on Monthly Update Meeting by Bangkok University - Public Lecture on “Thailand’s Best Practice” by King Prajadhipok’s Institute - Public Lecture on “Climate Actions Our Efforts, Our Common Responsibility” by Thailand Greenhouse Gas Management Organization (Public Organization)	2020 – 2022	Managing Director	Chulalongkorn University Engineering Alumni
					Jun 2020 - Present	Director	Absolute Infinity Co., Ltd.
					Apr 2020 - Present	Director	T Health Products Co., Ltd.
					Feb 2018 – Present	Director	AekYingkrit Holding Co., Ltd. / Eternity Holding Co., Ltd.
					Mar 2018 – Present	Director	SPBL Holding Co., Ltd.
					Meeting Attendance in 2021 - Board of Directors Meeting 5/6* Meetings - Risk Management Committee Meeting 6/6 Meetings - Strategic Planning Committee Meeting 2/2 Meetings - Executive Committee Meeting 8/12 Meetings <i>* Exclude Non-Executive Meeting</i>		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				Public Lecture on “Thai EV’s direction to Sustainability” by Society of Automotive Engineers – Thailand (TSAE)			

3. Mr. Amorn Saphthaweekul

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years					
					Period	Position	Company			
Mr. Amorn Saphthaweekul  Director (Authorized Director) / Member of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Strategic Planning Committee/ Member of Executive Committee / Deputy CEO / Acting Vice President - Quality Control (Appointed on March 30, 2012) <i>The person taking the highest responsibility in finance and accounting</i>	47	3.3725 (own 1.9563; Custodian 0.7239; spouse 0.6923) (Please refer to 8.1.4 (5) Report of Securities Holding)	- None -	<u>Education</u> • Master of Science in Finance, Chulalongkorn University • Bachelor of Business Administration (Finance and Banking), Thammasat University <u>Training</u> By Thai Institute of Directors (IOD) • Director Accreditation Program (DAP) Class 98/2012 <u>Other Training</u> • Top Executive Program in Industrial Development and Investment Class 3 by Institute of Business and Industrial Development (IBID)	Position in the Company					
					2021 - Present	Member of Nomination and Remuneration Committee				
					2020 - Present	Member of Strategic Planning Committee				
					2015 - Present	Acting Vice President - Quality Control Department				
					2014 - Present	Member of Risk Management Committee / Deputy CEO				
					2012 - Present	Director / Member of Executive Committee				
					2014 - 2021	Member of Remuneration Committee				
					Position in Subsidiaries of the Company					
					Subsidiaries Nos. 1-11, 13-19, 21-22, 24-39, 41-42, 44-53 and 55-56 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid-up capital”)					
					Position in other Listed Company					
					2020 - Present	Director / Member of Executive Committee	Nex Point PCL.			

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Companies / Other Organizations		
				- The Executive Program in Energy Literacy for a Sustainable Future Class 14 by Thailand Energy Academy (TEA) - TFRS 9 Training by PricewaterhouseCoopers - ABAS Co., Ltd. - Research, Development and Intangible Assets Workshop by PricewaterhouseCoopers - ABAS Co., Ltd. - Zoom webinar on “Energy Transition to Sustainability” by The Institute of Industrial Energy, The Federation of Thai Industries - Zoom webinar on “Bio-Circular-Green Economy (BCG) for Bioenergy:Biogas, Biomass, and xEV” by Ministry of energy and Japan External	2020 - 2022	Vice Chairman of Energy Storage System of Renewable Energy Industry Club	The Federation of Thai Industries
					Oct 2020 - Present	Chairman of the Board of Directors	TF Tech Holding Co., Ltd.
					Dec 2019 - Present	Director	TF Tech Co., Ltd.
					2019 – Present	Director	Advance Finance PCL.
					2014 – Present	Director	Watabak Wind Co., Ltd.
					Meeting Attendance in 2021		
					• Board of Directors Meeting		6/6* Meetings
					• Risk Management Committee Meeting		6/6 Meetings
					• Nomination and Remuneration Committee Meeting		2/2 Meetings
					• Remuneration Committee Meeting		1/1 Meeting
					• Strategic Planning Committee Meeting		2/2 Meetings
					• Executive Committee Meeting		12/12 Meetings
					* Exclude Non-Executive Meeting		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				Trade Organization (JETRO) Continuing Professional Development 2021 • Cash Flow - 7 hours			

4. Mr. Wutthilerd Chiannikulchai

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Wutthilerd Chiannikulchai 	51	0.4111 (own 0.4111; spouse 0) (Please refer to 8.1.4 (5) Report of Securities Holding)	- None -	Education - Master of Science in Computer and Engineering Management, Assumption University - Bachelor of Accountancy, Chulalongkorn University Training By Thai Institute of Directors (IOD) Director Accreditation Program (DAP) Class 71/2008	Positions in the Company		
					2014 - Present	Member of Risk Management Committee	
					2008 - Present	Director / Member of Executive Committee	
					Positions in Subsidiaries of the Company		
					Subsidiaries Nos. 1, 6-7, 9, 12-18, 23, 34-36, 38, 43, 45-46 and 55-56 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid-up capital”)		
Director (Authorized Director) / Member of Risk Management Committee / Member of Executive Committee (Non-Executive Director) (Appointed as a director on March 12, 2008)					Position in other Listed Company		
					- None -		
					Position in other Company / Other Organization		
					2020 - Present	Director	Window Asia Co., Ltd.
					2004 - Present	Director	Perfect Oil Co., Ltd.
					2001 - Present	Director	Power 10 Co., Ltd. / Double 10 Co., Ltd. / Famous 10 Co., Ltd. / Mitsiam oil Co., Ltd.

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					1995 - Present	Director	Chalee Trading Co., Ltd. / Ma Jaream Co., Ltd. / Sueb Nueng Karn Kha Co., Ltd. / Two Plus One Oil Co., Ltd.
					1994 - Present	Director	Malee Oil Co., Ltd. / C.C. Oil Co., Ltd.
					Meeting Attendance in 2021		
					• Board of Directors Meeting		7/7 Meetings
					• Risk Management Committee Meeting		6/6 Meetings
					• Executive Committee Meeting		12/12 Meetings

5. Mr. Sutham Songsiri

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Sutham Songsiri  Director / Member of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Corporate Governance and Sustainability Committee / Member of Strategic Planning Committee / Member of Executive Committee (Non-Executive Director) (Appointed as a director on March 12, 2008)	83	0.0268 (own 0.0268, spouse 0) (Please refer to 8.1.4 (5) Report of Securities Holding)	- None -	Education • Master of Economics, San Francisco State University • Bachelor of Economics, Lincoln University • Strategy Formulation and Execution, Columbia University, USA • Kaplan -Norton Master Class to Mastering New Management System Boston, USA • Change Management Course Massachusetts Institute of Technology USA Training By Thai Institute of Directors (IOD) • Directors Certification Program (DCP) Class 97/2007	Position in the Company		
					2021 - Present	Member of Nomination and Remuneration Committee	
					2020 - Present	Member of Strategic Planning Committee	
					2020 - Present	Member of Risk Management Committee	
					2021 - Present	Member of Corporate Governance and Sustainability Committee	
					2008 - Present	Director / Member of Executive Committee	
					2015 - 2021	Member of Corporate Governance Committee	
					2014 - 2021	Member of Remuneration Committee	
					Position in Subsidiaries of the Company		
					Subsidiaries Nos. 7-9, and 15-18 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid-up capital”)		
Position in other Listed Company							
- None -							

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Company / Other Organization		
				• Role of the Chairman Program (RCP) Class 22/2009 • Role of the Nomination and Governance Committee (RNG) Class 1/2001 Other Training • Internal control and Risk management / Value adding support strategic management held by Energy Absolute PCL.	Dec 2020 - Present	Member of Corporate Governance and Social Responsibility Committee	Thai Public Broadcast Service (Thai PBS)
					2019 - Present	Director	Public Policy for Social Governance Foundation
					Meeting Attendance in 2021		
					• Board of Directors Meeting		7/7 Meetings
					• Risk Management Committee Meeting		5/6 Meetings
					• Nomination and Remuneration Committee Meeting		2/2 Meetings
					• Remuneration Committee Meeting		1/1 Meeting
					• Corporate Governance and Sustainability Committee Meeting		4/4 Meetings
					• Strategic Planning Committee Meeting		2/2 Meetings
					• Executive Committee Meeting		11/12 Meetings

6. ACM. Chainan Thumasujarit

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
ACM. Chainan Thumasujarit 	72	- None -	- None -	Education - Bachelor of Engineering (the 2nd Class Honors), Chulalongkorn University - Bachelor of Arts in Political Science, Ramkhamhaeng University - Bachelor of Business Administration (General Managements), Ramkhamhaeng University - Bachelor of Business Administration (the 1st Class Honors), Sukhothai Thammathirat Open University - Diploma, The National Defence College Class 2003, National Defence College (NDC)	Position in the Company		
					2021 - Present	Member of Nomination and Remuneration Committee	
					2021 - Present	Member of Corporate Governance and Sustainability Committee	
					2014 - Present	Chairman of Audit Committee / Chairman of Risk Management Committee	
					2012 - Present	Independent Director	
					2016 - 2021	Member of Remuneration Committee	
					2014 - 2021	Member of Nomination Committee	
					2012 - 2014	Member of Audit Committee	
Independent Director / Chairman of Audit Committee / Chairman of Risk Management Committee / Member of Nomination and Remuneration Committee / Member of Corporate Governance and Sustainability Committee (Non- Executive Director) (Appointed as a director on August 7, 2012)					2015 - 2021	Member of Corporate Governance Committee	
					Position in Subsidiaries of the Company		
					- None -		
					Position in other Listed Company		
					- None -		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Company / Other Organization		
				- Naval Command and staff college, Institute of Advanced Naval Studies M. Eng. Asian Institute of Technology (A.I.T.) D. Eng. (Candidate) Asian Institute of Technology (A.I.T.)	2006 - Present	Retired Government Official	Office of the Permanent Secretary, Ministry of Defence
					1974 - Present	Freelance Structural Engineer	Office of the Permanent Secretary, Ministry of Defence
					Meeting Attendance in 2021		
					- Board of Directors Meeting - Audit Committee Meeting - Risk Management Committee Meeting - Nomination and Remuneration Committee Meeting - Corporate Governance and Sustainability Committee Meeting - Nomination Committee Meeting - Remuneration Committee Meeting	5/7 Meetings 9/9 Meetings 6/6 Meetings 2/2 Meetings 4/4 Meetings 1/1 Meetings* 1/1 Meetings*	
					Training By Thai Institute of Directors (IOD) - Director Accreditation Program (DAP) Class 67/2007 - Audit Committee Program (ACP) Class 22/2008 - Monitoring of the Quality of Financial Reporting (MFR) Class 16/2012 - Risk Management Program for Corporate Leader (RCL) class 13/2018		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				Other Training - Drafting, Negotiating & Managing, Successful Construction Contracts” - Summit 2015 held by Omega World Class Research Institute - AC HOT UPDATE - Prepare for Next Generation CG and Sustainability held by Federation of Accounting Professions Under The Royal Patronage of His Majesty The King - Forensic Date Analytics: Fighting Fraud with Big Data held by PricewaterhouseCoopers ABAS Co., Ltd. - Intelligent City and Information Center organized held by Institute of Electrical and Electronics Engineers of Thailand			

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				- Internal control and Risk management / Value adding support strategic management held by Energy Absolute PCL. - The side nobody knows EV transformation in Thai way held by Chulalongkorn University Engineering Alumni - Electric Vehicles (EVs): Technology, Design, Infrastructure and Applications held by IEEE Thailand Section, IEEE Power & Energy Society – Thailand Chapter and Electric Vehicle Association of Thailand			

Remark: *During the year 2021, the Board approved the combination of the Nomination Committee and the Remuneration Committee as one sub-committee and it shall be the “Nomination and Remuneration Committee”

7. M.R. Bravochat Chatchai

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
M.R. Bravochat Chatchai 	61	- None -	- None -	Education - Master of Arts, Phranakhon Rajabhat University - Bachelor of Laws, Ramkhamhaeng University Training By Thai Institute of Directors (IOD) - Director Accreditation Program (DAP) Class 98/2012 - Audit Committee Program (ACP) Class 41/2012 - Role of Nomination and Governance Committee (RNG) Class 7/2015 - Risk Management Program for Corporate Leader (RCL) Class 13/2018	Position in the Company		
Independent Director / Member of Audit Committee / Chairman of Nomination and Remuneration Committee / Chairman of Corporate Governance and Sustainability Committee					2021 - Present	Chairman of Nomination and Remuneration Committee	
					2021 - Present	Chairman of Corporate Governance and Sustainability Committee	
					2014 - Present	Member of Risk Management Committee	
					2010 - Present	Independent Director / Member of Audit Committee	
					2020 - 2021	Chairman of Remuneration Committee	
					2020 - 2021	Chairman of Corporate Governance Committee	
					2014 - 2021	Chairman of Nomination Committee	
					2016 - 2020	Member of Remuneration Committee	
Sustainability Committee / Member of Risk Management Committee (Non- Executive Director) (Appointed as a director on November 26, 2010)					2015 - 2020	Member of Corporate Governance Committee	
					Position in Subsidiaries of the Company		
					- None -		
					Position in other Listed Company		
					- None -		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Company / Other Organization		
				Other Training - AC HOT UPDATE - Prepare for Next Generation CG and Sustainability held by Federation of Accounting Professions Under The Royal Patronage of His Majesty The King - Forensic Data Analytics: Fighting Fraud with Big Data held by PricewaterhouseCoopers ABAS Co., Ltd. - Internal control and Risk management / Value adding support strategic management held by Energy Absolute PCL.	1999 - Present	Director	M.R. Bravochat Chatchai Laws Office
					Meeting Attendance in 2021		
					• Board of Directors Meeting		7/7 Meetings
					• Audit Committee Meeting		9/9 Meetings
					• Risk Management Committee Meeting		6/6 Meetings
					• Nomination and Remuneration Committee Meeting		
					• Corporate Governance and Sustainability Committee Meeting		2/2 Meetings
					• Nomination Committee Meeting		4/4 Meetings
					• Remuneration Committee Meeting		1/1 Meetings*
							1/1 Meetings*

Remark: *During the year 2021, the Board approved the combination of the Nomination Committee and the Remuneration Committee as one sub-committee and it shall be the "Nomination and Remuneration Committee"

8. Pol.Gen. Phatcharavat Wongsuwan

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
Pol.Gen. Phatcharavat Wongsuwan 	72	0.0305 (own 0.0305; spouse 0) (Please refer to 8.1.4 (5) Report of Securities Holding)	- None -	Education - Master of Arts (Social Development), Kasetsart University - Royal Police Cadet Academy Class 25 - Diploma, The National Defence College, The State, Private Sector and Political Sectors Class 2, National Defence College Training By Thai Institute of Directors (IOD) Director Accreditation Program (DAP) No.137/2017	Position in the Company		
					2014 - Present	Independent Director	
					2014 - Present	Member of Risk Management Committee	
					Position in Subsidiary of the Company		
					- None -		
Independent Director / Member of Risk Management Committee (Non- Executive Director) (Appointed as a director on April 18, 2014)					Position in other Listed Companies		
					2019 - Present	Member of the Corporate Social Responsibility and Sustainable Development Committee	Charoen Pokphand Foods PCL.
					2017 - Present	Vice Chairman of the Board of Director	Country Group Development PCL.
					2016 - Present	Independent Director/ Chairman of the Remuneration and Nominating Committee	Charoen Pokphand Foods PCL.

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
					2013 - Present	Independent Director / Chairman of the Remuneration and Nominating Committee/ Member of Sustainability and Corporate Governance Committee	CP ALL PCL.
					Position in other Company / Other Organization		
					Present	Director	The Thai Dairy Industry Co., Ltd.
					Meeting Attendance in 2021		
					• Board of Directors Meeting		-/7 Meetings
					• Risk Management Committee Meeting		-/6 Meetings

9. Mr. Somboon Ahunai

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Somboon Ahunai  Director / Member of Executive Committee (Non-Executive Director) (Appointed on April 22, 2015)	66	0.1875 (own 0.1875; spouse 0) (Please refer to 8.1.4 (5) Report of Securities Holding)	Elder Brother of Mr. Somphote Ahunai ¹ and Ms. Supaporn Ahunai ²	Education - Master of Business Administration, Jacksonville State University - Bachelor of Science (cum laude) in Chemical Engineering, University of Alabama Training By Thai Institute of Directors (IOD) - Director Accreditation Program (DAP) Class 47/2005 - Audit Committee Program (ACP) Class 12/2006	Position in the Company		
					2017 - Present	Member of Executive Committee	
					2015 - Present	Director	
					Position in Subsidiary of the Company		
					- None -		
					Position in other Listed Company		
					- None -		
					Position in other Company / Other Organization		
					2000 - Present	Director	Songphon Co., Ltd.
					1983 - Present	Director	Ruammit Panich Co., Ltd.

¹ Mr. Somphote Ahunai (Director / Vice Chairman of the Board / Chairman of Strategy Planning Committee / Member of Risk Management Committee / Chairman of Executive Committee / Chief Executive Officer)

² Ms. Supaporn Ahunai (Assistant Chief Executive Officer - Support, Vice President - Quality, Permit, Insurance and Environment Department)

Name and surname	Age (year)	(% of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
				Other Training Internal control and Risk management / Value adding support strategic management held by Energy Absolute PCL.	Meeting Attendance in 2021 - Board of Directors Meeting - Executive Committee Meeting		
						5/7 Meetings 11/12 Meetings	

10. Mr. Amornsuk Noparumpa

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Amornsuk Noparumpa 	76	- None -	- None -	<u>Education</u> • Barrister-at-Law, Lincoln's Inn, London • Barrister-at-Law, Council of Legal Education Thailand • Bachelor of Laws (Honors), Thammasat University • Diploma, The National Defence College Class 399 <u>Training</u> By Thai Institute of Directors (IOD) • Director Certification Program (DCP) Class 30/2003 • Audit Committee Program (ACP) Class 23/2008 • Role of Compensation Committee Program (RCC) Class 9/2009	Position in the Company		
					2017 - Present	Independent Director	
					Position in Subsidiary of the Company		
					- None -		
					Position in other Listed Companies		
Independent Director (Non- Executive Director) (Appointed as a director on April 27, 2017)					2005 - Present	Chairman of the Board of Directors / Independent Director	L.P.N. Development PCL.
					1998 - Present	Chairman of the Audit Committee / Independent Director / Member of Nomination Remuneration and Corporate Governance Committee	Regional Container Lines PCL.
					Position in other Company / Other Organization		
					- None -		

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Meeting Attendance in 2021		
				- Role of the Chairman Program (RCP) 36/2015 Other Training - Security Psychology Program Class 31 - Senior Management Program Class 7	Board of Directors Meeting	5/7	Meetings

11. Mr. Somphop Keerasuntonpong

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Somphop Keerasuntonpong  Independent Director / Member of Audit Committee / Member of Nomination and Remuneration Committee / Member of Corporate Governance and Sustainability Committee (Non-Executive Director) (Appointed as a director on April 23, 2020)	54	- None -	- None -	<u>Education</u> - Bachelor of Engineering (Mechanical Engineering), King Mongkut's University of Technology Thonburi - MBA, General Administration, Pittsburg State University, U.S.A. <u>Training</u> By Thai Institute of Directors (IOD) - Director Accreditation Program (DAP) Class 16/2004 - Corporate Governance Program for Capital Market Intermediaries (CGI) Class 3/2015	Position in the Company		
					2020 - Present	Independent Director / Member of Audit Committee	
					2021 - Present	Member of Corporate Governance and Sustainability Committee	
					2021 - Present	Member of Nomination and Remuneration Committee	
					2020 - 2021	Member of Remuneration Committee	
					2020 - 2021	Member of Nomination Committee	
					2020 - 2021	Member of Corporate Governance Committee	
					Position in Subsidiaries of the Company		
					- None --		
					Position in other Listed Company		
2009 - Present	Director (Authorized Director) / President	Finasia Syrus Securities PCL.					

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Companies / Other Organizations		
				Other Training - Executive Course Class 9/2009 Capital Market Academy, the Stock Exchange of Thailand - Program for Senior Executive on Justice Administration, Class 23, National Justice Academy, Office of the Judiciary, 2019	2018 - Present	Chairman	Investment Banking Club, Association of the Thai Securities Company
					Meeting Attendance in 2021		
					- Board of Directors Meeting - Audit Committee Meeting - Nomination and Remuneration Committee Meeting - Corporate Governance and Sustainability Committee Meeting - Nomination Committee Meeting - Remuneration Committee Meeting	7/7 9/9 2/2 4/4 1/1 1/1	Meetings Meetings Meetings Meetings Meetings* Meetings*

Remark: * During the year 2021, the Board approved the combination of the Nomination Committee and the Remuneration Committee as one sub-committee and it shall be the "Nomination and Remuneration Committee"

Details of Executive (according to the definition of the SEC) and Company Secretary

Profile of Executives (as at December 31, 2021)

1. Mr. Amorn Saphaweekul (Please refer to “Profile of the Board of Directors” (No. 3))
2. Miss Supaporn Ahunai

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in the Company		
Miss Supaporn Ahunai 	45	0.6702 (own 0.6434, spouse 0.0268) (Please refer to 8.1.4 (5) Report of Securities Holding)	Younger Sister of Mr. Somphote Ahunai ¹ and Mr. Somboon Ahunai ²	Education • Master of Science Information System, The Pennsylvania State University, U.S.A. • Bachelor’s degree from faculty of Commerce and Accountancy, Thammasat University • Certificate “AFPT” (Associate Financial Planner Thailand : AFPT) • Complex Type 1 Investment Consultant, held by SEC • Investment Planner, held by SEC	Position in the Company		
					Nov 2021 - Present	Assistant Chief Executive Officer - Support	
					Sep 2021 - Present	Vice President - Quality, Permit, Insurance and Environment Department	
					Nov 2021 - Present	Assistant Chief Executive Officer - Support	
					Apr 2020 - Aug 2021	Vice President - Quality, Health Safety and Environment Department	
					Jan 2008 - Sep 2019	Vice President - Finance Department	
Assistant Chief Executive Officer - Support (Appointed on November 1, 2021)/					Position in Subsidiaries of the Company		
					Subsidiaries No. 2, 6-8, 10-17, 19-30, 32-33, 36-37, 39-40 and 49-52 (Refer to 1.3.1 the Information of companies which EA holds shares more than 10 percent of total paid-up capital)		

¹ Mr. Somphote Ahunai (Director / Vice Chairman of the Board / Chairman of Strategy Planning Committee / Member of Risk Management Committee / Chairman of Executive Committee / Chief Executive Officer)

² Mr. Somboon Ahunai (Director/ Member of Executive Committee)

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in other Listed Company		
Vice President – Quality, Permit, Insurance and Environment Department (Appointed on September 1, 2021) / Special Assistant to CEO (Appointed on April 7, 2020)				Training By Thai Institute of Directors (IOD) - Director Accreditation Program (DAP) Class 71/2008 - Company Secretary Program (CSP) Class 27/2008 - Investment Consultant Program, held by SEC Other Training - Expertised Investor, Class 15 held by Thai Investors Association - Complex Products : Derivatives from ATI-Asco Training Institute - Foundation of Financial & Tax Planning / Investment Planner from Thai PFA - Training course “Leader As Coach” organized by Energy Absolute Public Company Limited	Position in other Company / Other Organization		
					- None -		
					- None -		

3. Miss Wimolmas Wongmakornpan

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
Miss Wimolmas Wongmakornpan 	41	0.0005 (Please refer to 8.1.4 (5) Report of Securities Holding)	- None -	Education - International MBA, Asian Institute of Technology, Thailand - Master in Management Science, ESCP-EAP, France Training - Training course “Brain FTI” class 4 organized by The Federation of Thai Industries - Strategic CFO in Capital Markets Program held by Stock Exchange of Thailand - Training course “Leader As Coach” organized by Energy Absolute Public Company Limited - Internal control and risk management / Value adding and strategy support	Position in the Company		
					Nov 2021 - Present	Assistant Chief Executive Officer - Support	
					Jun 2016 - Present	Vice President - Creating Shared Value Department	
					2012 - 2016	Deputy Vice President - Strategy Development and Investment Planning	
					Position in Subsidiaries of the Company		
Assistant Chief Executive Officer - Support (Appointed on November 1, 2021) Vice President - Creating Shared Value Department (Appointed on June 1, 2016)					Mar 2021 - Present	Director	Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd.
					Position in other Listed Company		
					- None -		
					Position in other Company / Other Organization		
					- None -		

Name and surname	Age (year)	(% of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
				management, organized by Energy Absolute Public Company Limited			

4. Mr. Vasu Klomklang

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
Mr. Vasu Klomklang  Senior Vice Present – Strategy Development and Investment Planning Department (Appointed on June 1, 2020) Acting Vice President Corporate Communication Department (Appointed on April 1, 2021)	42	-None-	-None-	Education - Master of International Management in Global Finance, Thunderbird, The School of International Management Arizona, U.S.A. - Graduate Diploma in Property Valuation, Faculty of Commerce and Accountancy, Thammasat University - Bachelor of Engineering in Civil Engineering, Thammasat University Training By Thai Institute of Directors (IOD) Director Certification Program (DCP) Class 107/2008	Position in the Company		
					April 2021 – Present	Acting Vice President Corporate Communication Department	
					June 2020 – Present	Senior Vice Present – Strategy Development and Investment Planning Department	
					Position in Subsidiaries of the Company		
					Subsidiaries Nos. 38-40, 42 and 48-49 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid-up capital”)		
					Position in other Listed Company		
					2020 – Present	Director and Executive Director	Nex Point PCL.
					Position in other Company / Other Organization		
					2020 – Present	Director	Nex Express Co., Ltd. / Terabyte Net Solution PCL.
					2018 - 2019	First Vice President of Corporate Investment Department	Export-Import Bank of Thailand
					2015 - 2017	First Vice President	Krungthai Bank PCL.

5. Ms. Kotchanan Suwannadaj

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
Ms. Kotchanan Suwannadaj 	42	-None- (Please refer to 8.1.4 (5) Report of Securities Holding)	-None-	<u>Education</u> - Master Degree in Economics, Kasetsart University - Bachelor of Accountancy (B.Acc.), Chiang Mai University <u>Training</u> - Pursuit of excellence held by IDEA FORUM GROUP CO., LTD. - Systematic Problem Solving and Decision Making held by ACI Consultants Co., Ltd. - Effective financial reports for the management by developing presentation skills in financial highlights and performance highlights held by Dharmniti Seminar and Training Co., Ltd. - Deferred Tax held by Dharmniti Seminar and Training Co., Ltd.	2021 – Present	Vice President – Accounting Department	Absolute Energy PCL.
					2019 – 2021	Accounting Director	National Power Supply PCL.
					2011 – 2019	Accounting Manager	Double A (1991) PCL.
					Position in Subsidiaries of the Company		
Vice President – Accounting Department (Appointed on October 1, 2021) (The person supervising Accounting)					- None -		
					Position in Listed Company		
					- None -		
					Position in other Company / Other Organization		
					- None -		

5. Ms. Kotchanan Suwannadaj

Name and surname	Age (year)	(% of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Period	Position	Company
				Continuing Professional Development 2021 - Accounting Standard : Property, Plant, and Equipment - CPD 6 hours - Cash Flow - CPD 7 hours An Accountant with criteria Specified by the Department of Business Development.			

Company Secretary

Ms. Yaowalug Pukpikul

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Certification	Working experiences in the 5 Preceding years		
					Time period	Position	Company
Ms. Yaowalug Pukpikul  Company Secretary (Appointed on November 14, 2013)	54	-None-	None	<u>Education</u> - Bachelor of Laws, Thammasat University - Certificate “Merchant Marine Management, Chulalongkorn University - Certificate “Marine Insurance”, Singapore National Shipping Association, Singapore <u>Training</u> - Company Secretary Program (CSP 56/2014) held by IOD - Internal Control and Risk Management/ Value adding and Strategy Support Management held by Energy Absolute Public Company Limited	Position in the Company		
					2013 – Present	Company Secretary / Secretary to the Board of Directors	Energy Absolute PCL.
					Position in Subsidiaries of the Company		
					Subsidiary No. 42 (Refer to 1.3.1 “the Information of companies which EA holds shares more than 10 percent of total paid-up capital”)		
					Position in Listed Company		
					2011 – 2012	Manager (Office of Company Secretariat)	Thai Beverage PCL.
					1999 – 2011	Manager (Legal)	Precious Shipping PCL.
Position in other Company / Other Organization					- None -		

Attachment 2 Details of the Board of Directors of Subsidiaries, Associated Companies and Joint Ventures

1. Direct Subsidiaries :

As of December 31, 2021, the Company had 22 Direct Subsidiaries and 34 Indirect Subsidiaries.

List of Companies List of Directors	EBI	EPN	SU97	ERH	ESN	TWF	WNYK	WPGS	WTSP	EMN	ESM	EMMA	GTR	MMR	EBR	EMH	SWM	EWM	BEV	Amrita-Taiwan	EA Con Dao	BVI Holding
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Mr. Somphote Ahunai	/					/				/	/		/	/		/				/		/
Mr. Amorn Sapthaweekul	/	/	/	/	/	/	/	/		/	/	/	/	/	/	/	/	/		/		/
Mr. Wuthilard Chiannikulchai	/		/	/		/			/				/	/	/		/					/
Mr. Sutham Songsiri				/		/																
Ms. Supaporn Ahunai		/	/	/	/		/	/	/		/	/			/	/		/	/			
Mr. Vasu Klomklang																/	/	/	/		/	
Ms. Yaowalug Pukpikul																					/	
Mr. Chatrapon Sripratum		/																		/		
Mr. Chanyut Chayawattana											/									/		
Mr. Sittadol Toauravong										/	/											
Mr. Pornlert Techarattanopas										/												
Ms. Rassarin Ruangrojanin										/												
Mr. Thanin Wanasuthanon																				/		
Mr. Chakrawut Raisaeng																				/		
Ms. Wimalmas Wongmakornpan																			/			
Mr. Wison Soisuke																			/			
Mr. Chaiporn Mankhondechaikul																			/			
Mr. Patel Cyrus Jonathan																			/		/	
Mr. Le Minh Tam																					/	
Mr. Lee Chee Seng Christopher																				/		
Mr. Elden Tu																				/		
Mr. Huang Wen Hung																				/		
Mr. ChungYu Tung																				/		
Mr. Chen Cihen Jen																				/		

Remark : / = Director

2. Indirect Subsidiaries :

List of Companies List of Directors	CET	LPD	KJD	ESLO	SUSO	ESL	ESP	EWHK2	EWHK3	NYKD	NWP	BJRD	PND	BCD	SWF	WKK1	WKS1	WKS2	WMHK1	WUBON1	WAMR1	Amita-TH	EV Now	EST	MMC	AAB	EMR	EAST	POP	CRL	Amita-SG	Sun Field	BV11	BV12	
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	
Mr. Somphote Ahunai	/								/													/	/	/	/	/				/		/	/	/	
Mr. Amorn Saphaweekul	/	/	/	/	/	/	/	/	/	/		/	/		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Mr. Wutthilerd Chiannikulchai				/	/	/	/	/	/					/																					
Mr. Sutham Songsiri						/	/	/	/																										
Ms. Supaporn Ahunai				/	/	/	/	/		/	/	/	/	/	/	/	/	/	/	/	/					/	/	/	/	/	/	/	/	/	
Mr. Vasu Klomklang	/																						/			/	/	/	/	/	/	/	/	/	
Mr. Chatrapon Sripratum		/	/								/				/	/	/	/	/	/	/														
Mr. Chanyut Chayawattana											/											/							/						
Ms. Rassarin Ruangrojanin																																			
Mr. Thanin Wanasuthanon																															/	/	/	/	
Mr. Kasama Poyai	/																																		
Mr. Narisorn Pinthong	/																																		
Mr. Kuson Hatthakarn		/																																	
Mr. Dusit Nuamnual			/																																
Mr. Kittikom Phinitwongwitthaya																							/												
Cdr. Parinya Ruckwatin																							/							/					
Mr. Janesak Sudsangtienchai																								/											
Mr. Khanist Srivajiraprabha																										/									
Ms. Inthira Chuaysanit																										/									
Mr. Mike yuan Shan-Hao																						/				/						/			
Ms. Wong Ying Cheeng																						/													

Remark: / = Director

3. Associated Companies and Joint Venture :

As of December 31, 2021, the Company had 5 Associated Companies and 1 Joint Venture.

List of Companies List of Directors	Wan Meng	NEX	TFTH	RNC	CSBC	Atess Power
	57/ ¹	58/ ²	59/ ³	60/ ⁴	61/ ⁵	62/ [*]
Mr. Somphote Ahunai		/				
Mr. Amorn Sapthaweeikul		/	/			
Ms. Supaporn Ahunai				/		
Mr. Vasu Klomkliang		/		/		
Mr. Chatrapon Sripratum	/		/			
Mr. Mike yuan Shan-Hao	/					
Mr. Khanist Srivajiraprabha		/				
Pol. Gen. Aek Angsanant		/				
Mr. Suthep Pongpitak		/				
Ms. Punpimol Komolpis		/				
Mr. Somboon Wongrassamee		/				
Mr. Winai Taewsomboonkij			/			
Mr. Phet Nuntavisai			/			
Mr. Rattana Meetem			/			
Mr. Komsahaspob Nuttayakul		/				
Mr. Pan Ming Liang	/					
Ms. Wang Xiu Mei	/					
Mr. Hsu Min Tsung	/					
Mr. Yuttana Charoenphon				/		
Mr. Pachara Preeyanupap				/		
Mr. Cheng Wen Lung					/	
Mr. Yu Mao Hua					/	
Ms. Chuang Chia Ying					/	
Mr. Peter Wang					/	
Mr. Jack Chen					/	

Remark : / = Director

1, 2, 3, 4, 5 = Associate

* = Joint venture is monitored by shareholding.

4. Related Companies (Juristic person of person who may have conflict of interest)

List of Companies	List of Directors								
	Mr. Somchainuk Engtrakul	M.R. Bravochat Chatchai	Pol.Gen. Phatcharavat Wongsuwan	Mr. Somphote Ahunai	Mr. Amorn Saphaweekul	Mr. Wutthilerd Chiannilkulchai	Mr. Somboon Ahunai	Mr. Amornsak Noparumpa	Mr. Somphop Keerasuntonpong
	1	2	3	4	5	6	7	8	9
1. Dhipaya Insurance PCL.	/								
2. Dhipaya Group Holdings PCL.	/								
3. Vejthani PCL.	/								
4. Major Cineplex Group PLC.	/								
5. Siampiwat Holding Co., Ltd.	/								
6. Siam Piwat Co., Ltd.	/								
7. M.R. Bravochat Chatchai Laws Office		/							
8. Country Group Development PCL.			/						
9. Charoen Pokphand Foods PCL.			/						
10. CP ALL PCL.			/						
11. The Thai Dairy Industry Co., Ltd.			/						
12. AekYingKrit Holding Co., Ltd.				/					
13. Eternity Holding Co., Ltd.				/					
14. SPBL Holding Co., Ltd.				/					
15. Absolute Infinity Co., Ltd.				/					
16. T Health Products Co., Ltd.				/					
17. Watabak Wind Co., Ltd.					/				
18. Advance Finance PCL.					/				
19. TF Tech Co., Ltd.					/				
20. TF Tech Holding Co., Ltd.					/				
21. C.C. Oil Co., Ltd.						/			
22. Two Plus One Oil Co., Ltd.						/			
23. Power 10 Co., Ltd.						/			
24. Double 10 Co., Ltd.						/			
25. Malee Oil Co., Ltd.						/			
26. Sueb Nueng Kan Kha Co., Ltd.						/			
27. Perfect Oil Co., Ltd.						/			
28. Famous 10 Co., Ltd.						/			
29. Macharoen Co., Ltd.						/			
30. Chalee Trading Co., Ltd.						/			
31. Mitsiam Oil Co., Ltd.						/			
32. Window Asia Co., Ltd.						/			

List of Companies	List of Directors								
	Mr. Somchainuk Engtrakul	Mr. Bravo Chat Chatchai	Pol.Gen. Phatcharavat Wongsuwan	Mr. Somphote Ahunai	Mr. Amorn Saphaweekul	Mr. Wutthilard Chiannikulchai	Mr. Somboon Ahunai	Mr. Amornsak Noparumpa	Mr. Somphop Keerasuntongpong
	1	2	3	4	5	6	7	8	9
33. Ruammit Panich Co., Ltd.							/		
34. Song Phol Co., Ltd.							/		
35. Regional Container Lines PCL.								/	
36. L.P.N. Development PCL.								/	
37. Finansia Syrus Securities PCL.									/

Remark : / = Director

Attachment 3 Detail of Head of the Internal Audit

Name and surname	Age (year)	(%) of share possession	Family Relationship among Directors and Executives	Education / Training	Working experiences in the 5 Preceding years		
					Period	Position	Company
					Position in the Company		
Ms. Aiyaret Boonyaruang - Acting Vice President - Internal Audit and Risk Management Department - Assistant Vice President - Internal Audit and Risk Management Department (Appointed on November 10, 2021)	38	-None-	-None-	Education - Master of Science, Information Technology Management, Rangsit University - Bachelor of Accounting Program (B.Acc.), Mae Fah Luang University Training - Auditor-in-Charge Tools and Techniques, The Institute of Internal Auditors of Thailand - Control Self-Assessment: Facilitation Skills, The Institute of Internal Auditors of Thailand - COSO 2013, Federation of Accounting Professions - Fraud Audit, Federation of Accounting Professions - Risk Based Audit, The Institute of Internal Auditors of Thailand	Nov 2021 - Present	- Acting Vice President, Internal Audit and Risk Management Department - Assistant Vice President - Internal Audit and Risk Management Department	Energy Absolute PCL.
					Position in Subsidiary of the Company		
					- None -		
					Position in other Listed Company		
					Mar 2021 – Nov 2021	Internal Audit Manager	Metro Systems Corporation PCL.
					Position in other Company / Other Organization		
					Jul 2019 – Feb 2021	Internal Audit Manager	The Mall Group PCL.
					Nov 2010 – Jun 2019	Internal Audit Assistant Manager	Modernform Group PCL.

Attachment 4

Business Assets and Details on Asset Valuation

The details are disclosed under “1.2.3 Business Assets” topic.

Attachment 5

Good Corporate Governance and Business Code of Conduct

- Good Corporate Governance Policy
www.energyabsolute.co.th/corporate_governance_policy
 - Business Code of Conduct
www.energyabsolute.co.th/code_of_conduct
-

Attachment 6

Report of the Audit Committee

The details are disclosed under “8.2 The Audit Committee Report” topic.

The background of the cover is a green gradient with various financial chart elements. At the top, there are faint line graphs with dots. Below these, a series of candlestick charts are visible, with some months labeled: January, February, March, April, May, June, July, August, and September. A prominent white horizontal line is positioned above the title, and another is below it. The title 'Financial Report' is centered in a large, white, sans-serif font.

Financial Report

Report of the Board of Directors' Responsibilities for the Financial Report

The Board of Directors is responsible for the Company's financial statements and financial information presented in this Annual Report. The financial statement is prepared in accordance with generally accepted accounting standard in Thailand using proper accounting policy of which the Board of Directors always adheres to. With best discretion and calculation of the Board of Directors, the financial statement contains adequate information disclosed in the note to financial statement.

The Board of Directors provides to have and maintains the effective internal control system to assure that the accounting record is accurate, complete and adequate to safeguard the Company's asset and to identify the weakness. Eventually, the effectiveness of the internal control system will prevent the corruption or significant unusual operation. In this regard, the Board of Directors has appointed the Audit Committee which comprises of all independent directors, to be responsible for quality of the financial report and internal control system. The opinion of the Audit Committee is expressed in the Report of the Audit Committee in this Annual Report.

The Board of Directors is of the opinion that overall of the Company's internal control system is in satisfactory level that creating trust and reliability. The Company's financial statement as at 31 December 2021 is accurate, complete and in line with generally accepted accounting standard and in compliance with relevant laws and regulations.

On behalf of the Board of Directors,
Energy Absolute Public Company Limited



(Mr. Somchainuk Engtrakul)
Chairman of the Board of Directors

Independent Auditor's Report

To the shareholders of Energy Absolute Public Company Limited

My opinion

In my opinion, the consolidated financial statements and the separate financial statements present fairly, in all material respects, the consolidated financial position of Energy Absolute Public Company Limited (the Company) and its subsidiaries (the Group) and the separate financial position of the Company as at 31 December 2021, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRS).

What I have audited

The consolidated financial statements and the separate financial statements comprise:

- the consolidated and separate statements of financial position as at 31 December 2021;
- the consolidated and separate statements of comprehensive income for the year then ended;
- the consolidated and separate statements of changes in equity for the year then ended;
- the consolidated and separate statements of cash flows for the year then ended; and
- the notes to the consolidated and separate financial statements, which include significant accounting policies and other explanatory information.

Basis for opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of my report. I am independent of the Group and the Company in accordance with the Code of Ethics for Professional Accountants issued by the Federation of Accounting Professions that are relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Key audit matters

Key audit matters are those matters that, in my professional judgement, were of most significance in my audit of the consolidated and separate financial statements of the current period. These matters were addressed in the context of my audit of the consolidated and separate financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on these matters.

Key audit matter	How my audit addressed the key audit matter
<i>Impairment assessment of goodwill</i> Refer to Note 21 Goodwill, as at 31 December 2021, the Group recognised goodwill of Baht 1,453 million, which represents 2% of the total assets in the consolidated financial statements. Goodwill of Baht 1,073 million arose from the acquisition of a battery developing, manufacturing and distributing business. The remaining of Baht 380 million mostly arose from the acquisitions of palm crushing mills and biomass power plant business. The Group did not recognise an impairment loss in the 2021 consolidated financial statements. The management tests goodwill impairment annually or whenever there is an indicator of impairment. Also, the management performs impairment test at the cash-generating unit level (CGU) and calculates its recoverable amount by applying the value-in-use model. This model involves management's significant judgments in respect to the future operating results, the projected cash flows and the appropriate discount rate to be applied to those projected cash flows. Key assumptions applied in the value-in-use model are as follows: • revenue growth rate and estimated changes in expenditures of the business. • discount rate applied to the projected cash flows which is calculated from capital structure, industry specific risk and beta from available industry information. I focussed on the valuation of goodwill arising from the acquisition of a battery developing, manufacturing and distributing business due to its significant value and the fact that the determination of value-in-use depends on a number of assumptions. Those assumptions involve management's significant judgements in assessing the feasibility of future business plans.	I carried out the following procedures to assess the impairment testing of the goodwill arising from the acquisition of a battery developing, manufacturing and distributing business which was prepared by the management. • assessed the appropriateness of management's identification of the CGUs. • held discussions with management to understand the basis for the assumptions applied and evaluated whether the goodwill impairment testing process and assumptions had been applied appropriately and were in line with the nature of the business. • challenged management's significant assumptions used in the goodwill impairment testing, especially the revenue growth rate, estimated changes in expenditures and discount rate. My procedures included comparing those assumptions to external sources and the approved business plan. • assessed the reasonableness of the business plan by comparing the 2021 plan with actual results. • assessed the discount rate taking into account independently obtained data from available public information of companies in the industry to check whether the discount rate used by the management was within an acceptable range. • tested the sensitivity analysis over key assumptions to assess which factors are sensitive to assumptions and the potential impacts of the range of possible outcomes. As a result of the procedures performed, the key assumptions used by the management are within the acceptable range and consistent with supporting evidence.

Key audit matter	How my audit addressed the key audit matter
<i>Fair value measurement of investments in equity instruments</i> Refer to Note 12 Financial assets measured at fair value through other comprehensive income, as at 31 December 2021, the Group recognised investments in equity instruments of non-listed companies of Baht 5,023 million, which represents 6% of the total assets in the consolidated financial statements. An investment of Baht 4,968 million is an investment in the business of property development (the investment). The Group determined that this investment is an investment in an equity instrument under the scope of TAS 32 “Financial Instruments: Presentation” and requires subsequent measurement to fair value under the scope of TFRS 9 “Financial Instruments”. The Group irrevocably elected to account for the equity investment at fair value through other comprehensive income (FVOCI). The management calculates the fair value of the investment by applying the income approach. Fair value measurement involves significant judgements made by the management in respect to the future operating results, projected cash flows and the appropriate discount rate to be applied to the projected cash flows. Key assumptions applied in determining the fair value are the growth rate of the land price, projected revenue, capital expenditure, operating expenditure, capital structure and discount rate applied to the projected cash flows. The result of calculation indicates that the fair value is less than its carrying amount as at 31 December 2021. Therefore, the Group recognised a loss through other comprehensive income net of tax amounting to Baht 408 million in the 2021 consolidated financial statements. I focussed on the fair value measurement of the investment because the management applied the income approach (the discounted cash flows) and the model involves the management’s significant estimations and judgment to assess the projected cash flows and discount rate applied for the projected cash flows.	I carried out the following procedures to obtain evidence for the management’s fair value measurement of the investment: • reviewed management’s assessment that the classification of the investment should be accounted as a financial asset measured at fair value through other comprehensive income. • tested the calculation of fair values of the investment and also challenged management’s significant assumptions applied in the future cash flows estimation (e.g. the growth rate of the land price, projected revenue, capital expenditure, operating expenditure, capital structure and discount rate) by comparing those assumptions to the underlying agreements, external sources and the approved business plan. • assessed the reasonableness of the business plan by comparing the 2021 plan with actual results. • assessed the discount rate taking into account independently obtained data from available public information of companies in the industry to check whether the discount rate used by the management was within an acceptable range. As a result of the procedures performed, I determined that the method and assumptions applied in fair value measurement of the investment were reasonable and in line with the accounting for the fair value.

Other information

The directors are responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and my auditor's report thereon. The annual report is expected to be made available to me after the date of this auditor's report.

My opinion on the consolidated and separate financial statements does not cover the other information and I will not express any form of assurance conclusion thereon.

In connection with my audit of the consolidated and separate financial statements, my responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

When I read the annual report, if I conclude that there is a material misstatement therein, I am required to communicate the matter to the audit committee.

Responsibilities of the directors for the consolidated and separate financial statements

The directors are responsible for the preparation and fair presentation of the consolidated and separate financial statements in accordance with TFRS, and for such internal control as the directors determine is necessary to enable the preparation of consolidated and separate financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated and separate financial statements, the directors are responsible for assessing the Group's and the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

The audit committee assists the directors in discharging their responsibilities for overseeing the Group's and the Company's financial reporting process.

Auditor's responsibilities for the audit of the consolidated and separate financial statements

My objectives are to obtain reasonable assurance about whether the consolidated and separate financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated and separate financial statements.

As part of an audit in accordance with TSAs, I exercise professional judgement and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's and the Company's internal control.

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's and the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

I communicate with the audit committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

I also provide the audit committee with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.

From the matters communicated with the audit committee, I determine those matters that were of most significance in the audit of the consolidated and separate financial statements of the current period and are therefore the key audit matters. I describe these matters in my auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

PricewaterhouseCoopers ABAS Ltd.

Amornrat Pearmpoonvatanasuk
 Certified Public Accountant (Thailand) No. 4599
 Bangkok
 24 February 2022

Energy Absolute Public Company Limited
Statement of Financial Position
As at 31 December 2021

		Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
	Notes	Baht	Baht	Baht	Baht
Assets					
Current assets					
Cash and cash equivalents	9	2,926,971,651	2,950,667,329	662,435,476	637,794,878
Deposits at financial institutions used as collateral	10	16,877,915	11,719,261	-	-
Trade accounts receivable, net	11	3,690,367,236	2,750,193,492	532,213,164	497,494,602
Current portion of finance lease receivables, net	13	98,666,773	-	-	-
Other accounts receivable, net	14	2,719,648,758	761,289,090	578,821,699	290,712,065
Short-term loans to other parties and related parties, net		-	7,065,407	3,744,906,850	1,830,543,640
Current portion of long-term loans to other parties and related parties	40.4	-	75,000,000	332,471,263	52,446,741
Inventories, net	15	1,483,146,410	833,299,401	214,220,660	282,809,335
Non-current assets held for sale	16	713,908,748	-	-	-
Total current assets		11,649,587,491	7,389,233,980	6,065,069,112	3,591,801,261
Non-current assets					
Finance lease receivables, net	13	504,411,718	-	-	-
Deposits at financial institutions used as collateral	10	114,210,043	177,457,376	9,229,195	92,945,000
Financial assets measured at fair value through other comprehensive income	12	5,022,697,447	5,526,611,867	4,968,126,754	5,479,323,609
Investments in subsidiaries	17	1	1	29,483,663,951	27,719,122,426
Investments in associates	17	1,512,972,555	1,500,481,507	-	-
Investment in joint ventures	17	100,948,312	28,990,332	45,471,090	45,471,090
Long-term loans to other parties and related parties	40.4	79,846,250	4,846,250	7,912,931,477	10,333,553,259
Investment property, net	18	65,459,993	67,194,176	1,037,109,829	1,038,844,012
Property, plant and equipment, net	19	58,420,633,428	55,856,938,552	294,633,200	347,349,223
Right-of-use assets, net	20	1,733,641,582	1,778,324,439	304,215,680	303,779,068
Goodwill	21	1,453,470,894	1,337,332,568	-	-
Intangible assets, net	22	2,789,704,299	2,792,580,343	11,667,101	11,559,999
Deferred tax assets, net	23	178,649,403	111,283,704	38,954,617	-
Other non-current assets, net	24	1,850,016,716	1,912,492,967	987,916,757	936,064,828
Total non-current assets		73,826,662,641	71,094,534,082	45,093,919,651	46,308,012,514
Total assets		85,476,250,132	78,483,768,062	51,158,988,763	49,899,813,775

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Financial Position
As at 31 December 2021

	Notes	Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
		Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term loans from financial institutions, net	25	1,618,059,869	2,640,314,893	883,988,564	362,176,922
Trade accounts payable		358,316,700	372,586,822	232,833,237	269,528,788
Other accounts payable	26	888,949,075	915,949,519	473,270,664	489,524,604
Construction payables and payables for purchase of assets		1,884,279,824	128,136,800	-	-
Short-term loans from other parties and related parties		258,725,953	33,925,953	5,272,710,000	4,779,903,740
Current portion of long-term loans from financial institutions, net	27	5,581,640,244	5,342,357,161	935,618,978	3,535,124,780
Derivative liabilities		474,479	10,628,706	-	-
Current portion of lease liabilities, net		56,972,874	98,740,857	3,011,272	54,589,949
Current portion of long-term loans from a related party	40.5	-	-	816,000,000	-
Current portion of debentures, net	28	1,998,849,124	3,999,465,959	1,998,849,124	3,999,465,959
Income tax payable		16,333,922	12,609,517	-	-
Retention for constructions		13,367,167	9,727,084	-	-
Total current liabilities		12,675,969,231	13,564,443,271	10,616,281,839	13,490,314,742
Non-current liabilities					
Derivative liabilities		-	3,205,326	-	-
Long-term loans from financial institutions, net	27	23,581,583,387	18,897,599,008	4,443,952,624	1,886,868,053
Long-term loans from a related party	40.5	-	-	2,416,000,000	-
Debentures, net	28	10,195,499,517	12,192,300,842	10,195,499,517	12,192,300,842
Retention for constructions		148,973,627	76,477,961	-	-
Lease liabilities, net		1,684,532,956	1,674,909,377	284,525,660	260,749,280
Deferred tax liabilities, net	23	254,365,702	296,341,100	-	57,636,972
Retirement benefit obligations		86,320,024	67,612,900	62,861,399	52,929,052
Advance receipts for land rental from related parties	40.6	-	-	805,359,701	769,730,234
Provision for decommissioning costs	29	1,740,988,514	2,073,682,821	1,592,750	1,592,750
Other non-current liabilities		6,296,469	10,317,611	1,539,947	1,539,947
Total non-current liabilities		37,698,560,196	35,292,446,946	18,211,331,598	15,223,347,130
Total liabilities		50,374,529,427	48,856,890,217	28,827,613,437	28,713,661,872

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited

Statement of Financial Position

As at 31 December 2021

	Note	Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
		Baht	Baht	Baht	Baht
Liabilities and equity (continued)					
Equity					
Share capital					
Authorised share capital					
- 3,730,000,000 ordinary shares					
at par value of Baht 0.10 per share					
		373,000,000	373,000,000	373,000,000	373,000,000
Issued and paid-up share capital					
- 3,730,000,000 ordinary shares					
paid-up at Baht 0.10 per share					
		373,000,000	373,000,000	373,000,000	373,000,000
Premium on share capital					
		3,680,616,000	3,680,616,000	3,680,616,000	3,680,616,000
Retained earnings					
Appropriated					
- Legal reserve					
30		37,300,000	37,300,000	37,300,000	37,300,000
Unappropriated					
		29,130,158,026	24,149,090,022	18,389,411,722	16,837,417,144
Other components of equity					
		(720,052,699)	(428,488,805)	(148,952,396)	257,818,759
Equity attributable to owners					
of the parent					
		32,501,021,327	27,811,517,217	22,331,375,326	21,186,151,903
Non-controlling interests					
		2,600,699,378	1,815,360,628	-	-
Total equity					
		35,101,720,705	29,626,877,845	22,331,375,326	21,186,151,903
Total liabilities and equity					
		85,476,250,132	78,483,768,062	51,158,988,763	49,899,813,775

The accompanying notes to the financial statements are an integral part to these financial statements.

	Notes	Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
		Baht	Baht	Baht	Baht
Revenue from sales and services	31	13,286,347,588	10,455,194,710	6,141,781,236	5,705,542,290
Revenue from subsidy for adders	32	6,887,462,572	6,624,362,396	-	-
Dividend income	17.2, 40.7	-	-	2,816,357,289	3,871,536,709
Other income	33	384,286,480	119,585,303	546,443,227	513,599,523
Total revenues		20,558,096,640	17,199,142,409	9,504,581,752	10,090,678,522
Cost of sales and services		(11,893,352,868)	(9,271,419,410)	(5,660,294,416)	(5,169,676,229)
Selling expenses		(71,841,661)	(79,838,972)	(49,964,757)	(58,647,338)
Administrative expenses		(1,365,490,459)	(1,198,576,795)	(490,788,633)	(672,652,931)
Gain on measurement of derivatives		13,359,553	67,931,198	-	-
Currency exchange gains, net		65,919,621	9,766,800	64,526,341	9,491,592
Finance costs	34	(1,387,538,451)	(1,636,797,026)	(691,417,927)	(845,008,629)
Total expenses		(14,638,944,265)	(12,108,934,205)	(6,827,939,392)	(6,736,493,535)
Share of gains (losses) from investments in associates and joint ventures, net	17.1	13,545,817	(61,049,730)	-	-
Profit before income tax		5,932,698,192	5,029,158,474	2,676,642,360	3,354,184,987
Income tax	36	(3,345,312)	18,222,893	(5,647,782)	3,675,264
Profit for the year		5,929,352,880	5,047,381,367	2,670,994,578	3,357,860,251
Other comprehensive income (expense)					
Items that will not be reclassified subsequently to profit or loss					
Remeasurements of post-employment benefit obligations		4,697,512	(31,256)	2,186,329	-
Changes in fair value of equity investments at fair value through other comprehensive income	12	(510,152,298)	363,883,560	(511,196,855)	345,252,576
Income tax on items that will not be reclassified subsequently to profit or loss		102,031,536	(72,776,712)	102,239,371	(69,050,515)
Total items that will not be reclassified subsequently to profit or loss		(403,423,250)	291,075,592	(406,771,155)	276,202,061

The accompanying notes to the financial statements are an integral part to these financial statements.

		Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
	Notes	Baht	Baht	Baht	Baht
Items that will be reclassified subsequently to profit or loss					
Share of other comprehensive income (expense) of associates and joint ventures accounted for using the equity method, net	17	7,833,336	(5,617,123)	-	-
Currency translation differences		213,427,982	208,501,612	-	-
Income tax on items that will be reclassified subsequently to profit or loss		-	-	-	-
Total items that will be reclassified subsequently to profit or loss		221,261,318	202,884,489	-	-
Other comprehensive income (expense) for the year, net of tax		(182,161,932)	493,960,081	(406,771,155)	276,202,061
Total comprehensive income for the year		5,747,190,948	5,541,341,448	2,264,223,423	3,634,062,312
Profit (loss) attributable to:					
Owners of the parent		6,100,068,004	5,204,565,828	2,670,994,578	3,357,860,251
Non-controlling interests		(170,715,124)	(157,184,461)	-	-
		5,929,352,880	5,047,381,367	2,670,994,578	3,357,860,251
Total comprehensive income (expense) attributable to:					
Owners of the parent		5,879,984,994	5,645,121,504	2,264,223,423	3,634,062,312
Non-controlling interests		(132,794,046)	(103,780,056)	-	-
		5,747,190,948	5,541,341,448	2,264,223,423	3,634,062,312
Earnings per share					
Basic earnings per share	37	1.64	1.40	0.72	0.90

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Changes in Equity
For the year ended 31 December 2021

Consolidated financial statements															
Attributable to owners of the parent															
Notes	Other components of equity														
	Issued and paid-up share capital	Premium on share capital	Retained earnings		Discount from changes in shareholding interests in subsidiaries	Remeasurements of post-employment benefit obligations	Change in fair value of investment in equity instruments	Currency translation differences		Share of other comprehensive income (expense) of associates and joint ventures		Total other components of equity	Total owners of the parent	Non-controlling interests	Total equity
			Legal reserve	Unappropriated reserve				Baht	Baht	Baht	Baht				
	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
	373,000,000	3,680,616,000	37,300,000	20,063,524,194	(693,531,777)	(17,077,774)	5,454,062	(164,322,192)	433,200	(869,044,481)	23,285,395,713	1,503,798,819	24,789,194,532		
	Changes in equity for the year														
	-	-	-	-	-	-	-	-	-	-	-	-	19,321,325	19,321,325	
	-	-	-	-	-	-	-	-	-	-	-	-	11,395,540	11,395,540	
	-	-	-	-	-	-	-	-	-	-	-	-	384,625,000	384,625,000	
38	-	-	-	(1,119,000,000)	-	-	-	-	-	-	(1,119,000,000)	-	-	(1,119,000,000)	
	-	-	-	5,204,565,828	-	(23,352)	290,121,269	156,074,882	(5,617,123)	440,555,676	5,645,121,504	(103,780,056)	5,541,341,448		
	Total comprehensive income (expense) for the year														
	373,000,000	3,680,616,000	37,300,000	24,149,090,022	(693,531,777)	(17,101,126)	295,575,331	(8,247,310)	(5,183,923)	(428,488,805)	27,811,517,217	1,815,360,628	29,626,877,845		
	Closing balance as at 31 December 2020														
	373,000,000	3,680,616,000	37,300,000	24,149,090,022	(693,531,777)	(17,101,126)	295,575,331	(8,247,310)	(5,183,923)	(428,488,805)	27,811,517,217	1,815,360,628	29,626,877,845		
	Changes in equity for the year														
	-	-	-	-	-	-	-	-	-	-	-	-	369,894,618	369,894,618	
17.2	-	-	-	-	(71,480,884)	-	-	-	-	(71,480,884)	(71,480,884)	548,238,178	476,757,294	476,757,294	
38	-	-	-	(1,119,000,000)	-	-	-	-	-	-	(1,119,000,000)	-	-	(1,119,000,000)	
	-	-	-	6,100,068,004	-	4,344,157	(408,361,738)	176,101,235	7,833,336	(220,083,010)	5,879,984,994	(132,794,046)	5,747,190,948		
	Total comprehensive income (expense) for the year														
	373,000,000	3,680,616,000	37,300,000	29,130,158,026	(785,012,661)	(12,756,969)	(112,786,407)	167,853,925	2,649,413	(720,052,699)	32,501,021,327	2,600,699,378	35,101,720,705		
	Closing balance as at 31 December 2021														

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Changes in Equity
For the year ended 31 December 2021

Separate financial statements											
Other components of equity											
Other comprehensive income (expense)											
Remeasurements of post-employment benefit obligations											
Change in fair value of investment in equity instruments											
Total other components of equity											
Total equity											
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The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Cash Flows
For the year ended 31 December 2021

	Notes	Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
		Baht	Baht	Baht	Baht
Cash flows from operating activities					
Profit before income tax for the year		5,932,698,192	5,029,158,474	2,676,642,360	3,354,184,987
Adjustments to reconcile profit before income tax to net cash provided by operations:					
- Depreciation and amortisation		2,767,972,376	2,730,380,260	96,920,120	119,402,885
- Impairment loss of assets		98,423,901	5,807,644	22,306,229	1,441,013
- Gain on measurement of financial instruments		(13,359,553)	(67,931,198)	-	-
- Interest income	33	(32,846,917)	(30,528,099)	(366,207,111)	(431,106,923)
- Dividend income	17.2	-	-	(2,816,357,289)	(3,871,536,709)
- Finance costs	34	1,387,538,451	1,636,797,026	691,417,927	845,008,629
- Retirement benefit expenses		23,404,636	12,739,765	12,118,676	8,203,752
- Share-based payments		-	11,395,540	-	-
- Share of (gain) loss from investments in associates and joint ventures, net	17.1	(13,545,817)	61,049,730	-	-
- Gain on changing in shareholding interest in an associate	17.1	-	(8,758,602)	-	-
- Losses on disposals of investments in subsidiaries	17.1	61,464	-	-	64,735,371
- Gains on disposals of investments in associates, net		-	(2,886,785)	-	-
- (Gains) losses on disposal of machines and equipment		(190,906,163)	81,341,425	993,748	(1,360,837)
- Gains on disposals of assets from finance lease		(127,857,170)	-	-	-
- Losses on write-off of intangible assets	22	5,530,993	-	1,286,250	-
- Losses on write-off of machines and equipment	19	11,696,854	3,373,454	287	-
- Allowance for decrease in value of inventories		32,665,872	6,265,237	-	-
- Reversal allowance for decrease in value of inventories		(7,427,346)	-	-	(1,387,595)
- Unrealised gains on exchange rates, net		(65,377,189)	(2,300,365)	(64,996,626)	(7,632,114)
- Write-off deferred financing fee of long-term loans from a financial institution	27.1	133,837,806	-	-	-
- Amortisation of advance receipts for land rental from related parties	40.6	-	-	(57,742,854)	(57,150,326)
Cash flows before changes in operating assets and liabilities		9,942,510,390	9,465,903,506	196,381,717	22,802,133
Change in operating assets and liabilities:					
- Trade accounts receivable		(1,015,963,266)	(88,825,778)	(34,718,562)	(175,839,280)
- Other accounts receivable		(400,780,056)	(257,700,134)	(85,720,085)	37,079,250
- Inventories		(675,085,535)	(72,157,572)	68,588,675	(80,834,525)
- Other non-current assets		266,135	15,336,955	(257,022)	7,592,211
- Trade accounts payable		(14,270,122)	72,143,170	(36,695,551)	30,378,799
- Other accounts payable		17,392,277	137,147,004	96,766,143	24,445,633
- Other non-current liabilities		(3,323,060)	(5,412,348)	-	51,816
Cash generated from (used in) operations		7,850,746,763	9,266,434,803	204,345,315	(134,323,963)
- Income tax paid		(52,622,656)	(28,799,955)	(6,785,320)	(10,866,244)
Net cash receipts from (payments in) operating activities		7,798,124,107	9,237,634,848	197,559,995	(145,190,207)

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Cash Flows
For the year ended 31 December 2021

		Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
Notes	Baht	Baht	Baht	Baht	Baht
Cash flows from investing activities					
Deposits at financial institutions used as collateral		58,088,679	9,523,235	83,715,805	5,183,211
Proceeds from short-term loans to an other party and related parties	40.4	-	200,000	100,000,000	1,400,000,000
Payments for short-term loans to related parties	40.4	-	-	(2,191,633,800)	(2,472,000,000)
Proceeds from long-term loans to related parties	40.4	-	-	2,737,000,000	3,029,000,000
Payments for long-term loans to related parties	40.4	-	-	(359,511,000)	(165,000,000)
Payments for an investment in financial assets measured at fair value through other comprehensive income	12	-	(5,134,071,033)	-	(5,134,071,033)
Proceeds from acquisitions of indirect subsidiaries		-	2,740,878	-	-
Payments for acquisitions of indirect subsidiaries		-	(403,799,779)	-	-
Payments for investments in subsidiaries	17.1	-	-	(1,764,541,525)	(4,234,029,911)
Proceeds from disposals of investments in indirect subsidiaries, net	17.1	6,691,196	-	-	523,009,562
Payments for investments in associates	17.1	(21,990,000)	(1,514,000,000)	-	-
Proceeds from disposals of investments in associates		-	34,202,386	-	-
Payments for investment in joint ventures	17.1	(35,000,100)	(2,185,650)	-	(2,185,650)
Payments for purchase of investment property	18	(400,000)	-	(400,000)	-
Payments for purchase of property, plant and equipment		(5,956,609,070)	(7,160,399,734)	(90,445,347)	(925,150,255)
Payments for decommissioning of fixed assets	29	(351,498)	-	-	-
Proceeds from disposals of machines and equipment		8,567,032	30,514,588	3,294,234	10,461,325
Payments for purchase of intangible assets		(33,958,195)	(77,861,556)	(3,222,734)	(2,119,320)
Proceeds from advance receipts for land rental from related parties	40.6	-	-	93,543,741	93,200,902
Proceeds from dividend income	17.2, 17.3	1,459,944	-	2,816,357,289	3,871,536,709
Proceeds from interest income		19,834,071	28,550,359	175,921,334	331,615,022
Proceeds from finance lease receivables		47,000,000	-	-	-
Interest paid capitalised in property, plant and equipment	19	(33,921,600)	(8,954,051)	-	-
Net cash receipts from (payments in) investing activities		(5,940,589,541)	(14,195,540,357)	1,600,077,997	(3,670,549,438)
Cash flows from financing activities					
Proceeds from short-term loans from financial institutions	25	5,154,290,186	4,898,169,125	3,317,897,487	2,789,197,544
Payments for short-term loans from financial institutions	25	(6,143,629,065)	(3,303,185,833)	(2,803,949,440)	(2,913,016,424)
Proceeds from long-term loans from financial institutions	27.1	29,224,166,432	1,302,200,424	3,500,000,000	-
Payments for long-term loans from financial institutions	27.1	(24,433,157,887)	(1,845,026,605)	(3,540,000,000)	(270,000,000)
Payments for deferred financing fee of long-term loan from financial institutions	27.1	(38,964,997)	-	(9,500,000)	-
Proceeds from short-term loans from related parties	40.5	225,000,000	-	580,000,000	2,380,000,000
Payments for short-term loans from other parties and related parties	40.5	-	(69,172,032)	(87,193,740)	(136,806,260)
Proceeds from long-term loan from a related party	40.5	-	-	4,000,000,000	-
Payments from long-term loan from a related party	40.5	-	-	(768,000,000)	-
Payments for lease liabilities	20	(156,139,448)	(115,475,792)	(64,202,602)	(11,788,998)
Proceeds from issuing debentures	28	-	2,200,000,000	-	2,200,000,000
Payments for repayment of debentures	28	(4,000,000,000)	(3,000,000,000)	(4,000,000,000)	(3,000,000,000)
Payments for deferred financing fees	28	-	(2,200,000)	-	(2,200,000)
Proceeds from paid-up common shares of subsidiaries from non-controlling interest		845,156,702	384,625,000	-	-
Dividend paid		(1,118,603,956)	(1,118,937,555)	(1,118,603,956)	(1,118,937,555)
Interest paid		(1,368,175,273)	(1,471,875,249)	(777,923,988)	(725,512,693)
Net cash payments in financing activities		(1,810,057,306)	(2,140,878,517)	(1,771,476,239)	(809,064,386)

The accompanying notes to the financial statements are an integral part to these financial statements.

Energy Absolute Public Company Limited
Statement of Cash Flows
For the year ended 31 December 2021

		Consolidated financial statements		Separate financial statements	
		2021	2020	2021	2020
	Notes	Baht	Baht	Baht	Baht
Net increase (decrease) in cash and cash equivalents		47,477,260	(7,098,784,026)	26,161,753	(4,624,804,031)
Beginning balance		2,950,667,329	10,028,951,620	637,794,878	5,260,281,030
Currency translation differences on cash and cash equivalents		(71,172,938)	20,499,735	(1,521,155)	2,317,879
Ending balance		2,926,971,651	2,950,667,329	662,435,476	637,794,878
Cash and cash equivalents are made up as follows:					
- Cash on hand and deposits at financial institutions					
- maturities within three months	9	2,926,971,651	2,950,667,329	662,435,476	637,794,878
		2,926,971,651	2,950,667,329	662,435,476	637,794,878
Supplementary information					
Changes in construction payables and payables for purchase of assets (including retention for constructions)		1,832,278,773	123,045,344	-	-
Changes in decommissioning costs		371,753,161	28,955,058	-	-
Acquisition of rights-of-use assets and revaluation of lease liabilities		75,253,117	1,882,810,286	26,843,023	342,464,376
Reclassification of deferred financing fee		(13,500,000)	-	-	-
Changes in finance lease receivables	13	(603,078,491)	-	-	-
Changes in accounts receivable from sales of machines and equipment	14	(1,570,854,927)	-	-	-

The accompanying notes to the financial statements are an integral part to these financial statements.

1 General information

Energy Absolute Public Company Limited (the Company) is a public limited company, incorporated and resident in Thailand. The address of its registered office is 89, AIA Capital Center Building, 16th Floor, Ratchadaphisek Road, Dindaeng, Bangkok.

The Company is listed on The Stock Exchange of Thailand. For reporting purposes, the Company and its subsidiaries are referred to as “the Group”.

The Group engages in business of manufacturing and distributing crude palm oil, biodiesel products and glycerol, operating renewable power plants and develop, manufacture and distribute lithium-ion polymer battery and electric vehicle.

The consolidated and separate financial statements were authorised for issue by the Board of Directors on 24 February 2022.

2 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai Financial Reporting Standards (TFRS) and the financial reporting requirements issued under the Securities and Exchange Act.

The consolidated and separate financial statements have been prepared under the historical cost convention except as disclosed in the below accounting policies.

The preparation of financial statements in conformity with TFRS requires management to use certain critical accounting estimates, and to exercise its judgement in applying the Group’s accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements and separate financial statements are disclosed in Note 7.

An English language version of the consolidated and separate financial statements has been prepared from the statutory financial statements that are in the Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

3 New and amended financial reporting standards

3.1 Amended financial reporting standards that are effective for accounting periods beginning on or after 1 January 2021 and relevant to the Group

- a) **Revised Conceptual Framework for Financial Reporting** added the following key principals and guidance:

- Measurement basis, including factors in considering difference measurement basis;
- Presentation and disclosure, including classification of income and expenses in other comprehensive income;
- Definition of a reporting entity, which maybe a legal entity, or a portion of an entity; and
- Derecognition of assets and liabilities

The amendment also includes the revision to the definition of an asset and liability in the financial statements, and clarification to the prominence of stewardship in the objective of financial reporting.

- b) **Amendment to TFRS 3, Business combinations** amended the definition of a business which requires an acquisition to include an input and a substantive process that together significantly contribute to the ability to create outputs. The definition of the term 'outputs' is amended to focus on goods and services provided to customers and to exclude returns in the form of lower costs and other economic benefits.
- c) **Amendment to TFRS 9, Financial instruments and TFRS 7, Financial instruments: disclosures** amended to provide relief from applying specific hedge accounting requirements to the uncertainty arising from interest rate benchmark reform such as IBOR. The amendment also requires disclosure of hedging relationships directly affected by the uncertainty.
- d) **Amendment to TAS 1, Presentation of financial statements and TAS 8, Accounting policies, changes in accounting estimates and errors** amended to definition of materiality. The amendment allows for a consistent definition of materiality throughout the Thai Financial Reporting Standards and the Conceptual Framework for Financial Reporting. It also clarified when information is material and incorporates some of the guidance in TAS 1 about immaterial information.

Commencing from 1 January 2021, the Group has adopted the aforementioned revised financial reporting standards. The adoption of these financial reporting standards does not have significant impact to the Group.

3.2 Amended financial reporting standards that are effective for accounting period beginning or after 1 January 2022 and the Group has not yet adopted these standards

Interest rate benchmark (IBOR) reform - phase 2, amendments to TFRS 9, TFRS 7, TFRS 16 provide relief measures addressing issues that might affect financial reporting during the reform, including the effects of changes to contractual cash flows or hedging relationship arising from the replacement of one benchmark with an alternative. Key relief measures of the phase 2 amendments are as follows: When changing the basis for determining contractual cash flows for financial assets and financial liabilities (including lease liabilities), changes that are necessary as a direct result of the IBOR reform and which are considered economically equivalent, will not result in an immediate gain or loss in the income statement. TFRS 16 has also been amended to require lessees to use a similar practical expedient when accounting for lease modifications that change the basis for determining future lease payments as a result of the IBOR reform.

The Group's management is currently assessing the impact of adoption of these standards.

4 Accounting policies

The significant accounting policies used for the preparation of the consolidated and separate financial statements are as follows:

4.1 Principle of consolidation

4.1.1 Subsidiaries

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are consolidated from the date on which control is transferred to the Group until the date that control ceases.

In the separate financial statements, investments in subsidiaries are accounted for using cost method less allowance for impairment (if any).

4.1.2 Associates

Associates are all entities over which the Group has significant influence but not control or joint control. Investments in associates are accounted for using the equity method of accounting.

In the separate financial statements, investments in associates are accounted for using cost method less allowance for impairment (if any).

4.1.3 Joint arrangements

Investments in joint arrangements are classified as either joint operations or joint ventures depending on the contractual rights and obligations of each investor, rather than the legal structure of the joint arrangements.

Joint ventures

A joint venture is a joint arrangement whereby the Group has rights to the net assets of the arrangement. Interests in joint ventures are accounted for using the equity method.

In the separate financial statements, investments in joint ventures are accounted for using cost method less allowance for impairment (if any).

4.1.4 Equity method

The investment is initially recognised at cost which is consideration paid and directly attributable costs.

The Group's subsequently recognises shares of its associates and joint ventures' profits or losses and other comprehensive income in the profit or loss and other comprehensive income, respectively. The subsequent cumulative movements are adjusted against the carrying amount of the investment.

When the Group's share of losses in associates and joint ventures equals or exceeds its interest in the associates and joint ventures, the Group does not recognise further losses, unless it has incurred obligations or made payments on behalf of the associates and joint ventures.

4.1.5 Changes in ownership interests

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A difference between the amount of the adjustment to non-controlling interests to reflect their relative interest in the subsidiary and any consideration paid or received is recognised within equity.

If the ownership interest in associates and joint ventures is reduced but significant influence and joint control is retained, only a proportionate share of the amounts previously recognised in other comprehensive income is reclassified to profit or loss where appropriate. Profit or loss from reduce of the ownership interest in associates and joint ventures is recognise in profit or loss.

When the Group losses control, joint control or significant influence over investments, any retained interest in the investment is remeasured to its fair value, with the change in carrying amount recognised in profit or loss. The fair value becomes the initial carrying amount of the retained interest which is reclassified to investment in an associate, or a joint venture or a financial asset accordingly.

4.1.6 Intercompany transactions on consolidation

Intra-group transactions, balances and unrealised gains on transactions are eliminated. Unrealised gains on transactions between the Group and its associates and joint ventures are eliminated to the extent of the Group's interest in the associates and joint ventures. Unrealised losses are also eliminated in the same manner unless the transaction provides evidence of an impairment of the asset transferred.

4.2 Business combination

The Group applies the acquisition method to account for business combinations with an exception on business combination under common control. The consideration transferred for the acquisition of a subsidiary comprises.

- fair value of the assets transferred
- liabilities incurred to the former owners of the acquiree
- equity interests issued by the Group

Identifiable assets and liabilities acquired and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date.

On an acquisition-by-acquisition basis, the Group initially recognises any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The excess of the consideration transferred, the amount of any non-controlling interest recognised and the acquisition-date fair value of any previous equity interest in the acquiree (for business combination achieved in stages) over the fair value of the net identifiable assets acquired is recorded as goodwill. In the case of a bargain purchase, the difference is recognised directly in profit or loss.

Acquisition-related cost

Acquisition-related cost are recognised as expenses in consolidated financial statements.

Step-up acquisition

If the business combination is achieved in stages, the acquisition date carrying value of the acquirer's previously held equity interest in the acquiree is re-measured to fair value at the acquisition date; any gains or losses arising from such re-measured are recognised in profit or loss.

Business combination under common control

The Group accounts for business combination under common control by measuring acquired assets and liabilities of the acquiree at their carrying values presented in the highest level of the consolidation. The Group retrospectively adjusted the business combination under common control transactions as if the combination had occurred on the later of the beginning of the preceding comparative period and the date the acquiree has become under common control.

Consideration of business combination under common control are the aggregated amount of fair value of assets transferred, liabilities incurred and equity instruments issued by the acquirer at the date of which the exchange in control occurs.

The difference between consideration under business combination under common control and the acquirer's interests in the carrying value of the acquiree is presented as "surplus (discount) arising from business combination under common control" in equity and is derecognised when the investment is disposed by transferred to retained earnings.

4.3 Foreign currency translation

4.3.1 Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The financial statements are presented in Thai Baht, which is the functional currency of the Company and the presentation currency of the Group and the Company.

4.3.2 Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions.

Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the profit or loss.

Any exchange component of gains and losses on a non-monetary item that recognised in profit or loss, or other comprehensive income is recognised following the recognition of a gain or loss on the non-monetary item.

4.3.3 Group companies

The operational results and financial position of all of the Group's entities (none of which has the currency of a hyper-inflationary economy) that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- Assets and liabilities for each statement of financial position presented are translated at the closing rate at the date of that statement of financial position;
- Income and expenses for each statement of comprehensive income are translated at average exchange rates; and
- All resulting exchange differences are recognised in other comprehensive income.

Goodwill and fair value adjustments arising on the acquisition of a foreign operation are treated as assets and liabilities of the foreign operation and translated at the closing rate.

4.4 Cash and cash equivalents

In the statements of cash flows, cash and cash equivalents includes cash on hand, deposits held at call, short-term highly liquid investments with maturities of three months or less from acquisition date.

4.5 Trade accounts receivable

Trade accounts receivable are amounts due from customers for goods sold or services performed in the ordinary course of business. They are generally due for settlement within 30 - 45 days and therefore are all classified as current.

Trade accounts receivable are recognised initially at the amount of consideration that is unconditional unless they contain significant financing components, they are recognised at fair value. The Group holds the trade receivables with the objective to collect the contractual cash flows and therefore measures them subsequently at amortised cost.

The impairment of trade receivables are disclosed in Note 4.7.6.

4.6 Inventories

Inventories are stated at the lower of cost and net realisable value.

Cost is determined by the first-in, first-out method, except for cost of battery which is determined by weighted average method. The cost of purchase comprises both the purchase price and costs directly attributable to the acquisition of the inventory, such as import duties and transportation charges, less all attributable discounts, allowances or rebates.

The cost of finished goods and work in progress comprises raw materials, direct labour, other direct costs and related production overheads based on normal operating capacity. It excludes borrowing costs. Net realisable value is the estimate of the selling price in the ordinary course of business, less applicable variable selling expenses. Allowance is made, where necessary, for obsolete, slow-moving and defective inventories.

4.7 Financial asset

4.7.1 Classification

The Group classifies its debt instrument financial assets in the following measurement categories depending on i) business model for managing the asset and ii) the cash flow characteristics of the asset whether they represent solely payments of principal and interest (SPPI).

- those to be measured subsequently at fair value (either through other comprehensive income or through profit or loss); and
- those to be measured at amortised cost.

The Group reclassifies debt investments when and only when its business model for managing those assets changes.

For investments in equity instruments, the Group has an irrevocable election at the time of initial recognition to account for the equity investment at fair value through profit or loss (FVPL) or at fair value through other comprehensive income (FVOCI) except those that are held for trading, they are measured at FVPL.

4.7.2 Recognition and derecognition

Regular way purchases, acquires and sales of financial assets are recognised on trade-date, the date on which the Group commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and the Group has transferred substantially all the risks and rewards of ownership.

4.7.3 Measurement

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at FVPL, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at FVPL are expensed in profit or loss.

Financial assets with embedded derivatives are considered in their entirety when determining whether the cash flows are solely payment of principal and interest.

4.7.4 Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model for managing the asset and the cash flow characteristics of the financial assets. There are three measurement categories into which the Group classifies its debt instruments:

- **Amortised cost:** Financial assets that the Group held for collection of contractual cash flows that represent solely payments of principal and interest (SPPI) are measured at amortised cost. Interest income from these financial assets is recognised using the effective interest method and presented in other income. Any gain or loss on derecognition and foreign exchange gains (losses) are recognised through profit or loss, and presented in other gains (losses) and currency exchange gains (losses), respectively. Impairment losses are recognised and presented as a separate line item in the statement of profit or loss.
- **FVOCI:** Financial assets that the Group held for i) collection of contractual cash flows; and ii) for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at FVOCI. Movements in the carrying amount are taken through other comprehensive income (OCI), except for the recognition of impairment gains or losses, interest income using the effective interest method, and foreign exchange gains and losses which are recognised in profit or loss. When the Group derecognised that financial assets, the cumulative gain or loss previously recognised in OCI is reclassified from equity to profit or loss and presented in other gains (losses). Interest income is included in other income. Impairment expenses are presented separately in the statement of profit or loss.
- **FVPL:** Financial assets that the Group held do not meet the criteria for amortised cost or FVOCI are measured at FVPL. A gain or loss on a debt investment that is subsequently measured at FVPL is recognised in profit or loss and presented net within other gains (losses) in the period in which it arises.

4.7.5 Equity instruments

The Group measures all equity investments at fair value. Where the Group has elected to present fair value gains and losses on equity instruments in OCI, When the Group derecognised that equity instrument, the cumulative gain or loss previously recognised is not subsequent recycling to profit or loss. Dividends from such investments continue to be recognised in profit or loss as dividend income when the right to receive payments is established.

Changes in the fair value of equity instruments at FVPL are recognised in gains (losses).

Impairment losses and reversal of impairment losses on equity investments are reported together with changes in fair value.

4.7.6 Impairment

The Group applies the TFRS 9 simplified approach and general approach in measuring the impairment of trade accounts receivable, other accounts receivable and loans to other parties and related parties, which applies lifetime expected credit loss, from initial recognition, for all trade accounts receivable, other accounts receivable and loan to other parties and related parties.

To measure the expected credit losses by using to simplified approach, the managements grouped the receivables based on shared credit risk characteristics and the days past due. The expected credit loss rates are based on payment profiles, historical credit losses as well as forward-looking information and factors that may affect the ability of the customers to settle the outstanding balances. In addition to the simplified approach, the management applies the general approach, which is consider the individual assessments by applying the discounted cash flow method. For this, management uses an estimate debtor's future cash flows based on the original effective interest rate.

For other financial assets carried at amortised cost and FVOCI, the Group applies TFRS 9 general approach in measuring the impairment of those financial assets. Under the general approach, the 12-month or the lifetime expected credit loss is applied depending on whether there has been a significant increase in credit risk since the initial recognition.

The significant increase in credit risk (from initial recognition) assessment is performed every end of reporting period by comparing i) expected risk of default as of the reporting date and ii) estimated risk of default on the date of initial recognition.

The Group assesses expected credit loss by taking into consideration forward-looking information and past experiences. The expected credit loss is a probability-weighted estimate of credit losses (probability-weighted present value of estimated cash shortfall). The cash shortfall is the difference between all contractual cash flows that are due to the Group and all cash flows expected to receive, discounted at the original effective interest rate.

When measuring expected credit losses, the Group reflects the following:

- Probability-weighted estimated uncollectible amounts;
- Time value of money; and
- Supportable and reasonable information as of the reporting date about past experience, current conditions and forecasts of future situations.

Impairment and reversal of impairment losses are recognised in profit or loss and included in administrative expenses.

4.8 Non-current assets held for sale

Non-current assets are classified as assets held-for-sale when their carrying amount will be recovered principally through a sale transaction and a sale is considered highly probable. They are measured at the lower of the carrying amount and fair value less costs to sell.

An impairment loss is recognised for write-down of the asset to fair value less costs to sell. A gain is recognised for any subsequent increases in fair value less costs to sell of an asset, but not in excess of any cumulative impairment loss previously recognised.

The Group has not depreciated or amortised non-current assets.

4.9 Investment property

Investment property that is held for long-term rental yields or for capital appreciation or both, and that is not occupied by the companies in the Group, is classified as investment property. Investment property also includes property that is being constructed or developed for future use as investment property.

Investment property is measured initially at cost, including directly attributable costs and borrowing costs. Subsequent expenditure is capitalised to the asset's carrying amount only when it is probable that future economic benefits associated with the expenditure will flow to the Group and the cost of the item can be measured reliably. All other repairs and maintenance costs are expensed when incurred. When part of an investment property is replaced, the carrying amount of the replaced part is derecognised.

Subsequently investment property is carried at cost less accumulated depreciation and allowance for impairment (if any).

Land is not depreciated. Depreciation on other investment properties is calculated using the straight-line method to allocate their cost to their residual values over their estimated useful lives which is 20 years.

4.10 Property, plant and equipment

Property, plant and equipment is initially recorded at cost. Plant and equipment are subsequently stated at historical cost less accumulated depreciation and allowance for impairment (if any). The costs of property, plant and equipment comprise both the purchase price and any costs directly attributable to bringing the assets to location and condition necessary for them to be capable of operating in the manner intended by management. Their costs also include the initial estimate of the costs of dismantling and removing the item and restoring the site on which they are located, the obligation for which the Group incurs either when the items are acquired or as a consequence of having used the items during a particular period.

Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognised. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.

Depreciation on assets is calculated using the straight-line method to allocate their cost to their residual values over their estimated useful lives, except for land, which is considered to have an indefinite life.

Years

Buildings and buildings improvement	5, 6, 10, 20 and 25
Machines and equipment	3, 5 and 10
Power plant, substations, transmission system and components	10 and 25
Office equipment, furniture, computers, and motor vehicles	5 and 10

At the end of each reporting period, the assets' residual values and useful lives are reviewed, and adjusted if appropriate.

If the asset's carrying amount is greater than its estimated recoverable amount, the asset's carrying amount is written-down immediately to its recoverable amount.

Gains or losses on disposals are determined by comparing the proceeds with the carrying amount. The net gains or losses are recognised in profit or loss.

4.11 Goodwill

Goodwill is tested for impairment annually, or more frequently if events or changes in circumstances indicate that it might be impaired. It is carried at cost less accumulated impairment losses.

For the purpose of impairment testing, goodwill is allocated to cash-generating units or groups of cash-generating units that are expected to benefit from the business combination in which the goodwill arose. The units or groups of units are identified at the lowest level at which goodwill is monitored for internal management purposes.

4.12 Intangible assets

4.12.1 Research and development

Research expenditure is recognised as an expense as incurred.

Development expenditure is recognised as an asset when the Group can demonstrate all of the following:

- the expenditure attributable to its development can be measured reliably and that it is technically, financially, commercially, and resourcefully feasible; and
- the Group intends to and has the ability to complete the development for the purpose of using or selling.

Development costs previously recognised as an expense are not recognised as an asset in a subsequent period.

Capitalised development costs are amortised from the commencement of the commercial production of the product on a straight-line basis over the period of its expected benefit.

4.12.2 Right to use transmission line

Right to use transmission line is stated at historical cost less accumulated amortisation. Right to use transmission line cost is amortised by using straight-line method based on its estimated useful life which is 25 years.

4.12.3 Right to power purchase agreement

Right to power purchase agreement from acquisition of a subsidiary is amortised by using straight-line method based on its estimated useful life which is 25 years.

4.12.4 Computer software

Acquired computer software recognised as assets and subsequently amortised by using straight-line method over their estimated useful lives, which are 5 and 10 years.

Costs associated with maintaining computer software programmes are recognised as an expense as incurred.

4.12.5 Patent and brand

Separately acquired patent and brand are shown at historical cost. Patent and brand acquired from a business combination are recognised at fair value at the acquisition date. Patent and brand have a finite useful life and are carried at cost less accumulated amortisation. Amortisation is calculated using the straight-line method to allocate the cost of patent and brand over their estimated useful lives of 20 years.

4.13 Impairment of assets

Intangible assets that have an indefinite useful life are not subject to amortisation and are tested annually for impairment, or more frequently if events or changes in circumstances indicate that it might be impaired. Assets that are subject to amortisation are reviewed for impairment whenever there is an indication of impairment. An impairment loss is recognised for the amount by which the carrying amount of the assets exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use.

Where the reasons for previously recognised impairments no longer exist, the impairment losses on the assets concerned other than goodwill is reversed.

4.14 Leases

Leases - where the Group is the lessee

The Group recognised leases as a right-of-use asset and a corresponding liability at the date at which the leased asset is available for use by the Group. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to profit or loss over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the liability for each period. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term on a straight-line basis.

The Group allocates the consideration in the contract to the lease and non-lease components based on their relative stand-alone prices. However, for leases of real estate for which the group is a lessee, it has elected to separate lease and non-lease components and accounts for only a lease component.

Assets and liabilities arising from a lease are initially measured on a present value basis. Lease liabilities include the net present value of the following lease payments:

- fixed payments (including in-substance fixed payments), less any lease incentives receivable
- variable lease payment that are based on an index or a rate
- amounts expected to be payable by the lessee under residual value guarantees
- the exercise price of a purchase option if the lessee is reasonably certain to exercise that option, and
- payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

Lease payments to be made under reasonably certain extension options are also included in the measurement of the liability.

The lease payments are discounted using the interest rate implicit in the lease. If that rate cannot be determined, the lessee's incremental borrowing rate is used, being the rate that the lessee would have to pay to borrow the funds necessary to obtain an asset of similar value in a similar economic environment with similar terms and conditions.

Right-of-use assets are measured at cost comprising the following:

- the amount of the initial measurement of lease liability
- any lease payments made at or before the commencement date less any lease incentives received
- any initial direct costs, and
- restoration costs.

Payments associated with short-term leases and leases of low-value assets are recognised on a straight-line basis as an expense in profit or loss. Short-term leases are leases with a lease term of 12 months or less. Low-value assets comprise small office equipment.

Leases - where the Group is the lessor

When assets are leased out under a finance lease, the present value of the lease payments is recognised as a receivable. The difference between the gross receivable and the present value of the receivable is recognised as unearned finance income. Lease income is recognised over the term of the lease which reflects a constant periodic rate of return. Initial direct costs are included in initial measurement of the finance lease receivable and reduce the amount of income recognised over the lease term.

Rental income under operating leases (net of any incentives given to lessees) is recognised on a straight-line basis over the lease term. Initial direct costs incurred in obtaining an operating lease are added to the carrying amount of the underlying asset and recognised as expense over the lease term on the same basis as lease income. The respective leased assets are included in the statement of financial position based on their nature.

4.15 Financial liabilities

4.15.1 Classification

Financial instruments issued by the Group are classified as either financial liabilities or equity securities by considering contractual obligations.

- Where the Group has an unconditional contractual obligation to deliver cash or another financial asset to another entity, it is considered a financial liability unless there is a predetermined or possible settlement for a fixed amount of cash in exchange of a fixed number of the Group's own equity instruments.
- Where the Group has no contractual obligation or has an unconditional right to avoid delivering cash or another financial asset in settlement of the obligation, it is considered an equity instrument.

Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the reporting date.

4.15.2 Measurement

Financial liabilities are initially recognised at fair value and are subsequently measured at amortised cost.

4.15.3 Derecognition and modification

Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled, or expired.

Where the terms of a financial liability are renegotiated/modified, the Group assesses whether the renegotiation/modification results in the derecognition of that financial liability. Where the modification results in an extinguishment, the new financial liability is recognised based on fair value of its obligation. The remaining carrying amount of financial liability is derecognised. The difference as well as proceed paid is recognised as other gains (losses) in profit or loss.

Where the modification does not result in the derecognition of the financial liability, the carrying amount of the financial liability is recalculated as the present value of the renegotiated / modified contractual cash flows discounted at its original effective interest rate. The difference is recognised in other gains (losses) in profit or loss.

4.16 Borrowing cost

General and specific borrowing costs directly attributable to the acquisition, construction or production of qualifying assets (assets that take 12 months to get ready for its intended use or sale) are added to the cost of those assets less investment income earned from those specific borrowings. The capitalisation of borrowing costs is ceased when substantially all the activities necessary to prepare the qualifying asset for its intended use or sale are complete.

Other borrowing costs are expensed in the period in which they are incurred.

4.17 Current and deferred income taxes

The tax expense for the period comprises current and deferred tax. Tax is recognised in profit or loss, except to the extent that it relates to items recognised in other comprehensive income or directly in equity.

Current tax

The current income tax is calculated on the basis of the tax laws enacted or substantively enacted at the end of the reporting period. Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax

Deferred income tax is recognised on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements. However, deferred income tax is not recognised for temporary differences arise from:

- initial recognition of an asset or liability in a transaction other than a business combination that affects neither accounting nor taxable profit or loss is not recognised
- investments in subsidiaries, associates and joint arrangements where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred income tax is measured using tax rates of the period in which temporary difference is expected to be reversed, based on tax rates and laws that have been enacted or substantially enacted by the end of the reporting period.

Deferred tax assets are recognised only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis, or to realise the asset and settle the liability simultaneously.

4.18 Employee benefits

The Group operates various post-employment benefits schemes. The Group has both defined benefit and defined contribution plans.

4.18.1 Defined contribution

The Group provides provident fund, which is contributed by the employees and the Group, and managed by an external fund manager in accordance with the Provident Fund Act. B.E. 2530. The Group has no legal or constructive obligations to pay further contributions once the contributions have been paid even if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. The contributions are recognised as employee benefit expense when they are due.

4.18.2 Retirement benefits

The Group provides for post-employment benefits, payable to employees under the labour laws in Thailand and country which Group are operating. Typically, defined benefit plans define an amount of retirement benefit that an employee will receive on retirement, usually depends on one or more factors such as age, years of service and compensation.

The liability recognised in the statement of financial position in respect of defined benefit retirement plans is the present value of the defined benefit obligation at the end of the reporting period. The defined benefit obligation is calculated by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using yields on government bonds which have terms to maturity approximating the terms of the related liability that are denominated in the currency in which the benefits will be paid.

Remeasurement gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in profit or loss.

4.19 Share-based payment

The Group receives services from employees as consideration for equity instruments (options) of the Group. The fair value of the employee services received in exchange for the grant of the options is recognised as an expense. The total amount to be expensed is determined by reference to the fair value of the options granted:

- including any market performance conditions. For example, the entity's share price;
- including the impact of any non-vesting conditions. For example, the requirement for employees to save or holdings shares for a specific period of time; and
- excluding the impact of any service and non-market performance vesting conditions. For example, profitability, sales growth targets and remaining an employee of the Group over a specified time period.

Non-market performance and service conditions are included in assumptions about the number of options that are expected to vest.

At the end of each reporting period, the entity reviews the number of options that are expected to vest. It recognises the impact of the revision to original estimates (if any) in profit or loss, with a corresponding adjustment to equity.

When the options are exercised, the Group issues new shares. The proceeds received net of any directly attributable transaction costs are credited to share capital and share premium.

4.20 Provisions

4.20.1 General provisions

Provisions are recognised when the Group has a present legal or constructive obligation as a result of past events; it is probable that an outflow of resources will be required to settle the obligation; and the amount has been reliably estimated.

4.20.2 Provisions for decommissioning cost

The Group recognises provision for decommissioning costs, which are provided at the onset of completion of the project, for the estimate of the eventual costs that relate to the removal of the power and water plants. The recognised provisions for decommissioning costs are based on future removal cost estimates and incorporate many assumptions such as abandonment times and future inflation rate and discounted to present value at the discount rate estimated by the management. Those costs are included as part of the related assets.

4.21 Government grants

Government grants from the government are recognised at their fair value where there is a reasonable assurance that the grant will be received, and the Group will comply with all attached conditions.

The Group receives government grants relating to revenue as revenue from subsidy for adders in accordance with the Power Purchase Agreement with Electricity Generating Authority of Thailand and Provincial Electricity Authority. The compensations of costs are deferred and recognised in profit or loss over the period necessary to match them with the costs they are intended to compensate and are presented as revenue from subsidy for adders.

4.22 Share capital

Ordinary shares are classified as equity.

Incremental costs directly attributable to the issue of new shares or options are shown in equity as a deduction, net of tax, from the proceeds.

4.23 Revenue recognition

Revenues are recorded net of value added tax. They are recognised in accordance with the provision of goods or services provided that collectability of the consideration is probable.

Multiple element arrangements involving delivery or provision of multiple products or services are separated into individual distinct performance obligations. Total transaction price of the bundled contract is allocated to each performance obligation based on their relative standalone selling prices or estimated standalone selling prices. Each performance obligation is recognised as revenue on fulfilment of the obligation to the customer as follows:

Sales of goods

Sales are recognised at a point in time when control of the products has transferred, being when the products are delivered to the destination as agreed in the contract. The revenue is recognised based on transaction price net of output tax, rebates and discounts.

Sales of services

The Group recognised service contracts with a continuous service provision as revenue on a straight line basis over the contract term, regardless of the payment pattern.

Interest income

Interest income is recognised on an effective interest rate method.

Dividend income

Dividend income is recognised when the right to receive payment is established.

4.24 Dividend distribution

Dividend distribution to the shareholders is recognised as a liability in the Group's financial statements in the period in which the dividends are approved by the shareholders, and interim dividend are approved by the Board of Directors.

4.25 Derivatives

Derivatives accounting

Derivatives that do not qualify for hedge accounting is initially recognises at fair value on measurement of derivative. Changes in the fair value are included in gain or loss.

Fair value of derivatives is classified as a current or non-current following its remaining maturity.

4.26 Financial guarantee contracts

Financial guarantee contracts are recognised as a financial liability at the time the guarantee is issued. The liability is initially measured at fair value and subsequently at the higher of:

- the amount determined in accordance with the expected credit loss model under TFRS 9; and
- the amount initially recognised less the cumulative amount of income recognised in accordance with the principles of TFRS 15.

The fair value of financial guarantees is determined based on the present value of the difference in cash flows between a) the contractual payments required under the debt instrument; and b) the payments that would be required without the guarantee, or the estimated amount that would be payable to a third party for assuming the obligations.

Where guarantees in relation to loans or other payables of associates are provided for no compensation, the fair values are accounted for as contributions and recognised as part of the cost of the investment.

4.27 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision-maker. The chief operating decision-maker, who is responsible for allocating resources and assessing performance of the operating segments, has been identified as the Steering Committee that makes strategic decisions.

5 Financial risk management

5.1 Financial risk

The Group exposes to a variety of financial risk: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the Group's financial performance. The Group may consider using derivative financial instruments to hedge certain exposure.

The Group's risk management is carried out by the finance department under policies approved by the Board of Directors. The finance department identifies, evaluates and manages financial risks in close co-operation with the Group's operating units. The Board of Directors provides written principles for overall risk management, as well as policies covering specific areas, such as foreign exchange risk, interest rate risk, credit risk, use of derivative and other financial instruments as well as investment of excess liquidity.

Trading for speculative purposes is not allowed. All derivative transactions are subject to pre-approval by the respective board of each company in the Group.

5.1.1 Market risk

a) Foreign exchange risk

The Group are exposed to foreign exchange risk from future commercial transactions and net monetary assets and liabilities that are denominated in a currency that is not the functional currency of each entity.

Financial instruments using for risk management

The Group considers use hedge instrument to reduce the fluctuation of exchange rate by entering into a foreign currency forward if the Group assess that there is a significant foreign currency exposure. The Group's policy, the critical term of the forward contracts must align with hedge items.

Exposure

The Group's and the Company's exposure to foreign currency risk at the end of the reporting period, expressed in Baht are as follows:

As at 31 December	Consolidated financial statements			
	2021		2020	
	Taiwan Dollar Million Baht	US Dollar Million Baht	Taiwan Dollar Million Baht	US Dollar Million Baht
Cash and cash equivalents	23	28	24	74
Trade and other accounts receivable, net	-	73	-	2
Short-term loans from financial institutions	-	4	-	1
Trade and other accounts payable	-	83	-	61

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As at 31 December	Separate financial statements			
	2021		2020	
	Taiwan Dollar Million Baht	US Dollar Million Baht	Taiwan Dollar Million Baht	US Dollar Million Baht
Cash and cash equivalents	23	7	24	3
Other accounts receivable	-	-	-	12
Short-term loans to related parties	-	-	-	369

Sensitivity

As shown in the table above, the Group is primarily exposed to changes in Baht and US Dollar and Baht and Taiwan Dollar exchange rate. The sensitivity of profit or loss to changes in the exchange rates arises mainly from financial assets and financial liabilities denominated in US Dollar and Taiwan Dollar. The impacts of movement in exchange rate on Group's net profit are as follows:

	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Million Baht	Million Baht	Million Baht	Million Baht
Taiwan Dollar to Baht exchange rate				
- Increase 10%*	2	2	2	2
- Decrease 10%*	(2)	(2)	(2)	(2)
US Dollar to Baht exchange rate				
- Increase 10%*	19	1	1	38
- Decrease 10%*	(19)	(1)	(1)	(38)

* Holding all other variables constant

b) Cash flows and interest rate risk

The Group manages interest rate risk by closely monitoring the movement of interest rates in the market. The Group allocates its debt portfolio in either short-term and long-term borrowings with fixed and floating interest rates corresponding to their types of investments and uses interest rate swap contracts to manage risk of movements in interest rates. The Group mostly borrows and issues debentures with fixed interest rate to specify a certain amount of future cash outflows of the Group.

Following interest rate benchmark reform, there are cessation in several benchmark interest rates including LIBOR and relevant benchmark interest rates, which is applied by the Group as part of the variable rate calculation. The management is in the process of discussing with the financial institutions to use another benchmark interest rate for the loan agreements and related financial instruments. However, as at 31 December 2021, the impact of such change is immaterial to the Group.

The interest rate exposure on the long-term loans from financial institutions and debentures of the Group before taking account of interest rate swap contracts is as follows:

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	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Million Baht	Million Baht	Million Baht	Million Baht
Long-term loans from financial institutions, net				
- at fixed rates	3,941	20,256	3,382	2,425
- at floating rates	25,222	3,984	1,998	2,997
Total long-term loans from financial institutions, net	29,163	24,240	5,380	5,422
Debenture, net				
- at fixed rates	12,194	16,192	12,194	16,192
Total debenture, net	12,194	16,192	12,194	16,192

An analysis by maturities is provided in Note 5.1.3.

Sensitivity

Profit or loss is sensitive to higher or lower interest income from loans to related parties, and interest expenses from borrowings as a result of changes in interest rates. The sensitivity of profit or loss to changes in the exchange rates are as follows:

	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Million Baht	Million Baht	Million Baht	Million Baht
Interest rate - increase 1%*	(847)	(2)	(87)	-
Interest rate - decrease 1%*	847	2	87	-

* Holding all other variables constant

c) Price risk

The Group's exposures to commodity price risk arises from:

- Crude palm oil that the Group uses as raw materials for manufacturing and distributing biodiesel business. The Group manages its risk by closely monitoring the trend of crude palm oil price for planning the procurement of crude palm oil at reasonable volume and price. In addition, the Group adjusts the selling price of biodiesel to align with changes in crude palm oil market price.
- Industrial metal supplies which are steel, aluminium and lithium-ion that the Group uses as raw materials for manufacturing and distributing batteries and electric vehicles. For raw material procurement planning, the Group manages its risk by closely monitoring and comparing the trend of industrial metal supply market price in both domestic and overseas markets. In addition, the Group focussed on raw material cost management to achieve economic of scale and closely monitors government's subsidy policies.

5.1.2 Credit risk

a) Risk management

The Group has no material credit risks for cash and deposits with financial institutions. This is because the Group uses quality financial institutions for cash and deposits. To reduce potential risks for deposits with financial institutions, the Group has laid down a policy to limit the transactions to be made with a particular financial institution and to invest surplus only in low-risk investments. In its experience, the Group has never suffered any losses from cash and deposits. For trade accounts receivable, the Group sets up policies to ensure that sales of biodiesel and batteries are made to customer with appropriate credit profile. For sales of electricity, the Group's sales are made to state-owned enterprises under the terms and conditions of the long-term Power Purchase Agreements.

b) Impairment of financial assets

The Group and the Company has financial assets that are subject to the expected credit loss model:

- Cash and cash equivalents
- Trade and other accounts receivable
- Finance lease receivable
- Deposits at financial institutions used as collateral
- Loan to other parties and related parties

The management considered the amount of those expected credit losses of financial assets are immaterial.

5.1.3 Liquidity risk

a) Risk management

Prudent liquidity risk management implies maintaining sufficient cash and marketable securities and the availability of funding through an adequate amount of committed credit facilities to meet obligations when due and to close out market positions. At the end of reporting period, the Group has available deposits at financial institutions of Baht 2,925 million (2020: Baht 2,951 million) for purpose of Group's liquidity management. The Group's finance department maintains flexibility in funding by maintaining availability under committed credit lines due to the dynamic nature of the underlying business.

As at 31 December, the Group had available credit facilities as follows:

	Consolidated		Separate	
	financial statements		financial statements	
	2021	2020	2021	2020
	Million	Million	Million	Million
	Baht	Baht	Baht	Baht
Maturity within 1 year				
- Available credit facilities from bank overdraft	45	29	-	15
- Available credit facilities from short-term loans from financial institutions	8,181	6,349	4,186	2,096
- Available credit facilities from long-term loans from financial institutions	1,217	528	1,000	-
Maturity over 1 year				
- Available credit facilities from long-term loans from financial institutions	-	1,500	-	1,500
	9,443	8,406	5,186	3,611

In addition, the Company had available debenture facilities which have not yet issued of Baht 20,000 million. The said debenture facilities have been approved by the Annual General Meeting of Shareholder for the year 2021 and have maturity within 1 year. (2020: Baht 12,800 million. The said debenture facilities have been approved by the Annual General Meeting of Shareholder for the year 2020.)

b) Maturity of financial liabilities

The table below analysed the maturity of financial liabilities grouping based on their contractual maturity. The amounts disclosed were the contractual undiscounted cash flow.

Maturity of financial liabilities as at 31 December 2021	Consolidated financial statements				
	Within 1 year Million Baht	1-5 years Million Baht	Over 5 years Million Baht	Total Million Baht	Carrying amount Million Baht
Short-term loans from financial institutions	1,618	-	-	1,618	1,618
Short-term loans from other parties and related parties	259	-	-	259	259
Trade and other accounts payable and construction payables	3,056	-	-	3,056	3,056
Lease liabilities	57	258	1,427	1,742	1,742
Long-term loans from financial institutions and related interests	6,316	20,021	5,080	31,417	29,176
Debenture and related interests	2,353	7,238	4,371	13,962	12,257
Total	13,659	27,517	10,878	52,054	48,108

Maturity of financial liabilities as at 31 December 2020	Consolidated financial statements				
	Within 1 year Million Baht	1-5 years Million Baht	Over 5 years Million Baht	Total Million Baht	Carrying amount Million Baht
Short-term loans from financial institutions	2,640	-	-	2,640	2,640
Short-term loans from other parties	34	-	-	34	34
Trade and other accounts payable and construction payables	1,361	-	-	1,361	1,361
Lease liabilities	153	425	2,237	2,815	1,774
Long-term loans from financial institutions and related interests	3,101	10,321	14,176	27,598	24,276
Debenture and related interests	4,429	6,383	7,579	18,391	16,379
Total financial liabilities that are not derivatives	11,718	17,129	23,992	52,839	46,464
Derivatives					
Interest rate swap contracts	13	1	-	14	14
Total derivatives	13	1	-	14	14
Total	11,731	17,130	23,992	52,853	46,478

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Maturity of financial liabilities as at 31 December 2021	Separate financial statements				
	Within 1 year Million Baht	1-5 years Million Baht	Over 5 years Million Baht	Total Million Baht	Carrying amount Million Baht
Short-term loans from financial institutions	884	-	-	884	884
Short-term loans from related parties	5,273	-	-	5,273	5,273
Trade and other accounts payable	643	-	-	643	643
Lease liabilities	3	70	215	288	288
Long-term loans from financial Institutions and related interests	1,097	4,764	-	5,861	5,380
Debentures and related interests	2,353	7,238	4,371	13,962	12,257
Total	10,253	12,072	4,586	26,911	24,725

Maturity of financial liabilities as at 31 December 2020	Separate financial statements				
	Within 1 year Million Baht	1-5 years Million Baht	Over 5 years Million Baht	Total Million Baht	Carrying amount Million Baht
Short-term loans from financial institutions	362	-	-	362	362
Short-term loans from related parties	4,779	-	-	4,779	4,779
Trade and other accounts payable	759	-	-	759	759
Lease liabilities	67	106	508	681	315
Long-term loans from financial Institutions and related interests	605	5,201	-	5,806	5,423
Debentures and related interests	4,429	6,383	7,579	18,391	16,379
Total	11,001	11,690	8,087	30,778	28,017

5.2 Capital management

Risk management

The Group's objectives when managing capital are to safeguard their ability to continue as a going concern, to provide returns for shareholders and benefits for other stakeholders and maintain an optimal capital structure to reduce the cost of capital.

As at 31 December, net debt to equity ratios of the Group are as follows:

	Consolidated financial statements	
	2021 Million Baht	2020 Million Baht
Net debt	43,050	41,929
Equity (including non-controlling interests)	35,074	29,627
Net debt to equity ratio	1.23	1.42

6 Fair value

The following table presented financial assets and liabilities that are measured at fair value in each level including fair value of financial assets and liabilities. The table exclude financial assets and liabilities measured at amortised cost where their carrying value approximated fair value.

		Consolidated financial statements				
	Fair value level	Fair value through profit or loss (FVPL) Million Baht	Fair value through other comprehensive income (FVOCI) Million Baht	Amortised cost Million Baht	Total carrying amount Million Baht	Fair value Million Baht
As at 31 December 2021						
Assets						
Financial assets						
- Investments in equity instruments	3	-	5,023	-	5,023	5,023
Long-term loans to other parties	2	-	-	80	80	82
Total assets		-	5,023	80	5,103	5,105
Liabilities						
Long-term loans from financial institutions, net						
Debentures, net	2	-	-	3,941	3,941	4,005
	2	-	-	12,194	12,194	12,315
Total liabilities		-	-	16,135	16,135	16,320

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		Separate financial statements				
		Fair value through profit or loss (FVPL) Million Baht	Fair value through other comprehensive income (FVOCI) Million Baht	Amortised cost Million Baht	carrying amount Million Baht	Total Fair value Million Baht
As at 31 December 2021						
Assets						
Financial assets						
- Investment in an equity instrument	3	-	4,968	-	4,968	4,968
Long-term loans to related parties	2	-	-	5,508	5,508	5,862
Total assets		-	4,968	5,508	10,476	10,830
Liabilities						
Long-term loans from financial institutions, net		-	-	3,390	3,390	3,455
Debentures, net	2	-	-	12,194	12,194	12,315
Total liabilities		-	-	15,584	15,584	15,770

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		Consolidated financial statements				
		Fair value level	Fair value through profit or loss (FVPL) Million Baht	Fair value through other comprehensive income (FVOCI) Million Baht	Amortised cost Million Baht	Total carrying amount Million Baht
						Fair value Million Baht
As at 31 December 2020						
Assets						
Financial assets						
- Investments in equity instruments	3	-	5,527	-	-	5,527
Long-term loans to other parties	2	-	-	-	80	80
Total assets		-	5,527	80	5,607	5,609
Liabilities						
Long-term loans from financial institutions, net	2	-	-	20,424	-	20,424
Debentures, net	2	-	-	16,192	-	16,192
Derivatives						
- Interest rate swap agreements	2	14	-	-	-	14
Total liabilities		14	-	36,616	-	36,630
						36,671

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		Separate financial statements					
	Fair value level	Fair value through profit or loss (FVPL) Million Baht	Fair value through other comprehensive income (FVOCI) Million Baht	Amortised cost Million Baht	carrying amount Million Baht	Total Million Baht	Fair value Million Baht
As at 31 December 2020							
Assets							
Financial assets							
	3	-	5,479	-	-	5,479	5,479
	2	-	-	7,386	7,386	7,386	7,366
Total assets		-	5,479	7,386	12,865	12,865	12,845
Liabilities							
Long-term loans from financial institutions, net							
	2	-	-	2,430	2,430	2,430	2,488
	2	-	-	16,192	16,192	16,192	16,227
Total liabilities		-	-	18,622	18,622	18,622	18,715

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Fair value of following financial assets and liabilities measured at amortised cost where their carrying value approximated fair value are as follows:

Consolidated financial statements	Separate financial statements
Financial assets	Financial assets
- Cash and cash equivalents - Deposits at financial institutions used as collateral - Trade accounts receivable, net - Finance lease receivable, net - Other accounts receivable, net - Short-term loans to other parties, net	- Cash and cash equivalents - Deposits at financial institutions used as collateral - Trade accounts receivable, net - Other accounts receivable, net - Short-term loans to other parties and related parties, net - Long-term loans to related parties (floating interest rate)
Financial liabilities	Financial liabilities
- Short-term loans from financial institutions - Trade accounts payable - Other accounts payable - Short-term loan from other parties - Construction payables and payables for purchase of assets - Long-term loans from financial institutions (floating interest rate)	- Short-term loans from financial institutions - Trade accounts payable - Other accounts payable - Short-term loans from related parties - Long-term loans from related parties (floating interest rate) - Long-term loans from financial institutions (floating interest rate)

6.1 Valuation technique used to measure fair value level 2

Valuation technique used to measure fair value level 2 of derivatives is as follows:

- Fair value of interest rate swap agreement is determined using forward interests extracted from observable yield curves.
- Fair value of loans and debentures are calculated from the net present value of future cash flows discounted by market interest rates.

6.2 Valuation technique used to measure fair value level 3

The Group's valuation technique used to measure fair value level 3 is discounted cash flows for measurement of financial assets measured at fair value to other comprehensive income.

Change in financial assets that are measured by fair value level 3 through other comprehensive income are disclosed in Note 12.

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The following table summarises the quantitative information about the significant unobservable inputs used in level 3 fair value measurements.

Consolidated financial statements					
	Fair value		Unobservable inputs	Range of inputs	
	31 December 2021	31 December 2020		31 December 2021	31 December 2020
	Million Baht	Million Baht			
Financial assets measured at fair value through other comprehensive income	5,023	5,526	Risk-adjusted discount rate	8.53%	8.13% - 10.00%
			Growth rate of land price	10.05%	10.05%
Separate financial statements					
	Fair value		Unobservable inputs	Range of inputs	
	31 December 2021	31 December 2020		31 December 2021	31 December 2020
	Million Baht	Million Baht			
Financial assets measured at fair value through other comprehensive income	4,968	5,479	Risk-adjusted discount rate	8.53%	8.13% - 10.00%
			Growth rate of land price	10.05%	10.05%

Relationships of unobservable inputs to fair value are shown as follows:

Consolidated financial statements				
			Change in fair value	
			Increase in assumptions	Decrease in assumptions
			31 December 2021	31 December 2021
	Unobservable inputs	Movement		
Financial assets measured at fair value through other comprehensive income	Risk-adjusted discount rate	1%	Decreased by Baht 764 million	Increased by Baht 1,007 million
	Growth rate of land price	1%	Increased by Baht 909 million	Decreased by Baht 698 million
Separate financial statements				
			Change in fair value	
			Increase in assumptions	Decrease in assumptions
			31 December 2021	31 December 2021
	Unobservable inputs	Movement		
Financial assets measured at fair value through other comprehensive income	Risk-adjusted discount rate	1%	Decreased by Baht 764 million	Increased by Baht 1,007 million
	Growth rate of land price	1%	Increased by Baht 909 million	Decreased by Baht 698 million

The Group's valuation processes

The accounting and finance teams discuss valuation processes and results at least every quarter.

Significant unobservable input of fair value hierarchy level 3 is risk adjusted discount rate. It is estimated based on public companies' weighted average cost of capital that, in opinion of the Group, is in a comparable nature of business and financial position with the counterparty in the contract. The growth rate of land price is based on land price index that, in opinion of the Group, is in a comparable location and characteristic with the Group's investment.

7 Critical accounting estimates and judgements

Estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances:

Impairment of goodwill

The Group tests impairment of goodwill annually in accordance with the accounting policy stated in Note 4.11. The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations use cash flow projections based on financial budget covering useful lives of assets used in developing, manufacturing and distributing battery business incorporated in the Republic of China (Taiwan) and palm crushing mills and biomass power plants business as disclosed in Note 21.

Fair value measurement of equity instrument

Fair value of equity instrument which is not trade in the active market is measured by valuation technique. The Group uses judgement to select a variety of methods and make assumptions that are mainly based on market conditions existing at the end of each reporting period. Details of key assumptions used are included in Note 6.

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8 Segment information - Consolidated financial statements

The Group has four reportable segments which comprises of manufacturing and distributing crude palm oil, biodiesel products, and pure glycerine products, manufacturing and distributing electricity from solar, wind power and biomass, consulting in the project regarding alternative electric energy, and head office and others. The chief operating decision-maker evaluates the segment's performance by using profit before income tax which is measured in the same basis as profit before income tax in the financial statements.

	Unit : Million Baht							
	For the year ended 31 December							
	Manufacturing and distributing crude palm oil, biodiesel products and pure glycerine products		Manufacturing and distributing electricity from solar and wind power and biomass		Consulting in the project regarding alternative electric energy		Head office and others	
	2021	2020	2021	2020	2021	2020	2021	2020
Revenue of the operating segments	8,166	6,297	10,933	10,628	51	63	1,408	211
Expenses of the operating segments	(7,971)	(5,898)	(3,601)	(3,831)	(231)	(227)	(2,836)	(2,153)
Share of gain (loss) from investments in associates and joint ventures	-	-	10	4	-	-	3	(65)
Profit (loss) before income tax	195	399	7,342	6,801	(180)	(164)	(1,425)	(2,007)
Income tax							(3)	18
Profit for the year							5,929	5,047
Timing of revenue recognition:								
At a point in time	8,166	6,297	10,933	10,628	-	-	1,402	200
Over time	-	-	-	-	51	63	6	11
Total revenue of the operating segments	8,166	6,297	10,933	10,628	51	63	1,408	211
							20,558	17,199

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The Group generates revenue from sales and services by utilising the majority of assets located in Thailand and overseas. The proportions are shown as follows:

For the year ended 31 December	Consolidated financial statements	
	Proportion of sales by region	
	2021 %	2020 %
Thailand	99	99
Overseas	1	1

For the year ended 31 December 2021, the chief operating decision-maker of the Group considered changing operating segments by aggregating manufacturing and distributing crude palm oil and biodiesel products and manufacturing and distributing pure glycerine products. The Group reclassified comparative figures to confirm with changes in operating segments in the current year.

9 Cash and cash equivalents

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Cash on hand	1,507,209	494,369	60,177	51,604
Cash at banks in current accounts	103,765,519	45,765,896	37,113,189	29,721,422
Cash at banks in savings accounts	2,821,698,923	2,904,407,064	625,262,110	608,021,852
Total cash and cash equivalents	2,926,971,651	2,950,667,329	662,435,476	637,794,878

As at 31 December 2021 and 2020, cash and cash equivalents mainly comprised of cash at savings accounts with the banks. The interest rates were 0.05% - 0.25% per annum (2020: 0.05% - 0.13% per annum).

10 Deposits at financial institutions used as collateral

As at 31 December 2021, deposits at financial institutions of the Group and the Company amounting to Baht 114 million and Baht 9 million (2020: Deposits at financial institutions of the Group and the Company amounting to Baht 177 million and Baht 93 million) are pledged as collateral for issuing the letters of guarantee by commercial banks and long-term loans from financial institutions. The deposits at financial institutions of the Group amounting to Taiwan Dollar 14 million or equivalent to Baht 17 million (2020: Baht 12 million) are pledged as collateral for short-term loans from financial institutions. The interest rates were 0.05% - 2.11% per annum (2020: 0.10% - 0.82% per annum).

11 Trade accounts receivable, net

Trade accounts receivable, net as at 31 December are trade accounts receivable from third parties which can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
As at 31 December				
Not yet due	2,834,647,584	2,746,173,509	532,213,164	497,494,602
Overdue below 3 months	854,268,062	1,671,822	-	-
Overdue 3 - 6 months	84,487,320	-	-	-
Overdue 6 - 12 months	11,290,273	3,288,583	-	-
Overdue more than 12 months	-	17,596,059	-	-
Less Allowance for impairment losses	(94,326,003)	(18,536,481)	-	-
Total trade accounts receivable, net	3,690,367,236	2,750,193,492	532,213,164	497,494,602

Realised allowance for impairment losses is from trade accounts receivable which are overdue more than 6 months, or when the Group expects the amount will not be received.

12 Financial assets measured at fair value through other comprehensive income

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
As at 31 December				
Financial assets - investments in unquoted equity instruments	5,022,697,447	5,526,611,867	4,968,126,754	5,479,323,609
Total financial assets measured at fair value through other comprehensive income	5,022,697,447	5,526,611,867	4,968,126,754	5,479,323,609
	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
For the year ended 31 December				
Opening book value, net	5,526,611,867	28,794,284	5,479,323,609	-
Acquisition of an investment in unquoted equity instruments	-	5,134,071,033	-	5,134,071,033
Changes in fair value of equity investments at fair value through other comprehensive income	(510,152,298)	363,883,560	(511,196,855)	345,252,576
Currency translation differences	6,237,878	(137,010)	-	-
Closing book value, net	5,022,697,447	5,526,611,867	4,968,126,754	5,479,323,609

13 Finance lease receivable, net

As at 31 December	Consolidated financial statements			
	Lease payment to be received		Present value of net investment in lease	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Less than 1 year	118,650,000	-	98,666,773	-
Later than 1 year and not later than 5 years	429,783,000	-	371,219,589	-
Later than 5 years	138,597,482	-	133,192,129	-
	687,030,482	-	603,078,491	-
Less Deferred finance income	(83,951,991)	-		
Present value of net investment in lease	603,078,491	-		

Finance lease receivable can be analysed as follows:

As at 31 December	Consolidated financial statements	
	2021 Baht	2020 Baht
- Current portion of finance lease receivable, net	98,666,773	-
- Non-current portion of finance lease receivable, net	504,411,718	-
Finance lease receivable, net	603,078,491	-

During the year ended 31 December 2021, subsidiaries entered into hire purchase and lease contracts in which the subsidiaries are lessors as follows:

- A hire purchase contract of crane and equipment totalling Baht 703 million. The contract term is 6 years and interest rate is 3.50% per annum. The payment schedule is made on a monthly instalment basis, commencing from July 2021.
- A lease contract of solar panels and their component part totalling Baht 31 million. The contract term is 20 years and interest rate is 6.25% per annum. The payment schedule is made on a monthly instalment basis, commencing from October 2021.

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14 Other accounts receivable, net

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Other accounts receivable				
- third parties	64,544,286	143,846,632	29,611,248	35,159,834
- related parties (Note 40.3)	-	-	522,879,949	229,379,012
Accounts receivable from sales of machines and equipment	1,570,854,927	-	-	-
Prepaid expenses	79,630,994	31,835,767	14,029,249	8,714,340
Revenue department receivables	387,344,133	449,891,228	223,341	9,647
Undue input tax	29,656,666	35,940,384	1,662,909	1,404,977
Deposits for goods	508,924,931	51,705,317	-	-
Advance payments	79,058,273	29,499,516	11,000,455	16,629,707
Other	659,341	19,595,039	463,011	463,011
<u>Less</u> Allowance for impairment losses	(1,024,793)	(1,024,793)	(1,048,463)	(1,048,463)
Total other accounts receivable, net	2,719,648,758	761,289,090	578,821,699	290,712,065

15 Inventories, net

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Raw materials	654,365,081	194,966,514	69,301,042	69,740,142
Work in process	319,336,036	290,174,806	91,118,768	103,047,432
Finished goods	426,294,389	203,294,097	46,297,428	102,247,372
Spare parts and supplies	148,161,264	184,635,818	16,165,759	16,436,726
	1,548,156,770	873,071,235	222,882,997	291,471,672
<u>Less</u> Allowance for decrease in value of raw materials	(24,183,139)	(5,711,700)	(7,427,346)	(7,427,346)
Allowance for decrease in value of works in process	(7,663,191)	(5,327,193)	-	-
Allowance for decrease in value of finished goods	(31,929,039)	(20,070,604)	-	-
Allowance for decrease in value of spare parts and supplies	(1,234,991)	(8,662,337)	(1,234,991)	(1,234,991)
Total inventories, net	1,483,146,410	833,299,401	214,220,660	282,809,335

16 Non-current assets held for sale

As at 31 December 2021, the Group classified solar panels amounting to Baht 714 million as non-current assets held for sale because the Group and a third party entered into a solar cell sales agreement and the management expected to sell the said assets within 2022. As a result, the Group measured the assets at the lower of their carrying amount and fair value less costs to sell. There was no impairment loss occurred from the measurement.

17 Investments in subsidiaries, associates and joint ventures

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Investments in subsidiaries (Note 17.2)	1	1	29,483,663,951	27,719,122,426
Investments in associates (Note 17.3)	1,512,972,555	1,500,481,507	-	-
Investment in joint ventures (Note 17.4)	100,948,312	28,990,332	45,471,090	45,471,090
Total investments in subsidiaries, associates and joint ventures	1,613,920,868	1,529,471,840	29,529,135,041	27,764,593,516

17.1 The movement of the investments in subsidiaries, associates and joint ventures can be analysed as follows:

	Consolidated financial statements	
	2021 Baht	2020 Baht
For the years ended 31 December		
Opening net book value	1,529,471,840	100,196,300
Acquisition of investments in associates	21,990,000	1,514,000,000
Acquisition of investments in joint ventures	20,000,100	2,185,650
Calling for additional capital contributions of a joint venture	15,000,000	-
Dividend received from an associate	(1,459,944)	-
Share of gains (losses) from investments in associates and joint ventures, net	13,545,817	(61,049,730)
Share of other comprehensive income (expense) from investments in associates and joint ventures, net	7,833,336	(5,617,123)
Change in shareholding interest in an associate	-	8,758,602
Disposal of investments in an associate	-	(31,315,601)
Currency translation differences	7,539,719	2,313,742
Closing net book value	1,613,920,868	1,529,471,840
	Separate financial statements	
	2021 Baht	2020 Baht
For the years ended 31 December		
Opening net book value	27,764,593,516	24,116,122,888
Acquisition of investments in subsidiaries	-	209,629,414
Acquisition of investment in a joint venture	-	2,185,650
Increase in share capital and called for additional paid-up share capital of subsidiaries	1,764,541,525	4,024,400,497
Disposal of investments in subsidiaries	-	(587,744,933)
Closing net book value	29,529,135,041	27,764,593,516

17.1.1 The movement of the investments in subsidiaries during the year ended 31 December 2021 as follows:

Direct subsidiaries

Calling for additional paid-up share capital

During the year, the subsidiaries' Board of Directors passed resolutions calling for additional paid-up share capital. The Company made payments for additional paid-up share capital as details below:

Subsidiaries	Date of subsidiaries' Board of Directors' Meeting	Number of shares (Million shares)	Paid-up share (Baht per share)	Total (Million Baht)
EA Mobility Holding Co., Ltd.	19 January 2021	105	3.00	315
	20 April 2021	105	1.00	105
	10 May 2021	105	2.00	210
Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd.	23 March 2021	0.09	7.50	1
				631

Incorporation and increase in share capital of subsidiaries

Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd.

On 10 March 2021, the Company incorporated Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd., which was registered and resident in Thailand with the registered share capital of 100,000 shares at par value of Baht 10 per share. The Company holds 97.99% of ordinary shares of the said company. The Company made a payment for 97,999 shares at Baht 2.50 per shares, totalling Baht 0.24 million during the period.

At the Extraordinary Shareholders' Meeting of Battery Electric Vehicle and Electronic Products Testing Center Co., Ltd. on 7 April 2021, the shareholders passed a resolution increasing the authorised share capital from Baht 1 million to Baht 175 million by issuing 17,400,000 new ordinary shares with a par value of Baht 10 per share, totalling Baht 174 million. The Company partially waived the right to subscribe shares at the original proportion to EA BVI Holding Limited and was allocated 8,652,002 newly issued ordinary shares. As a result, the shareholding interests of the Company decreased from 97.99% to 50.00% of registered and paid-up share capital while the shareholding interests of the Group remains the same. The Company made a payment for 8,652,002 shares at Baht 4 per share, totalling Baht 35 million during the period.

EA Waste Management Co., Ltd.

At the Extraordinary Shareholders' meeting of EA Waste Management Co., Ltd. on 25 March 2021, the shareholders passed a resolution increasing the authorised share capital from Baht 0.10 million to Baht 950 million by issuing 95,000,000 new ordinary shares with a par value of Baht 10 per share, totalling Baht 950 million. The Company made a payment for 95,000,000 shares at Baht 2.50 per share, totalling Baht 238 million during the period.

Mine Mobility Research Co., Ltd.

At the Extraordinary Shareholders' meeting of Mine Mobility Research Co., Ltd. on 1 October 2021, the shareholders passed a resolution increasing the authorised share capital from Baht 400 million to Baht 440 million by issuing 4,000,000 new ordinary shares with a par value of Baht 10 per share. The Company made a partial payment for 4,000,000 shares at Baht 2.50 per share, totalling Baht 10 million during the period.

Smart Waste Management Co., Ltd

At the Extraordinary Shareholders' meeting of Smart Waste Management Co., Ltd on 25 November 2021, the shareholders passed a resolution increasing the authorised share capital from Baht 10 million to Baht 50 million by issuing 4,000,000 new ordinary shares with a par value of Baht 10 per share. The Company made a partial payment for 4,000,000 shares at Baht 2.50 per share, totalling Baht 10 million during the period.

Amita Technologies Inc.

At the Board of Directors' meeting of Amita Technologies Inc. on 11 November 2020, the Board of Directors passed a resolution increasing share capital for 130,000,000 ordinary shares at a par value of Taiwan Dollar 10 per share, totalling Taiwan Dollar 1,300 million. Amita Technologies Inc. called for share payment on 3 February 2021 and received the share payment in full amount on 26 March 2021. The share payments were made by the Company of Taiwan Dollar 768 million or equivalent to Baht 841 million, by indirect subsidiaries of the Group of Taiwan Dollar 106 million or equivalent to Baht 119 million and by other shareholders of Taiwan Dollar 426 million or equivalent to Baht 477 million. As a result, the shareholding interests of the Group in Amita Technologies Inc. decreased from 74.71% to 71.20% of registered and paid-up capital. Therefore, the Group recognised the increase of non-controlling interests of Baht 477 million and discount from changes in shareholding interests in a subsidiary of Baht 71 million in the consolidated statement of changes in equity. Amita Technologies Inc. registered the increased share capital on 3 May 2021.

Indirect subsidiaries

Kanjanadit Palm Oil Co., Ltd.

On 1 July 2020, the Group acquired ordinary shares of Kanjanadit Palm Oil Co., Ltd. from its former shareholder according to a share purchase agreement and a shareholder agreement with the former shareholder. The Group made payment for 337,500 ordinary shares at Baht 111.20 per share, totalling Baht 38 million. As a result, the Group holds 75% of the issued and paid-up ordinary share capital. Kanjanadit Palm Oil Co., Ltd. engages in the business of palm crushing mills, electric power plants and development projects for biomass and biogas.

Details of consideration paid at the acquisition date are as follows:

	Consolidated financial information As at acquisition date Baht
Cash	37,530,000
Purchase consideration	37,530,000

During the year ended 31 December 2021, the Group completely measured the fair value of the net identifiable assets acquired and completed the purchase price allocation at the acquisition date. The management evaluated and concluded that changes after completing the fair value measurement were not significant. Details are as follows:

	Consolidated financial information As at acquisition date Baht
Recognised amount of identifiable assets acquired and liabilities assumed (Proportion of 100%)	
Cash and cash equivalents	258,997
Trade and other accounts receivable, net	5,036,786
Inventories	4,442,563
Deposits at financial institutions used as collateral	20,859,223
Property, plant and equipment, net	258,502,665
Right-of-use assets, net	3,620,721
Trade and other accounts payable	(40,485,821)
Short-term loans	(253,098,128)
Long-term loans, net	(152,623,990)
Lease liabilities, net	(3,508,900)
Deferred tax liabilities	(3,137,041)
Other liabilities	(10,315,449)
Net identifiable liabilities	(170,448,374)
<u>Less</u> Non-controlling interests	42,612,094
Goodwill	165,366,280
Purchase consideration	37,530,000

Chaophraya River Line Co., Ltd.

On 23 November 2020, the Group acquired ordinary shares in Chaophraya River Line Co., Ltd. from its former shareholder according to a share purchase agreement and a shareholder agreement with the former shareholder. The Group made payment for 650,000 ordinary shares at Baht 65.70 per share, totalling Baht 56 million. As a result, the Group holds 99.99% of the issued and paid-up ordinary share capital. Chaophraya River Line Co., Ltd. engages in the business of a ferry transportation and tourism service provider.

Details of consideration paid at the acquisition date are as follows:

	Consolidated financial information As at acquisition date Baht'000
Cash	55,704,829
Purchase consideration	55,704,829

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During the year ended 31 December 2021, the Group completely measured the fair value of the net identifiable assets acquired and completed the purchase price allocation at the acquisition date. The management evaluated and concluded that changes after completing the fair value measurement were not significant. Details are as follows:

	Consolidated financial information As at acquisition date Baht
Recognised amount of identifiable assets acquired and liabilities assumed (Proportion of 100%)	
Cash and cash equivalents	2,339,498
Trade and other accounts receivable, net	1,106,877
Property, plant and equipment, net	34,589,766
Right-of-use assets, net	52,495,138
Other non-current assets	279,873
Trade and other accounts payable	(9,381,621)
Lease liabilities, net	(29,740,959)
Deferred tax liabilities	(1,339,518)
Other liabilities	(222,344)
Net identifiable liabilities	50,126,710
<u>Less</u> Non-controlling interests	(5,013)
Goodwill	5,583,132
Purchase consideration	55,704,829

Disposal of an investment in an indirect subsidiary

Associate Infinity Co., Ltd.

On 23 December 2021, the Group disposed its entire shareholding interest in Associate Infinity Co., Ltd. to the former shareholder at the amount of Baht 7 million. During the year, the Group fully received the payment and recognised loss on disposal of investment of Baht 0.06 million in administrative expenses in the consolidated statement of comprehensive income.

17.1.2 The significant movements of the investments in associates for the period ended 31 December 2021 are as follows:

Indirect associates

NEX Point Public Co., Ltd.

On 24 July 2020, the Group acquired newly issued ordinary shares of NEX Point Public Co., Ltd. through a Private Placement method for a capital increase at Baht 2.20 per share. The Group made payment of Baht 1,474 million for 670,000,000 shares. As a result, the Group holds 40.01% of issued and paid-up ordinary shares. NEX Point Public Co., Ltd. engages in the business of service of property rental, sale and rent a bus service, supply assets service and investing in other business.

As at 31 December 2021, the Group completely measured the fair value of the net identifiable assets acquired and completed the purchase price allocation. The fair value of net identifiable assets acquired is Baht 1,255 million which mainly consists of cash and cash equivalents, property, plant and equipment and inventory amounting to Baht 972 million, Baht 172 million and Baht 79 million, respectively. The liabilities assumed are Baht 263 million, and the goodwill from the investment is Baht 219 million. The management evaluated and concluded that changes after completing the fair value measurement were not significant.

CSBC Power Technology Co., Ltd.

On 14 May 2021, the Group acquired ordinary shares of CSBC Power Technology Co., Ltd. by payment for 2,000,000 newly issued ordinary shares, which is equivalent to 26.67% of the total issued and paid-up share capital at Taiwan Dollars 10 per share, totalling Taiwan Dollars 20 million or equivalent to Baht 22 million. CSBC Power Technology Co., Ltd is incorporated in the Republic of China (Taiwan) and engages in the business of distributing equipment and marine vehicles.

17.1.3 The significant movement of the investment in joint ventures during the period ended 31 December 2021 is as follows:

Indirect joint venture

Ranong Clean 2021 Co., Ltd.

On 1 March 2021, EA Waste Management Co., Ltd. and the shareholders of Ranong Clean 2021 Co., Ltd. entered into a joint business agreement which EA Waste Management Co., Ltd. agreed to purchase 500,000 newly issued ordinary shares of Ranong Clean 2021 Co., Ltd. or in the proportion of 50% of the total issued and paid-up shares, totalling Baht 50 million. Ranong Clean 2021 Co., Ltd. was incorporated in Thailand and engaged in waste management business.

On 25 March 2021, the Group partially paid for the said ordinary shares of Baht 40 per share, totalling Baht 20 million. The Company classified an investment in Ranong Clean 2021 Co., Ltd. as an investment in a joint venture since the joint business agreement between the shareholders specified that the management structure, the determination on financial strategic direction and critical economic activities required unanimous consent from all shareholders.

On 3 September 2021, at the Board of Directors' Meeting of Ranong Clean 2021 Co., Ltd., the Board of Directors passed a resolution calling for additional paid-up share capital at Baht 30 per share. The Company made a payment for additional paid-up share capital of 500,000 shares, totalling Baht 15 million on 10 September 2021.

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17.2 Investments in subsidiaries

Business	Consolidated and separate financial statements									
	Portion of ordinary shares held by the Company		Portion of ordinary shares held by the subsidiaries		Cost method		Dividend for the year			
	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020	Baht	Baht
	%	%	%	%	Baht	Baht	Baht	Baht		
The details of direct subsidiaries incorporated in Thailand										
Surachai (1997) Co., Ltd.	99.90	99.90	-	-	231,550,000	231,550,000	-	-	-	-
EA Solar Co., Ltd.	49.00	49.00	51.00	51.00	313,030,000	313,030,000	-	-	70,635,924	
EA Solar Nakornsawan Co., Ltd.	99.99	99.99	-	-	5,589,999,970	5,589,999,970	978,249,997	1,224,209,995		
Energy Solution Management Co., Ltd.	99.99	99.99	-	-	529,999,500	529,999,500	-	-	-	-
EA Renewable Holding Co., Ltd.	99.99	99.99	-	-	7,383,699,970	7,383,699,970	1,838,107,292	2,576,690,790		
Wind Nanyangklak Co., Ltd.	99.99	99.99	-	-	1,879,499,970	1,879,499,970	-	-	-	-
Wind Progressive Co., Ltd.	99.99	99.99	-	-	1,879,499,970	1,879,499,970	-	-	-	-
Wind Tossaphum Co., Ltd.	99.99	99.99	-	-	1,669,999,970	1,669,999,970	-	-	-	-
Emma Corporation Co., Ltd.	50.00	50.00	-	-	50,000	50,000	-	-	-	-
Thepsathit Wind Farm Co., Ltd.	99.99	99.99	-	-	1	1	-	-	-	-
Energy Mahanakhon Co., Ltd.	50.00	50.00	2.11	2.11	99,999,970	99,999,970	-	-	-	-
Green Technology Research Co., Ltd.	99.99	99.99	-	-	111,999,970	111,999,970	-	-	-	-
Mine Mobility Research Co., Ltd.	99.99	99.99	-	-	409,999,970	399,999,970	-	-	-	-
Energy Beyond Research Co., Ltd.	99.99	99.99	-	-	5,074,970	5,074,970	-	-	-	-
EA Bio Innovation Co., Ltd.	99.99	99.99	-	-	400,099,970	400,099,970	-	-	-	-
Smart Waste Management Co., Ltd.	99.99	99.99	-	-	19,999,970	9,999,970	-	-	-	-
EA Palm Network Co., Ltd.	99.99	99.99	-	-	799,999,970	799,999,970	-	-	-	-

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Consolidated and separate financial statements												
Business			Portion of ordinary shares held by the Company			Portion of ordinary shares held by the subsidiaries			Cost method		Dividend for the year	
			31 December 2021	31 December 2020	%	31 December 2021	31 December 2020	%	31 December 2021	31 December 2020	31 December 2021	31 December 2020
			%			%			Baht	Baht	Baht	Baht
The details of direct subsidiaries incorporated in Thailand (continued)												
EA Mobility Holding Co., Ltd. EA Waste Management Co., Ltd.	Investing in electric vehicle business	99.99	99.99	-		-		3,348,469,970	2,718,469,970	-	-	-
	Investing in waste management, manufacturing and distributing electricity from waste	99.97	99.97	-		-		237,599,970	99,970	-	-	-
Battery Electric Vehicle And Electronic Products Testing Center Company Limited (BEV).	Research, develop, test, and qualify the quality of battery (not commercial operations yet)	50.00	-	48.00		-		35,587,998	-	-	-	-
Total								24,946,162,079	24,023,074,081	2,816,357,289	3,871,536,709	
The details of direct subsidiaries incorporated in other countries												
Amita Technologies Inc. (Incorporated in the Republic of China (Taiwan)) EA Con Dao (SG) Pte. Ltd. (Incorporated in Singapore) EA BVI Holding Limited (Incorporated in British Virgin Islands)	Developing, manufacturing and distributing battery	62.63	65.61	8.67	9.10			4,521,465,272	3,680,011,745	-	-	-
	Investing in manufacturing of electricity energy business (not commercial operations yet)	95.00	95.00	-		-		-	-	-	-	-
	Investing in developing, manufacturing and distributing battery business	100	100	-		-		16,036,600	16,036,600	-	-	-
	Total							4,537,501,872	3,696,048,345	-	-	-
Total investments and dividend form subsidiaries								29,483,663,951	27,719,122,426	2,816,357,289	3,871,536,709	

Investment in Thepsathit Wind Farm Co., Ltd., a subsidiary of the Company, amounting to Baht 1 is recorded by using cost method and is not consolidated to the consolidated financial statements as at 31 December 2021 since such company's financial statements are not material to the Group.

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	Business	Consolidated and separate financial statements									
		Portion of ordinary shares held by the Company		Portion of ordinary shares held by the subsidiaries		Cost method		Dividend for the year		2020	2021
		31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020		
		%	%	%	%	Baht	Baht	Baht	Baht	Baht	Baht
The details of indirect subsidiaries incorporated in Thailand											
Surachai (1997) Solar Co., Ltd.	Investing in manufacturing and distributing electricity from solar energy	-	-	99.99	99.99	-	-	-	-	-	-
EA Solar Phitsanulok Co., Ltd.	Manufacturing and distributing electricity from solar energy	-	-	99.99	99.99	-	-	-	-	-	-
EA Wind Hadkanghan 2 Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
EA Wind Hadkanghan 3 Co., Ltd.	(not commercial operations yet)	-	-	99.99	99.99	-	-	-	-	-	-
EA Solar Lampang Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
Nayangklaik Development Co., Ltd.	Manufacturing and distributing electricity from solar energy	-	-	99.99	99.99	-	-	-	-	-	-
Nayangklaik Wind Power Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
Benjarat Development Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
Pongnok Development Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
Banchuan Development Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	99.99	99.99	-	-	-	-	-	-
Paypop Co., Ltd.	Electronics financial service	-	-	99.97	99.97	-	-	-	-	-	-
Amita Technology (Thailand) Co., Ltd.	(not commercial operations yet)	-	-	99.99	99.99	-	-	-	-	-	-
EA Station Co., Ltd.	Manufacturing and distributing battery (not commercial operations yet)	-	-	99.94	99.94	-	-	-	-	-	-
Larp Pakdee Palm Co., Ltd.	Charging station for electricity vehicle (not commercial operations yet)	-	-	74.99	74.99	-	-	-	-	-	-
Subyal Wind Farm (1) Co., Ltd.	Manufacturing and distributing of crude palm oil	-	-	99.99	99.99	-	-	-	-	-	-
Combine Energy Tech Co., Ltd.	Manufacturing and distributing of electricity from wind power (not commercial operations yet)	-	-	70.00	70.00	-	-	-	-	-	-
Absolute Assembly Co., Ltd.	Service of shore tank rental and crude palm oil pipeline transport	-	-	54.99	54.99	-	-	-	-	-	-
Kanjanadit Palm Oil Co., Ltd.	Manufacturing, assembling, distributing and providing service related to electric vehicle	-	-	75.00	75.00	-	-	-	-	-	-
E Smart Transport Co., Ltd.	Manufacturing and distributing crude palm oil	-	-	99.99	99.99	-	-	-	-	-	-
Mine Mobility Corporation Co., Ltd.	Service of ferry transportation and tourism	-	-	99.99	99.99	-	-	-	-	-	-
EV Now Co., Ltd.	Manufacturing and distributing electricity vehicle and battery pack	-	-	99.99	99.99	-	-	-	-	-	-
	Manufacturing and distributing electricity vehicle	-	-	99.99	99.99	-	-	-	-	-	-

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	Business	Consolidated and separate financial statements									
		Portion of ordinary shares held by the Company				Portion of ordinary shares held by the Group				Cost method	
		31 December 2021	31 December 2020	%	%	31 December 2021	31 December 2020	%	%	31 December 2021	31 December 2020
										Baht	Baht
The details of indirect subsidiaries incorporated in Thailand (continued)											
Chaopraya River Line Co., Ltd.	Service of ferry transportation and tourism	-	-	-	99.99	-	-	-	99.99	-	-
Wind Kalasin 1 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
Wind Kalasin 2 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
Wind Khon Kaen 1 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
Wind Annadcharoen 1 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
Wind Ubon Ratchathani 1 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
Wind Mahasarakham 1 Co., Ltd.	Research and development of wind power plant (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
EA Mobility Rental Co., Ltd.	Service of rental vehicle (not commercial operations yet)	-	-	-	99.99	-	-	-	-	-	-
The details of indirect subsidiaries incorporated in other countries											
Amita New Technologies Pte. Ltd. (Incorporated in Singapore)	Investing in developing, manufacturing and distributing battery business	-	-	-	100	-	-	-	100	-	-
Sun Field Investments Co., Ltd. (Incorporated in Samoa)	Investing in battery business	-	-	-	100	-	-	-	100	-	-
EA (BVI) 1 Limited (Incorporated in British Virgin Islands)	Investing in developing, manufacturing and distributing battery business	-	-	-	100	-	-	-	100	-	-
EA (BVI) 2 Limited (Incorporated in British Virgin Islands)	Investing in developing, manufacturing and distributing battery business	-	-	-	100	-	-	-	100	-	-

As at 31 December 2021, the Group pledged ordinary shares of subsidiaries which were 1) EA Solar Nakhonsawan Co., Ltd., 2) EA Solar Lampang Co., Ltd. and 3) EA Solar Phitsanulok Co., Ltd. and 4) EA Wind Hadkanghan 3 Co., Ltd. as collateral for the long-term loans with a financial institution (Note 27).

Summarised financial information on subsidiaries with material non-controlling interests

Set out below are the summarised financial information for each subsidiary that has non-controlling interests that are material to the Group. The amounts disclosed for each subsidiary are before inter-company eliminations.

Summarised statement of financial position

As at 31 December	Amita Technologies Inc.		Energy Mahanakorn Co., Ltd.		Absolute Assembly Co., Ltd.		Total	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Current assets	1,749,285,882	1,066,596,070	64,589,383	143,935,478	931,203,437	131,485,895	2,745,078,702	1,342,017,443
Current liabilities	1,337,448,455	2,135,159,849	48,678,846	12,389,966	1,099,538,673	69,158,312	2,485,665,974	2,216,708,127
Total current net assets (liabilities)	411,837,427	(1,068,563,779)	15,910,537	131,545,512	(168,335,236)	62,327,583	259,412,728	(874,690,684)
Non-current assets	7,272,918,150	4,922,953,134	417,219,228	372,318,371	1,689,586,823	615,424,221	9,379,724,201	5,910,695,726
Non-current liabilities	3,490,356,401	834,999,549	15,498,033	11,748,757	38,377,975	-	3,544,232,409	846,748,306
Total non-current net assets	3,782,561,749	4,087,953,585	401,721,195	360,569,614	1,651,208,848	615,424,221	5,835,491,792	5,063,947,420
Net assets	4,194,399,176	3,019,389,806	417,631,732	492,115,126	1,482,873,612	677,751,804	6,094,904,520	4,189,256,736
Non-controlling interests	1,571,641,371	763,603,682	200,003,836	235,673,934	667,293,125	304,988,312	2,438,938,332	1,366,508,409

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Summarised statement of comprehensive income

	Amita Technologies Inc.		Energy Mahanakorn Co., Ltd.		Absolute Assembly Co., Ltd.		Total	
	2021	2020	2021	2020	2021	2020	2021	2020
	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
For the year ended 31 December								
Revenue	367,015,227	283,238,354	18,354,579	7,185,086	683,100,000	-	1,068,469,806	290,423,440
Loss for the year	(329,191,281)	(335,806,972)	(74,483,394)	(57,666,422)	(7,378,192)	(9,748,196)	(411,052,867)	(403,221,590)
Other comprehensive income	43,726,189	117,634,294	-	-	-	-	43,726,189	117,634,294
Total comprehensive expense	(285,465,092)	(218,172,678)	(74,483,394)	(57,666,422)	(7,378,192)	(9,748,196)	(367,326,678)	(285,587,296)
Loss allocated to non-controlling interests	(106,963,770)	(55,175,870)	(35,670,097)	(27,616,450)	(3,320,186)	(4,386,688)	(145,954,053)	(82,792,320)
Dividends paid to non-controlling interests	-	-	-	-	-	-	-	-

Summarised statement of cash flows

	Amita Technologies Inc.		Energy Mahanakorn Co., Ltd.		Absolute Assembly Co., Ltd.		Total	
	2021	2020	2021	2020	2021	2020	2021	2020
	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
For the year ended 31 December								
Net cash receipts from (payments in) operating activities	767,426,363	(233,879,151)	448,253	(27,928,948)	(315,747,164)	(12,117,354)	452,127,452	(273,925,453)
Net cash payments in investing activities	(2,724,597,271)	(2,919,039,893)	(118,921,547)	(68,872,601)	(1,050,677,531)	(565,704,615)	(3,894,196,349)	(3,553,617,109)
Net cash receipts from financing activities	1,493,173,478	1,910,745,876	30,000,000	200,000	1,312,500,000	687,500,000	2,835,673,478	2,598,445,876
Net increase (decrease) in cash and cash equivalents	(463,997,430)	(1,242,173,168)	(88,473,294)	(96,601,549)	(53,924,695)	109,678,031	(606,395,419)	(1,229,096,686)
Cash and cash equivalents at beginning of year	580,151,914	1,831,676,315	110,467,866	207,069,415	109,678,031	-	800,297,811	2,038,745,730
Exchange gains (losses) on cash and cash equivalents	43,573,407	(9,351,233)	-	-	-	-	43,573,407	(9,351,233)
Cash and cash equivalents at the end of year	159,727,891	580,151,914	21,994,572	110,467,866	55,753,336	109,678,031	237,475,799	800,297,811

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17.3 Investments in associates

	Portion of ordinary shares held by the Group						Consolidated financial statements					
	31 December 2021			31 December 2020			Cost method			Equity method		
	%	31 December 2021	%	31 December 2020	%	31 December 2020	31 December 2021	Baht	31 December 2020	31 December 2021	Baht	31 December 2020
Business												
The details of the investments in associates												
Indirect associates incorporated in Thailand												
NEX Point Public Co., Ltd.	40.01		40.01		1,474,000,000	1,474,000,000	1,397,092,171	1,414,406,595				
TF Tech Holding Co., Ltd.	40.00		40.00		40,000,000	40,000,000	50,753,711	40,763,506				
Indirect associates incorporated in the Republic of China (Taiwan)												
Wan Meng Automatic Precision Co., Ltd.	36.04		36.04		39,988,080	39,988,080	43,920,393	45,311,406				
CSBC Power Technology Co., Ltd.	26.67		-		21,990,000	-	21,206,280	-				
Total investment in associates					1,575,978,080	1,553,988,080	1,512,972,555	1,500,481,507				

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Summarised financial information for an associate

The table below is the summarised financial information for an associate that is material to the Group. The financial information is included in its own financial statements which has been adjusted with adjustments for the equity method, including fair value adjustments and modifications for differences in accounting policies.

Summarised statement of financial position

As at 31 December	NEX Point Public Company Limited	
	2021 Million Baht	2020 Million Baht
Total current assets	1,745	1,763
Total non-current assets	2,042	1,747
Total current liabilities	(735)	(285)
Total non-current liabilities	(108)	(167)
Net assets	2,944	3,058

Summarised statement of comprehensive income

For the period ended 24 July (the acquisition date) to 31 December 2020	NEX Point Public Company Limited Million Baht
Revenue	449
Loss from continuing operations	(149)
Reconciliation to carrying amounts:	
Opening net assets at the acquisition date	3,207
Loss for the period	(149)
Closing net assets as at 31 December 2020	3,058
Group's share in an associate (%)	40.01
Group's share in an associate	1,223
Goodwill	191
Associate carrying amount	1,414
For the year ended 31 December 2021	
Revenue	688
Loss from continuing operations	(122)
Reconciliation to carrying amounts:	
Opening net assets as at 1 January 2021	3,058
Loss for the year	(122)
Other comprehensive income for the year	8
Closing net assets as at 31 December 2021	2,944
Group's share in an associate (%)	40.01
Group's share in an associate	1,178
Goodwill	219
Associate carrying amount	1,397

As at 31 December 2021, the fair value of the Group's interest in NEX Point Public Co., Ltd., a listed company in Stock Exchange of Thailand, is Baht 13,065 million (2020: Baht 2,814 million).

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Individually immaterial associates

In addition to the interests in the associates disclosed above, the Group also has interests in a number of individually immaterial associates that are accounted for using the equity method as follows:

	Consolidated financial statements	
	2021	2020
	Million Baht	Million Baht
Aggregate carrying amount of individually immaterial associates	116	86
The Group's share of:		
Profit (loss) from continuing operations	2	(3)
Other comprehensive income	-	2
Total comprehensive income (expense)	2	(1)

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17.4 Investments in joint ventures

Consolidated financial statements											
Portion of ordinary shares held by the Group				Cost method		Equity method			Dividend for the year		
Business	31 December 2021	31 December 2020	%	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020
	%			Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
The details of the investments in joint ventures											
Indirect joint venture incorporated in Thailand											
Ranong Clean 2021 Co., Ltd.	50.00		-	35,000,100	-	33,748,827					
Joint venture incorporated in the Republic of China (Taiwan)											
Shenzhen Ateess Power Technology Co., Ltd	38.58		38.58	45,471,090	45,471,090	67,199,485	28,990,332				
Total investment in joint ventures				80,471,190	45,471,090	100,948,312	28,990,332				
Separate financial statements											
Portion of ordinary shares held by the Company				Cost method			Dividend for the year				
Business	31 December 2021	31 December 2020	%	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020	31 December 2021	31 December 2020
	%			Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
The details of the investments in a joint venture											
Joint venture incorporated in the Republic of China (Taiwan)											
Shenzhen Ateess Power Technology Co., Ltd.	38.58	38.58		45,471,090	45,471,090	45,471,090	45,471,090				
Total investment in a joint venture				45,471,090	45,471,090	45,471,090	45,471,090				

18 Investment property, net

	Consolidated financial statements		
	Land	Buildings and	Total
	Baht	improvements	Baht
		Baht	
As at 1 January 2020			
Cost	38,790,830	42,047,226	80,838,056
Less Accumulated depreciation	-	(11,542,812)	(11,542,812)
Net book value	38,790,830	30,504,414	69,295,244
Fair value	52,265,790	38,990,000	91,255,790
For the year ended 31 December 2020			
Opening net book value	38,790,830	30,504,414	69,295,244
Depreciation charge	-	(2,101,068)	(2,101,068)
Closing net book value	38,790,830	28,403,346	67,194,176
As at 31 December 2020			
Cost	38,790,830	42,047,226	80,838,056
Less Accumulated depreciation	-	(13,643,880)	(13,643,880)
Net book value	38,790,830	28,403,346	67,194,176
Fair value	52,265,790	38,990,000	91,225,790
For the year ended 31 December 2021			
Opening net book value	38,790,830	28,403,346	67,194,176
Additions	-	400,000	400,000
Depreciation charge	-	(2,134,183)	(2,134,183)
Closing net book value	38,790,830	26,669,163	65,459,993
As at 31 December 2021			
Cost	38,790,830	42,447,226	81,238,056
Less Accumulated depreciation	-	(15,778,063)	(15,778,063)
Net book value	38,790,830	26,669,163	65,459,993
Fair value	38,396,000	39,000,000	77,396,000

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	Separate financial statements		
	Buildings and building improvements		Total
	Land Baht	Baht	Baht
As at 1 January 2020			
Cost	1,010,440,666	42,047,226	1,052,487,892
Less Accumulated depreciation	-	(11,542,812)	(11,542,812)
Net book value	1,010,440,666	30,504,414	1,040,945,080
Fair value	1,130,644,670	38,990,000	1,169,634,670
For the year ended 31 December 2020			
Opening net book value	1,010,440,666	30,504,414	1,040,945,080
Depreciation charge	-	(2,101,068)	(2,101,068)
Closing net book value	1,010,440,666	28,403,346	1,038,844,012
As at 31 December 2020			
Cost	1,010,440,666	42,047,226	1,052,487,892
Less Accumulated depreciation	-	(13,643,880)	(13,643,880)
Net book value	1,010,440,666	28,403,346	1,038,844,012
Fair value	1,130,644,670	38,990,000	1,169,634,670
For the year ended 31 December 2021			
Opening net book value	1,010,440,666	28,403,346	1,038,844,012
Additions	-	400,000	400,000
Depreciation charge	-	(2,134,183)	(2,134,183)
Closing net book value	1,010,440,666	26,669,163	1,037,109,829
As at 31 December 2021			
Cost	1,010,440,666	42,447,226	1,052,887,892
Less Accumulated depreciation	-	(15,778,063)	(15,778,063)
Net book value	1,010,440,666	26,669,163	1,037,109,829
Fair value	1,130,100,390	39,000,000	1,169,100,390

The Group measured fair value of investment properties by appointing an independent appraisal with professional qualification. The valuation technique used for measurement was classified as level 3. The valuation technique used by the Group is Market Approach which located in nearby location and that have similar purpose of use.

As at 31 December 2021 and 2020, investment property of the Company represented land leased to its subsidiaries for the operations of solar power plant and wind farm and the commercial buildings leased to its subsidiaries and external parties for purpose of office building.

As at 31 December 2021 and 2020, investment property of the Group represented land held for undetermined future use and the commercial buildings leased to external parties for purpose of office building.

Amount recognised in profit and loss that are related to investment property are as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Rental income	720,000	720,000	57,742,854	57,223,098

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19 Property, plant and equipment, net

	Consolidated financial statements						
	Land Baht	Buildings and buildings improvement Baht	Machines and equipment Baht	Power plants, substation, transmission system and components Baht	Office equipment, furniture, computers and motor vehicles Baht	Construction in progress Baht	Total Baht
As at 1 January 2020							
Cost	1,234,053,691	892,965,228	2,985,427,782	53,284,452,401	212,488,541	1,209,825,753	59,819,213,396
Less Accumulated depreciation	-	(236,935,449)	(1,742,562,259)	(6,333,804,006)	(134,816,795)	-	(8,448,118,509)
Net book value	1,234,053,691	656,029,779	1,242,865,523	46,950,648,395	77,671,746	1,209,825,753	51,371,094,887
For the year ended 31 December 2020							
Opening net book value	1,234,053,691	656,029,779	1,242,865,523	46,950,648,395	77,671,746	1,209,825,753	51,371,094,887
Additions	386,361,558	344,491,428	378,030,371	48,830,779	43,917,356	4,843,603,605	6,045,235,097
Revise provision for decommissioning costs	-	-	8,277,470	(37,232,528)	-	-	(28,955,058)
Disposals, net	-	-	(14,741,063)	(95,380,595)	(286,488)	-	(111,856,013)
Write off, net	-	(1,447,867)	-	(1,310,447)	-	(2,063,007)	(3,373,454)
Transfer	30,841,122	221,499,512	925,890,857	5,270,121	770,100	(1,184,271,712)	-
Increases from business acquisition	455,709,060	144,611,467	371,609,445	-	6,123,647	383,210	978,436,829
Depreciation charge	-	(48,258,106)	(237,629,780)	(2,158,093,076)	(30,873,925)	-	(2,474,854,887)
Currency translation differences	-	786,656	12,369,533	-	433,617	67,621,345	81,211,151
Closing net book value	2,106,965,431	1,317,712,869	2,686,672,356	44,712,732,649	97,756,053	4,935,099,194	55,856,938,552
As at 31 December 2020							
Cost	2,106,965,431	1,668,676,758	4,946,889,492	53,170,095,212	293,976,421	4,935,099,194	67,121,702,508
Less Accumulated depreciation	-	(350,963,889)	(2,260,217,136)	(8,457,362,563)	(196,220,368)	-	(11,264,763,956)
Net book value	2,106,965,431	1,317,712,869	2,686,672,356	44,712,732,649	97,756,053	4,935,099,194	55,856,938,552

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	Consolidated financial statements						
	Land Baht	Buildings and improvement Baht	Machines and equipment Baht	Power plants, substation, transmission system and components Baht	Office equipment, furniture, computers and motor vehicles Baht	Construction in progress Baht	Total Baht
As at 1 January 2021							
Cost	2,106,965,431	1,668,676,758	4,946,889,492	53,170,095,212	293,976,421	4,935,099,194	67,121,702,508
Less Accumulated depreciation	-	(350,963,889)	(2,260,217,136)	(8,457,362,563)	(196,220,368)	-	(11,264,763,956)
Net book value	2,106,965,431	1,317,712,869	2,686,672,356	44,712,732,649	97,756,053	4,935,099,194	55,856,938,552
For the year ended 31 December 2021							
Opening net book value	2,106,965,431	1,317,712,869	2,686,672,356	44,712,732,649	97,756,053	4,935,099,194	55,856,938,552
Additions	18,600,675	57,793,886	772,688,093	2,479,031,298	43,313,314	4,531,146,190	7,902,573,456
Revise provision for decommissioning costs	-	-	3,768,079	(375,169,742)	-	-	(371,401,663)
Disposals, net	-	-	(497,088,678)	(1,300,223,522)	(271,203)	-	(1,797,583,403)
Write off, net	-	-	(7,406,707)	(765,793)	(1,305,331)	(2,219,023)	(11,696,854)
Transfer	-	424,851,873	659,037,645	67,310,156	8,200	(1,151,207,874)	-
Transfer the components of power plants to non-current assets held for sale (Note 16)	-	-	-	(713,908,748)	-	-	(713,908,748)
Depreciation charge	-	(94,426,343)	(266,669,428)	(2,102,406,571)	(27,656,047)	-	(2,491,158,389)
Currency translation differences	-	2,640,192	1,680,022	-	32,032,754	10,517,509	46,870,477
Closing net book value	2,125,566,106	1,708,572,477	3,352,681,382	42,766,599,727	143,877,740	8,323,335,996	58,420,633,428
As at 31 December 2021							
Cost	2,125,566,106	2,159,500,245	5,300,891,879	52,544,602,552	397,625,294	8,323,335,996	70,851,522,072
Less Accumulated depreciation	-	(450,927,768)	(1,948,210,497)	(9,778,002,825)	(253,747,554)	-	(12,430,888,644)
Net book value	2,125,566,106	1,708,572,477	3,352,681,382	42,766,599,727	143,877,740	8,323,335,996	58,420,633,428

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	Separate financial statements					
	Land Baht	Buildings and buildings improvement Baht	Machines and equipment Baht	computers and motor vehicles Baht	Office equipment, furniture, construction in progress Baht	Total Baht
As at 1 January 2020						
Cost	55,788,998	171,305,709	910,712,989	71,493,258	23,307,984	1,232,608,938
Less Accumulated depreciation	-	(94,792,355)	(725,278,591)	(33,286,353)	-	(853,357,299)
Net book value	55,788,998	76,513,354	185,434,398	38,206,905	23,307,984	379,251,639
For the year ended 31 December 2020						
Opening net book value	55,788,998	76,513,354	185,434,398	38,206,905	23,307,984	379,251,639
Additions	-	-	1,655,915	7,879,351	44,587,759	54,123,025
Disposals, net	-	(1,447,866)	(7,652,621)	(1)	-	(9,100,488)
Transfer	-	1,639,581	7,942,871	-	(9,582,452)	-
Depreciation charge	-	(8,350,154)	(57,561,125)	(11,013,674)	-	(76,924,953)
Closing net book value	55,788,998	68,354,915	129,819,438	35,072,581	58,313,291	347,349,223
As at 31 December 2020						
Cost	55,788,998	171,218,375	902,099,709	79,197,612	58,313,291	1,266,617,985
Less Accumulated depreciation	-	(102,863,460)	(772,280,271)	(44,125,031)	-	(919,268,762)
Net book value	55,788,998	68,354,915	129,819,438	35,072,581	58,313,291	347,349,223

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	Separate financial statements					
	Land Baht	Buildings and buildings improvement Baht	Machines and equipment Baht	computers and motor vehicles Baht	Office equipment, furniture, construction in progress Baht	Total Baht
As at 1 January 2021						
Cost	55,788,998	171,218,375	902,099,709	79,197,612	58,313,291	1,266,617,985
Less Accumulated depreciation	-	(102,863,460)	(772,280,271)	(44,125,031)	-	(919,268,762)
Net book value	55,788,998	68,354,915	129,819,438	35,072,581	58,313,291	347,349,223
For the year ended 31 December 2021						
Opening net book value	55,788,998	68,354,915	129,819,438	35,072,581	58,313,291	347,349,223
Additions	519,300	790,314	859,709	9,537,918	6,415,149	18,122,390
Disposals, net	-	(1,994,532)	(2,293,450)	-	-	(4,287,982)
Write off, net	-	-	(4)	(283)	-	(287)
Transfer	-	-	28,378,148	8,200	(28,386,348)	-
Depreciation charge	-	(7,518,515)	(48,507,703)	(10,523,926)	-	(66,550,144)
Closing net book value	56,308,298	59,632,182	108,256,138	34,094,490	36,342,092	294,633,200
As at 31 December 2021						
Cost	56,308,298	169,564,456	917,589,649	87,903,066	36,342,092	1,267,707,561
Less Accumulated depreciation	-	(109,932,274)	(809,333,511)	(53,808,576)	-	(973,074,361)
Net book value	56,308,298	59,632,182	108,256,138	34,094,490	36,342,092	294,633,200

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For the year ended 31 December 2021, borrowing costs of the Group amounting to Baht 34 million (2020: Baht 9 million) arising from general financing were capitalised and included in additions of property, plants and equipment during the year in the consolidated financial statement. The Group used capitalised rate at 1.80% (2020: 3.25%) in the calculation of which the rate referred from borrowing cost for the construction project.

As at 31 December 2021, property, plant and equipment with net book value amounting to Baht 27,038 million were mortgaged and pledged as collateral for credit facilities with a financial institution (2020: Baht 1,593 million) (Note 25 and 27).

20 Right-of-use, net

	Consolidated financial statements				
	Land Baht	Building Baht	Office equipment Baht	Motor vehicle Baht	Total Baht
For the year ended 31 December 2020					
Opening net book value	903,691,851	110,093,377	1,850,210	17,150,012	1,032,785,450
Additions	752,731,087	11,284,412	-	4,052,375	768,067,874
Depreciation charge	(82,588,142)	(25,356,963)	-	(5,255,012)	(113,200,117)
Increase from business acquisition	-	-	-	55,470,529	55,470,529
Adjustments related to renewal and cancellation of contract	33,643,269	(2,029,029)	(1,850,210)	(3,277,597)	26,486,433
Currency translation differences	7,934,658	779,612	-	-	8,714,270
Closing net book value	1,615,412,723	94,771,409	-	68,140,307	1,778,324,439

	Consolidated financial statements			
	Land Baht	Building Baht	Motor vehicle Baht	Total Baht
For the year ended 31 December 2021				
Opening net book value	1,615,412,723	94,771,409	68,140,307	1,778,324,439
Additions	43,967,706	6,615,951	6,786,473	57,370,130
Depreciation charge	(71,646,816)	(44,883,218)	(11,093,406)	(127,623,440)
Adjustments related to renewal of contract and cancellation of contract	(2,354,177)	21,191,719	(954,555)	17,882,987
Currency translation differences	4,098,254	3,526,991	62,221	7,687,466
Closing net book value	1,589,477,690	81,222,852	62,941,040	1,733,641,582

	Separate financial statements			
	Land Baht	Building Baht	Motor vehicle Baht	Total Baht
For the year ended 31 December 2020				
Opening net book value	285,897,099	35,748,059	1,186,063	322,831,221
Additions	148,878	-	-	148,878
Depreciation charge	(30,059,106)	(8,201,555)	(424,647)	(38,685,308)
Adjustments related to renewal of contract	19,791,817	(297,620)	(9,920)	19,484,277
Closing net book value	275,778,688	27,248,884	751,496	303,779,068

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	Separate financial statements			
	Land Baht	Building Baht	Motor vehicle Baht	Total Baht
For the year ended 31 December 2021				
Opening net book value	275,778,688	27,248,884	751,496	303,779,068
Additions	628,459	-	5,409,401	6,037,860
Depreciation charge	(14,950,829)	(10,496,107)	(959,475)	(26,406,411)
Adjustments related to renewal of contract	-	20,805,163	-	20,805,163
Closing net book value	261,456,318	37,557,940	5,201,422	304,215,680

Expenses related to leases that are not included in the measurement of lease liabilities and right-of-use are as follows:

	Consolidated financial statements Baht	Separate financial statements Baht
For the year ended 31 December 2021		
Expense relating to leases of low-value assets	4,588,011	-
Total cash outflow for leases	156,139,448	64,202,602

21 Goodwill

	Consolidated financial statements	
	2021 Baht	2020 Baht
As at 1 January		
Cost	1,337,332,568	889,808,430
<u>Less</u> Provision for impairment	-	-
Net book value	1,337,332,568	889,808,430
For the years ended 31 December		
Opening net book value	1,337,332,568	889,808,430
Increase from business acquisition	-	387,931,219
Decrease from fair value measurement of net identifiable assets and reallocation of cost of business acquisition	(7,887,771)	-
Currency translation differences	124,026,097	59,592,919
Closing net book value	1,453,470,894	1,337,332,568
As at 31 December		
Cost	1,453,470,894	1,337,332,568
<u>Less</u> Provision for impairment	-	-
Net book value	1,453,470,894	1,337,332,568

Goodwill allocation for each material cash generation unit (CGU) is presented as:

	Consolidated financial statements			
	2021		2020	
	Battery developing, manufacturing and distributing business Million Baht	Palm crushing mills and biomass power plant business Million Baht	Battery developing, manufacturing and distributing business Million Baht	Palm crushing mills and biomass power plant business Million Baht
Goodwill allocation	1,073	330	949	335

Impairment tests for goodwill

The Group tests impairment of goodwill annually by comparing the net book value of goodwill with the recoverable amount of a CGU, which is determined based on value-in-use calculations. For the year 2021 and 2020, these calculations use cash flow projections from financial budgets approved by the management covering period between 10 and 25 years and growth rates between 0% to 2% per annum, for the projected period and beyond. The growth rate does not exceed the average long-term growth rate for the business in which the CGU operates.

As at 31 December, the key assumptions used for value-in-use calculations are as follows:

	Consolidated financial statements			
	2021		2020	
	Battery developing, manufacturing and distributing business Percent	Palm crushing mills and biomass power plant business Percent	Battery developing, manufacturing and distributing business Percent	Palm crushing mills and biomass power plant business Percent
Discount rate	12.39 - 13.40	8.37 - 9.26	9.10 - 10.14	8.00 - 9.90

If the discount rate used in the calculation increases by 1% per annum, there is no impairment of goodwill recorded in the consolidated financial statements for the year ended 31 December 2021.

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22 Intangible assets, net

		Consolidated financial statements					
		Patents	Brand	Right to use	Right to power	Computer	Intangible
		Baht	Baht	transmission line	purchase agreement	software	assets under
				Baht	Baht	Baht	development
							Baht
							Total
							Baht
As at 1 January 2020							
Cost	750,163,093	258,741,336	1,909,027,526	42,461,197	48,643,029	114,750,511	3,123,786,692
Less Accumulated amortisation	(80,095,058)	(27,670,508)	(194,096,320)	(12,241,818)	(16,898,935)	-	(331,002,639)
Net book value	670,068,035	231,070,828	1,714,931,206	30,219,379	31,744,094	114,750,511	2,792,784,053
For the year ended 31 December 2020							
Opening net book value	670,068,035	231,070,828	1,714,931,206	30,219,379	31,744,094	114,750,511	2,792,784,053
Additions	-	-	-	-	13,778,884	64,082,672	77,861,556
Amortisation	(39,996,942)	(13,792,818)	(76,487,538)	(1,698,448)	(8,248,442)	-	(140,224,188)
Increase from business acquisition	-	-	-	-	466,330	-	466,330
Currency translation differences	45,381,395	15,649,629	-	-	661,568	-	61,692,592
Closing net book value	675,452,488	232,927,639	1,638,443,668	28,520,931	38,402,434	178,833,183	2,792,580,343
As at 31 December 2020							
Cost	795,544,488	274,390,965	1,909,027,526	42,461,197	61,363,674	178,833,183	3,261,621,033
Less Accumulated amortisation	(120,092,000)	(41,463,326)	(270,583,858)	(13,940,266)	(22,961,240)	-	(469,040,690)
Net book value	675,452,488	232,927,639	1,638,443,668	28,520,931	38,402,434	178,833,183	2,792,580,343

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	Consolidated financial statements						
	Patents	Brand	Right to use	Right to power	Computer	Intangible	Total
	Baht	Baht	transmission line	purchase	software	assets under	Baht
			Baht	agreement	Baht	development	Baht
As at 1 January 2021							
Cost	795,544,488	274,390,965	1,909,027,526	42,461,197	61,363,674	178,833,183	3,261,621,033
Less Accumulated amortisation	(120,092,000)	(41,463,326)	(270,583,858)	(13,940,266)	(22,961,240)	-	(469,040,690)
Net book value	675,452,488	232,927,639	1,638,443,668	28,520,931	38,402,434	178,833,183	2,792,580,343
For the year ended 31 December 2021							
Opening net book value	675,452,488	232,927,639	1,638,443,668	28,520,931	38,402,434	178,833,183	2,792,580,343
Additions	-	-	-	-	30,307,085	3,184,779	33,491,864
Transfer	12,090,128	-	-	-	-	(12,090,128)	-
Write off, net	-	-	-	-	(350,602)	(5,180,391)	(5,530,993)
Amortisation	(43,863,407)	(14,709,460)	(76,331,718)	(1,693,807)	(10,457,972)	-	(147,056,364)
Currency translation differences	85,634,096	29,530,645	-	-	1,054,621	87	116,219,449
Closing net book value	729,313,305	247,748,824	1,562,111,950	26,827,124	58,955,566	164,747,530	2,789,704,299
As at 31 December 2021							
Cost	919,765,821	313,009,071	1,909,027,526	42,461,197	93,198,976	164,747,530	3,442,210,121
Less Accumulated amortisation	(190,452,516)	(65,260,247)	(346,915,576)	(15,634,073)	(34,243,410)	-	(652,505,822)
Net book value	729,313,305	247,748,824	1,562,111,950	26,827,124	58,955,566	164,747,530	2,789,704,299

	Separate financial statements Computer software Baht
As at 1 January 2020	
Cost	17,380,517
<u>Less</u> Accumulated amortisation	<u>(6,248,282)</u>
Net book value	<u>11,132,235</u>
For the year ended 31 December 2020	
Opening net book value	11,132,235
Additions	2,119,320
Amortisation	<u>(1,691,556)</u>
Closing net book value	<u>11,559,999</u>
As at 31 December 2020	
Cost	19,499,837
<u>Less</u> Accumulated amortisation	<u>(7,939,838)</u>
Net book value	<u>11,559,999</u>
For the year ended 31 December 2021	
Opening net book value	11,559,999
Additions	3,222,734
Write off, net	(1,286,250)
Amortisation	<u>(1,829,382)</u>
Closing net book value	<u>11,667,101</u>
As at 31 December 2021	
Cost	21,436,320
<u>Less</u> Accumulated amortisation	<u>(9,769,219)</u>
Net book value	<u>11,667,101</u>

23 Deferred income taxes

The analysis of deferred tax assets and deferred tax liabilities are as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Deferred tax assets	516,132,035	324,146,901	99,797,753	72,169,357
Deferred tax liabilities	(591,848,334)	(509,204,297)	(60,843,136)	(129,806,972)
Deferred income taxes, net	(75,716,299)	(185,057,396)	38,954,617	(57,636,972)

The movement of the deferred income tax account is as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
At 1 January	(185,057,396)	(104,531,656)	(57,636,972)	7,738,279
Tax (charged) credited to profit or loss	35,376,120	39,849,858	(5,647,782)	3,675,264
Tax (charged) credited to other comprehensive income	102,031,536	(72,776,712)	102,239,371	(69,050,515)
Increase from business acquisition	-	(35,662,606)	-	-
Increase from fair value remeasurement of net identifiable assets and allocation of cost of business acquisition	(4,476,559)	-	-	-
Currency translation differences	(23,590,000)	(11,936,280)	-	-
At 31 December	(75,716,299)	(185,057,396)	38,954,617	(57,636,972)

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		Consolidated financial statements														
		Financial assets														
Allowance for decrease in value of inventories	Baht	measured at fair value through other comprehensive income	Baht	Retirement obligations benefit	Baht	Property, plant and equipment	Baht	Right to use transmission line	Baht	Fair value from business acquisition	Baht	Provision for decommissioning costs	Baht	Lease liabilities	Baht	Total Baht
Deferred tax assets																
As at 1 January 2020	1,555,669	-	-	6,630,153	23,589,392	-	-	69,471	-	-	-	43,931,767	206,476,754	282,253,206		
Tax (charged) credited to profit or loss	(277,519)	-	-	1,640,750	1,155,720	-	-	-	-	-	-	-	1,814,319	31,595,133		
Increase from business acquisition	-	-	-	-	-	-	-	-	-	10,298,562	-	27,261,863	-	10,298,562		
As at 31 December 2020	1,278,150	-	-	8,270,903	24,745,112	69,471	10,298,562	71,193,630	208,291,073	324,146,901						
As at 1 January 2021	1,278,150	-	-	8,270,903	24,745,112	69,471	10,298,562	71,193,630	208,291,073	324,146,901						
Tax credited to profit or loss	-	-	-	697,391	222,448	-	-	-	-	-	-	24,413,202	136,677,427	162,010,468		
Tax credited to other comprehensive income	-	33,188,856	-	-	-	-	-	-	-	-	-	-	-	33,188,856		
Reclassification	-	-	-	-	10,298,562	-	(10,298,562)	-	-	-	-	-	-	-		
Currency translation differences	-	-	-	-	-	-	-	-	-	-	-	-	(3,214,190)	(3,214,190)		
As at 31 December 2021	1,278,150	33,188,856	8,968,294	35,266,122	69,471	-	-	95,606,832	341,754,310	516,132,035						

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	Consolidated financial statements					
	Financial assets measured at fair value through other comprehensive income			Fair value from business acquisition	Right of use asset	Total Baht
	Patents Baht	Brand Baht	Property, Plant and Equipment Baht	Baht	Baht	Baht
Deferred tax liabilities						
As at 1 January 2020	134,013,607	46,214,165	-	-	-	386,784,862
Tax charged (credited) to profit or loss	(7,822,585)	(2,697,594)	-	-	-	(8,254,725)
Tax charged to other comprehensive income	-	-	72,776,712	-	-	72,776,712
Increase from business acquisition	-	-	-	-	-	45,961,168
Currency translation differences	8,899,477	3,068,957	-	-	(32,154)	11,936,280
As at 31 December 2020	135,090,499	46,585,528	72,776,712	-	45,961,168	509,204,297
As at 1 January 2021	135,090,499	46,585,528	72,776,712	-	45,961,168	509,204,297
Tax charged (credited) to profit or loss	(8,531,012)	(2,941,892)	-	1,134,945	-	126,634,348
Tax credited to other comprehensive income	-	-	(68,842,680)	-	-	(68,842,680)
Reclassification	-	-	-	45,961,168	(45,961,168)	-
Increase from fair value measurement of net identifiable assets and allocation of cost of business acquisition	-	-	-	-	-	-
Currency translation differences	17,126,819	5,906,129	526,436	4,476,559	-	4,476,559
As at 31 December 2021	143,686,306	49,549,765	4,460,468	51,572,672	(3,183,574)	20,375,810
						591,848,334

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	Separate financial statements				
	Allowance for decrease in value of inventories Baht	Financial assets measured at fair value through other comprehensive income Baht	Retirement benefit obligations Baht	Lease liabilities Baht	Total Baht
Deferred tax assets					
As at 1 January 2020	1,555,669	-	6,182,610	59,450,135	67,188,414
Tax (charged) credited to profit or loss	(277,519)	-	1,640,750	3,617,712	4,980,943
As at 31 December 2020	1,278,150	-	7,823,360	63,067,847	72,169,357
As at 1 January 2021	1,278,150	-	7,823,360	63,067,847	72,169,357
Tax charged to profit or loss	-	-	-	(5,560,460)	(5,560,460)
Tax credited to other comprehensive income	-	33,188,856	-	-	33,188,856
As at 31 December 2021	1,278,150	33,188,856	7,823,360	57,507,387	99,797,753

	Separate financial statements		
	Financial assets measured at fair value through other comprehensive income Baht	Right of use assets Baht	Total Baht
Deferred tax liabilities			
As at 1 January 2020	-	59,450,135	59,450,135
Tax charged to profit or loss	-	1,305,679	1,305,679
Tax charged to other comprehensive income	69,050,515	-	69,050,515
As at 31 December 2020	69,050,515	60,755,814	129,806,329
As at 1 January 2021	69,050,515	60,755,814	129,806,329
Tax charged to profit or loss	-	87,322	87,322
Tax credited to other comprehensive income	(69,050,515)	-	(69,050,515)
As at 31 December 2021	-	60,843,136	60,843,136

24 Other non-current assets, net

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Withholding tax	101,655,087	89,236,600	37,701,956	36,123,777
Advance payment for equipment and assets purchase	1,691,961,412	1,728,796,971	954,842,185	882,519,228
Deposits	22,306,229	22,306,229	22,306,229	22,306,229
Long-term deposits	51,290,258	48,705,660	2,944,888	2,938,888
Others	14,347,617	32,357,015	1,337,236	1,086,214
Less Allowance for impairment of assets	(31,543,887)	(8,909,508)	(31,215,737)	(8,909,508)
Total other non-current assets, net	1,850,016,716	1,912,492,967	987,916,757	936,064,828

Allowance for an impairment of assets amounting to Baht 31 million is an allowance for advance payment for purchase of raw materials paid to a particular supplier who could not deliver raw materials or return such advance payment to the Company amounting to Baht 9 million and an allowance for deposit in an overseas project which the Company does not expect to receive such deposit back amounting to Baht 22 million.

25 Short-term loans from financial institutions, net

The short-term loans from financial institutions are as follows:

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Bank Overdraft	5,095,213	26,109,976	-	-
Promissory note	937,000,000	2,349,951,915	300,000,000	200,000,000
Trust receipts	642,756,761	245,678,657	583,988,564	162,176,922
Letter of credit	33,207,895	18,574,345	-	-
Total short-term loans from financial institutions, net	1,618,059,869	2,640,314,893	883,988,564	362,176,922

The movement of short-term loans from financial institutions can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening net book value	2,640,314,893	659,862,469	362,176,922	482,886,986
Cash flows:				
Additional loans during the year	5,154,290,186	4,898,169,125	3,317,897,487	2,789,197,544
Loan repayments during the year	(6,143,629,065)	(3,303,185,833)	(2,803,949,440)	(2,913,016,424)
Other non-cash movements:				
Increase from business acquisition	-	369,685,165	-	-
Bill of Exchange amortisation	7,863,595	3,108,816	7,863,595	3,108,816
Currency translation differences	(40,779,740)	12,675,151	-	-
Closing net book value	1,618,059,869	2,640,314,893	883,998,564	362,176,922

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As at 31 December 2021, short-term loans from financial institutions of the Company and subsidiaries are as follows:

Loans of the Company

Type	31 December 2021	
	Balance Million Baht	Interest rate
Promissory notes	300	Fixed interest rate at 1.20% per annum
Trust receipts	584	Fixed interest rate at 1.21% per annum
Total	884	

Type	31 December 2020	
	Balance Million Baht	Interest rate
Promissory notes	200	Fixed interest rate at 1.20% per annum
Trust receipts	162	Fixed interest rate at 1.21% per annum
Total	362	

Loans of subsidiaries

Type	31 December 2021	
	Balance Million Taiwan Dollar	Interest rate
Bank overdraft	-	Floating interest rate between MOR less fixed discount and MOR per annum
Promissory notes	637	Fixed interest rate between 1.71% and 1.75% per annum and variable interest rate between MLR less fixed discount and MLR per annum
Trust receipts	-	Fixed interest rate at 1.21% per annum
Letter of credit	28	Fixed interest rate at 1.55% to 2.11% per annum
Total	28	

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Type	Balance		Interest rate	31 December 2020 Available credit facilities	
	Million Taiwan Dollar	Million Baht		Million Taiwan Dollar	Million Baht
Bank overdraft	-	26	Variable interest rate between MOR less fixed discount and MOR per annum	-	14
Promissory notes	-	2,150	Fixed interest rate between 1.71% and 1.75% per annum and variable interest rate between MLR less fixed discount and MLR per annum	-	2,160
Trust receipts	-	84	Fixed interest rate between 1.37% and 1.47% per annum	-	316
Letter of credit	17	-	Fixed interest rate at 1.21% per annum	23	-
Total	17	2,260			

The loans of subsidiaries are secured by the overseas subsidiaries' fixed deposits, land, buildings, machines, and some equipment of the Group. The Group must comply with certain terms and conditions as specified in the short-term loan agreements with financial institutions: for example, by maintaining the debt to equity ratio and the debt service coverage ratio at the specified level, etc.

26 Other accounts payable

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Other accounts payable				
- third parties	333,699,109	241,817,802	125,537,063	33,229,038
- related parties (Note 40.3)	1,169,458	-	162,693,264	163,363,442
Undue output VAT	180,326,440	145,501,420	7,419,215	1,403,743
Revenue department payable	97,022,914	108,071,281	48,858,172	42,091,249
Accrued expenses	165,366,313	171,878,301	8,568,540	4,866,340
Interest payable	75,301,487	223,029,041	63,148,591	187,529,949
Deferred revenue	29,013,349	14,808,501	57,021,377	56,849,957
Others	7,050,005	10,843,173	24,442	190,886
Total other accounts payable	888,949,075	915,949,519	473,270,664	489,524,604

27 Long-term loans from financial institutions, net

27.1 The long-term loans from financial institutions are as follows:

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Long-term loans from financial institutions	29,197,851,647	24,411,654,688	5,390,000,000	5,430,000,000
<u>Less</u> Deferred financing fee	(34,628,016)	(171,698,519)	(10,428,398)	(8,007,167)
	29,163,223,631	24,239,956,169	5,379,571,602	5,421,992,833
<u>Less</u> Current portion of long-term loans from financial institutions, net	(5,581,640,244)	(5,342,357,161)	(935,618,978)	(3,535,124,780)
Total long-term loans from financial institutions, net	23,581,583,387	18,897,599,008	4,443,952,624	1,886,868,053

The movement of long-term loans from financial institutions can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening net book value	24,239,956,169	24,293,677,122	5,421,992,833	5,677,470,188
Cash flows:				
Additional loans during the year	29,224,166,432	1,302,200,424	3,500,000,000	-
Loan repayments during the year	(24,433,157,887)	(1,845,026,605)	(3,540,000,000)	(270,000,000)
Payment for deferred financing fee during the year	(38,964,997)	(694,173)	(9,500,000)	-
Other non-cash movements:				
Amortisation of deferred financing fee ^(a)	189,535,500	57,275,839	7,078,769	14,522,645
Reclassification of deferred financing fee	(13,500,000)	-	-	-
Increase from business acquisition	-	431,617,570	-	-
Currency translation differences	(4,811,586)	905,992	-	-
	29,163,223,631	24,239,956,169	5,379,571,602	5,421,992,833
<u>Less</u> Current portion of long-term loans from financial institutions, net	(5,581,640,244)	(5,342,357,161)	(935,618,978)	(3,535,124,780)
Closing net book value	23,581,583,387	18,897,599,008	4,443,952,624	1,886,868,053

- (a) Amortisations of deferred financing fee of the Group amounting to Baht 134 million were the result of early repayment of the existing loan agreements of four subsidiaries during the year ended 31 December 2021.

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As at 31 December, long-term loans from financial institutions of the Company and subsidiaries are as follows:

Loans of the Company

Number	Balance		Interest rate	Principal repayment term	Interest payment period	Available credit facilities	
	2021 Million Baht	2020 Million Baht				2021 Million Baht	2020 Million Baht
1	1,890	2,430	Fixed interest rate per annum between 2.77% - 3.80%	Repayment every six months from December 2020	Payment every six months	-	-
2	-	3,000	THBFIX six-month plus a certain margin per annum	Repayment within two years since the agreement date	Payment every three months	-	-
3	2,000	-	BIBOR six-month plus a certain margin per annum	Repayment every six months from December 2022	Payment every six months	1,000	-
4	1,500	-	Fixed interest rate per annum between 2.31% - 2.44%	Repayment within three years since the agreement date	Payment every six months	-	-
Total	5,390	5,430					

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Loans of subsidiaries denominated in Thai Baht

Number	Balance		Interest rate	Principal repayment term	Interest payment period	Available credit facilities	
	2021 Million Baht	2020 Million Baht				2021 Million Baht	2020 Million Baht
1	-	20	THBFX three-month plus a certain margin per annum	Repayment every three months from June 2016	Payment every three months	-	-
2	-	17,251	Fixed interest rate per annum between 3.30% - 4.37%	Repayment every year from December 2020	Payment every six months	-	-
3	499	666	Fixed interest rate per annum at 3.55%	Repayment every three months from September 2020	Payment every three months	-	-
4	847	694	MLR interest rate less a certain discount per annum	Repayment every three months from December 2020	Payment every three months	-	506
5	228	274	MLR interest rate less a certain discount per annum	Repayment every month from October 2020	Payment every month	-	-
6	2,552	-	THBFX six-month plus a certain margin per annum	Repayment every six months from December 2021	Payment every six months	-	-
7	19,619	-	THBFX six-month plus a certain margin per annum	Repayment every three months from September 2021	Payment every three months	217	-
Total	23,745	18,905					

Loan of subsidiaries in denominated in Taiwan Dollar

Number	Balance		Interest rate	Principal repayment term	Interest payment period	Available credit facilities	
	2021 Million Dollar	2020 Million Dollar				2021 Million Dollar	2020 Million Dollar
1	44	72	Fixed interest rate per annum at 4.62%	Repayment every month from January 2021	Payment every month	-	-
2	12	-	Two-year deposit interest rate plus fixed margin per annum	Repayment every month from October 2021	Payment every month	-	-
Total	56	72					

As at 31 December 2021, long-term loan denominated in Thai Baht of the subsidiaries of Baht 21,193 million, no. 3, 4, 5 and 7 and long-term loan denominated in Taiwan Dollar of the subsidiary of Taiwan Dollar 43 million or equivalent to Baht 52 million, no. 1 (as at 31 December 2020, long-term loan denominated in Thai Baht of the subsidiaries of Baht 1,654 million, no. 1, 3, 4 and 5 and long-term loan denominated in Taiwan Dollar of the subsidiary of the subsidiaries of Taiwan Dollar 72 million or equivalent to Baht 77 million, no.1) were secured with the deposits at a financial institution, land, factory building, machinery and equipment used by the Group, right to collect proceeds from land and factory building rental contract of the Group, pledging the subsidiaries' ordinary shares (Note 17.2) and assignment of insurance contracts. These loans were secured by the Company. The subsidiaries must comply with certain terms and conditions as specified in the long-term loan agreement with financial institutions; for example, by maintaining the debt-to-equity ratio and the debt service coverage ratio at the specified level.

As at 31 December 2021, long-term loan denominated in Thai Baht of the Company of Baht 5,390 million, long-term loan denominated in Thai Baht of the subsidiaries of Baht 2,552 million, no. 6, and long-term loan denominated in Taiwan Dollar of the subsidiary of Taiwan Dollar 12 million or equivalent to Baht 14 million, no. 2 (as at 31 December 2020, long-term loan denominated in Thai Baht of the Company of Baht 5,430 million and long-term loan denominated in Thai Baht of the subsidiaries of Baht 17,251 million, no. 2) were unsecured loans. The Group is required to comply with certain terms and conditions as specified in long-term loans agreement with financial institutions; for example, maintaining debt to equity ratio and debt service coverage ratio at the specified level.

27.2 Terms of maturity of long-term loans from financial institutions are as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Within 1 year	5,577,632,810	5,398,054,661	940,000,000	3,540,000,000
Later than 1 year and Not later than 5 years	18,587,961,837	10,321,148,829	4,450,000,000	1,890,000,000
Later than 5 years	5,032,257,000	8,692,451,198	-	-
Total long-term loans from financial institutions	29,197,851,647	24,411,654,688	5,390,000,000	5,430,000,000

28 Debentures, net

The details of debentures can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
As at 31 December	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Debentures	12,200,000,000	16,200,000,000	12,200,000,000	16,200,000,000
<u>Less</u> Deferred financing fee	(5,651,359)	(8,233,199)	(5,651,359)	(8,233,199)
	12,194,348,641	16,191,766,801	12,194,348,641	16,191,766,801
<u>Less</u> Current portion of debentures, net	(1,998,849,124)	(3,999,465,959)	(1,998,849,124)	(3,999,465,959)
Debentures, net	10,195,499,517	12,192,300,842	10,195,499,517	12,192,300,842

The movement of debentures can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
For the years ended 31 December	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening net book value	16,191,766,801	16,990,861,362	16,191,766,801	16,990,861,362
Cash flows:				
Issuance of debentures during the year	-	2,200,000,000	-	2,200,000,000
Repayment of debenture during the year	(4,000,000,000)	(3,000,000,000)	(4,000,000,000)	(3,000,000,000)
Payment for deferred financing fee during the year	-	(2,200,000)	-	(2,200,000)
Other non-cash movements:				
Amortisation of deferred financing fee	2,581,840	3,105,439	2,581,840	3,105,439
	12,194,348,641	16,191,766,801	12,194,348,641	16,191,766,801
<u>Less</u> Current portion of debentures, net	(1,998,849,124)	(3,999,465,959)	(1,998,849,124)	(3,999,465,959)
Closing net book value	10,195,499,517	12,192,300,842	10,195,499,517	12,192,300,842

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Debentures of Baht 12,200 million (2020: Baht 16,200 million) are unsecured. The Company is required to comply with certain specified terms and conditions; for example, maintaining debt to equity ratio.

The effective interest rates of the fixed interest rate of the Company's debentures were between 2.35% and 3.15% per annum (31 December 2020: between 2.09% and 3.15% per annum).

Maturity terms of debentures are as follows:

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Maturity less than 1 year	2,000,000,000	4,000,000,000	2,000,000,000	4,000,000,000
Maturity more than 1 to 5 years	6,200,000,000	5,200,000,000	6,200,000,000	5,200,000,000
Maturity more than 5 years	4,000,000,000	7,000,000,000	4,000,000,000	7,000,000,000
Total debentures	12,200,000,000	16,200,000,000	12,200,000,000	16,200,000,000

29 Provision for decommissioning costs

	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance	2,073,682,821	2,056,008,666	1,592,750	1,592,750
Increase in provision	3,768,079	8,277,470	-	-
Decrease in provision	(375,169,742)	(37,232,528)	-	-
Payments for decommissioning cost	(351,498)	-	-	-
Finance costs	39,058,854	46,629,213	-	-
Closing balance	1,740,988,514	2,073,682,821	1,592,750	1,592,750

30 Legal reserve

Under the Public Companies Act B.E. 2535, the Company is required to set aside as a legal reserve at least 5% of its net profit after accumulated deficit brought forward (if any) until the reserve is not less than 10% of the registered capital. The legal reserve is non-distributable.

31 Revenue from sales and services

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Sales of crude palm oil and biodiesel	7,699,229,923	5,977,678,333	5,772,996,726	5,434,095,207
Sales of glycerine	364,422,292	266,675,643	364,422,292	266,675,643
Sales of by-products	102,172,520	17,932,825	4,362,218	4,771,440
Sales of electricity ^(a)	4,045,922,209	3,977,266,843	-	-
Sales of services	61,656,833	74,693,256	-	-
Sales of battery, electricity vehicles and EV charging station	1,012,943,811	140,947,810	-	-
Total revenue from sales and services	13,286,347,588	10,455,194,710	6,141,781,236	5,705,542,290

- (a) The Group has entered into eleven and two power purchase agreements with Electricity Generating Authority of Thailand (EGAT) and Provincial Electricity Authority (PEA), respectively. The agreements are effective for a period of 5 years commencing from agreement effective date and the Group has the right to extend the term for consecutive periods of 5 years each. Such agreement will be effective until the Group notifies the termination of sales of electricity by voluntary termination or any party did not comply with the agreements. The sales quantity and its price must be complied with the agreements.

32 Revenue from subsidy for adders

Revenue from subsidy for adders represented income received from Provincial Electricity Authority from sales of solar electricity at Thai Baht 8 per kilowatt-hour and Electricity Generating Authority of Thailand from sales of solar electricity and wind power at Thai Baht 6.5 per kilowatt-hour and Thai Baht 3.5 per kilowatt-hour, respective for the period of 10 years since commercial operation date. The Group recognised such adders as revenue at whole amount according to the actual electricity production.

33 Other income

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Land rental income	-	-	57,742,854	57,223,098
Interest income	32,846,917	30,528,099	366,207,111	431,106,923
Commission from sale of an asset	-	-	92,700,000	-
Insurance claim income	9,426,563	24,319,762	-	-
Income from sales of assets, net ^(a)	318,763,333	35,723,438	-	1,360,837
Others	23,249,667	29,014,004	29,793,262	23,908,665
Total other income	384,286,480	119,585,303	546,443,227	513,599,523

- (a) During the year ended 31 December 2021, the Group recognised profit from sales of solar panels amounting to Baht 185 million, and recognised profit from sales of finance lease assets amounting to Baht 128 million.

34 Finance costs

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Interest paid to third parties	1,264,403,977	1,405,434,928	586,993,821	660,687,900
Interest paid to related parties	1,169,458	-	60,252,832	94,039,337
Deferred interest of lease liabilities amortisation	39,560,595	52,265,516	9,557,282	10,244,403
Letter guarantee fee amortisation	26,969,226	62,520,771	26,969,226	62,401,936
Interest paid for interest rate swap contracts	-	55,767,101	-	-
Other finance costs	55,435,195	60,808,710	7,644,766	17,635,053
Total finance costs	1,387,538,451	1,636,797,026	691,417,927	845,008,629

35 Expense by nature

The following expenditure items have been charged in arriving at net profit:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Changes in inventories of finished goods and work in process	252,161,522	(111,419,024)	(67,878,608)	55,533,275
Raw materials and consumables used	6,095,555,728	4,998,175,315	5,396,483,087	4,991,701,049
Staff costs	738,063,123	580,902,009	266,017,970	289,248,565
Directors and management compensation	185,037,013	205,749,777	160,583,650	191,638,675
Depreciation	2,620,916,012	2,590,156,072	95,090,738	117,711,329
Amortisation	147,056,364	140,224,188	1,829,382	1,691,556
(Reversal of) provision for inventories	25,238,526	6,265,237	-	(1,387,595)
Finance costs	1,387,538,451	1,636,797,026	691,417,927	845,008,629
Delivery and export expenses	53,285,807	62,685,039	45,654,477	53,947,930

36 Income tax

The Group calculated income tax for the year ended 31 December from net taxable profit of which not includes share from investments in associates and joint ventures by using tax rate as follows:

	2021	2020
Thailand	20%	20%
Republic of China (Taiwan)	20%	20%
Republic of Singapore	17%	17%

	Consolidated financial statements		Separate financial statements	
For the years ended 31 December	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Current tax	38,721,433	21,626,965	-	-
Deferred tax	(35,376,121)	(39,849,858)	5,647,782	(3,675,264)
Total income tax	3,345,312	(18,222,893)	5,647,782	(3,675,264)

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the basic tax rate of the home country of the parent company as follows:

	Consolidated financial statements		Separate financial statements	
For the years ended 31 December	2021 Million Baht	2020 Million Baht	2021 Million Baht	2020 Million Baht
Profit before tax	5,933	5,029	2,677	3,354
Tax calculated at a tax rate of 20% (2020: 20%)				
The result of the accounting profit multiplied by the income tax rate	(1,187)	(1,006)	(535)	(671)
Tax effect of :				
Income not subject to tax	1,131	962	536	655
Expenses not deductible for tax purpose	27	33	(7)	(1)
Revenues that are granted income tax exemption or expenses that are deductible at a greater amount	26	29	-	21
Income tax	(3)	18	(6)	4

The weighted average applicable tax rate for the Group and the Company were 0.05% and 0.21%, respectively (2020: 0.65% and 0.11%, respectively).

37 Earnings per share

Basic earnings per share is calculated by dividing the net profit attributable to shareholders of the Company by the weighted average number of ordinary shares.

	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
Basic earnings per share				
Net profit attributable to ordinary shareholders of the parent (Million Baht)	6,100	5,205	2,671	3,358
Weighted average number of ordinary shares outstanding (Million Shares)	3,730	3,730	3,730	3,730
Basic earnings per share (Baht per share)	1.64	1.40	0.72	0.90

There are no dilutive potential ordinary shares in issue during the periods presented, so no diluted earnings per share are presented.

38 Dividend

On 23 April 2021, at the Annual General Shareholders' Meeting, the shareholders approved annual dividend payments from non-BOI retained earnings as at 31 December 2020 at Baht 0.30 per share, totalling Baht 1,119 million. The Company paid the dividend to shareholders in May 2021.

On 23 April 2020, at the Annual General Shareholders' Meeting, the shareholders approved annual dividend payments from non-BOI retained earnings as at 31 December 2019 at Baht 0.30 per share, totalling Baht 1,119 million. The Company paid the dividend to shareholders in May 2020.

39 Promotional privileges

The Group has been granted promotional privileges by the Office of the Board of Investment under promotion certificates in respect of manufacturing of biodiesel, oil and fat produced from plant or animal and electricity. The Company and fourteen subsidiaries have been granted exemption from certain taxes and duties as detailed in the certificates including exemption from corporate income tax for a period of eight years from the date of first revenue. As promoted entities, these subsidiaries are required to comply with the terms and conditions specified in the promotion certificates.

40 Related party transactions

As at 31 December 2021, the major shareholders of the Company are Mr. Somphote Ahunai and UBS AG Singapore Branch who held ordinary shares portion of 23.21% and 20.73%, respectively. The remaining portion of ordinary shares were held by others.

Details of subsidiaries are disclosed in Note 17.

The following material transactions are carried out with related parties:

40.1 Revenue from services

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Baht	Baht	Baht	Baht
Revenue from management fees				
- Subsidiaries	-	-	116,971,364	18,720,000
Revenue from rental				
- Subsidiaries	-	-	57,742,854	57,150,326

40.2 Other income

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Baht	Baht	Baht	Baht
Interest income				
- Subsidiaries	-	-	480,541,335	412,449,407

40.3 Other receivables from and other payables to related parties

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021	2020	2021	2020
	Baht	Baht	Baht	Baht
Other receivables (including interest receivable (Note 40.4))				
- Subsidiaries	-	-	522,879,949	229,379,012
Other payables (including interest payable (Note 40.5))				
- Subsidiaries	-	-	162,693,264	163,363,442
- Associates	1,169,458	-	-	-

40.4 Short-term loans and long-term loans to related parties and related interests

Short-term loans

As at 31 December 2021, the Company issued promissory notes to related parties amounting to Baht 3,745 million. The promissory notes bore fixed interest between 2.20% and 3.01% per annum. (As at 31 December 2020: Baht 1,831 million. The promissory notes bore fixed interest between 1.50% and 3.36% per annum). The terms of principal repayment and interest repayment are specific schedules and at call. The said promissory notes are unsecured.

The movement of short-term loans to related parties can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance, net	-	-	1,830,543,640	1,010,074,990
Cash flows:				
Additions during the year	-	-	2,191,633,800	2,472,000,000
Repayments during the year	-	-	(100,000,000)	(1,400,000,000)
Other non-cash movements:				
Unrealised gain (loss) on exchange rate	-	-	32,729,410	(1,531,350)
Reclassify to long-terms loans	-	-	(210,000,000)	(250,000,000)
Closing balance, net	-	-	3,744,906,850	1,830,543,640

Long-term loans

As at 31 December 2021, the Company had long-term loans to related parties amounting to Baht 5,508 million with fixed interest between 2.72% and 4.00% per annum and Baht 2,737 million with floating interest at 6M THBFIX plus constant rate per annum (31 December 2020: Baht 7,386 million with fixed interest between 2.55% and 3.73% per annum and amounting to Baht 3,000 million with floating interest at 6M THBFIX plus constant rate per annum). The terms of principal repayment and interest repayment are specific schedule. The said long-term loans are unsecured.

The movement of long-term loans to related parties can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance	-	-	10,386,000,000	13,000,000,000
Cash flows:				
Additions during the year	-	-	359,511,000	165,000,000
Repayments during the year	-	-	(2,737,000,000)	(3,029,000,000)
Other non-cash movements:				
Unrealised gain (loss) on exchange rate	-	-	26,891,740	-
Reclassify from short-term loans	-	-	210,000,000	250,000,000
<u>Less</u> Current portion of long-term loans to related parties	-	-	(332,471,263)	(52,446,741)
Closing balance	-	-	7,912,931,477	10,333,553,259

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As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Interest receivable				
- Subsidiaries	-	-	414,999,921	221,714,145
	-	-	414,999,921	221,714,145
For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Interest income				
- Subsidiaries	-	-	363,569,970	412,449,407
	-	-	363,569,970	412,449,407

40.5 Short-term loans and long-term loans from related parties and related interests

Short-term loans

As at 31 December 2021, the Group had short-term loans from an associate amounting to Baht 225 million. The short-term loans bore fixed interest between 2.51% and 3.11% per annum (31 December 2020: None), and the Company had short-term loans from related parties amounting to Baht 5,273 million. The short-term loans bore fixed interest between 0.40% and 1.25% per annum. (31 December 2020 Baht 4,780 million with fixed interest between 0.45% and 3.60% per annum). The terms of principle repayment of all loans are at call. The said short-term loans are unsecured.

The movement of short-term loans from related parties can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance	-	-	4,779,903,740	2,536,710,000
Cash flows:				
Additions during the year	225,000,000	-	580,000,000	2,380,000,000
Repayments during the year	-	-	(87,193,740)	(136,806,260)
Closing balance	225,000,000	-	5,272,710,000	4,779,903,740

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Long-term loans

As at 31 December 2021, the Company had a long-term loan from a related party amounting to Baht 3,232 million. The short-term loan bore floating interest rate plus fixed margin per annum. The terms of principal repayment and interest repayment are specific schedule. The said long-term loan is unsecured

The movement of the long-term loan from a related party can be analysed as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance	-	-	-	-
Cash flows:				
Additions during the year	-	-	4,000,000,000	-
Repayments during the year	-	-	(768,000,000)	-
	-	-	3,232,000,000	-
<u>Less</u> Current portion of long-term loans from a related party	-	-	(816,000,000)	-
Closing balance	-	-	2,416,000,000	-

As at 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Interest payables				
- Subsidiaries	-	-	162,407,385	151,613,574
- Associates	1,169,458	-	-	-
	1,169,458	-	162,407,385	151,613,574

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Interest expenses				
- Subsidiaries	-	-	60,252,832	94,039,337
- Associates	1,169,458	-	-	-
	1,169,458	-	60,252,832	94,039,337

40.6 Advance receipts for land rental from related parties

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Opening balance	-	-	826,580,191	790,529,615
Increase during the year	-	-	93,543,741	93,200,902
Decrease during the year	-	-	(57,742,854)	(57,150,326)
	-	-	862,381,078	826,580,191
<u>Less</u> Current portion of advance receipts for land rental from related parties	-	-	(57,021,377)	(56,849,957)
Closing balance	-	-	805,359,701	769,730,234

40.7 Dividend income

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Dividend income from subsidiaries	-	-	2,816,357,289	3,871,536,709
	-	-	2,816,357,289	3,871,536,709

40.8 Key management compensation

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2021 Baht	2020 Baht	2021 Baht	2020 Baht
Short-term employee benefits	179,931,244	201,749,764	156,339,233	188,469,501
Post-retirement benefits	5,105,769	4,000,013	4,244,417	3,169,174
Total key management compensation	185,037,013	205,749,777	160,583,650	191,638,675

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41 Commitments and contingent liabilities

41.1 Capital expenditure obligations

Capital expenditure contracted as at the statement of financial position date but not recognised in the financial statements is as follows:

	Consolidated financial statements									
	2021					2020				
	Million Chinese Yuan	Million Japanese Yen	Million Taiwan Dollar	Million US Dollar	Million Baht	Million Chinese Yuan	Million Japanese Yen	Million Taiwan Dollar	Million US Dollar	Million Baht
Building and machine under installation	67	147	12	122	724	80	147	49	344	1,376
Project design consultant and other service fees	-	-	-	-	44	-	-	-	-	342
Research and development consultant fee	-	-	-	-	1	-	-	-	2	-
	67	147	12	122	769	80	147	49	346	1,718

	Separate financial statements	
	2021	2020
	Million Baht	Million Baht
Machine under installation	13	19

41.2 Service agreements commitments

The Group and the Company have non-cancellable service contracts are as follows:

	Consolidated financial statements							
	2021				2020			
	Million Euro	Million Taiwan Dollar	Million US Dollar	Million Baht	Million Euro	Million Taiwan Dollar	Million US Dollar	Million Baht
Payable within:								
Less than 1 year	2	2	5	118	4	2	5	39
More than 1 to 5 years	-	7	7	18	2	7	11	137
More than 5 years	-	28	-	19	-	29	-	398
	2	37	12	155	6	38	16	574

	Separate financial statements					
	2021			2020		
	Million Taiwan Dollar	Million US Dollar	Million Baht	Million Taiwan Dollar	Million US Dollar	Million Baht
Payable within:						
Less than 1 year	2	1	10	1	2	6
More than 1 to 5 years	6	-	11	-	7	1
More than 5 years	28	-	19	-	30	-
	36	1	40	1	39	7

41.3 Bank guarantee

As at 31 December 2021, the Group and the Company had outstanding letters of guarantee issued by government sector and private sector of Baht 460 million and Baht 4,065 million, respectively. (2020: Baht 318 million and Baht 4,050 million, respectively).

42 Events after the reporting period

- 42.1 At the Extraordinary Shareholders' meeting on 28 January 2022, the shareholders passed resolutions to approve the following matters:
- Issuance and offering convertible debentures at amount not exceeding Euro 900 million or equivalent amount in other currencies.
 - Increasing authorised share capital from Baht 373 million to Baht 402 million by issuing 290 million new ordinary shares with a par value of Baht 0.10 per share, totalling Baht 29 million. The Company registered for increasing the authorised share capital with the Department of Business Development after the reporting date.

- 42.2 On 1 February 2022, at the Board of Directors' meeting of the Company, the Board of Directors passed a resolution disposing all of its ordinary shares of EV Now Co., Ltd. to NEX Point Public Co., Ltd. which is an associate of the Company. The Group disposed 3,749,497 ordinary shares at Baht 7.58 per share, totalling Baht 28 million. The Group received the payment after the reporting date.
- 42.3 On 14 February 2022, the Company issued a non-interest bearing bill of exchange through a private placement to a group of investors not exceeding 10 persons amounting to Baht 1,500 million. The said bill of exchange was issued with a discount rate of 1.05% and shall be settled within the period no later than 13 May 2022.
- 42.4 At the Extraordinary Shareholders' meeting of EA Mobility Holding Co., Ltd. on 16 February 2022, the shareholders passed a resolution increasing the authorised share capital from Baht 3,348 million to Baht 6,848 million by issuing 350,000,000 new ordinary shares with a par value of Baht 10 per share, totalling Baht 3,500 million of which to further invest in another company. The Group entered into the share purchase agreement on 24 February 2022. However, the Group and the counterparty are in process of satisfying the conditions according to the share purchase agreement to complete the acquisition no later than 31 March 2022.



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