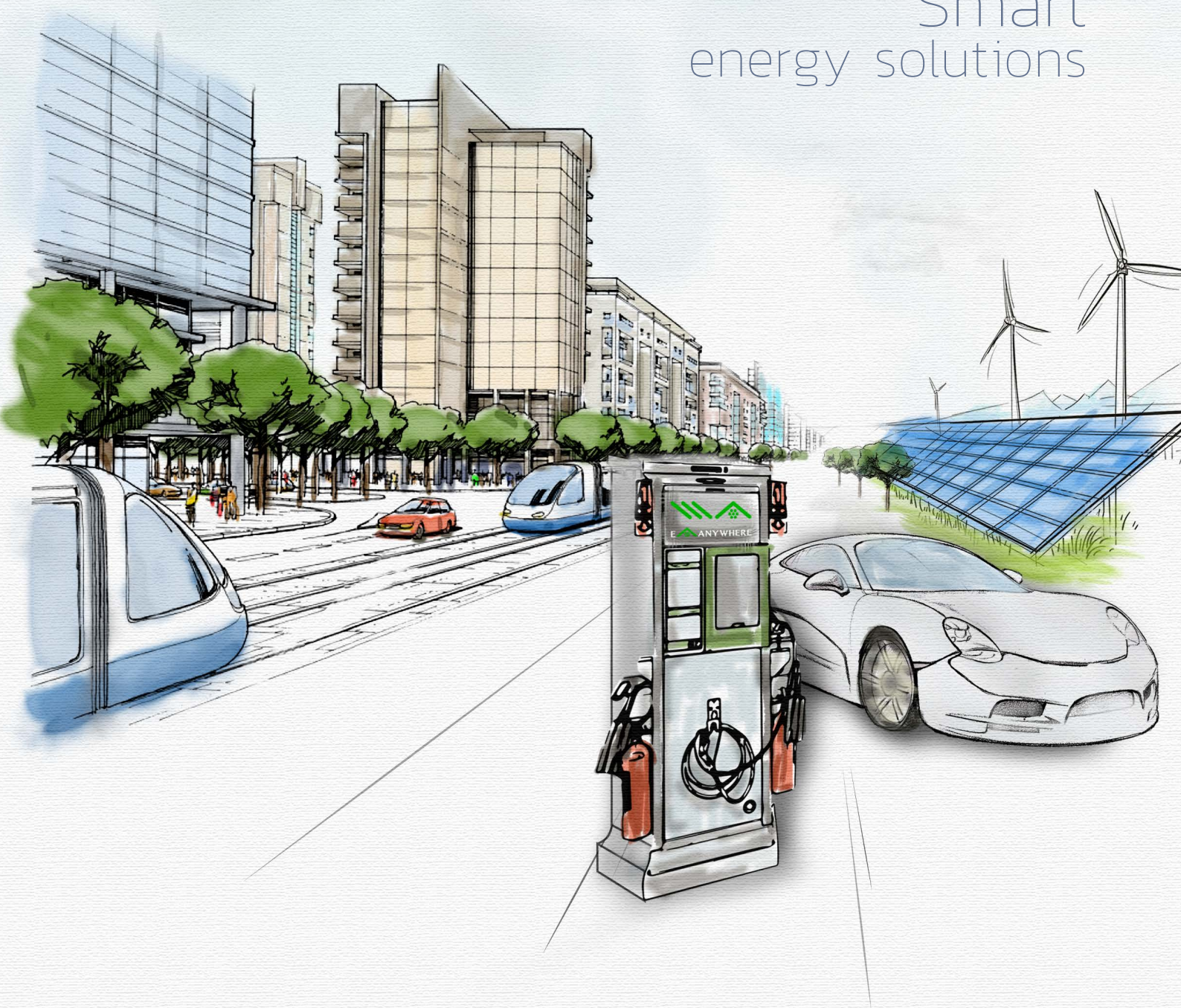


ENERGY ABSOLUTE PUBLIC COMPANY LIMITED
ANNUAL REPORT 2017



Smart
energy solutions



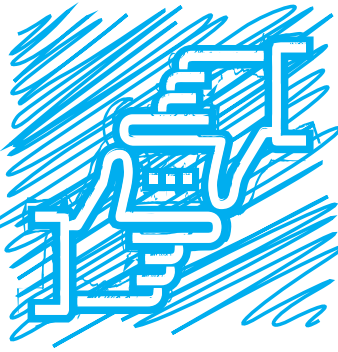
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Vision

To be a leader in the alternative energy business with use of an advanced and environmental friendly technology for the best benefit and fairness toward customers, shareholders, partners and employees

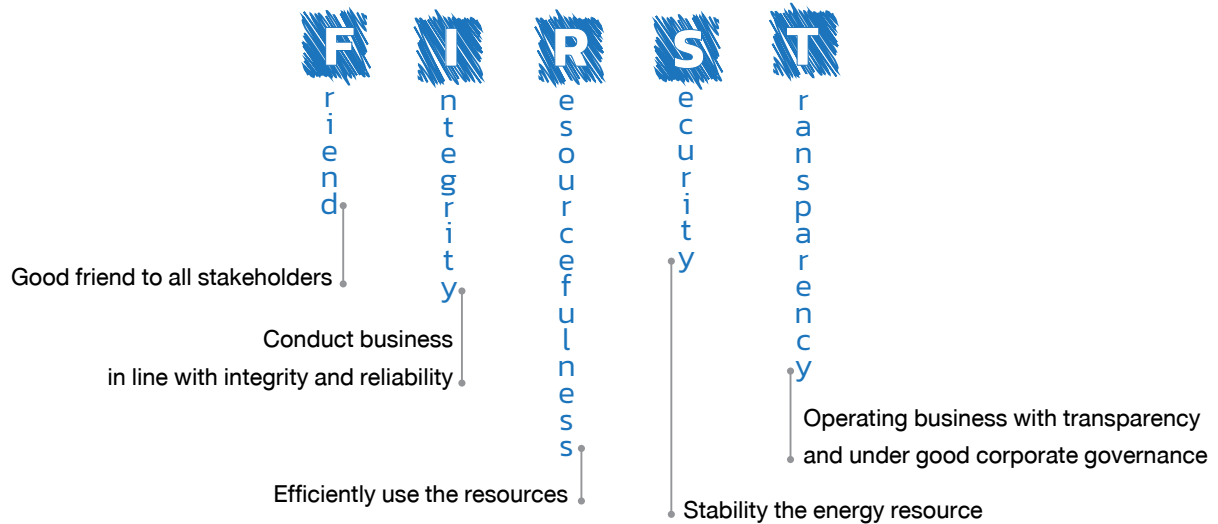


Mission



- To use advanced technology in order to increase production efficiency.
- To support using energy corps as well as natural energy in order to reduce pollution of the environment.
- To support government policies in regard to energy stability of the country.
- To conduct a business based on fairness, build confidence among partners and shareholders.
- To manage human resource for stable and sustainable growth.

Values



Message from Chairman



To all shareholders

On behalf of the Board, We are pleased to announce our successful business operation performance in year 2017. The business growth steadily, strong performance due to all projects are completed as timeline. The Company's group earned the total income of Baht 11,673.50 million with net profit of Baht 3,817.45 million or increased by 17.41% as compared to the year 2016. The revenues mainly comprise with 60.76% from electricity business and 38.43% from Biodiesel business.

Apart from all projects that completed within timeline, the Company's group also expanded business to charging station and battery industry which will be new opportunity and reflect to the demand of energy in future.

On the CSR front-end, the Company Group aim to develop the Company in parallel with community by approaching the opportunity for local communities as their alternative occupations, increase their income under the sustainable development and environmental friendly policy.

With regard to the current and future situation, the Company Group continues to conduct our business adhering to the policy to response and support the government policy on stability of the energy and production of electricity from alternative energy, while carrying on our existing corporate social responsibility.

According to the accomplishment of last year, all the success has resulted from the best effort and support of all executives as well as employees to contribute all dedication for the success and expansion of business. We are confident that the conducting business with transparency, consistent with the corporate governance and social responsibility will lead the Company Group to grow sustainability with social responsibility and make a fair return to all stakeholders.

On behalf of the Board of Directors, I would like to express my gratitude to all shareholders, customers, business partners, all public and private agencies, as well as all stakeholders for their continued confidence, trust and great support to the Company Group and hope to receive such great support and trust forever.

Sincerely yours,

A handwritten signature in green ink, appearing to read 'Somchainuk Engtrakul', with a stylized flourish at the end.

(Mr. Somchainuk Engtrakul)
Chairman of the Board



1. Mr. Somchainuk Engtrakul

- Chairman of the Board of Directors
- Independent Director

2. Mr. Somphote Ahunai

- Director (Authorized Signatory Director)
- Chairman of the Executive Committee
- Risk Management Committee
- CEO
- Acting Vice President
- Power Business Supervision Department

3. Mr. Amorn Saphaweekul

- Director (Authorized Signatory Director)
- Executive Committee
- Remuneration Committee
- Risk Management Committee
- Deputy CEO
- Acting Vice President - Quality Department
- Acting Vice President - Strategy Development
and Investment Planning Department



4. Mr. Wutthilerd Chiannilkulchai

- Director (Authorized Signatory Director)
- Executive Committee
- Risk Management Committee

6. Mr. Chaiwat Pongpisitsakul

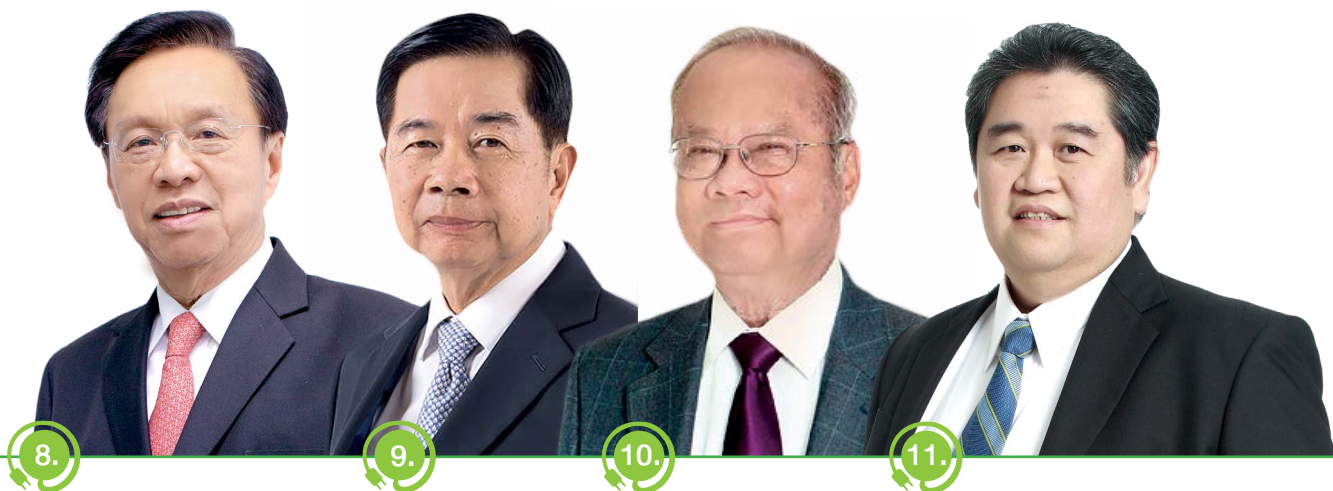
- Independent Director
- Audit Committee
- Chairman of Remuneration Committee
- Chairman of Corporate Governance Committee
- Nomination Committee

5. ACM Chainan Thumasujarit

- Independent Director
- Chairman of Audit Committee
- Chairman of Risk Management Committee
- Corporate Governance Committee
- Remuneration Committee
- Nomination Committee

7. M.R. Bravochat Chatchai

- Independent Director
- Audit Committee
- Chairman of Nomination Committee
- Risk Management Committee
- Corporate Governance Committee
- Remuneration Committee



8. POL. GEN. Phatcharavat Wongsuwan

- Independent Director
- Risk Management Committee

10. Mr. Sutham Songsiri

- Director
- Executive Committee
- Remuneration Committee
- Corporate Governance Committee

9. Mr. Amornsuk Noparumpa

- Independent Director

11. Mr. Somboon Ahunai

- Director
- Executive Committee

Profile of Board of Directors

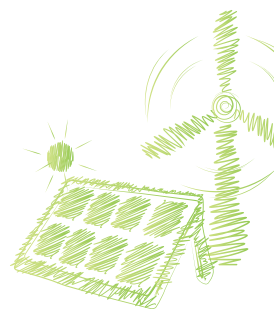
(Information as of 31st December 2017)

Mr. Somchainuk Engtrakul

73 years

Chairman of the Board of Directors

Date of Appointment as Director : 12 March 2008



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Ph.D. (Honorary Degree) in Public Administration from Sripatum University
- Bachelor of Laws from Sripatum University
- B.A. (Economics) from UPSALA College New Jersey, U.S.A.

Training

- The Role of Chairman Program Class 9/2006 held by Thai Institute of Directors (IOD)
- Directors Accreditation Program Class 98/2012 held by Thai Institute of Directors (IOD)
- Certificate from National Defence College of Thailand (Class 35)

Work Experience during 5 years

2008 - Present

Energy Absolute PCL (EA)

Chairman of the Board of Directors

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2008 - Present

Vejthani PCL

Chairman of the Board of Directors

- Hospital

2008 - Present

Siam Piwat Co.,Ltd.

Director

- Rent and Providing utility services

2004 - Present

Major Cineplex Group PCL

Chairman of the Board of Directors

Independent Director

- Core business in cinema, bowling, karaoke and retails space

2000 - Present

Siam Piwat Holding Co.,Ltd.

Director

- Investment in Bank institute and others

1995 - Present

Dhipaya Insurance PCL

Chairman of the Board of Directors

Chairman of the Executive Board of Directors

Chairman of the Independent Directors

- Operating Non-Life Insurance

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

2 listed companies, i.e.

1. Dhipaya Insurance PCL

Chairman of the Board of Directors

Chairman of the Executive Directors

Chairman of the Independent Directors

2. Major Cineplex Group PCL

Chairman of the Board of Directors

Independent Director

Other Non-Listed Company / Other Organization

3 companies, i.e.

1. Vejthani PCL

Chairman of the Board of Directors

2. Siam Piwat Holding Co.,Ltd.

Director

3. Siam Piwat Co.,Ltd.

Director

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 8/8 meetings

Mr. Somphote Ahunai

50 years

Director (Authorized Signatory)

Chairman of Executive Committee

Risk Management Committee

Chief Executive Officer

Acting Vice President – Power Business Supervision Department

Date of appointment as Director : 12 March 2008



Details of Share held in the Company

(include share held by spouse / minor child / custodian)

- No. of Share held as of the year end 2016 :

Total Shares	: 1,524,143,793 shares (40.86%)
Held by himself	: 869,160,186 shares (23.30%)
Held by trustee	: 630,000,000 shares (16.89%)
Held by spouse	: 24,983,607 shares (0.67%)

- No. of Share held as of the year end 2017 :

Total Shares	: 1,524,143,793 shares (40.86%)
Held by himself	: 869,160,186 shares (23.30%)
Held by trustee	: 630,000,000 shares (16.89%)
(Please refer to “Securities and Shareholders Information”)	
Held by spouse	: 24,983,607 shares (0.67%)

- Share Increase / (decrease) during the year : - Nil-

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2009 – Present

Watabak Wind Co., Ltd

Director

- Energy generation and distribution

Education / Training

Education

- MBA from University of Pittsburgh, USA
- Bachelor of Engineering from Chulalongkorn University

Training

- Director Accreditation Program class 60/2006 held by Thai Institute of Directors (IOD)
- Executive Management with Business Development and Investment, Class 2, held by Institute of Business and Industrial Development (IBID)
- ULTRA WEAL TH - INVEST LIKE A MASTER class 1 held by The Economic Association Chulalongkorn University
- Executive Program in Energy Literacy for a Sustainable Future (TEA), Class9, held by Thailand Energy Academy

Work Experience during 5 years

Present

Energy Absolute PCL. (EA)

Director (2008 – Present)

Chairman of Executive Committee (2008 – Present)

Risk Management Committee (2014 – Present)

Chief Executive Officer (2009 – Present)

Acting Vice President (2015 – Present)

– Power Business Supervision Department

2012 – 2014

Acting Chief Marketing Officer

2011 - 2013

Vice President (Factory)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

1 company, i.e. Watabak Wind Co., Ltd - Director

Subsidiary of EA

21 subsidiaries

(Subsidiaries No. 1-5, 8-22 and 27 of juristic person which the company holds shares from 10% up in this report)

Family relationship with other Directors and Management

- Younger Brother of Mr. Somboon Ahunai (Director)

- Elder Brother of Ms. Supaporn Ahunai

(Vice President - Finance Department)

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 7/8 meetings

Executive Committee Meeting : 9/12 meetings

Risk Management Committee Meeting : 6/6 meetings

Mr. Amorn Saphaweekul

43 years

Director (Authorized Signatory Director)

Executive Committee

Remuneration Committee

Risk Management Committee

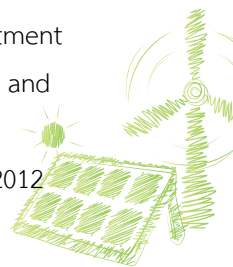
Deputy CEO

Acting Vice President – Quality Control Department

Acting Vice President – Strategy Development and

Investment Planning Department

Date of appointment as Director : 30 March 2012



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 :

Total Shares : 119,101,103 shares (3.20%)

Held by himself : 96,868,316 shares (2.60%)

Held by spouse : 22,232,787 shares (0.60%)

- No. of Share held as of the year end 2017 :

Total Shares : 119,101,103 shares (3.20 %)

Held by himself : 96,868,316 shares (2.59 %)

Held by spouse : 22,232,787 shares (0.60%)

- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Science from Chulalongkorn University
- Bachelor of Business Administration (Finance and Banking) from Thammasat University

Training

- Director Accreditation Program Class 98/2012 held by Thai Institute of Directors (IOD)
- Executive Management with Business Development and Investment, Class 3, held by Institute of Business and Industrial Development (IBID)

Work Experience during 5 years

Present

Energy Absolute PCL. (EA)

Director (2012 – Present)

Executive Committee (2012 – Present)

Remuneration Committee (2014 - Present)

Risk Management Committee (2014 - Present)

Deputy CEO (2014 - Present)

Acting Vice President

Quality Control Department (2015 – Present)

Acting Vice President

Strategy Development and Investment Planning Department (2015 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Present

Watabak Wind Co., Ltd.

Director

- Energy generation and distribution

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

1 company, i.e. Watabak Wind Co., Ltd - Director

Subsidiary of EA

22 subsidiaries

(Subsidiaries No.1-4, 6, 8-21, 24, 25 and 27 of juristic person which the company is holding shares from 10% up in this report)

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 6/8 meetings

Executive Committee Meeting : 10/12 meetings

Remuneration Committee Meeting : 2/3 meetings

Risk Management Committee Meeting : 6/6 meetings

Mr. Wutthilerd Chiannilkulchai

47 years

Director (Authorized Signatory Director)

Executive Committee

Risk Management Committee

Date of appointment as Director : 12 March 2008



Details of Share held in the Company

(include share held by spouse and minor child)

- **No. of Share held as of the year end 2016 :**
 - Total Shares** : 16,032,849 shares (0.43%)
 - Held by himself : 16,032,849 shares (0.43%)
 - Held by spouse : -Nil-
- **No. of Share held as of the year end 2017 :**
 - Total Shares** : 16,032,849 shares (0.43 %)
 - Held by himself : 16,032,849 shares (0.43 %)
 - Held by spouse : -Nil-
- **Share Increase / (decrease) during the year : -Nil-**

Education / Training

Education

- Master of Science Major Computer and Engineering Management from Assumption University
- Bachelor of Accountings from Chulalongkorn University

Training

- Director Accreditation Program class 71/2008 held by Thai Institute of Directors (IOD)

Work Experience during 5 years

Present

Energy Absolute PCL.(EA)

Director (2008 – Present)

Executive Committee (2008 – Present)

- Risk Management Committee (2014 – Present)
- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2004 - Present

Perfect Oil Co., Ltd.

Director

Wholesale of fuel oil

2001 - Present

Power 10 Co., Ltd.

Director

- Wholesale of fuel oil

Double 10 Co., Ltd.

Director

- Wholesale of fuel oil

Famous 10 Co., Ltd.

Director

- Wholesale of fuel oil

Mitsiamoil Co.,Ltd.

Director

- Wholesale of Petroleum Products

1995 - Present

Chalee Trading Co., Ltd.

Director

- Wholesale of fuel oil

Ma Jarearn Co., Ltd.

Director

- Wholesale of fuel oil

Sueb Nueng Karn Kha Co., Ltd.

Director

- Wholesale of fuel oil

Two Plus One Oil Co., Ltd.

Director

- Wholesale of fuel oil

1994 – Present

Malee Oil Co., Ltd.

Director

- Wholesale of fuel oil

C.C. Oil Co., Ltd.

Director

- Wholesale of fuel oil

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

11 companies : hold Director position of the following companies:

Perfect Oil Co., Ltd. / Power 10 Co., Ltd. / Double 10 Co., Ltd. / Famous 10 Co., Ltd. / Chalee Trading Co., Ltd. / Ma Jarearn Co., Ltd. / Sueb Nueng Karn Kha Co., Ltd. / Two Plus One Oil Co., Ltd. / Malee Oil Co., Ltd. / C.C. Oil Co., Ltd. / Mitsiamail Co., Ltd.

Subsidiary of EA

17 subsidiaries

(Subsidiaries No. 2, 4, 7-9, 12-21, 23 and 26 of “juristic person which the company holds shares from 10% up in”)

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 6/8 meetings

Executive Committee Meeting : 10/12 meetings

Risk Management Committee Meeting : 4/6 meetings

Mr. Sutham Songsiri

79 years

Director

Executive Committee

Remuneration Committee

Corporate Governance Committee

Date of appointment as Director : 12 March 2008



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 :

Total Shares : 1,900,000 shares (0.050%)

Held by himself : 1,900,000 shares (0.050%)

Held by spouse : -Nil-

- No. of Share held as of the year end 2017 :

Total Shares : 1,750,000 shares (0.047%)

Held by himself : 1,750,000 shares (0.047%)

Held by spouse : -Nil-

- Share Increase / (decrease)

during the year : (150,000 shares) (0.004%)

In portion of himself : (150,000 shares) (0.004%)

In portion of spouse : -Nil-

- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

7 subsidiaries

(Subsidiaries No. 4, 8 and 17-21 of “juristic person which the company holds shares from 10% up” in the report)

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting	: 7/8 meetings
Executive Committee Meeting	: 10/12 meetings
Remuneration Committee Meeting	: 3/3 meetings
Corporate Governance Committee Meeting	: 4/4 meetings

Education / Training

Education

- Master of Economics from San Francisco State University
- Bachelor of Economics from Lincoln University
- Change Management Course at M. I. T. USA, 2009
- Strategy Formulation and Execution at Columbia University, USA, 2010
- Kaplan -Norton Master Class to Mastering New Management System. Boston, USA, 2010

Training

- Directors Certification Program class 97/2007 held by Thai Institute of Directors (IOD)
- The Role of Chairman Program class 22/2009 held by Thai Institute of Directors (IOD)
- Role of the Nomination and Governance Committee class 1/2001 held by Thai Institute of Directors (IOD)

Work Experience during 5 years

Present

Energy Absolute PCL.(EA)

Director (2008 – Present)

Executive Committee (2008 – Present)

Remuneration Committee (2014 – Present)

Corporate Governance Committee (2015 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)

ACM. Chainan Thumasujarit

67 years

Independent Director

Chairman of Audit Committee

Chairman of Risk Management Committee

Remuneration Committee

Nomination Committee

Corporate Governance Committee

Date of appointment as Director : 7 August 2012



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Bachelor of Engineering (the 2nd Class Honors) from Chulalongkorn University
- Bachelor of Arts in Political Science from Ramkhamhaeng University
- Bachelor of Business Administration (General Managements) from Ramkhamhaeng University
- Bachelor of Business Administration (General Managements) (the 1st Class Honors) from Sukhothai Thammathirat Open University
- Thailand National Defence College Group (B.E. 2546)
- Royal Thai Navy Staff College from Institute of Advanced Naval Studies
- M. Eng. Asian Institute of Technology (A.I.T.)
- D. Eng. (Candidate) Asian Institute of Technology (A.I.T.)

Training

- Director Accreditation Program class 67/2007 held by Thai Institute of Directors (IOD)
- Audit Committee Program class 22/2008 held by Thai Institute of Directors (IOD)
- Monitoring of the Quality of Financial Reporting class 16/2012 held by Thai Institute of Directors (IOD)
- Seminar 'Drafting, Negotiating & Managing' Successful Construction Contracts Summit 2015 held by Omega World Class Research Institute
- AC HOT UPDATE – Prepare for Next Generation CG for Sustainability held by Federation of Accounting Professions Under The Royal Patronage of His Majesty The King

Work Experience during 5 years

Present

Energy Absolute PCL. (EA)

Independent Director (2012 – Present)

Chairman of Audit Committee (2014 – Present)

(Audit Committee 2012 – Present)

Chairman of Risk Management Committee

(2014-Present)

Nomination Committee (2014 – Present)

Corporate Governance Committee (2015 – Present)

Remuneration Committee (10 Aug 2016 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2007 - Present

Hydrotek PCL

Chairman of Audit Committee

Chairman of Nomination and Remuneration Committee

Independent Director

- Operating the construction and environmental engineering management business as follows;
 1. Water Treatment Plant
 2. Wastewater Treatment Plant
 3. Solid Waste Treatment Plant
 4. Waste to Energy

Present

Office of the Permanent Secretary for Defence

Retired Government Official (2006 – Present)

Freelance Structural Engineer (1974 – Present)

- Government Organization

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA/Other Listed Company

1 company, i.e. Hydrotek PCL

Chairman of Audit Committee

Chairman of Nomination and Remuneration Committee

Independent Director

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting	: 8/8 meetings
Audit Committee Meeting	: 12/12 meetings
Remuneration Committee Meeting	: 3/3 meetings
Nomination Committee Meeting	: 5/5 meetings
Corporate Governance Committee Meeting	: 4/4 meetings
Risk Management Committee Meeting	: 6/6 meetings

Mr. Chaiwat Pongpisitsakul

71 years

Independent Director

Audit Committee (who has accounting knowledge and experience to review creditability of financial statements)

Chairman of Corporate Governance Committee

Chairman of Remuneration Committee

Nomination Committee

Date of appointment as Director : 12 March 2008



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : Nil-
- No. of Share held as of the year end 2017 : Nil-
- Share Increase / (decrease) during the year : Nil-

Education / Training

Education

- Master of Public Administration from The National Institute of Development Administration (NIDA)
- Bachelor of Accounting and Laws from Thammasat University

Training

- Director Accreditation Program Class 32/2005 held by Thai Institute of Directors (IOD)
- Audit Committee Program Class 41/2012 held by Thai Institute of Directors (IOD)
- Seminar 'Drafting, Negotiating & Managing' Successful Construction Contracts Summit 2015 held by Omega World Class Research Institute
- The UK Experience on Implementing the Enhanced Auditor Reporting held by Securities and Exchange Commission (SEC).
- AC HOT UPDATE Course: Prepare for Next Generation CG for Sustainability held by Federation of Accounting Professions Under The Royal Patronage of His Majesty The King
- Board Nomination & Compensation Program Class 1/2017 held by Thai Institute of Directors (IOD)

Work Experience during 5 years

Present

Energy Absolute PCL.(EA)

Independent Director (2008 – Present)

Audit Committee (12 Mar 2014 – Present)

(Audit Committee who has accounting knowledge and experience to review creditability of financial statements)

(Chairman of Audit Committee : 2008 – 11 March 2014)

Chairman of Remuneration Committee (2016 – Present)

(Remuneration Committee : 2014 - 7 Dec 2016)

Nomination Committee (2014 – Present)

Chairman of Corporate Governance Committee (2015 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2009 – Present

Chaiwat Auditing Office

Manager / Auditor

- Provide auditing service

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting	: 8/8 meetings
Audit Committee Meeting	: 12/12 meetings
Remuneration Committee Meeting	: 3/3 meetings
Nomination Committee Meeting	: 5/5 meetings
Corporate Governance Committee Meeting	: 4/4 meetings

M.R. Bravochat Chatchai

57 years

Independent Director

Audit Committee

Chairman of Nomination Committee

Risk Management Committee

Corporate Governance Committee

Remuneration Committee

Date of appointment as Director : 26 November 2010



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Arts from Pranakhon Pajabhat University
- Bachelor of Laws from Ramkhamhaeng University

Training

- Director Accreditation Program Class 98/2012 held by Thai Institute of Directors (IOD)
- Audit Committee Program Class 41/2012 held by Thai Institute of Directors (IOD)
- Role of Nomination and Governance Committee – RNG Class 7/2015 held by Thai Institute of Director (IOD)
- AC HOT UPDATE: Prepare for Next Generation CG for Sustainability held by Federation of Accounting Professions Under The Royal Patronage of His Majesty The King

Work Experience during 5 years

Present

Energy Absolute PCL. (EA)

Independent Director (2010 – Present)

Audit Committee (2010 – Present)

Chairman of Nomination Committee (2014 – Present)

Risk Management Committee (2014 – Present)

Corporate Governance Committee (2015 – Present)

Remuneration Committee (10 Aug 2016 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

1999 - Present

M.R. Bravochat Laws Office

Director

- Providing Legal consultant

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting	:8/8 meetings
Audit Committee Meeting	:12/12 meetings
Remuneration Committee Meeting	:3/3 meetings
Nomination Committee Meeting	:5/5 meetings
Corporate Governance Committee Meeting	:4/4 meetings
Risk Management Committee Meeting	:5/6 meetings

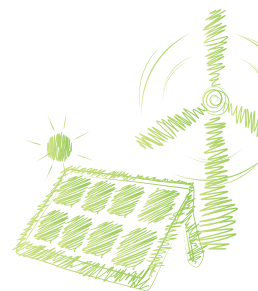
Pol.Gen. Phatcharavat Wongsuwan

68 years

Independent Director

Risk Management Committee

Date of appointment as Director : 18 April 2014



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016

Total Shares : 1,140,000 shares (0.03%)

Held by himself : 1,140,000 shares (0.03%)

Held by spouse : -Nil-

- No. of Share held as of the year end 2017

Total Shares : 1,140,000 shares (0.03 %)

Held by himself : 1,140,000 shares (0.03%)

Held by spouse : -Nil-

- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Arts from Kasetsart University
- Royal Police Cadet Academy
- Armed Forces Academies Preparatory School
- St. Gabriel's College

Training

-Nil-

Work Experience during 5 years

Present

Energy Absolute PCL.(EA)

Independent Director (2014 – Present)

Risk Management Committee (2014 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2013 – Present

CP ALL PCL

Independent Director

- Convenient Store under the trademark of 7-Eleven and Entitle other retailers to operate business in Thailand, Invest in supporting business.
- Convenient Store Business including investment in wholesaler store business with cash payment and self-service style under the name of "Makro"

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

1 company, i.e. CP ALL PCL - Independent Director

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

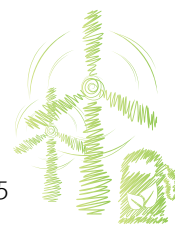
Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : -/8 meetings

Risk Management Committee Meeting : -/6 meetings



Mr. Somboon Ahunai

62 years

Director

Executive Committee

Date of appointment as Director : 22 April 2015

Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016

Total Shares : 10,063,951 shares (0.27%)

Held by himself : 10,063,951 shares (0.27%)

Held by spouse : -Nil-

- No. of Share held as of the year end 2017

Total Shares : 9,813,951 shares (0.26 %)

Held by himself : 9,813,951 shares (0.26 %)

Held by spouse : -Nil-

- Share Increase / (decrease) during the year

Total Shares : (250,000 shares) (0.007 %)

In portion of himself : (250,000 shares) (0.007 %)

In portion of spouse : -Nil-

Education / Training

Education

- Master of Business Jacksonville State University
- Bachelor of Science in Chemical Engineering (Cum Laude) from University of Alabama

Training

- Directors Accreditation Program (DAP) Class 47/2005 held by Thai Institute of Directors (IOD)
- Audit Committee Program (ACP) Class 12/2006 held by Thai Institute of Directors (IOD)

Work Experience during 5 years

Present

Energy Absolute PCL.(EA)

Executive Committee (2017 – Present)

Director (2015 – Present)

Advisor (2011 – Present)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2004 - 2015

Small and Medium Enterprise

Development Bank of Thailand

Executive Vice President (Director)

- Bank

Present

Ruammit Panich Co., Ltd.

Director (Authorized Signatory Director)

- Hotel, Resort and Apartment

Present

Songphon Co., Ltd.

Director (Authorized Signatory Director)

- Real Estate

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

2 Companies, i.e.

1. Ruammit Panich Co., Ltd. - Director (Authorized Signatory Director)
2. Songphon Co., Ltd. - Director (Authorized Signatory Director)

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

- Elder brother of Mr. Somphote Ahunai (Director, Chairman of Executive Committee, Risk Management Committee, and CEO)
- Elder brother of Ms. Supaporn Ahunai (Vice President - Finance Department)

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 6/8 meetings

Executive Committee Meeting : 7/10 meetings

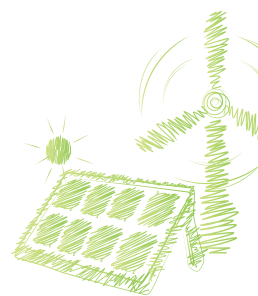
(being appointed 23 February 2017)

Mr. Amornsukl Noparumpa

71 years

Independent Director

Date of appointment as Director : 27 April 2017



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of 27 April 2017 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Bachelor of Law (the 2nd Class Honors), Thammasat University
- Barrister-at-Law, Concil of Legal Education, Thailand
- Barrister-at-Law, Lincoln's Inn, London
- Diploma, National Defence College Class 399

Training

- Director Certification Program (DCP) Class 30/2003 held by Thai Institute of Directors (IOD)
- Audit Committee Program (ACP) Class 23/2008 held by Thai Institute of Directors (IOD)
- Role of Compensation Committee Program Class 9/2009 held by Thai Institute of Directors (IOD)
- Role of the Chairman Program (RCP) Class 36/2015 held by Thai Institute of Directors (IOD)
- Security Psychology Program, Class 31
- Senior Management Program, Class 7

Work Experience during 5 years

27 April 2017 - Present

Energy Absolute PCL. (EA)

Director

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2005 - Present

L.P.N. Development PCL.

Chairman of the Board of Directors and Independent Director

- Real Estate Developer Business in integrated sale and rent style

2010 - Present

Thai Airways International PCL.

Advisor of Executive Committee

- Airline Business

1998 - Present

Regional Container Lines PCL.

Independent Director

Chairman of the Audit Committee

Nomination

and Remuneration Committee Member

- Thai-based container shipping line

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

2 Company, i.e.

1. L.P.N. Development PCL. – Chairman of the Board of Directors, Independent Director
2. Regional container Lines PCL. – Independent Director / Chairman of the Audit Committee / Nomination and Remuneration Committee

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : 6/6 meetings

(being appointed by the Meeting of the AGM of Shareholders of the year on 27 April 2017)

Director ceased from the position during the year

Mr. Kasidit Ajanant

37 years

Director

Date of ceasing from the position : 27 April 2017

Date of appointment as Director : 10 August 2016



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of 27 April 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Civil Engineering Stanford University, USA
- Bachelor of Civil Engineering Brigham Young University, USA

Training

- Nil -

Family relationship with other Directors and Management

- Nil -

Number of Attendance / Total meeting held in the year 2017

Board of Directors Meeting : -/2 meetings

(Retired by rotation from position as the Director of the Company with effective on 27 April 2017 according to the resolutions of AGM 2017)

Details of Executives

(As of 31 December 2017)

1. Mr. Somphote Ahunai (Refer profile from “Profiles of Directors” Page 10)
2. Mr. Amorn Saphaweekul (Refer profile from “Profile of Directors”, Page 11)

Mrs. Dujdao Luksanaviwat

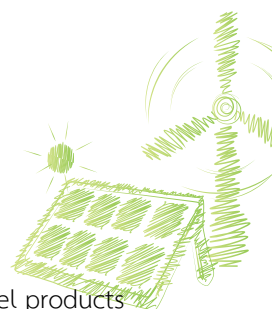
48 years

Special Assistant to CEO

Vice President – ISO Quality,

Health Safety and Environment Department

Date of appointment: 16 February 2010



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil
- No. of Share held as of the year end 2017 : -Nil
- Share Increase / (decrease) during the year : -Nil

Education / Training

Education

- Master of Business Administration, Khon Kaen University
- Certificate “Human Resource and Organization Development” from the National Institute of Development Administration (NIDA)

Training

- The Business & Leadership Management Program from Bangor University, UK
- “Knowledge-Based Economy in the 21st Century” from Llandrillo Menai International, UK

Work Experience during 5 years

Present

Energy Absolute PCL (EA)

Special Assistant to CEO (2014 - Present)

Vice President – ISO Quality, Health Safety and Environment Department (2015 - Present)

1 June 2016 – 30 May 2017

Acting Vice President – Human Resource and Administration Department (1 June 2016 – Present)

2012 - 22 Feb. 2017

Executive Committee Director

2014 - 2015

Deputy GM (Factory)

2010 - 2013

Vice President – Human Resource and Administrations Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Mr. Borvorn Pienpongpanich

49 years

Head of Accounting and Finance Subdivision

Date of appointment: 1 February 2017



Details of Share held in the Company (include share held by spouse and minor child)

- No. of Share held as of 1 February 2017 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil

Education / Training

Education

- MBA, University of Central Oklahoma, USA
- Bachelor of Business Administration, Major: Marketing, University of the Thai Chamber of Commerce

Training

- TLCA Executive Development Program (EDP), Class 5
- Directors Certification Program, Class 116/2015, held by Thai Institute of Directors
- Chief Financial Officer Certification Program, Class 19/2015 held by Federation of Accounting Professions under Royal Patronage
- Strategic Financial Leadership Program (SFLP) held by Thai Listed Companies Association

Work Experience during 5 years

2017 - Present

Energy Absolute PCL (EA)

Head of Accounting and Finance Subdivision

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2016 - 2017

National Power Supply PCL

Head of Accounting and Finance Subdivision

- Manufacturing and distributing electricity

2015-2016

Zen Corporation Group Co., Ltd.

Deputy Chief Financial Officer

- Japanese Restaurant Business

2006-2015

Premier Fission Capital Co., Ltd

Director of Fund Raising & Financial

Restructuring Department

- Holding Company

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

-Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

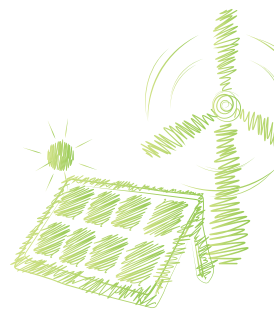
-Nil-

Miss Supaporn Ahunai

41 years

Vice President – Finance Department

Date of Appointment: 1 January 2008



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016

Total shares : 23,197,049 shares (0.622%)

Held by herself : 23,197,049 shares (0.622%)

Held by spouse : - Nil -

- No. of Share held as of the year end 2017

Total shares : 24,197,049 shares (0.649%)

Held by herself : 24,197,049 (0.649%)

Held by spouse : - Nil -

- Share Increase / (decrease) during the year :

in portion of herself : 1,000,000 shares (0.027%)

Held by herself : (1,000,000 shares) (0.027%)

in portion of spouse : - Nil -

Education / Training

Education

- Master of Science Information System, the Pennsylvania State University
- Bachelor's degree from faculty of Commerce and Accountancy, Thammasat University

Training

- Directors Certification Program 71/2008 held by Thai Institute of Directors (IOD)
- Investment Consultant Program, held by SEC
- Expertised Investor, Class 15 held by Thai Investors Association

Work Experience during 5 years

2008 - Present

Energy Absolute PCL (EA)

Vice President – Finance Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

1 company ,i.e.,Energy Solution Management Co.,Ltd.

- Director

Family relationship with other Directors and Management

- Younger sister of Mr. Somphote Ahunai (Director, Chairman of Executive Committee, Risk Management Committee and CEO)
- Younger sister of Mr. Somboon Ahunai (Director, Executive Committee)

Mr. Weerasil Sattayapakdeewong

36 years

Vice President – Accounting Department

Date of Appointment: 1 May 2012



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase (decrease) during the year : -Nil-

Education / Training

Education

- Master of Accounting, Chulalongkorn University
- Bachelor of Business Administration (Accounting) from Ramkhamhaeng University

Training

- Strategic CFO in Capital Markets Program held by Stock Exchange of Thailand
- New Auditor's Report year 2016 held by Federation of Accounting Professions

Work Experience during 5 years

2012 - Present

Energy Absolute PCL (EA)

Vice President – Accounting Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

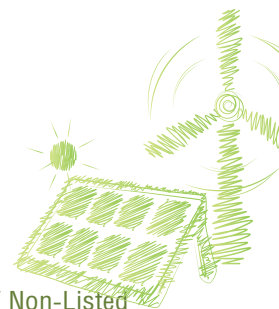
-Nil-

Mr. Patipat Sakdawongsiwimol

44 years

Vice President – Sales and Marketing Department

Date of Appointment: 16 August 2012



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Business Administration, Khon Kaen University
- Bachelor of Science in Biology Mahidol University

Training

-Nil-

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Work Experience during 5 years

2012 - Present

Energy Absolute PCL (EA)

Vice President – Sales and Marketing Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2000 - 2012

PTT Polymer Marketing Co., Ltd.

Product Manager

- Distribution of Polymer products

Miss Yaowalug Pukpikul

50 years

Corporate Secretary

Secretary of the Board of Directors

Secretary of the Executive Committee

Secretary of the Risk Management Committee

Secretary of the Corporate Governance Committee

Vice President – Corporate Secretary,

Compliance and Contract Management Department

Date of Appointment: 14 November 2013



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase (decrease) during the year : -Nil-

2011-2012

Thai Beverage PCL

Manager - Office of Corporate Secretariat
(Compliance, Share registrar and Foreign affairs)

- Holding Company

Education / Training

Education

- Bachelor of Laws, Thammasat University
- Certificate “Merchant Marine Management” from Chulalongkorn University
- Certificate “Marine Insurance” from Singapore National Shipping Association, Republic of Singapore

Training

- Company Secretary Program (CSP) Class 56/2014 held by Thai Institute of Directors (IOD)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed CompanyOther Non-Listed Company / Other

-Nil-

Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Work Experience during 5 years

Present

Energy Absolute PCL (EA)

Corporate Secretary (2013 – Present)

Secretary of the Board of Director (2013 - Present)

Secretary of Executive Director Committee
(2013 – Present)

Secretary of Risk Management Committee
(2014 – Present)

Secretary of Corporate Governance Committee
(2015 – Present)

Vice President – Corporate Secretary, Compliance
and Contract Management Department
(2015 – Present)

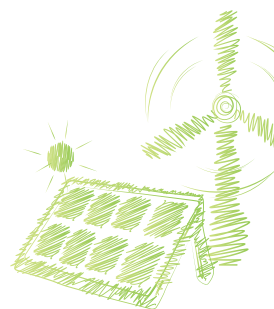
- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Miss Omsin Siri

50 years

Vice President – Corporate Communication Department

Date of Appointment : 1 September 2014



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Business Administration, Chulalongkorn University
- Bachelor of Accountancy, Chulalongkorn University

Training

- Directors Certification Program class 140/2011 held by Thai Institute of Directors (IOD)
- Capital Market Academy, Class 2 held by Capital Market Academy (CMA)
- TLCA Executive Development Program (EDP), Class 5 held by Thai Listed Companies Association

2013 - 2014

SPCG PCL

Director, Deputy Chief Executive Office

- Holding Company (Energy)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Work Experience during 5 years

Present

Energy Absolute PCL (EA)

Vice President – Corporate Communication Department
(2016– Present)

2014 - 8 Dec. 2016

Secretary of Remuneration Committee

2014 - 1 Jun. 2016

Vice President – Human Resource and Administration Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Mr. Pramote Lertpiyayowong

60 years

Vice President – Factory Department (Production Division)

Acting Vice President – Factory Department (Engineering Division)

Date of Appointment: 13 July 2015



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Bachelor of Engineering (Department of Electrical Engineering) from King Monkut's University of Technology

Training

-Nil-

Work Experience during 5 years

Present

Energy Absolute PCL (EA)

Vice President – Factory Department

(Production Division) (2017 – Present)

Acting Vice President – Factory Department

(Production Division) (2017 – Present)

2015 - 30 Sep.2016

Deputy Vice President – Factory Department
(Engineering Division)

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2010 - 2015

B.N. Brothers Co., Ltd.

Division Manager – Production / Engineering Division

- Manufacturing and distributing of color paints

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

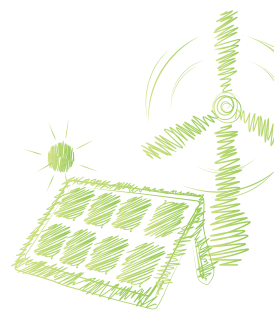
-Nil-

Miss Wimolmas Wongmakornpan

37 years

Vice President – Social Enterprise Department

Date of Appointment: 1 June 2016



Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016

Total shares : 45,600 shares
Held by herself : 45,000 shares (0.001 %)
Held by spouse : -Nil-

- No. of Share held as of the year end 2017

Total shares : 27,600 shares
Held by herself : 27,600 shares
Held by spouse : -Nil-

- Share Increase / (decrease) during the year

Total shares : (18,000 shares)
in portion of herself : (18,000 shares)
in portion of spouse : -Nil -

Education / Training

Education

- International MBA, Asian Institute of Technology, Thailand
- Master in Management Science, ESCP-EAP, France

Training

- Strategic CFO in Capital Markets Program held by Stock Exchange of Thailand

Work Experience during 5 years

Present

Energy Absolute PCL (EA)

Vice President – Social Enterprise Department
(2016 – Present)

6 Aug 2012 - 30 May 2016

Deputy Vice President - Strategy Development and Investment Planning

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-



Mr. Manop Oulansiripong

49 years

Vice President – Information Technology and System Development Department

Date of Appointment: 1 November 2016

Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of the year end 2016 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Electronic Engineering, Sripatum University, Thailand

Training

-Nil-

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

-Nil-

Work Experience during 5 years

Nov. 2016 - Present

Energy Absolute PCL (EA)

Vice President – Information Technology and System Development Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2013 - Oct. 2016

CIMB Thai Bank PCL.

Head of Technology Management and Support Department

- Bank

2011-2013

Credit Agricole CIB, Bangkok Branch, Thailand

Head of Information Technology Department

- Bank

Miss Porntip Saengchan

49 years

Vice President, Human Resource and Administration Department

Date of Appointment: 1 June 2017

Details of Share held in the Company

(include share held by spouse and minor child)

- No. of Share held as of 1 June 2017 : -Nil-
- No. of Share held as of the year end 2017 : -Nil-
- Share Increase / (decrease) during the year : -Nil-

Education / Training

Education

- Master of Education Program in Educational Measurement and Evaluation, Srinakharinwirot University
- Bachelor of Education Program in Mathematics, Srinakharinwirot University

Training

- Leadership Development Program held by Slingshot Group Co., Ltd
- 7 Habits of Highly Effective People held by PacRim Group
- The 4 Discipline of Execution (4DX) held by PacRim Group
- Coaching & Feedback for the highest performance held by P&P Consultants Co.,Ltd.

Work Experience during 5 years

June 2017 – Present

Energy Absolute PCL (EA)

Vice President

Human Resource and Administration Department

- Manufacturing and distributing Biodiesel products (B100), Pure glycerin and byproduct
- Generating and distributing electricity from Renewable Energy (via subsidiaries)
- Development and Manufacturing of Battery (via subsidiaries)
- EV Charging Stations and Electronic Transaction (via subsidiaries)
- Research and Development Business (via subsidiaries)

2015 - 2017

Premier Group

Vice President

Human Resource Potentiality Management Department

- Manufacturing and Distributing consumer products, Environmental Management Business, Real Estate and Hotel Group Business, Financial Service Business

2013-2015

Thai City Electric Co., Ltd.

Executive

Human Resource Department

- Distributor of Electrical Appliances

2010-2013

Government Pension Fund (Thailand)

Vice President and Executive

of Human Resource Department

- Fund established under the Government Pension Fund Act B.E. 2539 (1996).

Directorship held in other Listed Company / Non-Listed Company / Subsidiary of EA

Other Listed Company

-Nil-

Other Non-Listed Company / Other Organization

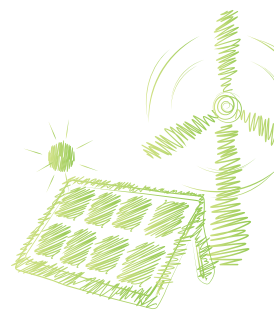
-Nil-

Subsidiary of EA

-Nil-

Family relationship with other Directors and Management

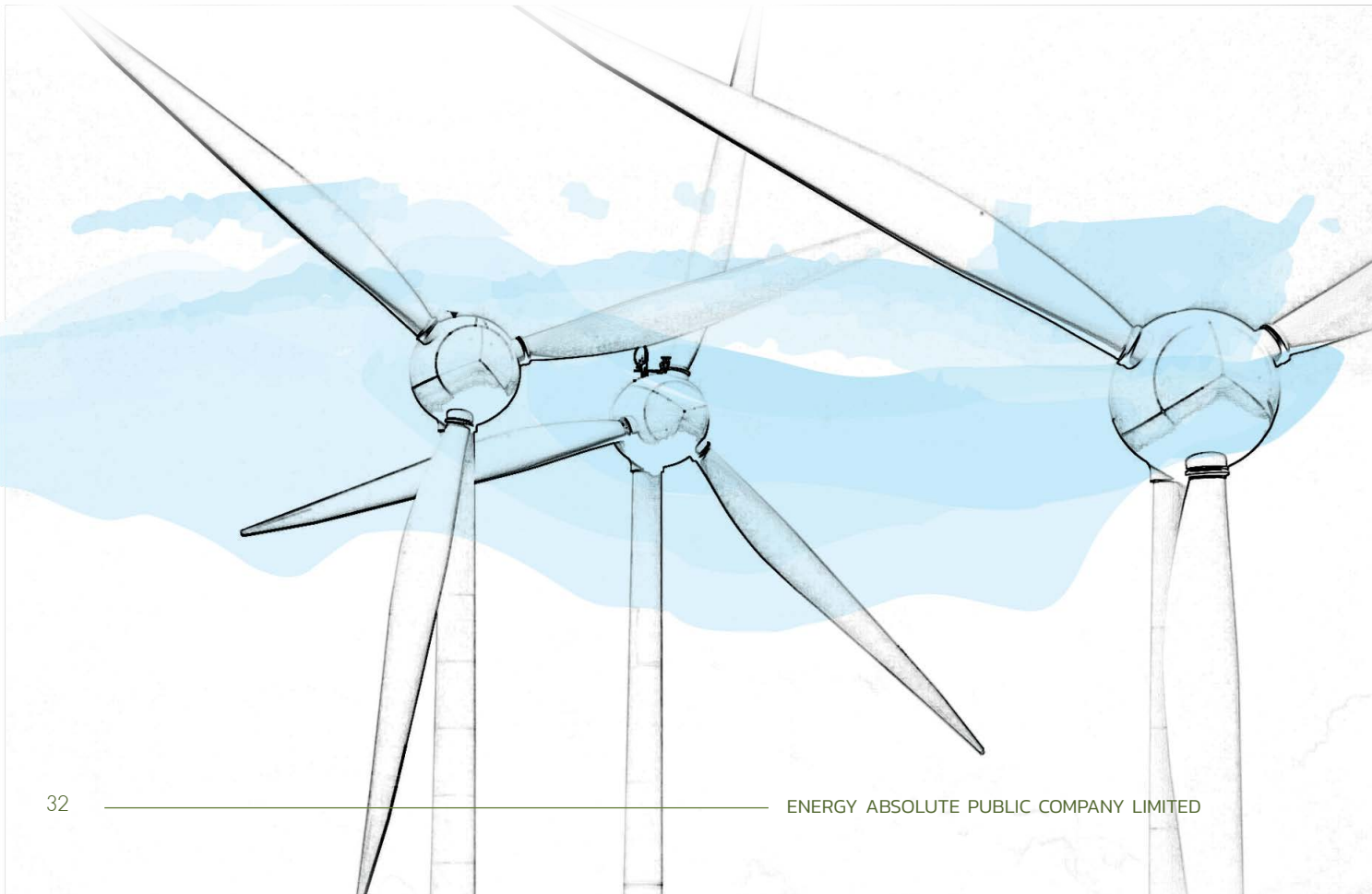
-Nil-



Profile of Corporate Secretary

(as of 31 December, 2017)

Ms. Yaowalug Pukpikul (Refer profile in “Profile of Executives” Page 26)



General Information and Other Information

1. General Information

Company name	:	Energy Absolute Public Company Limited
Stock symbol	:	EA
Company registration No	:	0107551000061
Nature of business	:	1) Manufacturing and distributing Biodiesel products (B100), Pure glycerin and by product 2) Generating and distributing electricity from Renewable Energy (via subsidiaries) 3) Development and Manufacturing of Battery (via subsidiaries) 4) EV Charging Stations and Electronic Transaction (via subsidiaries) 5) Research and Development Business (via subsidiaries)
Authorized capital / Paid-up capital	:	373,000,000.- Baht
Authorized share capital	:	3,730,000,000 common shares / par value 0.10 Baht each (ten satang)
Address of head office	:	16th Floor, AIA Capital Center Building 89 Ratchadaphisek Road, Dindaeng Sub-district, Dindaneng District, Bangkok 10400 Telephone : 0 2248 2488-92, 0 2002 3667-9 Fax : 0 2248 2493 Website : www.energyabsolute.co.th : Investor Relations Telephone : 0 2248 2488-92, 0 2002 3667-9 Ext. 10199 Fax : 0 2248 2493 Email : ir@energyabsolute.co.th

Address of factory / Projects :

1) Manufacturing and distributing Biodiesel products

- 507 Moo.9, Soi 7, Kabinburi Industrial Zone, Kabinburi-Nakornratchasima KM.12, Nongkee, Kabinburi, Prachinburi Province 25110

2) Renewable energy generation and distribution

- **Solar power plant 8 Megawatts / Lopburi Province**
No. 188 Village No. 3, Koktoom-Pasak River Road (Highway no. 3333) KM.21,
Pattananikhom Sub-District, Pattananikhom District, Lopburi Province 15140
- **Solar power plant 90 Megawatts / Nakorn Sawan Province**
No. 747 Moo1, Huawai Sub-District, Taklee District, Nakorn Sawan Province 60140

- **Solar power plant 90 Megawatts / Lampang Province**
No. 333 Moo 1, Banouam Sub-District , Muang Lampang District,
and Nonglom Sub-District, Hang Chat District, Lampang Province
- **Solar power plant 90 Megawatts / Pitsanulok Province**
No. 88 Moo11, Matong Sub-District, Prompiram District, Pitsanulok Province 65180
- **Wind power plant project 126 Megawatts / Nakornsithammarat - Songkla Provinces**
No. 212 Moo 2, Hua-Sai Sub-District, Hua-Sai District, Nakornsithammarat Province, Ranot District, Sonkla Province
- **Wind power plant project 260 Megawatts / Chaiyaphum Province**
Thebsathit District, Nong Bua Rawe District and Bamnet Narong District, Chaiyaphum Province

Information of companies which EA holds more than 10% of total shares sold

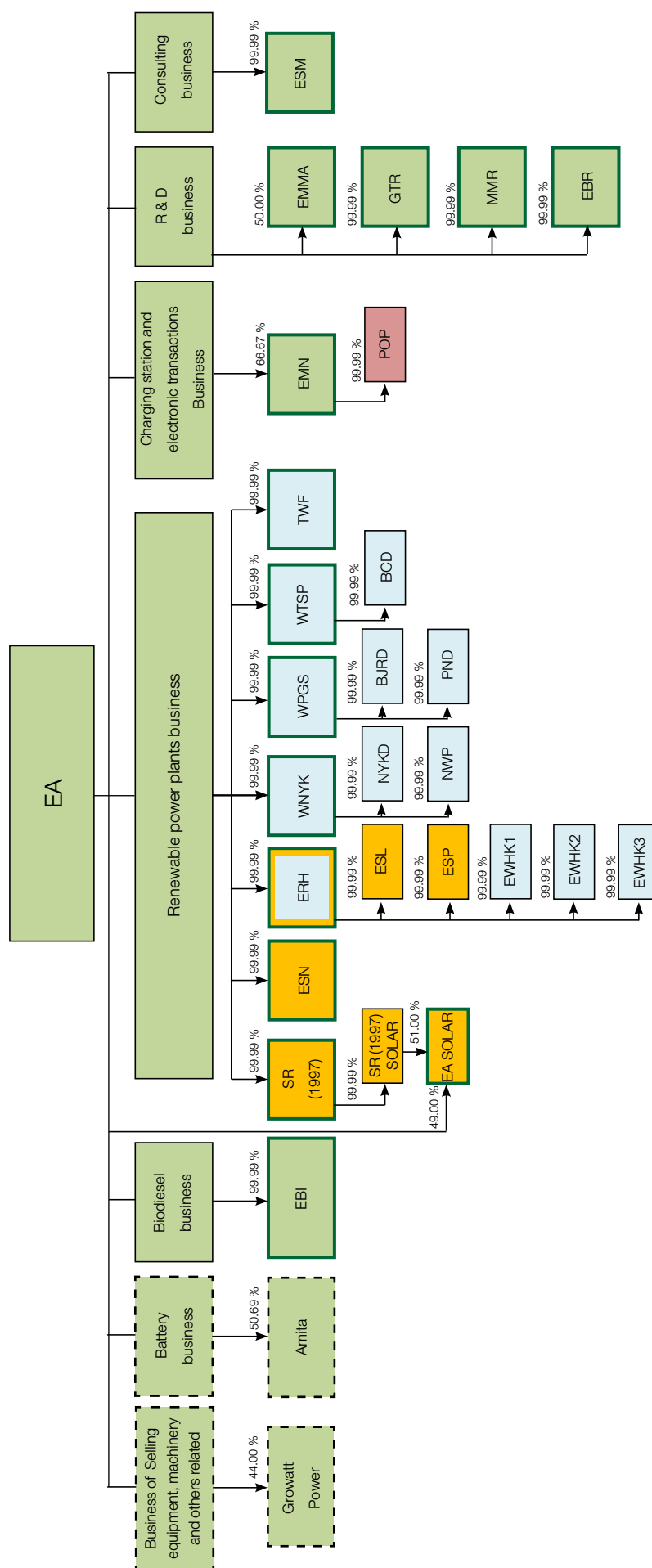
Subsidiary (direct subsidiary)							
Company Name	(Abbreviation)	Nature of business	Registered Capital (Baht)	No. of share sold (Share)	Par value (Baht)	Total shares holding (Share)	Percentage of shareholding (%) Office Address
1 Energy Solution Management Co., Ltd.	ESM	Consulting in the project regarding electric energy and being hired to construct power plant.	10,000,000	100,000	100	1,099,995	99.99 121/46 RS Tower, 11th Floor, Ratchadapisek Road, Dindaeng Sub-District, Dindaeng District, Bangkok 10400 Tel : 0 2642 2233 Fax : 0 2652 2232
2. Surachai (1997) Co., Ltd.	SR (1997)	Investing in manufacturing group of electricity energy from solar	190,500,000	190,500	1,000	190,300	99.99 16th Floor, AIA Capital Center Building 89 Ratchadaphisek Road, Dindaeng Sub-district, Dindaneng District, Bangkok 10400 Tel : 0 2248 2488-92, 0 2002 3667-9 Fax : 0 2248 2493
3. EA Solar Nakhonsawan Co., Ltd.	ESN	Manufacturing and distributing electricity from solar energy	5,590,000,000	559,000,000	10	558,999,998	99.99
4. EA Renewable Holding Co., Ltd.	ERH	Investing in manufacturing group of electricity energy from solar and wind energy	7,429,200,000	742,920,000	10	742,919,997	99.99
5. Wind Nayaengkak Co., Ltd	WNYK	Investing in manufacturing group of electricity energy from wind energy	1,879,500,000	187,950,000	10	187,949,997	99.99
6. Wind Progressive Co., Ltd	WPGS	group of electricity energy from wind energy	1,879,500,000	187,950,000	10	187,949,997	99.99
7. Wind Tossaphum Co., Ltd.	WTSP		1,670,000,000	167,000,000	10	166,999,997	99.99
8. Thepsathit Wind Farm Co.,Ltd.	TWF	Manufacturing and distributing electricity from wind energy	2,000,000	20,000	100	19,998	99.99

Company Name	(Abbreviation)	Nature of business	Registered Capital (Baht)	No. of share sold (Share)	Par value (Baht)	Total shares holding (Share)	Percentage of shareholding (%)	Office Address
9. EA Solar Co., Ltd	EA SOLAR	Manufacturing and distributing electricity from solar energy	550,000,000	Common shares 4,480,000	Common shares 100	Held by EA: 49.00 2,694,999	Direct: 49.00 Building 89 Ratchadaphisek Road, Dindaeng Sub-district, Dindaneng District, Bangkok 10400 Tel : 0 2248 2488-92, 0 2002 3667-9	
10. Emma Corporation Co., Ltd	EMMA	Research and Development of Electrical Equipment ¹	100,000	Preferred shares 1,020,000	Preferred shares 100	Held by SR (1997) SOLAR: 50.00 2,805,000	Indirect: 51.00 Tel : 0 2248 2488-92, 0 2002 3667-9 Fax : 0 2248 2493	
11. Energy Mahanakhon Co., Ltd.	EMN	Installation and Service of EV Charging Stations	150,000,000.00	15,000,000	10	9,999,997 held by Online Asset Co., Ltd. 5,000,0001	66.67 (33.33% held by Online Asset Co., Ltd. 5,000,0001 Ltd.) (49% held by foreign juristic person)	5th Floor, Building No. 518, Ratchadaphisek Road, Sam Sen Nok Sub-district, Huai Khwang District, Bangkok 10310 Tel : 0 2087 6300, 0 2087 6311
12. Green Technology Research Co., Ltd.	GTR	Research and Development of Oleochemical	40,000,000	4,000,000	10	3,999,997	99.99	16th Floor, AIA Capital Center Building 89 Ratchadaphisek Road, Dindaeng Sub-district, Dindaneng District, Bangkok 10400 Tel : 0 2248 2488-92, 0 2002 3667-9 Fax : 0 2248 2493
13. Mine Mobility Research Co., Ltd.	MMR	Research and Development of Electrical Automotive	10,000,000	1,000,000	10	999,997	99.99	
14. Energy Beyond Research Co., Ltd.	EBR	Research and Development of power reserve system	100,000	10,000	10	9,997	99.99	
15. EA Bio Innovation Co., Ltd.	EBI	Manufacturing and distributing Biodiesel and by-products	400,100,000	40,010,000	10	40,009,997	99.99	

Subsidiary (indirect subsidiary)								
Company Name	(Abbreviation)	Nature of business	Registered Capital (Baht)	No. of share sold (Share)	Par value (Baht)	Total shares holding (Share)	Percentage of shares held by Subsidiaries of business group (%)	Office Address
16. Surachai (1997) Solar Co., Ltd.	SR (1997) SOLAR	Investing in manufacturing group of electricity energy from solar	179,500,000	179,500	1,000	Held by SR (1997): 179,498	99.99	16th Floor, AIA Capital Center Building 89 Ratchadaphisek Road, Dindaeng Sub-district, Dindaneng District, Bangkok 10400 Tel : 0 2248 2488-92, 0 2002 3667-9 Fax : 0 2248 2493
17. EA Solar Lampang Co., Ltd.	ESL	Manufacturing and distributing electricity from solar energy	2,125,000,000	212,500,000	10	Held by ERH : 212,499,997	99.99	
18. EA Solar Phitsanulok Co., Ltd.	ESP		2,125,000,000	212,500,000	10	Held by ERH : 212,499,997	99.99	
19. EA Wind Hadkanghan 1 Co., Ltd.	EWHK 1	Manufacturing and distributing electricity from wind energy	98,470,000	9,847,000	10	Held by ERH : 9,846,997	99.99	
20. EA Wind Hadkanghan 2 Co., Ltd.	EWHK 2		123,065,000	12,306,500	10	Held by ERH : 12,306,497	99.99	
21. EA Wind Hadkanghan 3 Co., Ltd.	EWHK 3		3,120,000,000	312,000,000	10	Held by ERH : 311,999,997	99.99	
22. Nayangklak Development Co., Ltd.	NYKD		939,000,000	93,900,000	10	Held by WNYK : 93,899,997	99.99	
23. Nayangklak Wind Power Co., Ltd.	NWP		939,000,000	93,900,000	10	Held by WNYK : 93,899,997	99.99	
24. Benjarat Development 3) Co., Ltd.	BJRD		876,000,000	87,600,000	10	Held by WPGS : 87,599,997	99.99	
25. Pongnok Development Co., Ltd.	PND		1,002,000,000	100,200,000	10	Held by WPGS : 100,199,997	99.99	
26. Banchuan Development Co., Ltd.	BCD		1,699,000,000	166,900,000	10	Held by WTSP : 166,899,997	99.99	
27. Paypop Co.,Ltd.	PP	Electronic Financial Transactions (E-Money)	100,000	10,000	10	Held by EMN : 9,997	99.99	5 th Floor, Building No. 518, Ratchadaphisek Road, Sam Sen Nok Sub-district, Huai Khwang District, Bangkok 10310 Tel : 0 2087 6300, 0 2087 6311

Associate and Joint Venture						
Company Name	(Abbreviation)	Nature of business	Registered Capital (Baht)	No. of share sold (Share)	Par value (Baht)	Percentage of shareholding (%)
Joint Venture						
28. Amita Technologies Inc.	Amita	Developing and Manufacturing battery (Lithium-Ion Polymer type)	1,000,000,000 TWD	50,243,337	10 TWD	50.69
				No.6, Chazhuan Rd., Gueishan, Taoyuan County 33349, Taiwan		
				Tel : +886-3-2631212#133		
				Fax : +886-3-3-3200638		
				Website : www.amitatech.com		
29. Shenzhen Growatt Power Growatt Technology Co.,Ltd.	Power	Distributing equipment, machines and other related	600,000 USD	600,000	1 USD	44.00
				Room 203, 2 nd Floor, Building 5, Jiayu Industry Park, No. 28, Guangming, Xibianling, Shangwu Village, Shiyan Street, Baoan District, Shenzhen, China		

EA Group Structure



As at 31 December 2017

References

Securities Registrar Thailand Securities Depository Co., Ltd. (TSD)

The Stock Exchange of Thailand Building
93 Ratchadaphisek Road, Dindaeng, Bangkok 10400
Tel : 0 2009 9999 Fax : 0 2009 9991
SET Contact Center : 0 2009 9999
Website: <http://www.set.or.th/tsd/th/tsd.html>
E-mail: SETContactCenter@set.or.th

Registrar of Debenture Siam Commercial Bank PCL., Head Office

9 Ratchadapisek Road.,
Jatujak Sub-District, Jatujak District, Bangkok, 10900

Contract registrar

Siam Commercial Bank PCL., Chidlom office
Building 2, 3rd Floor, No. 1060 Phetburi Road, Makkasan Sub District,
Ratchathewi District, Bangkok 10400
Tel : 0 2256 2329 Fax : 0 2256 2406
Website: <http://www.scb.co.th/th/home>

Debenture Holders' Representative

The Bank of Ayudhya Public Company Limited (Head Office)

No. 1222 Rama 3 Road, Bang Phongphang Sub-District,
Yannawa District, Bangkok 10120
Tel: 0 2296 3582 Fax : 0 2683 1298
Website: <https://www.krungsri.com/bank/th/home.html>

Auditor

1. Ms. Amornrat Pearmpoonvatanasuk	Certified Public Accountant No. 4599
2. Mr. Prasit Yuengsrikul	Certified Public Accountant No. 4174
3. Mr.Pongtawee Ratanakoses	Certified Public Accountant No. 7795

PricewaterhouseCoopers ABAS Limited
15th Floor, Bangkok City Tower, 179/74-80 South Sathorn Road,
Thungmahamek Sub-District, Sathorn District, Bangkok, 10120
Tel : 0 2344 1000, 0 2824 5000 Fax : 0 2286 5050

Legal Consultant

S.C Law Office Co.,Ltd.

90/42, 16th Floor, Sathorn Thani Building, North Sathorn Road, Silom Sub-District,
Bangrak District, Bangkok 10500
Tel : 0 2696 9696-97 Fax : 0 2696 9698

2. Other information

The Company has been granted by the Securities and Exchange Commission for issuance and offering the debentures

(Please refer to. Securities and Shareholders Information)

Important financial information

Revenue type	2015		2016		2017	
	Million Baht	%	Million Baht	%	Million Baht	%
Biodiesel business						
1. Biodiese	5,005.33	54.33	4,721.13	45.23	4,205.20	36.02
2. Pure glycerin	220.32	2.40	169.49	1.62	267.07	2.29
3. By-products	16.06	0.17	11.32	0.11	14.16	0.12
	5,241.71	56.90	4,901.94	46.96	4,486.43	38.43
Renewable Energy Business						
4. Solar Power and Wind Power	1,360.39	14.77	1,786.31	17.11	2,422.15	20.75
5. The subsidy for the electricity purchase price	2,595.25	28.17	3,704.14	35.48	4,670.94	40.01
	3,955.64	42.94	5,490.45	52.59	7,093.09	60.76
Total sales revenue	9,197.35	99.84	10,392.39	99.55	11,579.52	99.19
6. Other revenue	14.82	0.16	46.86	0.45	93.98	0.81
Total revenue	9,212.17	100.00	10,439.25	100.00	11,673.50	100.00

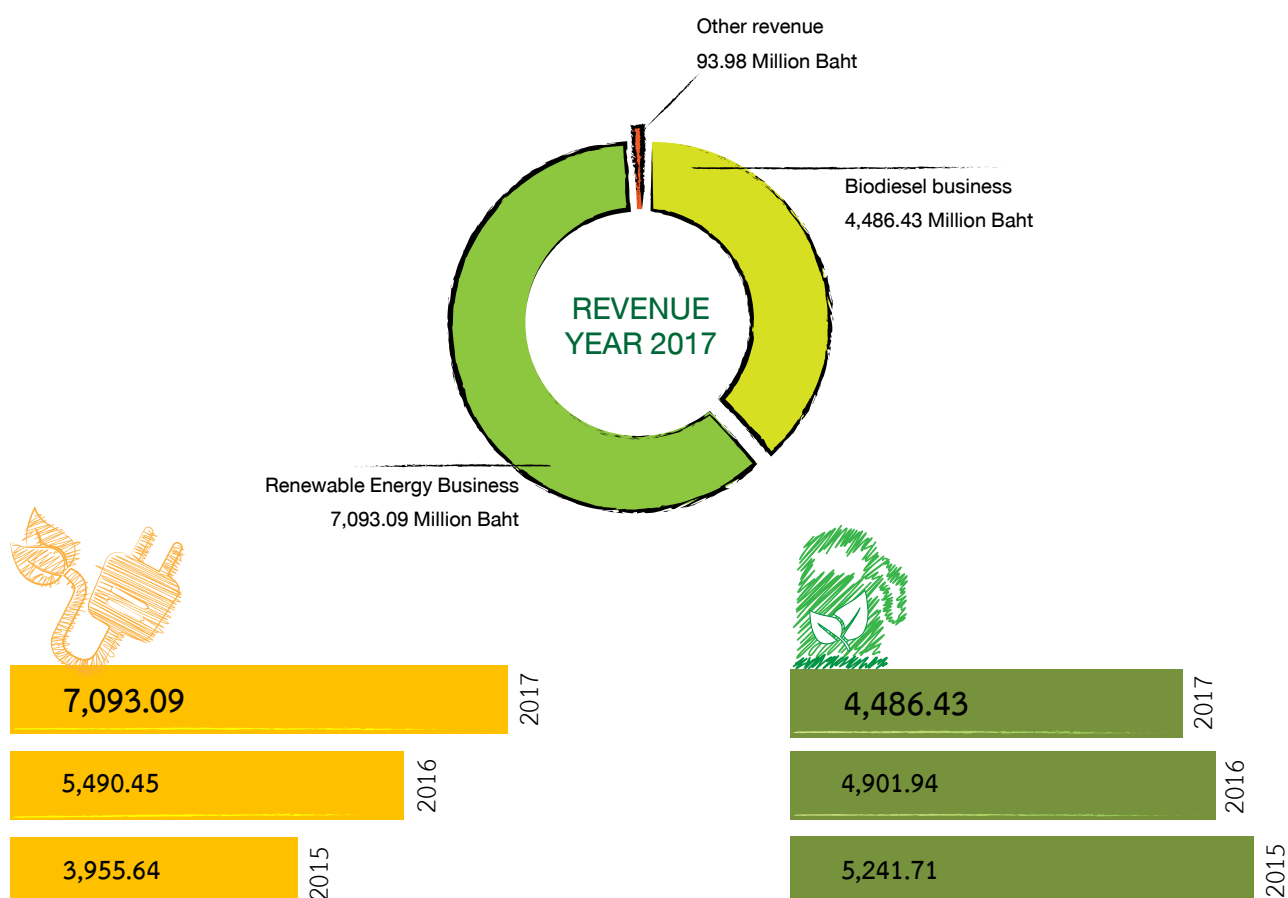


Table summarizing the financial position and business performance (Consolidated Financial Statements)

Statement of Comprehensive Income	Audited and Consolidated Financial Statements					
	Ended		Ended		Ended	
	31 Dec. 2015 (Revised)		31 Dec. 2016		31 Dec. 2017	
	Million Baht	%	Million Baht	%	Million Baht	%
Total revenues from sales	9,197.35	100.00	10,392.39	100.00	11,579.52	100.00
Gross profit	3,751.01	40.78	4,801.96	46.21	5,627.93	48.60
Profit before income tax expense	2,716.24	29.53	3,246.98	31.25	3,837.44	33.14
Net profit for the year	2,687.92	29.22	3,252.48	31.30	3,817.47	32.97
Total comprehensive income for the year	2,687.14	29.22	3,252.48	31.30	3,803.66	32.85
Profit attributable to Owners of the parent company	2,686.14	29.21	3,251.51	31.29	3,803.65	32.85

Statement of financial status	Audited and Consolidated Financial Statements					
	Ended		Ended		Ended	
	31 Dec. 2016 (Revised)		31 Dec. 2016		31 Dec. 2017	
	Million Baht	%	Million Baht	%	Million Baht	%
Total Assets	33,057.23	100.00	41,507.39	100.00	44,530.42	100.00
Total liabilities	24,547.31	74.26	30,117.94	72.56	29,786.80	66.89
Total equity	8,509.92	25.74	11,389.45	27.44	14,743.62	33.11
Issued and paid-up share capital	373.00	1.13	373.00	0.90	373.00	0.84

Significant Financial Ratio		2015	2016	2017
Liquidity Ratio	time	1.04	1.73	2.71
Profitability ratio				
Gross Profit Margin	%	40.62	45.76	47.79
Operating Profit Margin	%	36.56	40.82	43.37
Cash ratio per profitability	%	102.78	116.73	123.89
Net Profit Margin	%	29.17	31.15	32.70
Return on Equity (ROE)	%	37.30	32.68	29.22
Efficiency ratio				
Return on Assets (ROA)	%	10.26	8.72	8.87
Return on fixed assets (ROFA)	%	15.59	14.09	15.08
Assets Turnover	time	0.35	0.28	0.27
Financial policy ratio				
Debt to Equity ratio	time	2.88	2.64	2.02
Interest coverage ratio	time	5.39	4.97	5.22
Basic earnings per share (Baht/share)	%	16.35	26.60	18.58

Policy and Business Overview

Background

Energy Absolute Public Company Limited (“the Company” or “EA”) was registered on 6 March 2006 in original name as Suntech Palm. Oil Co., Ltd., with registered capital of Baht 50 million. In 2008 the Company was transformed into a public limited company and renamed as Energy Absolute Public Company Limited. The registered capital was increased from Baht 50 million to Baht 250 million, Baht 360 million and Baht 373 million in 2008, 2009 and 2012 respectively.

In the early of year 2013, the Company has been a listed company with 3,730 million ordinary shares at a par value of Baht 0.10 (ten satangs) per share, totaling Baht 373 million trading on the Market for Alternative Investment (mai). Later in the end of year 2016 EA has led an application requesting the SET to instruct the trading of its ordinary shares on the Stock Exchange of Thailand (SET) and the Stock Exchange of Thailand has informed the result of consideration and instruct the trading of EA 3,730 million ordinary shares at a par value of Baht 0.10 per share, totaling Baht 373 million to be traded on the Stock Exchange of Thailand (SET) under Resources Group in Energy & Utilities Sector using the trading name “EA” commencing from 6 January 2017 onwards.

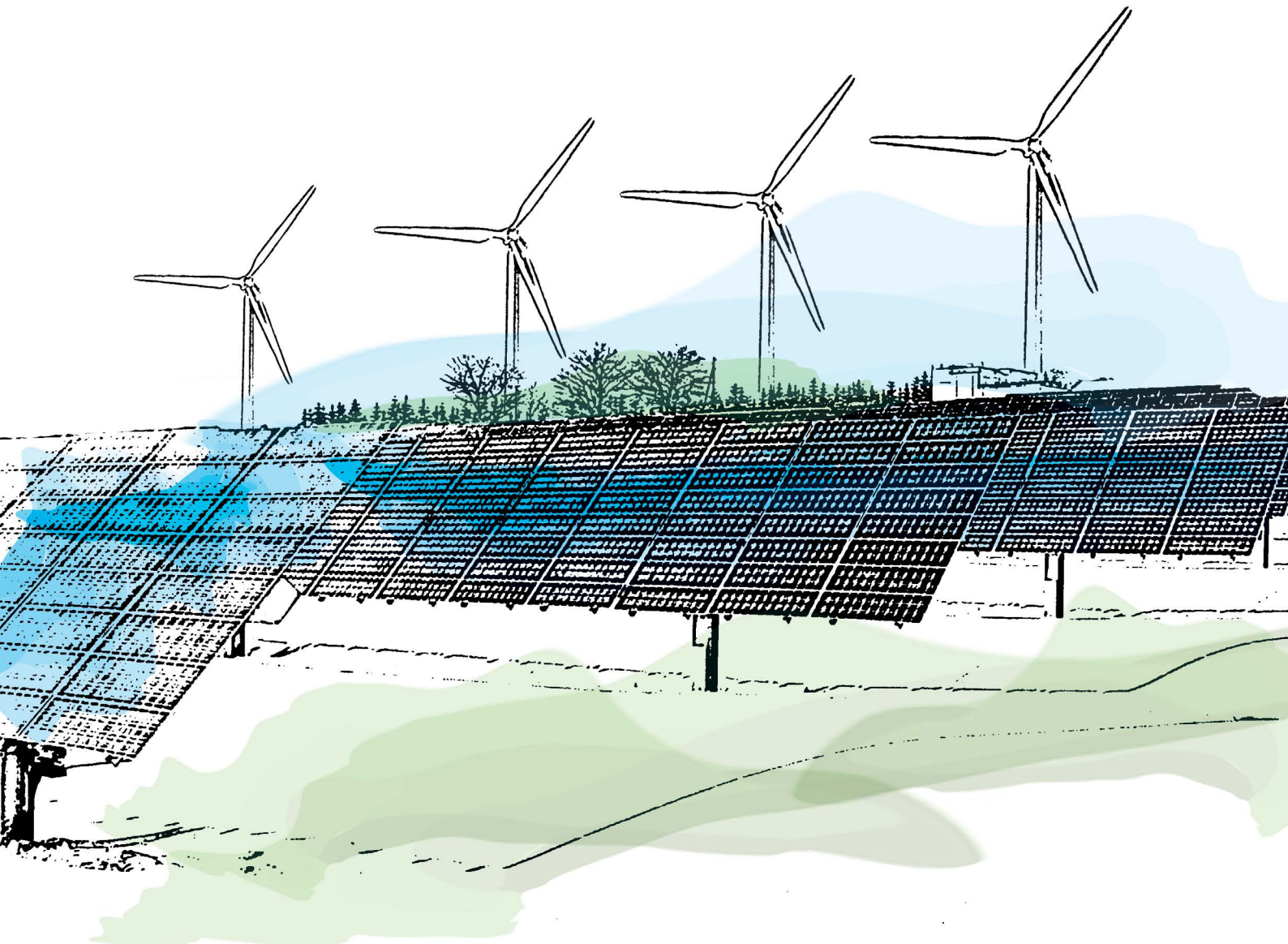
For the business of the Company, EA operates the business as the manufacturing and distributing biodiesel (B100), high-speed diesel oil, pure glycerin, and byproduct. EA has been granted a licensed of oil trade pursuant to Section 7 of Fuel Trade Act B.E. 2543 from Ministry of Energy. Presently EA’s biodiesel factory has the capacity of 800,000 liters/day.

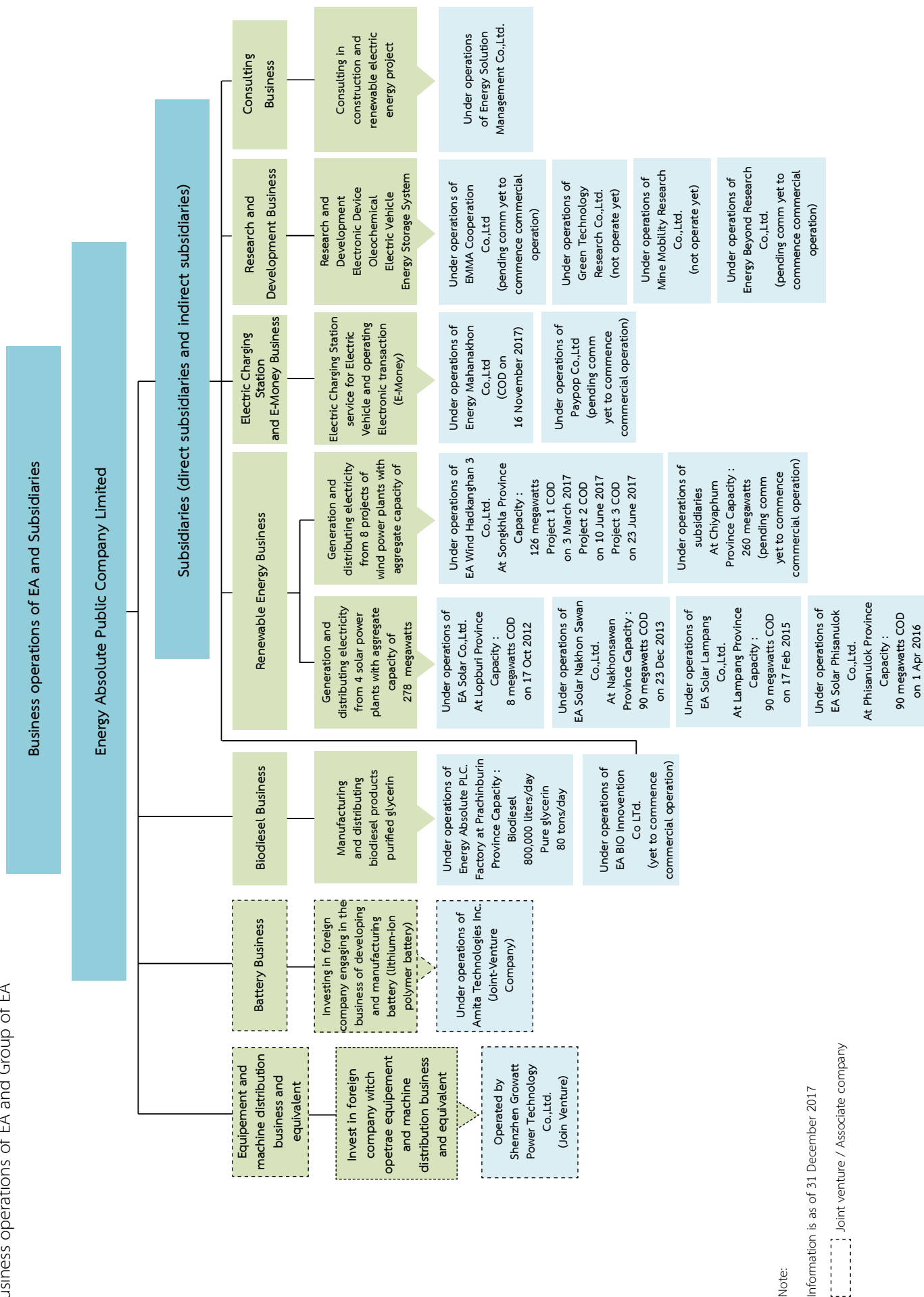
The Company expanded the business to business of generating and producing the electricity from Solar power and Wind power. All produced electricity units are purchased by Electricity Generating Authority of Thailand (“EGAT”) and Provincial Electricity Authority (“PEA”). This business is owned and under operations of EA’s subsidiaries. Currently, EA’s group has 4 solar power plants with aggregate capacity of 278 megawatts and 8 wind power projects with aggregate capacity of 386 megawatts.

During the year 2016, in order to expand business and enhance the competitiveness of the Company, as well as to comply with the Company’s environmentally friendly business operation policy, EA has invested in newly issued ordinary shares of 35.20% of the total issued and paid-in shares of Amita Technologies Inc. (“Amita”). Amita has been established under the law of Republic of China (Taiwan) and listed in Emerging Stock Market (ESM) of Taipei Stock Exchange, engaging in the business of developing and manufacturing lithium-ion polymer battery.

In the year 2017, the Company has increased the investment in Amita by issued ordinary shares from its existing shareholders of Amita through the Taiwan Stock Exchange (“Emerging Stock Market”) for a total issued of 7,784,000 shares (shareholding increased to 15.49%). The result of this acquisition, the company holding total 25,467,289 shares of Amita or 50.69% of the total issued and paid-in shares of Amita Technologies Inc.

In addition, during the year 2017 in order to expand business to the business of Electric Charging Station for Electric Car under trademark “EA Anywhere” through the purpose of bringing alternative energy to the automotive industry and reduce carbon dioxide emissions as well as encourage the use of environmentally friendly energy that operating by the direct subsidiary - Energy Mahanakhon Company Limited.





Vision – Mission, Goal of Business operations of EA and Group of EA*

Vision

Company is a leader in the alternative energy business with use of an advanced and environmental-friendly technology for the best benefit and fairness toward customers, shareholders, partners and employees.

Mission

- To use advanced technology in order to increase production efficiency.
- To support using energy corps as well as natural energy in order to reduce pollution of the environment.
- To support government policies in regard to energy stability of the country.
- To conduct a business based on fairness, build confidence among partners and shareholders.
- To manage human resource for stable and sustainable growth

Values

F = Friend	Friend to all stakeholders
I = Integrity	Conduct business in line with integrity and reliability
R = Resourcefulness	Efficiently use the resources
S = Security	Stability the energy resource
T = Transparency	Operating business with transparency and under good corporate governance

Goal / Strategy

Goal	Increase efficiency	Enhance production capacity
Complete pipeline project and the manage the cost and return on investment to be in line with estimation	Develop and complete the relating systems	Increase production capacity / reduce bottleneck. Increase customer base and increase sales volume of existing customers
Study and research the feasibility and searching for opportunity for new investment	Cash flow management Use Financial instrument taking into account of cost, returns and risk	Improve the recruitment of employee, caring and developing human resource
Be prompt in all relating parts	Improve working procedure, increase the efficient, reduce procedure loss and time consume and utilize resourcefulness	Training knowledge, know-how among employee and prepare the succession plans

NOTE :

* Approved by the Board of Director Meeting 2/2017 on May 12, 2017

Major changes and development during the past 5 years

1. The control in the Company/the change of shareholders' structure/management

Structure of shareholders

Since established the Company, Mr. Somphote Ahunai has been the major shareholder in the 1st rank (excluded shares held by spouse) holding 40.19% of total registered capital shares. During the year 2016, Mr. Somphote Ahunai sold 630 million EA shares to Sotus and Faith # 1 Limited ("Sotus") in order to set up the Trust. The aforesaid transaction was reported to SEC under forms "the changes in securities holding (Form 59-2)" and "Report of the Acquisition or Disposition of Securities (Form 246-2)". Mr. Somphote Ahunai is one of three member of trustee's Protector Committee. If unanimously resolution is required, he shall have right to control by casting disagree vote (as veto vote). However, he could not control the 2 members of Protector Committee to cast vote same as him. Nevertheless, due to SEC has considered that Sotus is Ultimate Beneficial Owner, Mr. Somphote Ahunai consequently, has duty to include such sold EA shares with EA shares held by him before the sold transaction occurred.

Management

There is no significant change to the Company and group of the Company as Mr. Somphote Ahunai has been Authorized Director, Chairman of the Executive Committee and CEO of the Company since establishment of the Company.

2. Development Capital

Year 2012

- The meeting of annual shareholders approved to decrease the company registered capital from Baht 360,000,000 to Baht 305,000,000 at the par value of Baht 0.10 by cutting unsubscribed capital shares or unissued capital shares. Later, the Company increased its registered capital from Baht 305,000,000 to Baht 373,000,000 by issuing 680,000,000 new ordinary shares at the par value of Baht 0.10. The allocation of capital increase shares were as follow:
 - 560,000,000 shares were allocated to the initial public offering
 - 120,000,000 shares were offered to the existing shareholders as per right offering proportion, at the price of Baht 1.50 per share.

Later, the Company increased its registered capital for the portion offered to existing shareholders (Rights Offering) at 120,000,000 shares, hence total paid-up capital was increased from Baht 305,000,000 to Baht 317,000,000. The meeting also approved to be listed and register all ordinary shares for trading on the Market for Alternative Investment (mai)

- The Company purchased the ordinary shares of Energy Solution Management Co.,Ltd. (ESM) in 99.99% of total registered share capital (Capital of Baht 10 million) for providing services of consulting maintenance the solar power plant

- A subsidiary, “EA Solar Nakhornsawan Co.,Ltd.” (ESN) was established with registered and paid-up of Baht 1,000,000 divided into 100,000 ordinary shares at par value of Baht 10 for generating and distributing the electricity from solar power with capacity of 90 megawatts. EA holds 99.99% of total registered shares of ESN
- EASolarNakhornsawanCo.,Ltd.increased registered capital from Baht 1,000,000 to Baht 20,000,000 by issuing new ordinary shares of 1,900,000 shares at par value of Baht 10.

According to the shareholders’ meeting in the past year (April 25, 2012), the Company has approved to increase the registered capital of Baht 68,000,000 from Baht 305,000,000 to Baht 373,000,000 by issuing 680,000,000 new ordinary shares at the par value of Baht 0.10. The company has released Initial Public Offering : IP 560,000,000 shares and offered to the existing shareholders (Rights Offering : RO) 120,000,000 shares In the year 2013. The Company has development as follow:

- During 21-23 January 2013, the Company made its initial public offering of 560,000,000 shares at Baht 5.50/share therefore, its paid up registered capital increased from Baht 317,000,000 million to Baht 373,000,000 million The Company also be granted by the Stock Exchange of Thailand to allow and instruct the common shares of the Company to trade on MAI since 30th January 2013 onwards
- EA Solar Nakhornsawan increased registered capital from Baht 20,000,000 to Baht 1,690,000,000 by issuing new ordinary shares of 167,000,000 shares at par value of Baht 10.
- A subsidiary, “EA Solar Lampang Co.,Ltd.” (ESL) was established with registered and paid-up of Baht 2,000,000 divided into 200,000 ordinary shares at par value of Baht 10 for generating and distributing the electricity from solar energy with capacity of 90 MW in Lampang, with 99.99% shareholding.

Year 2014

- Establishing new subsidiaries as follows:
 - “EA Renewable Holding Co.,Ltd.” (ERH) was established with registered and paid-up of Baht 1,000,000 divided into 100,000 ordinary share at par value to Baht 10 (EA holds 99.99%) for investment in subsidiaries that generate and distribute the electricity from solar and wind power
 - “EA Solar Phisanulok Co.,Ltd.” (ESP) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (ERH holds 99.98%) for generating and distributing the electricity from solar power with capacity of 90 megawatts at Phisanulok
 - “EA Wind Hankanghan 1 Co.,Ltd.” (EWHK1) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (ERH hold 99.98%) for generating and distributing the electricity from wind power with capacity of 36 megawatts at Songkhla
 - “EA Wind Hankanghan 2 Co.,Ltd.” (EWHK2) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (ERH hold 99.98%) for generating and distributing the electricity from wind power with capacity of 45 megawatts at Nakhonsithammarat

- “EA Wind Hankanghan 3 Co.,Ltd.” (EWK3) was established with registered and paid- up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (ERH hold 99.98%) for generating and distributing the electricity from wind power with capacity of 45 megawatts at Nakhonsithammarat
- “Wind Nayangklak Co.,Ltd.” (WNYK) was established with registered and paid-up of Baht 300,000 dividend into 30,000 ordinary shares at par value of Baht 10 (EA holds 99.99%) for investment in subsidiaries that generate and distribute the electricity from wind power at Chiyaphum
- “Wind Progressive Co.,Ltd.” (WPGS) was established with registered and paid-up of Baht 300,000 divided into 30,000 ordinary shares at par value of Baht 10 (EA holds 99.99%) for investment in subsidiaries that generate and distribute the electricity from wind power at Chiyaphum
- “Wind Tossaphum Co.,Ltd.” (WTSP) was established with registered and paid-up of Baht 200,000 divided into 20,000 ordinary shares at par value of Baht 10 (EA holds 99.99%) for investment in subsidiaries that generate and distribute the electricity from wind power at Chiyaphum
- “Nayangklak Development Co.,Ltd.” (WYKD) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (WNYK holds 99.96%) for generating and distributing the electricity from wind power at Chiyaphum
- “Nayangklak Wind Power Co.,Ltd.” (NWP) was established with registered and paid- up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (WNYK holds 99.96%) for generating and distributing the electricity from wind power at Chiyaphum
- “Benjarat Development Co.,Ltd.” (BJRD) was established with registered and paid- up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (WPGS holds 99.96%) for generating and distributing the electricity from wind power at Chiyaphum
- “Pongnok Development Co.,Ltd.” (PND) was established with registered and paid- up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (WPGS holds 99.96%) for generating and distributing the electricity from wind power at Chiyaphum
- “Banchuan Development Co.,Ltd.” (BCD) was established with registered and paid- up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (WTSP holds 99.96%) for generating and distributing the electricity from wind power at Chiyaphum
- EA sold 199,999,997 ordinary shares (99.99%) held in EA Solar Lampang Co., Ltd. to its subsidiary, i.e. EA Renewable Holding Co.,Ltd. (ERH) in order to restructure shareholding of group
- Increased registered capital of subsidiaries as follows:
 - Registered capital of EA Solar Lampang Co.,Ltd.(ESL) was increased from Baht 2,000,000 to Baht 2,000,000,000 by issuing the new 199,800,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Renewable Holding Co.,Ltd. (ERH) was increased from Baht 1,000,000 to Baht 2,130,000,000 by issuing new 212,900,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Solar Lampang Co.,Ltd. (ESL) was increased from Baht 2,000,000,000 to Baht 2,125,000,000 by issuing new 12,500,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Renewable Holding Co.,Ltd. (ERH) was increased from Baht 2,130,000,000 to Baht 2,630,000,000 by issuing new 50,000,000 ordinary shares at par value of Baht 10 per share

- Registered capital of EA Solar Phisanulok Co.,Ltd. (ESP) was increased from Baht 100,000 to Baht 155,800,000 by issuing new 15,570,000 ordinary shares at par value of Baht 10 per share
- Registered capital of EA Wind Hadkanghan 1 Co.,Ltd. (EWHK1) was increased from Baht 100,000 to Baht 98,470,000 by issuing new 9,837,000 ordinary shares at par value of 10 per share
- Registered capital of EA Wind Hadkanghan 2 Co.,Ltd. (EWHK2) was increased from Baht 100,000 to Baht 123,065,000 by issuing new 12,296,500 ordinary shares at par value of Baht 10 per share
- Registered capital of EA Wind Hadkanghan 3 Co.,Ltd. (EWHK3) was increased from Baht 100,000 to Baht 123,065,000 by issuing new 12,296,500 ordinary shares at par value of Baht 10 per share

Year 2015

- Increased registered capital of subsidiaries as follows:
 - Registered capital of EA Renewable Holding Co.,Ltd. (ERH) was increased from Baht 2,630,000,000 to Baht 3,929,200,000 by issuing new 129,920,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Solar Phisanulok Co.,Ltd. (ESP) was increased from Baht 155,800,000 to Baht 2,125,000,000 by issuing new 196,920,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Wind Hadkanghan 3 Co.,Ltd. (EWHK3) was increased from Baht 123,065,000 to Baht 2,457,065,000 by issuing new 233,400,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of EA Renewable Holding Co.,Ltd. (ERH) was increased from Baht 3,929,200,000 to Baht 7,429,200,000 by issuing new 350,000,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Nayangklak Co.,Ltd. (WNYK) was increased from Baht 300,000 to Baht 44,300,000 by issuing new 4,400,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Progressive Co.,Ltd. (WPGS) was increased from Baht 300,000 to Baht 50,300,000 by issuing new 5,000,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Tossaphum Co.,Ltd. (WTSP) was increased from Baht 200,000 to Baht 36,200,000 by issuing new 3,600,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Nayangklak Development Co.,Ltd. (NYKD) was increased from Baht 100,000 to Baht 20,100,000 by issuing new 2,000,000 ordinary shares at par value of Baht 10 per share
 - Registered Capital of Nayangklak Wind Power Co.,Ltd. (NWP) was increased from Baht 100,000 to Baht 20,100,000 by issuing new 2,000,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Benjarat Development Co.,Ltd. (BJRD) was increased from Baht 100,000 to Baht 22,100,000 by issuing new 2,200,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Pongnok Development Co.,Ltd. (PND) was increased from Baht 100,000 to Baht 24,100,000 by issuing new 2,400,000 ordinary shares at par value of 10 per share
 - Registered capital of Banchuan Development Co.,Ltd. (BCD) was increased from Baht 100,000 to Baht 32,100,000 by issuing new 3,200,000 ordinary shares at par value of Baht 10 per share

- The Company invested in Emma Corporation Co.,Ltd. (EMMA) at 50% of total registered and paid-up capital of Baht 100,000 divided into 1,000 ordinary shares at par value of Baht 100 per share for research and developing the generating of electricity
- Increased registered capital of subsidiaries as follows:
 - Registered capital of Surachai (1997) Co.,Ltd. (SR(1997)) was increased from Baht 12,000,000 to Baht 190,500,000 by issuing new 178,500 ordinary shares at par value of Baht 1,000 per share
 - Registered capital of Surachai (1997) Solar Co.,Ltd. (SR(1997)SOLAR) was increased from Baht 1,000,000 to Baht 179,500,000 by issuing new 178,500 ordinary shares at par value of Baht 1,000 per share
 - Registered capital of EA Solar Co.,Ltd. (EA SOLAR) was increased from Baht 200,000,000 to Baht 550,000,000 by issuing new 3,500,000 ordinary shares at par value of Baht 100 per share
 - Registered capital of EA Solar Nakhomsawan Co.,Ltd. (ESN) from Baht 1,690,000,000 to Baht 5,590,000,000 by issuing new 390,000,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Progressive Co.,Ltd. (WPGS) was increased from Baht 50,300,000 to Baht 1,879,500,000 by issuing new 182,920,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Tossaphum Co.,Ltd. (WTSP) was increased from Baht 36,200,000 to Baht 1,670,000,000 by issuing new 163,380,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Benjarat Development Co.,Ltd. (BJRD) was increased from Baht 22,100,000 to Baht 876,000,000 by issuing new 85,390,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Pongnok Co.,Ltd. (PND) was increased from Baht 24,100,000 to Baht 1,002,000,000 by issuing new 97,790,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Banchuan Development Co.,Ltd. (BCD) was increased from Baht 32,100,000 to Baht 1,669,000,000 by issuing new 163,690,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Wind Nayangklak Co.,Ltd. (WNYK) was increased from Baht 44,300,000 to Baht 1,879,500,000 by issuing new 183,520,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Nayangklak Development Co.,Ltd. (NYKD) was increased from Baht 20,100,000 to Baht 939,000,000 by issuing new 91,890,000 ordinary shares at par value of Baht 10 per share
 - Registered capital of Nayanklak Wind Power Co.,Ltd. (NWP) was increased from Baht 20,100,000 to Baht 939,000,000 by issuing new 91,890,000 ordinary shares at par value of Baht 10 per share
- The annual general shareholders meeting approved the offering and issuance of debenture for not exceeding of Baht 10,000 million in order to re-finance of solar power plants and to invest in wind power plant project with details as bellows:
 - Type : All kinds of bonds (with or without collateral)
 - Offering : to offer one time or several times and / or as a project and /or on a revolving basis, though a public offering and/or private placement offering and /or institutional investor and/or high net worth,
 - Term of debenture : not exceeding 10 years since the date of each issuance. (Please refer to Other securities page 94-95)

- The Company invested in newly issued ordinary shares of 35.20% (NTD 618,915,115) of the total issued and paid-in shares of Amita Technologies Inc. (“Amita”). Amita has been established under the law of Republic of China (Taiwan) and listed in Emerging Stock Market (ESM) of Taipei Stock Exchange and operates battery business
- The Company submitted the application requesting the SET to instruct the trading of its ordinary shares on the Stock Exchange of Thailand (SET) (move from MAI to SET). SET allowed and instructed the trading of EA 3,737,000 ordinary shares to be traded on the SET under Resources Group in Energy & Utilities Sector using the trading name “EA” commencing from 6 January 2017 onwards.

Year 2017

- Establishing Subsidiaries (direct subsidiaries and indirect subsidiaries) as follow:
 - Energy Mahanakhon Co.,Ltd. (“EMN”) was established with registered and paid-up of Baht 10,00,000 divided into 1,000,000 ordinary shares at par value of Baht 10 (EMN holds 99.99%) for installing and servicing Electric charge station for all type of vehicle.
 - Green Technological Research Co.,Ltd. (“GTR”) was established with registered and paid-up of Baht 10,00,000 divided into 1,000,000 ordinary shares at par value of Baht 10 (GTR holds 99.99%) for Research and development Business on Oleo chemical
 - Mine Mobility Research Co.,Ltd (“MMR”) was established with registered and paid-up of Baht 10,00,000 divided into 2,500,000 ordinary shares at par value of Baht 10 (MMR holds 99.99%) for Research and development Business of the company
 - Paypop Co.,Ltd (“POP”) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (POP holds 99.99%) for electronic transaction business (E-Money).
 - Energy Beyond Research Co.,Ltd (“EBR”) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (GTR holds 99.99%) for research and development on Energy Storage system
 - EA Bio Innovention Co.,Ltd (“EBI”) was established with registered and paid-up of Baht 100,000 divided into 10,000 ordinary shares at par value of Baht 10 (GTR holds 99.99%) for manufacturing and distributing biodiesel (B100) and byproduct
- The annual general shareholders meeting 2017 approved the offering and issuance of Debenture for not exceeding of Baht 10,000 million in order to support the business operation of the company and subsidiaries and to be a guideline of cost reduction with details as follows:
 - Type : All kinds of bonds (with or without collateral)
 - Offering : to offer one time or several times and / or as a project and /or on a revolving basis, though a public offering and/or private placement offering and /or institutional investor and/or high net worth,
 - Term of bonds : not exceeding 10 years since the date of each issuance.
- The Company invested in newly issued ordinary shares of 44% (USD 264,000) of the total issued and paid-in shares of Shenzhen Growatt Power Technology Co.,Ltd., People’s Republic of China which distributing Machinery equipment and others business.

- The Company has increased the investment in Amita by issued ordinary shares from its existing shareholders of Amita through the Taiwan Stock Exchange (“Emerging Stock Market”) for a total issued of 7,784,000 shares (shareholding increased to 15.49%). The result of this acquisition, the company holding total 25,467,289 shares of Amita or 50.69% of the total issued and paid-in shares of Amita Technologies Inc. (Now Amita is The joint venture company)
- Registered capital of Subsidiaries (direct subsidiaries and indirect subsidiaries) as follow
 - Registered capital of Energy Mahanakhon Co.,Ltd. (“EMN”) was increased from Baht 10,000,000 to Baht 150,000,000 by issuing new 14,000,000 ordinary shares at par value of Baht 10 per share (EMN holds 66.67% and Online Asset Co.,Ltd. holds 33.33%)
 - Registered capital of Energy Solution management Co.,Ltd. (“ESM”) was increased from Baht 10,000,000 to Baht 110,000,000 by issuing new 1,000,000 ordinary shares at par value of Baht 100 per share (ESM holds 99.99%)
 - Decreasing internal shareholder in the joint venture company from increased the registered capital of Direct subsidiary - Energy Mahanakhon Co.,Ltd. (“EMN”) was decreased from 99.99% to 66.67% which Online Asset Co.,Ltd. holds 33.33%

3. Development in respect of Biodiesel business

Year 2012

- The Company was certified according to the standard of Roundtable on Sustainable Palm Oil : (RSPO) from by PT.TÜV NORD INDONESIA. The purpose of RSPO is to support sustainable production of palm oil which covers management and legal proceeding, economic, environmental impact as well as social interest under international standard of RSPO
- The Company received ISO 9001:2008 (Quality Management Systems) from URS Thailand (United Registrar of Systems (Thailand) Ltd.) (License No. 53866/A/0001/ UK/En which is the international standard that concentrates on quality and efficiently of operations of the organization

Year 2013

- The Company increased production capacity by expanding distillation column of pure glycerin to 80 ton/day to enhance higher yield, building more distillation column of pure methanol to separate methanol from B100 biodiesel including distillation column of pure methanol (purity of 99.95%) in order to reuse by-product methanol. After system testing, the production was operated in the second quarter of the year.
- The Company improved production process of B100 biodiesel for greater performance by adding primary reaction tank, expanding methanol distillation column which is produced from B100 biodiesel to support directly B100 biodiesel including adding more resin tanks to the final cleaning process (dry wash). All those improvements enhanced the overall production process of B100 biodiesel at 800,000 liter/day to be smooth.
- The Company received Kosher certification by Thai Kashrut Services Ltd. , a company providing international certification with objective to clarify the quality and source of raw materials, production process, utility usage, use of chemical substances, including transportation to be in line with Kosher’s regulations.

Year 2014

- The Company has changed the company to certify RSPO from PT.TÜV NORD INDONESIA to be TÜV NORD INTEGRA bvba, however, all-purpose and standard are the same, i.e. to support sustainable production of palm oil which covers management and legal proceeding, economic, environmental impact as well as social interest under International Standard of RSPO
- The Company started operating production of Glycerolysis which changed PFAD from refinery palm oil process into crude palm oil (CPO).

Year 2015

- The Company improved production process of Gly-Trans which changed PFAD from refinery palm oil process into RBD. The production was started in the fourth quarter of 2014.

Year 2016

- The Company distributed the biodiesel product (B100/MB) which has been certified according to RSPO standard and reported the results of operations via RSPO e Trance system. The distribution was commenced on 2nd quarter of the year 2016
- The Company is under procedure in order to qualify according to the standard of Environmental Management System (EMS) and Occupational Health & Safety (OH&S) ISO 14001 : 2005 & OHSAS 18001 : 2007 (Environmental & Occupational Health and Safety Management System) for which it is expected to complete all required standard within the first quarter of the year 2017
- The Company still maintain the management system according the RSPO standard, ISO 9001:2008, and Kosher standard through the year 2016.

Year 2017

- The Company received ISO 14001 : 2015 (Environmental Management System) Certificate Number : 79935/A/0001/UK/En (ISO 14001 : 2015) and OHSAS 18001 : 2007 (Occupational Health and Safety Management System) Certificate Number : 75535/B/0001/UK/EN from URS Thailand (United Registrar of Systems (Thailand) Ltd.) in the first quarter of the year 2017 which is the international standard that concentrate on improvement of Environmental, Occupational Health and Safety Management System that complied to the regulations, law as well as working environment providing for staff with safety and presenting sincerity to social and environment responsibility both from internal and external for the good image of the Company
- The company was identified as a designed factory/building (TSIC-ID 20299 -1005) according to the Energy Conservation Act. B.E 2535 amended by the Energy Conservation Act. (Section 2) B.E 2550 under The department of Alternative Energy Development and Efficiency, Thailand. The Company also certified on the report of environment management of the year 2016 in line with the regulation of the Environment Management Standard, Thailand in the first quarter of 2017.

- The Company's industry received 'Green System Level 3 (GL3)' from the Ministry of Industry which has been certified according to the environment management system. The Ministry of Industry has been promoting to all industry in Thailand to be environmentally friendly operations, social responsibility, for the sustainable development and to live together happily with the community which concentrates on 3 subjects as follow:
 1. The development and Improvement of Production Efficiency
 2. Environment Management for the sustainable improvement
 3. Social and environment responsibility both from internal and external of the organization (Throughout the supply chain)

Therefore, the Ministry of Industry will keep reviewed for the continued development according to the certification No.3-6471/2561 (for the factory registration No. KHOR 3-47(2)-/52 POR CHOR.) and 3-6472/2561 (for the Factory registration No. KHOR 3-7(1)-1/44 POR CHOR.)

- The Company still maintain the management system according the RSPO standard (Roundtable on Sustainable Palm Oil: RSPO), , ISO 9001:2008 (Quality Management Systems), and Kosher standard through the year 2017.
- The Company is under procedure in order to qualify according to the standard of Quality Management Systems ISO 9001 : 2015 for which it is expected to complete all required standard within the second quarter of the year 2018

4. Development of Solar Power Plant Business

Year 2012

- A subsidiary, i.e. EA Solar Nakhonsawan Co.,Ltd. (ESN) obtained the promotional privileges from the Board of Investment (BOI) for the project of 90-MW solar power plant at Nakhornwan under Section 7.1 : Public utilities and basic services . The key privilege according the Investment Promotion Act,B.E. 2520 is such as the exemption of corporate income tax for net profit for 8 years, from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years.
- The Company entered into the Power Purchase Agreement (PPA) with the Electricity Authority of Thailand (EGAT) to distribute all electricity generated from the 90 MW solar power plant in Phisanulok to EGAT.

Year 2013

- The Company entered into the Power Purchase Agreement (PPA) with the Electricity Authority of Thailand (EGAT) for solar power plant at Nakhornsawan and later the Company transferred all duty and rights of PPA to its subsidiary – EA Solar Nakhornsawan Co.,Ltd.
- The Company obtained the promotional privileges from the Board of Investment (BOI) for the project of 90-MW solar power plant at Lampang under Section 7.1 : Public utilities and basic services. The key privilege according the Investment Promotion Act,B.E. 2520 is such as the exemption of corporate income tax for net profit for 8 years, from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years
- The 90-MW solar power plant at Nakhornsawan commenced the commercial operation to EGAT on 23 December 2013 and revenue was recognized in the same day onwards.

Year 2014

- The Company entered into addendum of the Power Purchase Agreement (PPA) with the Electricity Generating Authority of Thailand (EGAT) for solar power plant at Lampang to transfer all duty and right to its subsidiary – EA Solar Lampang Co.,Ltd.
- The company transferred all BOI privileges in respect of the 90-MW solar power plant at Lampang to its subsidiary – EA Solar Lampang Co.,Ltd. The privileges are as per terms and conditions of BOI Promotion certificate No. 2632(1) /2556

Year 2015

- The 90-MW solar power plant at Lampang commenced the commercial operation to EGAT on 17 February 2015
- The Company entered into the Addendum of Power Purchase Agreement (PPA) for solar power plant project at Phisanulok with EGAT in order to transfer all duty and right to its subsidiary – EA Solar Phisanulok Co.,Ltd.
- A subsidiary – EA Solar Phisanulok Co.,Ltd. obtained the promotional privileges from the Board of Investment (BOI) for 90- MW solar power plant at Phisanulok under Section 7.1 : Public utilities and basic services. The key privilege according the Investment Promotion Act,B.E. 2520 is such as the exemption of corporate income tax for net profit for 8 years, from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years
- A subsidiary – EA Solar Nakhornsawan Co.,Ltd. was qualified according to the standard of Environmental Management System from URS Thailand (United Registrar of Systems (Thailand) Ltd.) as follows:
 - Quality Management system ISO 9001 : 2008 (License No. 70995/A/0001/UK/En) is the international standard to that concentrate on quality and efficiently of operations of organization
 - Environmental Management System ISO 14001 : 2004 (Licenses No. 70995/B/0001/UK/En) concentrate in environment management and reduce waste and energy and comply with legal requirements to enable develop the organization in parallel with environment protection.

Year 2016

- A subsidiary – EA Solar Co.,Ltd. was qualified according to the standard of Environmental Management System and Quality Management from URS Thailand (United Registrar of Systems (Thailand) Ltd.) as follows:
 - Quality Management system ISO 9001 : 2008 (License No. 73337/B/0001/UK/En) is the international standard to that concentrate on quality and efficiently of operations of organization
 - Environmental Management System ISO 14001 : 2004 (Licenses No. 73337/A/0001/ UK/En) is Environmental Management System according to the international standard to enhance the development of organization and be accepted in both of social and commercial
- A 90-MW solar power plant at Phisanulok commenced the commercial operations to EGAT on 1 April 2016 and revenue was recognized in the same day onwards

Year 2017

- The Subsidiaries, which owns a solar power plant have been operating the business as usual.
- The company has registered for voluntary greenhouse gas reduction programs in Thailand, (Thailand Voluntary Emission Reduction Program : T-VER) with the Greenhouse Service Management Organization (Public Organization). This project was developed to promote and support all sectors that engage in greenhouse gas reduction voluntarily. It can reduce the amount of greenhouse gas emissions. Under the T-VER, these are called “TVERs” which can be traded in the volunteer carbon reduction market in participating country. The rules and procedures for the development of the project include method of reducing greenhouse gases (Methodology), Registration and certification of greenhouse gas It must be a project that contributes to reducing / absorbing greenhouse gases in Thailand. To reduce the amount of greenhouse gas emissions that contribute to global warming. It can increase revenue from the sale and purchase, the Company has applied for the above-mentioned projects through the subsidiaries for the following projects.
- Project Name : - Solar Farm at Nokhonsawan, Thailand. - The EGAT subcommittee approved the reduction of greenhouse gas emissions from this project. For December 2015 to November 2019, 106,148 tonnes of carbon dioxide equivalent (tCO₂e)
- Project Name: Solar Farm Project at Lampang, Thailand (Solar Farm at Lumpang, Thailand). EGAT’s Board of Directors approved the greenhouse gas reduction from this project for December 2015 to November 2019 amounting to 111,104 tons of carbon dioxide Equivalent (tCO₂e).
- Project Name: Solar Farm at Pisanulok, Thailand - Solar Farm at Pisanulok, Thailand - EGAT’s subsidiary, Phitsanulok, approved greenhouse gas reduction. From this project there were 63,178 carbon dioxide Equivalent (tCO₂e) from April 2016 to September 2019.

In the year 2017, the Company continues to collect greenhouse gas emissions of all three projects. The approval of the subcommittee of the PMO in the certification of greenhouse gas reduction.

5. Development of Wind Power Plant Business

Year 2014

- The Company entered into the Power Purchase Agreement (PPA) with Electricity Generating Authority of Thailand (EGAT) to distribute all generated electricity units from Hadkanghan 1- 3 projects (aggregate capacity = 126 MW) to EGAT

Year 2015

- A subsidiary – EA Wind Hadkanghan 3 Co.,Ltd. obtained the promotional privileges from the Board of Investment (BOI) for 3 wind power plant projects at Songkla, Nakhonsithammarat as details bellows:
 - Wind power plant project (Hadkanghan 1) capacity 36 MW
 - Wind power plant project (Hadkanghan 2) capacity 45 MW
 - Wind power plant project (Hadkanghan 3) capacity 45 MW

All above projects are under BOI promotion privileges Section 7.1 : Section 7.1 : Public utilities and basic services. The key privilege according the Investment Promotion Act, B.E. 2520 is such as the exemption of corporate income tax for net profit for 8 years from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years

- The Company obtained the promotional privileges from the Board of Investment (BOI) for 5 wind power plant projects at Chiyaphum as details bellows :
 - Wind power plant project (Hanuman 1) capacity 45 MW
 - Wind power plant project (Hanuman 5) capacity 48 MW
 - Wind power plant project (Hanuman 8) capacity 45 MW
 - Wind power plant project (Hanuman 9) capacity 42 MW
 - Wind power plant project (Hanuman 10) capacity 48 MW

All above projects are under BOI promotion privileges Section 7.1 : Section 7.1 : Public utilities and basic services. The key privilege according the Investment Promotion Act, B.E. 2520 amended (No.3) is such as the exemption of corporate income tax for net profit for 8 years from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years

- The Company entered into the Addendum of Power Purchase Agreement (PPA) with the Electricity Generating Authority of Thailand (EGAT) for wind power plant project (Hadkanghan 1-3) in order to transfer all duty and right to its subsidiary - EA Wind Hadkanghan 3 Co.,Ltd.
- The Company entered into PPA to sell all electricity units generated from Hanuman1, 5, 8, 9, 10 projects (aggregate capacity = 260 MW) with EGAT

Year 2016

- Started construction wind power projects – Hadkanghan 1-3 projects and wind power project – Hanuman 1, 5, 8, 9, 10

- Wind power plant – Hadkanghan 1-3 projects commenced the Commercial Operation Date as follow:
 - Wind power plant – Hadkanghan project 1 capacity 36 MW at Songkla commenced the commercial operation to EGAT on 3 March 2017 at 12.00 am and revenue was recognized in the same day onwards.
 - Wind power plant – Hadkanghan project 2 capacity 45 MW at Nakhon Srithammarat commenced the commercial operation to EGAT on 10 June 2017 at 12.00 am and revenue was recognized in the same day onwards.
 - Wind power plant – Hadkanghan project 3 capacity 45 MW at Nakhon Srithammarat commenced the commercial operation to EGAT on 23 June 2017 at 12.00 am and revenue was recognized in the same day onwards.
- According to the promotional privileges that the Company obtained from the Board of Investment (BOI) for 5 wind power plant projects at Chiyaphum (under the Company name) Currently, The BOI has released the privilege according the Investment Promotion Act, B.E. 2520 to transfer the operation to the joint venture company as follow:
 1. An Indirect Subsidiary – Nayangluk Co.,Ltd. Wind power plant project (Hanuman 1) capacity 45 MW
 2. An Indirect Subsidiary – Pongnok Development Co.,Ltd. Wind power plant project (Hanuman 5) capacity 48 MW
 3. An Indirect Subsidiary – Nayangluk Wind Power Co.,Ltd. Wind power plant project (Hanuman 8) capacity 45 MW
 4. An Indirect Subsidiary – Benjarut Development Co.,Ltd. Wind power plant project (Hanuman 9) capacity 42 MW
 5. An Indirect Subsidiary – Ban Chuan Development Co.,Ltd. Wind power plant project (Hanuman 10) capacity 80 MW

All above 5 projects are under BOI promotion privileges Section 7.1 : Section 7.1 : Public utilities and basic services. The key privilege according the Investment Promotion Act, B.E. 2544 amended (No.3) is such as the exemption of corporate income tax for net profit for 8 years from the first date of generate income. And after 8 years, the exemption of corporate income tax will be reduced to 50% for another 5 years

6. Development of Electric Charging Station Business

- A Direct Subsidiary - Energy Mahanakhon Co.,Ltd entered into the Memorandum of Understanding with the Metropolitan Electricity Authority (MEA) to impels “ Electric Charging Station for Electric Vehicle Project” under the trademark “EA Anywhere” which has been operated the first station on 16 November 2017 at Parking Lot of Siam Paragon Shopping Mall, G floor, Siam Center Shopping Mall GB floor.

7. Other development

Year 2013

- The Company received the award “Popular awards year 2013” as the 1st year from the Market for Alternative Investment (mai) held by Kaohoo business newspaper and the Stock Exchange of Thailand

Year 2014

- The Company received the award “Popular awards year 2014” as the 2nd year from the Market for Alternative Investment (mai) held by Kaohoo business newspaper, the Stock Exchange of Thailand, University of the Thai Chamber of Commerce and Asset Pro Management Co.,Ltd.
- Voting result during the year 2014 from the magazine – The European, EA was selected as “Renewable Energy Company of the Year – Asia” and Chief Executive Of ce – Mr. Somphote Ahunai was selected as “Energy CEO of the Year – Asia”
- IAA Awards for Listed Companies 2014 announced the excellent management capability and accurate information disclosure of 2 executive management of the Company as follows:
 - Mr. Somphote Ahunai as the Best CEO in mai
 - Mr. Amorn Saphthaweeikul as the Best CEO in mai

Year 2015

- The company received award “Money & Banking Awards 2015” in mai held by Money & Banking Magazine
- The Company received award “Popular awards year 2015” (MAI) as the 3rd year held by Kaohoon business newspaper, the Stock Exchange of Thailand and the Market for Alternative Investment

Year 2016

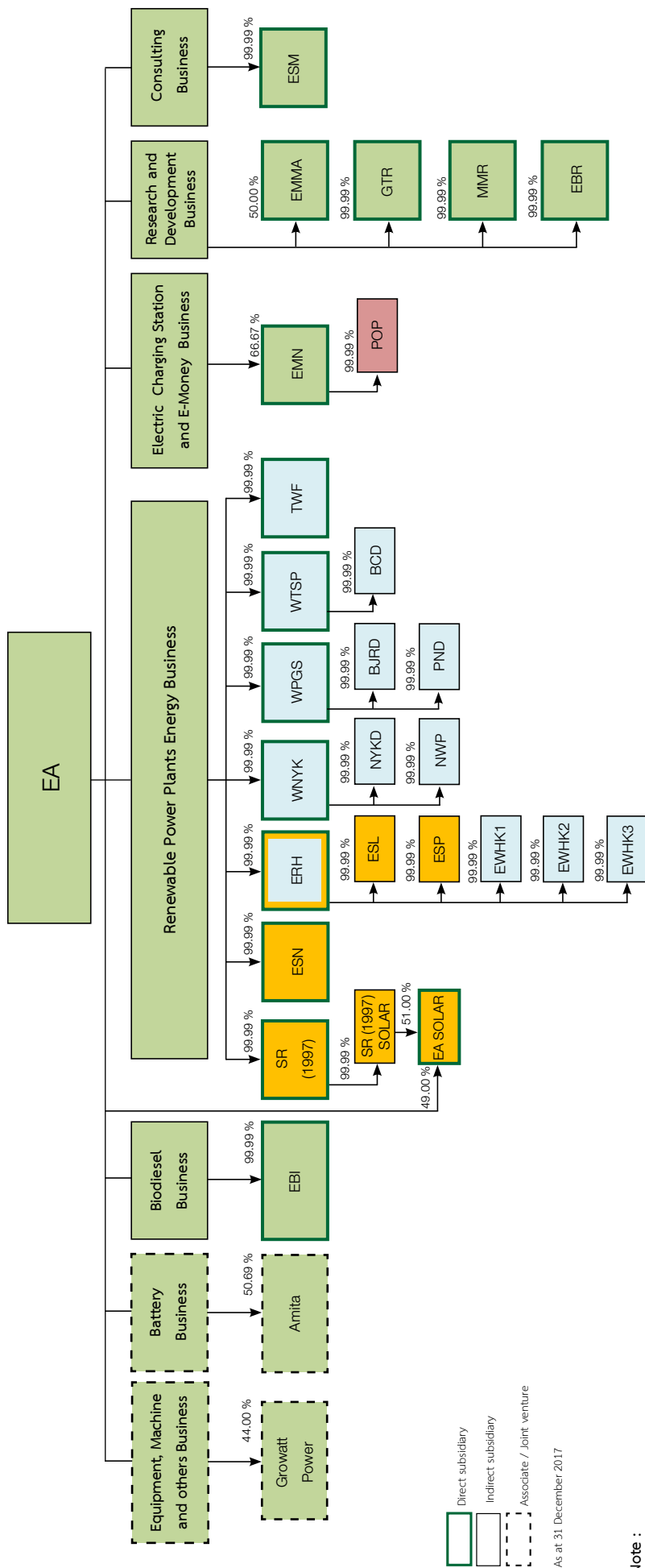
- The Company received award “Thailand Top Company Awards 2016 Fast-growing Company Award” as successful company with the excellent performance in fast-growing held by University of Thai Chamber of Commerce (Business Administration faculty) and the Business magazine
- The Company received “Popular Award – mai” as the fourth consecutive year held by Kaohoon business newspaper, the Stock Exchange of Thailand and the Market Alternative Investment (mai)
- The Company received MONEY & BANKING AWARDS 2016 – “The Best list company in mai for the year 2016” as the second consecutive year held by Money & Banking magazine
- The Company received “THE BISS 2016 World Business leader” and Mr. Somphote Ahunai – Chief Executive Officer received award “THE BIZZ 2016 World leader Businessperson” as the leader in innovation and working system to enhance the successful of the company. The awards was held by World Confederation of Business
- The Company received award “Outstanding Investor Relations Awards” and “Best Investor Relations Awards” at the SET Awards 2016 held by the Stock Exchange of Thailand and the Financial Bank Journal.

- The “APEA 2016” award. Mr. Amorn Saphthaweeikul - Director and Deputy CEO of the Company received the award “The Asia Pacific Entrepreneurship Awards - Most Promising Category” from Enterprise Asia. The award given to the executive who has vision, and ability to lead the Company to achieve goals. Enterprise Asia is a regional non-governmental organization (NGO) that can connect to the leader of enterprise in Asia Pacific

Year 2017

- The Stock Exchange of Thailand approved the securities of the company to be traded on the SET from January 6, 2017 onwards as well as considered to be included in the SET50 index from July 1, 2017 and included in the FTSE SET Large Cap from December 18, 2017
- The Company received award “Thailand Top Company Awards 2017 Top Business Strategy Award” as the best performance of Creative Business Strategy, held by Business+ Magazine and University of the Thai Chamber of Commerce (Faculty of Business administration)
- The Company received “Popular Award – mai” as the fifth consecutive year held by Kaohoon business newspaper, the Stock Exchange of Thailand and the Market Alternative Investment (mai)
- The Company received awarded “Outstanding Investor Relations Awards” at the SET Awards 2017 held by the Stock Exchange of Thailand and the Financial Bank Journal.
- The Company Power Plant received award held by THAILAND GREENHOUSE GAS MANAGEMENT ORGANIZATION (PUBLIC ORGANIZATION) classified as 3 Honor Plaques and 3 certificates for the Solar Power Plant Projects in Nakhonsawan, Lampang and Pitsanulok, 1 Honor Plaque for The Wind Power Plant Project (Hadjkunghun Project) in Songkla and Nakhonsrithammarat.

EA Group Structure



As at 31 December 2017

Note :

Growatt Power : Shenzhen Growatt Power Technology Co., Ltd.	EMN : Energy Mahanakhon Co., Ltd	EMMA : Emma Corporation Ltd.	MMR : Mine Mobility Research Co., Ltd
ERH : EA Renewable Holding Co., Ltd.	EBI : EA Bio Innovation Co., Ltd.	SR (1997) SOLAR : Surachai (1997) Solar Co., Ltd.	ESN : EA Solar Nakhornsawan Co., Ltd.
NYKD : Nanyangklak Development Co., Ltd.	ESP : EA Solar Phisanulok Co., Ltd.	EWHK2 : EA Wind Hadkanghan 2 Co., Ltd.	WNYK : Wind Nanyangklak Co., Ltd.
TWFF : Thepsathit Wind Farm Co., Ltd	WPGS : Wind Progressive Co., Ltd.	PND : Pongnok Development Co., Ltd.	BCD : Banchuan Development Co., Ltd
AMITA : Amita Technologies Inc.	POP : Paypop Co., Ltd	GTR : Green Technology Research Co., Ltd	EBR : Energy Beyond Research Co., Ltd
ESL : EA Solar Lampang Co., Ltd.	SR (1997) : Surachai (1997) Co., Ltd	EA SOLAR : EA Solar Co., Ltd	ESM : Energy Solution Management Co., Ltd.
NWP : Nanyangklak Wind Power Co., Ltd.	EWHK1 : EA Wind Hadkanghan 1 Co., Ltd.	EWHK3 : EA Wind Hadkanghan 3 Co., Ltd.	
	BJRD : Benjarat Development Co., Ltd.	WTSP : Wind Tossaphum Co., Ltd.	

Relationship with the major shareholder's business group

There are no business operations between the Company and The major shareholder group.

Nature of business

The Company's and Company Group's business lines are categorized as following.

- **Production and distribution of biodiesel**

Comprises of B100 biodiesel, high speed diesel, purified glycerin and by-products from the said productions. The Company has been granted a license of Oil Trader pursuant to Section 7 of the Fuel Trade B.E. 2543 (trader who has trade volume of each type of fuel or in all types altogether per year equal/over 100,000 metric tons or exceeding 120 million liters) For high speed diesel, due to the impact from fluctuation of crude oil price, the Company is slow down marketing activity

- **Renewable Energy Power Plant**

The Company expand to operate 4 solar power plants with aggregate capacity of 278 megawatts, 8 wind power plant projects with aggregate capacity of 386 megawatts (the projects are in pipeline as of 31 December 2017).

- **Development and Production of Battery**

On the 7 December 2016, the Company invested in newly issued ordinary shares of 35.20% of the total issued and paid-in shares of Amita Technologies Inc. ("Amita"). Amita has been established under the law of Republic of China (Taiwan) and listed in Emerging Stock Market (ESM) of Taipei Stock Exchange, engaging in the business of developing and manufacturing lithium-ion polymer battery. The production capacity is approximately 80 MW/ year. This investment is for business expansion and enhance competitiveness of the Company, as well as to comply with the Company's environmentally friendly business operation policy

On November 3, 2017, the Company additionally invested by buying additional shares from existing shareholders of Amita through the system of Taiwan Stock Exchange (Emerging Stock Market), representing an increase in shareholding of 15.49%. As a result of this acquisition, the Company is holding shares of Amita at 50.69% of Amita's total issued and paid-up shares.

- **EV Charging Stations and Electronic Transaction**

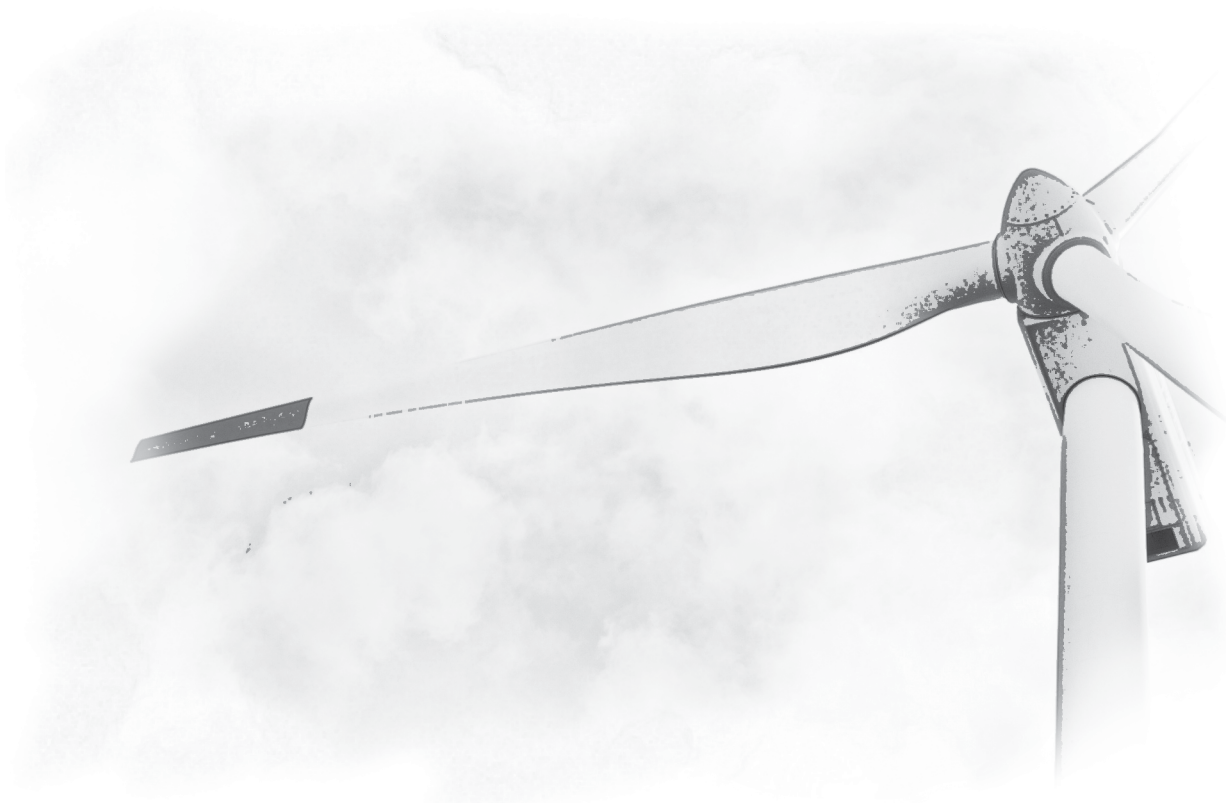
The Company has expanded its business to EV charging stations for electrical automotive under the trademark of "EA Anywhere", the objectives are to apply clean energy to the automotive industry to reduce carbon dioxide emissions for promoting the use of environmentally friendly energy. This business is operated by a direct subsidiary - Energy Mahanakhon Co., Ltd. This EV Charging Station is the station serves the charging of electrical automotive with plug-in hybrid type and battery type and can charge up to 22 kWh / hr. However, this business will enhance the competitiveness of the Company in renewable energy business and comply with the Company's policy on environmental friendly business.

- **Research and Development Business**

In previous year, the Company established a subsidiaries - Green Technology Research Co., Ltd. and Energy Beyond Research Co., Ltd.- to research and develop palm-oil-related products and lithium battery, respectively with the objectives to further develop new products, to develop the Company's potential and quality of its products and to enhance the competitiveness of Company Group to be sustainable in the long run.

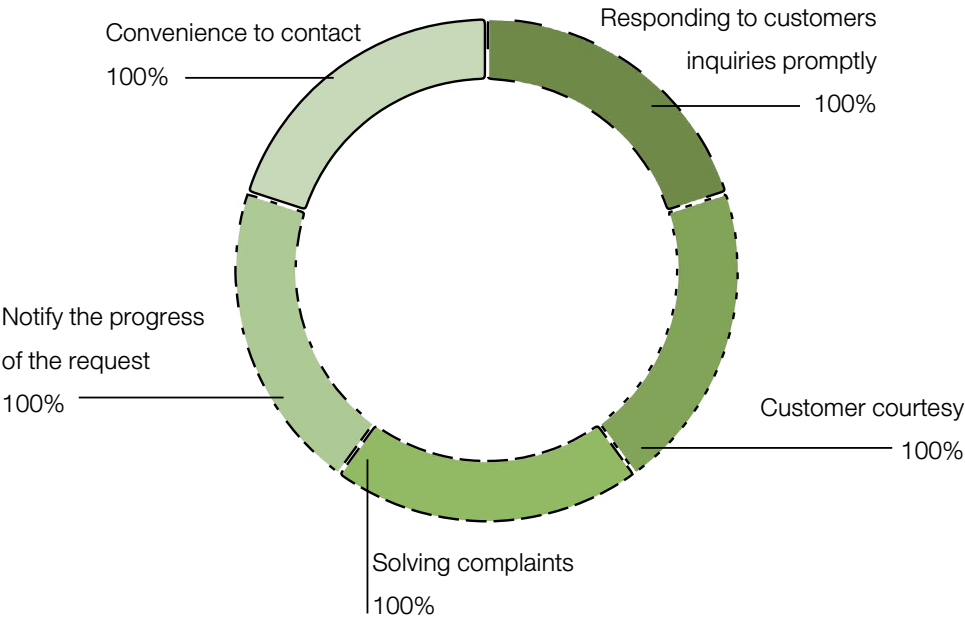
Structure of income

Type of income	Year 2015		Year 2016		Year 2017	
	Revenue		Revenue		Revenue	
	(Million Baht)	%	(Million Baht)	%	(Million Baht)	%
• Biodiesel						
1. Biodiesel oil	5,005.33	54.33	4,721.13	45.23	4,205.20	36.20
2. Purified glycerin	220.32	2.40	169.49	1.62	267.07	2.29
3. byproducts	16.06	0.17	11.32	0.11	14.16	0.12
• Renewable Energy Power Plant						
4. Solar Power Plant and Wind Power Plant	1,360.39	14.77	1,786.31	17.11	2,422.15	20.75
5. Adder payment	2,595.25	28.17	3,704.14	35.48	4,670.94	40.01
Total income from sales	9,197.35	99.84	10,392.39	99.55	11,579.52	99.19
6. Other income	14.82	0.16	46.86	0.45	93.98	0.81
Total income	9,212.17	100.00	10,439.25	100.00	11,673.50	100.00

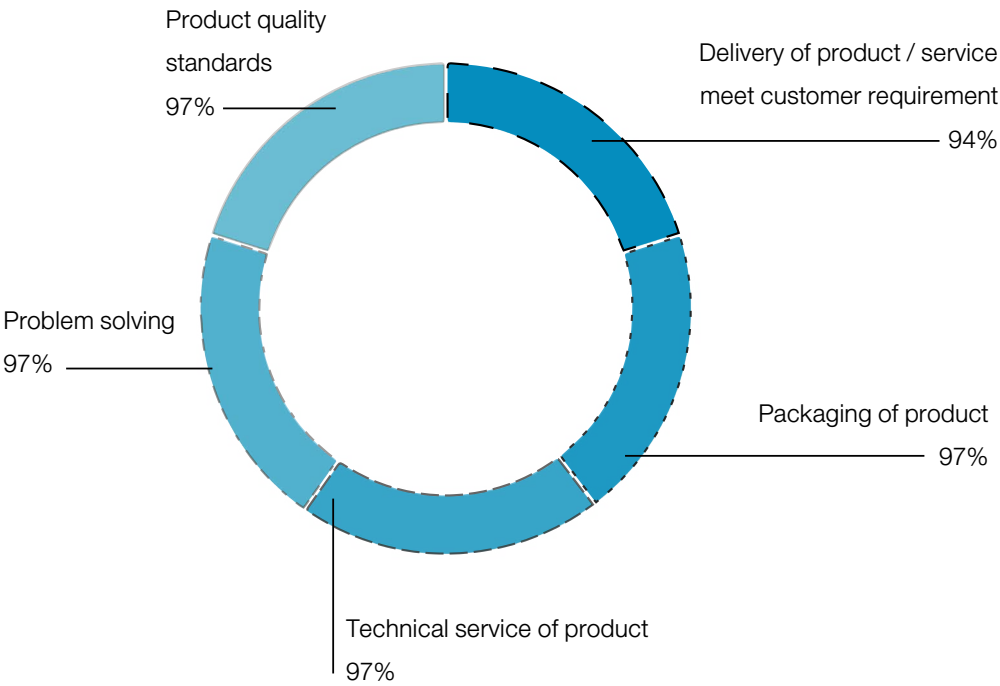


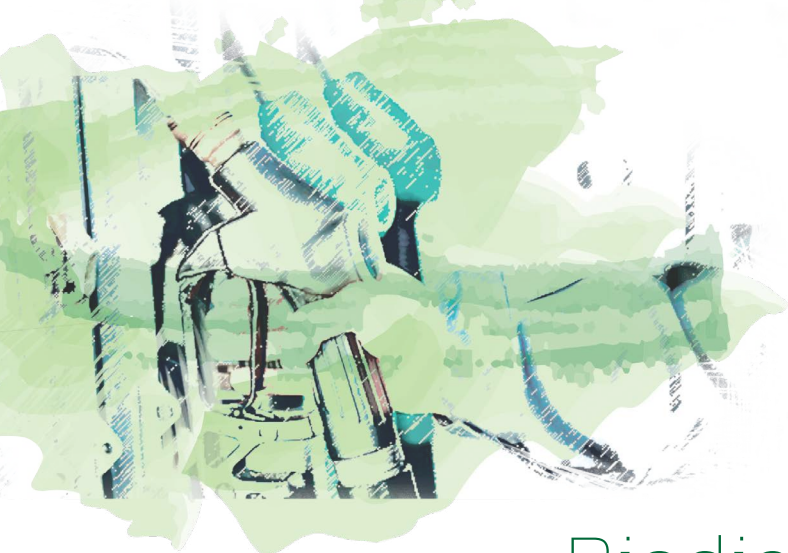
Indicator performance of the Company : Customers' satisfaction

Services



Product quality










Biodiesel Business



Biodiesel

-  2% Biodiesel and Diesel 98%
-  3% Biodiesel and Diesel 97%
-  4% Biodiesel and Diesel 96%
-  5% Biodiesel and Diesel 95%
-  7% Biodiesel and Diesel 93%



Purified glycerin



Medical supplies



Food industry



Cosmetics



Raw materials and byproducts



Crude glycerin



Free fatty acid



Palm fatty acid

Biodiesel business

Nature of product

1. Biodiesel (B100):

B100 Biodiesel is to apply a liquid fuel made from vegetable oil and animal fat, such as Crude Palm Oil (CPO), Refined Bleached Deodorised Palm Oil (RBD), Stearine in a chemical reaction called Transesterification Process of Triglyceride which exists in vegetable oil and animal fat and then combine it with alcohol such as methanol, etc. to generate Ester substance having a similar property to diesel fuel that can directly be substituted for diesel fuel which can be called B100 biodiesel. The B100 biodiesel refers to a fuel which contains only biodiesel used as diesel.

High speed diesel fuel is typically used with high speed diesel engines with performance up to 1,000 rpm or more i.e. diesel engine cars, small trucks, big trucks, tractors, fishing boats, passenger boats, generators in vessels etc. As for the Company's distribution of High speed diesel, due to the volatility of crude oil prices, the Company has delayed the marketing for High speed diesel but still keeps contact with the customers to maintain relationships and constantly monitor the situation.

2. Purified glycerin:

Purified glycerin has characteristic of liquid, transparent, colorless, scentless, sweet taste, 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, etc.

Purified glycerin is made by refining raw glycerin from biodiesel production process through glycerin refining process. Purified glycerin is one of the Company's products using as an ingredient in many types of products such as cosmetic, medicine and consumer daily products such as toothpaste, etc.

3. Byproducts :

In addition to the main products mentioned above, the Company has income from byproducts from biodiesel production i.e. Crude Glycerin and Free Fatty Acid (FFA). Presently, the Company stopped selling a byproduct obtained from Palm Oil refining which is Palm Fatty Acid Distillate (PFAD) because the Company's production process has been developed to use FFA and PFAD in biodiesel production.

Privilege and Benefit promoted by BOI

The Company received promotional privilege from the BOI under the Investment Promotion Act B.E. 2520 the details as following:

Type of business to be promoted	Promotion Card No.	Capacity to be promoted	Date of BOI 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 litres/year	6 May 2015
3. Refined Bleached Deodorized Palm Oil production (RBD)	1889(2)/2554	178,200 tons/yea	24 November 2017

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

Main privilege and benefit promoted by BOI are as follows:

Biodiesel production : privilege and benefit the Company receives are:

- 1) Exemption of import duties on machinery
- 2) 8-year corporate income tax exemption without being subject to a corporate income tax exemption cap, from the date of having income
- 3) Exemption in dividend received without being subject to income tax until the promoted period ends.
- 4) 5-year corporate income tax exemption, accounting for 50% of investment, from the expiration as per article 2.
- 5) Double deduction for transportation, electricity and water costs for 10 years from the date of first revenue derived from the promoted activity
- 6) Deduction from net profit of 25% of the project's infrastructure installation or construction costs shall be granted in addition to normal depreciation.

Purified glycerin production: privilege and benefit the Company receives are:

- 1) Exemption of import duties on machinery as approved by the Board of Investment
- 2) 75% reduction of import duties for raw or essential materials for 1-year from the date of first import
- 3) 8-year corporate income tax exemption, accounting for 100% of investment, excluding cost of land and working capital from the date of first revenue derived from the promoted activity
- 4) Exemption in dividend received without being subject to income tax until the promoted period ends.
- 5) 5-year corporate income tax exemption, accounting for 50% of investment, from the expiration as per article 3
- 6) Double deduction for transportation, electricity and water costs for 10 years from the date of first revenue derived from the promoted activity
- 7) Deduction from net profit of 25 % of the project's infrastructure installation or construction costs shall be granted in addition to normal depreciation.
- 8) Exemption of import duties on raw material and essential material from abroad in order to produce the production for exporting for the period 5 year from first import
- 9) 5-year exemption of import duties for raw or essential materials from the date of first import

Refined Bleached Deodorized Palm Oil production (RBD) : privilege and benefit the Company receives are:

- 1) Exemption of import duties on machinery.
- 2) 8-year corporate income tax exemption, accounting for 100% of investment, excluding cost of land and working capital from the date of first revenue derived from the promoted activity.
- 3) Exemption in dividend received without being subject to income tax until the promoted period ends.
- 4) 5-year corporate income tax exemption, accounting for 50% of investment, from the expiration as per 2.
- 5) Double deduction for transportation, electricity and water costs for 10 years from the date of first revenue derived from the promoted activity.
- 6) Deduction from net profit of 25 % of the project's infrastructure installation or construction costs shall be granted in addition to normal depreciation.

The Company obtained the certification of following standards such as ISO 9001 : 2008 (Quality Management Systems), Roundtable on Sustainable Palm Oil (RSPO), Kosher Standard, Environmental Management Systems: ISO 14001 : 2015, Occupational Health and Safety Management Systems: OHSAS 18001 : 2007, Energy Management and also certified of Green Industry Level 3: Green System (GI3) to systematically manage environment. The objectives are to develop and improve systematic management to be complied with requirements, law and have good working environment, providing employees safety in working and to represent the commitment to be responsible in society and environment , both internal and external for corporate good image.

Marketing and competition

Marketing Policy

1. Product strategy (Product)

The Company is a manufacturer and distributor 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 as well as research and development (R&D) in order to seek for new material with lower price for production of quality biodiesel. All these comprises to creation of competitive performance and adding value to the products in the long term.

Raw materials are examined by collecting sample from all production tanks for quality control where any materials which is not in line with our 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 the product quality.

2. Pricing strategy (Price)

The product prices are stipulated by types of products 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 number. However, the Company set the selling price of biodiesel at the rate higher than the announced price, deduct with discount which is varied depending on a particular period of time. The Company will offer the selling 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 price cannot be made at lower rate than the announced price without approval from the meeting of the Executive Committee

(2) Purified glycerin

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

(3) Byproducts

Byproducts from the biodiesel production is crude glycerin for which the Company set policy to sell byproducts in market price

3. Strategy of sale channel (Place)

The Company distributes its biodiesel products directly to major oil distributors through sales and marketing department. Furthermore, the Company may offer more discount to the particular major customers to increase quantity of the products sold and subsequently the cost of production is also reduced (Economies of scale).

The customers of purified glycerin are companies that using glycerin as a raw material in their production process or the distributors of chemical supplies, consumer goods etc. Since 2011, the Company has expended its sale channel and customer base for purified glycerin by focusing more on oversea customers i.e. India, Pakistan, Bangladesh.

4. Marketing and PR strategy (Promotion)

The company has applied the marketing and PR strategy by maintaining quality of production to meet standard requirements and emphasized the good relationship with customers to maintain its existing customer base, additionally, the Company has also developed the operations and asked for the certifications of various industrial standards to ensure the business operation and also tried to seek new customers to expand its customer base in the same time.

Furthermore, the Company not only focuses on serving customer by planning with customers together about the details of transport and deliver i.e. product quantity, date and time of deliver to ensure our customers, but also being punctual with services to meet customers' requirements by planning our internal production and procurement for the utmost effectiveness.

Target groups

Target groups of the Company are divided by product types as follows:

(1) Biodiesel (B100)

Our main customers are fuel traders as per Section 7 and Section 10 of which mostly are the major oil distributors of Thailand. More than 99% of the biodiesel sale volumes are from these major oil distributors. Most of the sale contracts made with the big customers are for a period of 3-6 months, maximum period is 1 year.

(2) Purified glycerin

Purified glycerin can be divided into different grades based on the purity level, the Company produces glycerin at the lower purity ranging between 99.50-99.85% (the purity of more than 99.50% is categorized in Pharmaceutical Grade). The target groups of purified glycerin are domestic customer 78% and overseas customer 22% such as India where glycerin is used as a raw material or manufacturer and distributor of chemicals.

(3) Byproducts

Client of the Company are manufacturers and distributors of chemical supplies both inside the country and overseas.

Industry Competition

As of December 2017, Department of Energy Business, Ministry of Energy announced list of approved manufacturer – Fatty acid methyl ester for distribution or stock the biodiesel for sale as follows:

Company	Capacity (Liter/day)	Date of Approval	Expiry date of License
New Biodiesel Co., Ltd.	1,000,000	20 Jul 2017	31 Jul 2020
Absolute Power P Co., Ltd.	300,000	29 Sep.2017	25 Sep 2020
Bio Energy Plus Two Co., Ltd.	200,000	3 Aug. 2015	2 Aug 2018
Bio Synergy Co.,Ltd.	30,000	25 Sep 2015	24 Sep 2018
Bangchak Biofuel Co., Ltd.	810,000	19 Dec 2015	18 Dec 2018
Global Green Chemicals Plc.	1,028,600	14 Nov 2016	17 Feb 2019
Bangchak Petroleum Plc.	50,000	1 Jun 2016	6 Jun 2019
Energy Absolute Plc.	800,000	27 May 2016	6 Jun 2019
Patum Vegetable Oil Co., Ltd.	1,400,000	1 Jun 2016	6 Jun 2019
GI Green Power Co., Ltd.	200,000	6 Jun 2016	14 Jun 2019
AI Energy Plc	500,000	6 Jun 2016	14 Jun 2019
Verasuwan Co., Ltd.	200,000	1 Jun 2016	14 Jun 2019
Trang Oil Palm Co., Ltd.	100,000	23 Aug 2017	22 Aug 2020
Total	6,618,600		

Remark : Reference from <http://www.doeb.go.th/info/data/dataoil/SaleB100.pdf>

Procurement of material / products

The Company realizes the importance of procurement of raw material for production of biodiesel (B100) as a part of continual development in production process which currently provide biodiesel 800,000 liter/day and glycerin 80 ton/day. The Board of Directors' meeting no. 2/2012 held on 30 March 2012 passed a resolution to appoint the procurement committee which comprises of representative from production, purchase and sale department under supervision of the Executive Committee. The procurement committee is appointed to enhance efficiency of procurement plan to be in line with market situation by information provided from the production department as a supplementary factor. The Company believes that proper procurement plan enables effective competitiveness in long term. The procurement criteria of the Company are as follows:

1. Crude palm oil (CPO), stearine and refined bleached deodorized palm oil (RBD)

The crude palm oil, stearine and RBD are main raw materials used in production of biodiesel. These materials are supplied to the Company directly by regular suppliers. The Company chooses suppliers from different regions i.e. south, east, central in order to prevent risk of insufficient supplies. At present, the domestic producers of crude palm oil comprises of more than 100 palm pressing factories. We carefully selected more than 30 suppliers for procurement procedure and have never experience any significant issues. Furthermore, the Company carries on development of production process to enlarge 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 production of biodiesel in order to reduce risk of insufficient supplies as a result of price fluctuation.

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

2. Methanol

Methanol is a substance input in transesterification process of which the Company procures from domestic suppliers.

3. Catalyst

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

4. Activated Carbon

Activated Carbon is used to decolorization of glycerin, supplied by domestic chemical supplies distributors.

Production capacity and Management

The production capacity during the year 2015 – 2017 are categorized by type of product which received promotional privilege from the Board of Investment (BOI) and in part which does not under BOI privilege (NON-BOI). The details are as follows:

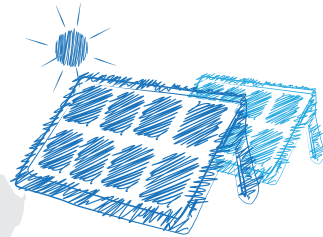
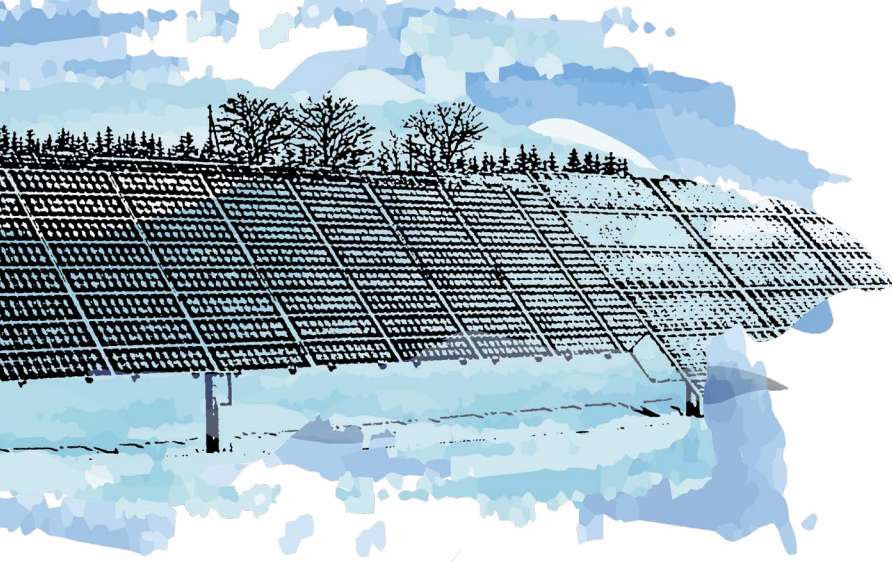
	Year 2015			Year 2016			Year 2017		
	Non BOI	BOI	Total	Non BOI	BOI	Total	Non BOI	BOI	Total
Designed Capacity (A)									
: Biodiel (Liter/day)	-	800,000	800,000	-	800,000	800,000	-	800,000	800,000
: Purified Glycerin (Ton/day)	-	80	80	-	80	80	-	80	80
Production quantity									
: Biodiel (Liter/day)	-	524,741	524,741	-	417,571	417,571	-	478,790	478,790
: Purified Glycerin (Ton/day)	-	42	42	-	35	35	-	40	40
Capacity Ratio									
: Biodiel (%)	-	65.59	65.59	-	52.20	52.20	-	59.85	59.85
: Purified Glycerin (%)	-	52.50	52.50	-	43.75	43.75	-	50.07	50.07

Remark : The rate is calculated from an hour of full capacity (Full Capacity)

Undelivery work

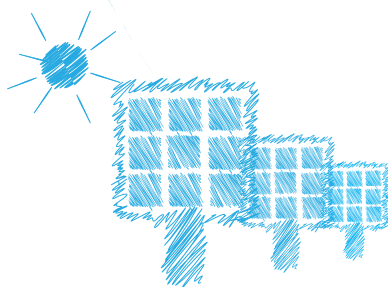
- Nil -





Solar Power Plant

- ☀ Lopburi
capacity 8 MW
- ☀ Nakhon Sawan
capacity 90 MW
- ☀ Lampang
capacity 90 MW
- ☀ Phitsanulok
capacity 90 MW



Total Capacity
278 MW

Renewable Energy Power Plant Business

Nature of Product and Service:

The Company group generate and distribute the electricity from renewable energy for state authorities ie. Provincial Electricity Authority (PEA) and Electricity Authority of Thailand (EGAT).

Solar Power Plant

The Company group generates and distributes the electricity from solar power, there are 4 power plants which already operated in commercial with the aggregate capacity of 278 megawatts. The details are summarized as follows:

Projects	Production Capacity	Project Status/Progress
(1) Solar Power Plant at Lopburi	8 megawatts	Commercial Operation Date (COD) on 17 October 2012
(2) Solar Power Plant at Nakhon Sawan	90 megawatts	Commercial Operation Date (COD) on 23 December 2013
(3) Solar Power Plant at Lampang	90 megawatts	Commercial Operation Date (COD) on 17 February 2015
(4) Solar Power Plant at Phisanulok	90 megawatts	Commercial Operation Date (COD) on 1 April 2016
Total Capacity	278 megawatts	

1. 8-MW Solar Power plant at Lopburi province

- Being the first solar power plant, of the Company, categorized as a very small power producer, and is under operation of EA Solar Co., Ltd., a subsidiary of the Company .The power plant is located at located at No. 188 Village No. 3, Koktoom-Pasak River Road (Highway no. 3333) Km.21, Pattananikhom Sub-District, Pattananikhom District, Lopburi Province, with an area of approximately 315 rais.
- EA Solar Co., Ltd. entered into Power Purchase Agreement (PPA) with the PEA. The contract period is 5 years and will be automatically renewed upon expiration for another 5 years unless the PPA is terminated.
- The COD is on 17 October 2012
- Adder for VSPP-renewable energy is in the rate of Baht 8 / kWh for a period of 10 years from COD.
- Under BOI privilege for 8-years corporate income tax exemption, thereafter 50% reduction of corporate income tax for the next 5 years.

2. 90-MW Solar Power plant at Nakhon Sawan province :

- The 90-MW solar power plant at Nakhon Sawan is operated by a subsidiary – EA Solar Nakhornsawan Co., Ltd. which is categorized as Small Power Producer : SPP. The solar power plant is located at No. 747 Moo11, Huawai SubDistrict, Taklee District, Nakhon Sawan Province, with an area of approximately 1,894 rai.
- EA Solar Nakhornsawan Co., Ltd. entered into Power Purchase Agreement (PPA) with EGAT. The PPA is valid for 5 years with conditions to extend the period of contract for 5 years of each time extension upon the party send notice not less than 30 days prior to the expiry date of PPA
- The COD is on 23 December 2013
- Adder for SPP – renewable energy is in the rate Baht 6.50/kWh for a period of 10 years from COD
- Under BOI privilege for 8-years corporate income tax exemption, thereafter 50% reduction of corporate income tax for the next 5 years.

3. 90-MW Solar Power plant at Lampang province:

- The 90-MW solar power plant at Lampang is operated by subsidiary – EA Solar Lampang Co.,Ltd. which is categorized as Small Power Producer : SPP. The solar power plant is located at No. 333 Moo 1 Banouam Sub-District , Muang Lampang District, and Nonglom Sub-District, Hang Chat District, Lampang Province, with an area of approximately 2,477 rai
- EA Solar Lampang Co.,Ltd. entered into Power Purchase Agreement (PPA) with EGAT. The PPA is valid for 5 years with conditions to extend the period of contract for 5 years of each time extension upon the party send notice not less than 30 days prior to the expiry date of PPA
- The COD is on 17 February 2015
- Adder for SPP – renewable energy is in the rate Baht 6.50/kWh for a period of 10 years from COD
- Under BOI privilege for 8-year corporate income tax exemption, thereafter 50% reduction of corporate income tax for 5 years.

4. 90-MW solar power plant at Phitsanulok province

- The 90-MW solar power plant at Phitsanulok is operated by subsidiary – EA Solar Phisanulok Co.,Ltd. which is categorized as Small Power Producer : SPP. The solar power plant is located at No. 88 Moo11, Matong Sub-District, Prompiram District, Phitsanulok Province, with an area of approximately 2,279 rai
- EA Solar Phisanulok Co.,Ltd. entered into Power Purchase Agreement (PPA) with EGAT. The PPA is valid for 5 years with conditions to extend the period of contract for 5 years of each time extension upon the party send notice not less than 30 days prior to the expiry date of PPA
- The COD is on 1 April 2016
- Adder for SPP – renewable energy is in the rate Baht 6.50/kWh for a period of 10 years from COD
- Under BOI privilege for 8-year corporate income tax exemption, thereafter 50% reduction of corporate income tax for 5 years.

The privileges and benefits granted by the Board of Investment (BOI)

Type of business to be promoted	Promotion Card No.	Capacity per year	Date of BOI approval
1. Solar Power Plant	2467 (1)/2554	8 megawatts	17 November 2011
2. Solar Power Plant	1251(1)/2556	90 megawatts	20 May 2013
3. Solar Power Plant	2076(1)/Or./2557	90 megawatts	3 September 2014
4. Solar Power Plant	58-2034-0-00-2-0	90 megawatts	10 July 2015

The privileges granted by BOI under Solar Power Plant Section 7.1: Public Utilities and basic services granted by are as follows:

- 1) Exemption of import duties on machinery.
- 2) 8-year corporate income tax exemption, accounting for 100% of investment, excluding cost of land and working capital from the date of first revenue derived from the promoted activity.
- 3) Exemption in dividend received without being subject to income tax until the promoted period ends...
- 4) 5-year corporate income tax exemption, accounting for 50% of investment, from the expiration as per (2)
- 5) Double deduction for transportation, electricity and water costs for 10 years from the date of first revenue derived from the promoted activity.
- 6) Deduction from net profit of 25 % of the project's infrastructure installation or construction costs shall be granted in addition to normal depreciation.

Wind Power Plant

The Company group generate and distribute the electricity from wind energy, there are totally 8 projects including power plant which already operated in commercial and projects having status in the plan: Total Production Capacity is 386 megawatts

1. 3 Wind power plant projects with the aggregate capacity of 126 megawatts (Hadjkanghan 1-3 projects : "the Project") in Songkhala and Nakhonsithammarat

- The Projects are operated by a subsidiary - EA Wind Hadjkanghan 3 Co., Ltd.(EWHK3) The projects are located at Hua-Sai Sub-District, Hua-Sai District, Nakhonsithammarat Province, Ranot District, Songkhla Province and categorized as Small Power Producer : SPP
- EWHK3 entered into PPA with EGAT. The PPA is valid for 5 years with conditions to extend the period of contract for 5 years of each time extension upon the party send notice not less than 30 days prior to the expiry date of PPA
- Adder is in the rate Baht 3.50/kWh for a period of 10 years from COD
- Under BOI privilege for 8-year corporate income tax exemption, thereafter 50% reduction of corporate income tax for 5 years.

- Commercial Operation Date : COD of each project are as follows:

Project	Capacity	Location	Status
			Commercial Operation Date (COD)
Hadkanghan1	36 megawatts	Ranode District, Songkhla Province	2 March 2017 (Time 12.00 hr.)
Hadkanghan 2	45 megawatts	Husai District, Nakhonsithammarat Province	10 June 2017 (Time 12.00 hr.)
Hadkanghan 3	45 megawatts	Pakphanang District, Nakhonsithammarat Province	20 June 2017 (Time 12.00 hr.)
Total	126 megawatts		

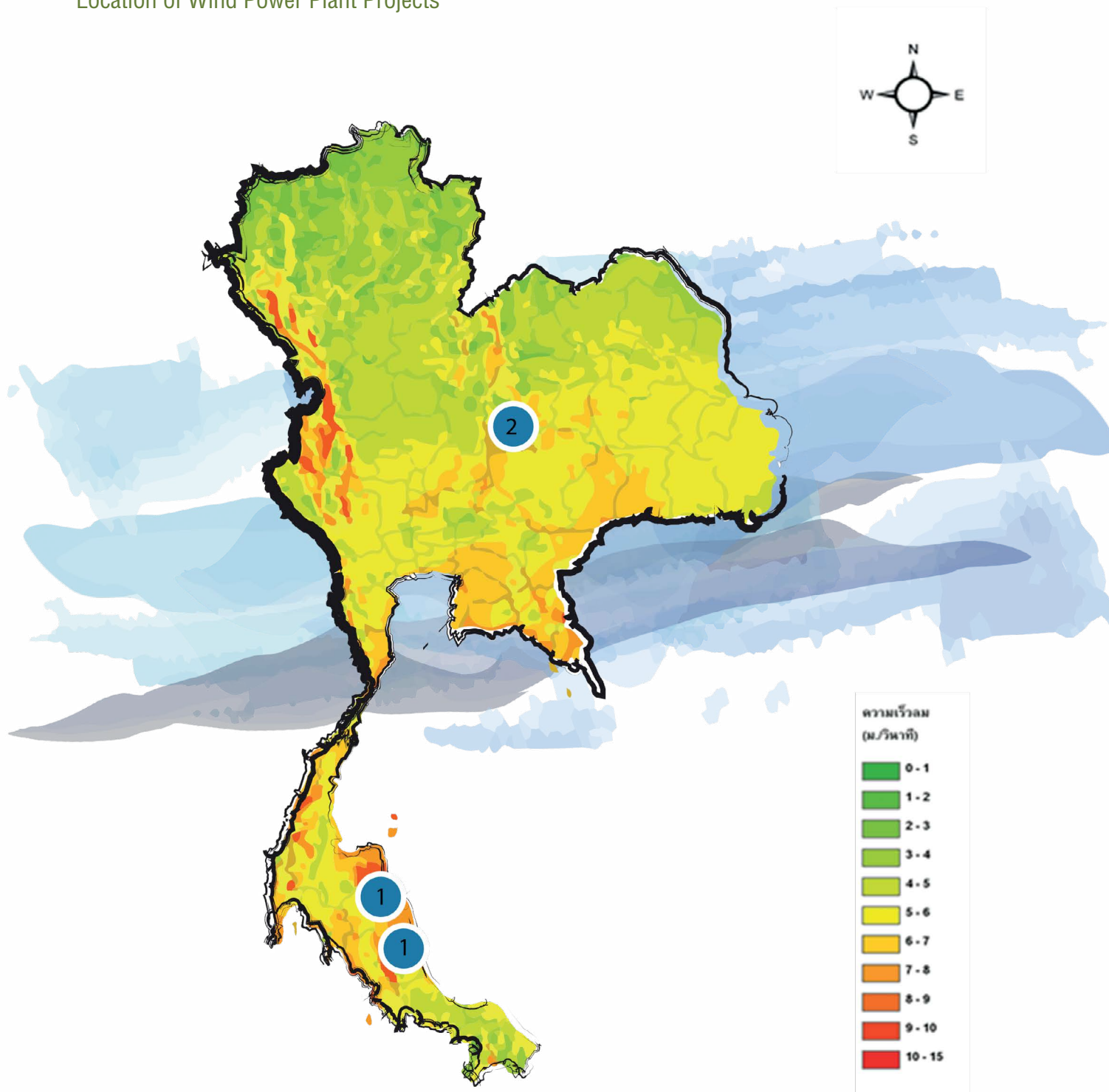
2. 5 Wind power plant project with aggregate capacity of 260 megawatts (Hanuman 1, 5, 8, 9, 10 project : “the Project”) in Chaiyaphum

- The Projects are operated by 5 indirect subsidiaries. The projects are located at Thebsathit District, Nong Bua Rawe District and Bamnet Narong District, Chaiyaphum Province and categorized as Small Power Producer : SPP
- indirect subsidiaries entered into PPA with EGAT. The PPA is valid for 5 years with conditions to extend the period of contract for 5 years of each time extension upon the party send notice not less than 30 days prior to the expiry date of PPA
- Adder is in the rate Baht 3.50/kWh for a period of 10 years from COD
- Under BOI privilege for 8-year corporate income tax exemption, thereafter 50% reduction of corporate income tax for 5 years.
- The Project is under process to select wind turbine supplier, design, civil work for which it is expected to complete construction and commence commercial operation around mid of the year 2018 (as per info. end of the year 2017)

Project	Capacity	Location	Status	Scheduled Commercial Operation Date (SCOD)
Hanuman 1	45 megawatts	Nayangklak Sub-district, Thebsathit District, Chaiyaphum Province	Signed a Power Purchase Agreement (PPA)	30 April 2018
Hanuman 5	48 megawatts	Pongnok Sub-district, Thebsathit District, Chaiyaphum Province	Signed a Power Purchase Agreement (PPA)	30 May 2018
Hanuman 8	45 megawatts	Nayangklak Sub-district, Thebsathit District, Chaiyaphum Province	Signed a Power Purchase Agreement (PPA)	30 April 2018
Hanuman 9	42 megawatts	Pongnok Sub-district, Thebsathit District, Chaiyaphum Province to Wangtakhe Sub-district, Nongbuarawe District Chaiyaphum Province	Signed a Power Purchase Agreement (PPA)	30 May 2018
Hanuman 10	80 megawatts	Banchuan -Kokphet Pattana Sub-district, Bamnetnarong District, Chaiyaphum Province	Signed a Power Purchase Agreement (PPA)	29 June 2018
Total	260 megawatts			

Remark : SCOD (Scheduled Commercial Operation Date) is the due date for releasing electricity to power system as stated in the PPA

Location of Wind Power Plant Projects



(1) Wind Power Plant Projects (Hadkanghan 1-3)

3 projects with aggregate capacity of 126 MW in Songkla and Nakhonsithammarat

(2) Wind Power Plant Projects (Hanuman 1,5,8,9,10)

5 projects with aggregate capacity of 260 MW in Chaiyaphum

Privileges granted by the Board of Investment (BOI)

Type of Business to be promoted	Promotion Card No.	Production Capacity to be promoted	BOI Approval Date
1. Wind Power Plant (Hadjkanghan 1)	1702(1)/2558	36 megawatts	12 February 2015
2. Wind Power Plant (Hadjkanghan 2)	1701(1)/2558	45 megawatts	12 February 2015
3. Wind Power Plant (Hadjkanghan 3)	1703(1)/2558	45 megawatts	12 February 2015
4. Wind Power Plant (Hanuman 1)	60-0055-0-13-2-0	45 megawatts	12 February 2015
5. Wind Power Plant (Hanuman 5)	60-0051-0-13-2-0	48 megawatts	12 February 2015
6. Wind Power Plant (Hanuman 8)	60-0052-0-13-2-0	45 megawatts	12 February 2015
7. Wind Power Plant (Hanuman 9)	60-0053-0-13-2-0	42 megawatts	12 February 2015
8. Wind Power Plant (Hanuman 10)	60-0054-0-13-2-0	80 megawatts	12 February 2015

The privileges granted by BOI under Solar Power Plant Section 7.1 : Public Utilities and basic services granted by are as follows:

- 1) Exemption of import duties on machinery.
- 2) 8-year corporate income tax exemption, accounting for 100% of investment, excluding cost of land and working capital from the date of first revenue derived from the promoted activity.
- 3) Exemption in dividend received without being subject to income tax until the promoted period ends.
- 4) 5-year corporate income tax exemption, accounting for 50% of investment, from the expiration as per.
- 5) Double deduction for transportation, electricity and water costs for 10 years from the date of first revenue derived from the promoted activity.
- 6) Deduction from net profit of 25% of the project's infrastructure installation or construction costs shall be granted in addition to normal depreciation.

Marketing and Competition

Marketing Policy

Future Tendency and Growth of alternative energy (Renewable energy) in the future.

Thai economy in the 3rd quarter of 2017 grew by 4.3 percent, increasing from 3.8 percent in previous quarter, it is the highest growth rate in last 18 quarters, after adjusting seasonal result, Thai economy in the 3rd quarter of 2017 was expanded from 2nd quarter of 2017 by 1.0 % (QoQ_SA), so it expanded 3.8% for the first 9 months of 2017, increasing from 3.3 % in the same period of previous year. While the growth rate of electricity production and distribution was increased by 4.4 % in line with the increase of electricity demand in major industrial sectors which were expanded in this quarter such as food production industry, beverage and tobacco industry, primary metal manufacturing industry, chemical, petroleum, coal industries and rubber & plastic industry, etc., including wholesale, retail, hotels & restaurants and household sector. (source from the Office of the National Economic and Social Development Board (NESDB) "Thai economy in the 3rd quarter of 2017 and its tendency in 2017 - 2018") With overall outlook for higher electricity demand and higher expansion of electricity production capacity,

the government has planned to expand the production capacity of electricity to meet the future demand, such plan will also included renewable energy. The Ministry of Energy has revised the Alternative Energy Development Plan (AEDP) in 2036 and such plan stipulates Thailand to produce electricity from renewable energy in 2036 for totally 19,634.40 megawatts as shown below.

Table of Development Plan for Alternative Energy Development Plant (AEDP) in 2036

Unit : MW

Energy Source	MW
Hydro – Power	3,282.40
Wind - Power	3,002.00
Waste to Energy	500.00
Biogas	600.00
Biomass	5,570.00
Solar PV	6,000.00
Others	680.00
Total	19,634.40

Source : Energy Policy and Planning Office, Ministry of Energy

Marketing strategy

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

Target groups / Distribution

The target groups for solar power plant and wind power plants are state authorities i.e.the Provincial Electricity Authority (PEA) is the main customer of 8 megawatt solar power plant in Lopburi province while the Electricity Generating Authority of Thailand (EGAT) is the main customer of 90 megawatt solar power plant in Nakhon Sawan, Lampang and Phitsanulok province. The target group of wind power plant are as described below. The sale contract made with state authorities is a part of government policy to support production of alternative energy, to reduce import of energy from abroad in a long term. Total projects of the Company are as follows:

Power plant project	Production Capacity	Contract Party
1. Solar power plant, Lopburi province	8 megawatts	Provincial Electricity Authority
2. Solar power plant, Nakhon Sawan province	90 megawatts	Electricity Generating Authority of Thailand
3. Solar power plant, Lampang province	90 megawatts	Electricity Generating Authority of Thailand
4. Solar power plant, Phitsanulok province	90 megawatts	Electricity Generating Authority of Thailand
5. Wind power plant, Hadkanghan 1, 2, 3	126 megawatts	Electricity Generating Authority of Thailand
6. Wind power plant, Hanuman project 1, 5, 8, 9, 10	260 megawatts	Electricity Generating Authority of Thailand
Total	664 megawatts	

Undelivery Work

-Nil-

Development and Production of Battery

Nature of Product

Amita Technologies Inc. (“Amita”) develops and manufactures Lithium Ion Polymer Battery including Lithium Nickel Manganese, Lithium Iron Phosphate (LFP) and Lithium Titanate (LTO). These batteries can be used with electricity automotive, electrical motorbike, electrical bicycle, UPS and Energy Storage for power plant.

The customer group of Amita based inc. is in Taiwan and other countries such as Japan, China and Germany.

EV Charging Stations (for Electrical Automotive) and Electronic Transaction Business

The Company has expanded its business to EV charging stations for electrical automotive under the trademark of “EA Anywhere”, which is operated by a direct subsidiary - Energy Mahanakhon Co., Ltd. The objectives are to apply clean energy to the automotive industry to reduce carbon dioxide emissions and to promote the use of environmentally friendly energy.

Nature of Product

- This EV Charging Station is the station serves the charging of electrical automotive with plug-in hybrid type and battery type and can charge up to 22 kW / hr / machine by AC Charger and 150 kW / hr / machine by DC Charger.

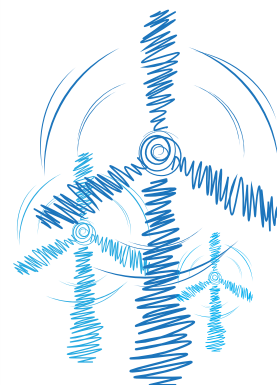
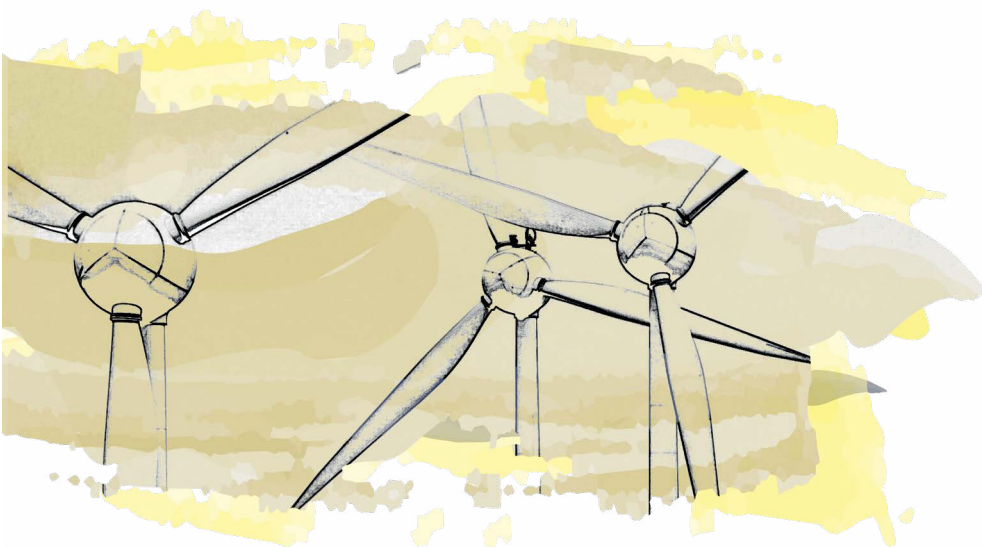
Research and Development Business

Nature of Product

The Company has registered to establish subsidiaries for research and development business as follows:

- (1) Green Technology Research Co., Ltd., was established to develop and create research and innovation to further expand and increase the value of agricultural products in the country. What is considered as the product or service of the company is the production process of products relating raw materials from palm in order to add more value to the product. This inventive production process can be patented and the customer target group of the Company will be companies in the company group.
- (2) Energy Beyond Research Co., Ltd. was established to develop and create research and innovation of Lithium Batter and power reserve system. What is considered as the product or service of the company is the production process of Lithium Batter and Battery Control System and other relevant innovations. Such innovation can be patented and the customer target group of the Company will be companies in the company group.

Since the research and development business from both companies above is established to support the business in the company group, therefore, the opportunity to compete with other competitors will be quite low.



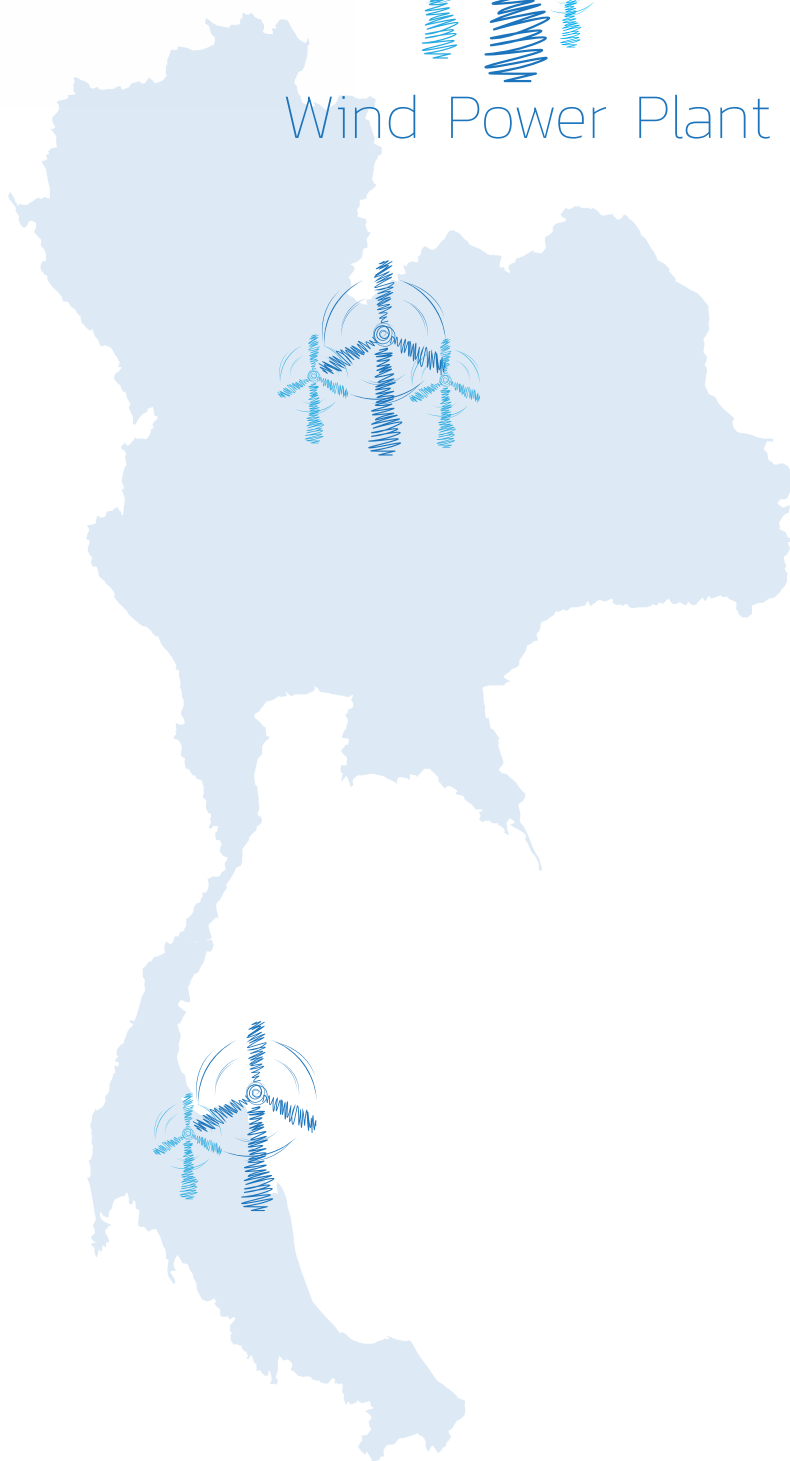
Wind Power Plant

Hanuman
the total capacity of
260 MW
in Chiyaphum

Hanuman 1: 45 MW
Hanuman 5: 48 MW
Hanuman 8: 45 MW
Hanuman 9: 42 MW
Hanuman 10: 80 MW

Hadkanghan
the total capacity of
126 MW
in Nakhon Si Thammarat
and Songkhla

Hadkanghan 1: 36 MW
Hadkanghan 2: 45 MW
Hadkanghan 3: 45 MW



Risk Factors

The Company's and Company Group's Business Operation Risks:

Business operation risks

1. Risk due to dependency on major customers

The advantage of dealing business only with major oil distributors in the country is the reliable financial and business relationship. The company believes that potential loss of a major customer is minimal. Company provides attractive offers to maintain relationship with major 6-7 customers i.e. sale agreement not exceed 30% of total sales. The sales to major customers of Thailand is credible according to their financial status. However, the portion may reduce according to the demand. For selling as sales agreement with period of 3 months, maximum 3 years plus discounted rate from the biodiesel price announced by the state authority to customers, discounted price for major customers upon sales contract renewal. Another positive factor supporting biodiesel business is pursuant to Section 7 which states that the oil trader (an oil trader who has trade volume of each type of fuel or in all types altogether per year from 100,000 metric tons or 120 million liters upwards) must use B100 biodiesel as a mixture in high speed biodiesel distribution. For this reason, it is guaranteed that the demand of B100 biodiesel will be increasing.

2. Risks from fluctuation of biodiesel price

Since biodiesel is one of renewable energy supported by the Government to maintain the stability of agricultural products (Oil Pam and Palm Oil) and the “development plan of renewable energy and alternative energy for 25% in 10 years (2012-2021)” has a guideline to use palm oil to produce biodiesel to B10, then farmers plant more palms, resulting more palm oil and oil palm injecting into the market, subsequent, palm oil is flooded, effecting the decrease of palm oil price and reflecting the lower cost of raw materials for biodiesel production. It also affects the lower price of biodiesel set by the Energy Policy and Planning Office (EPPO)

In 2017, the Department of Energy Business issued 3 Notifications regarding the determination of specifications and quality of diesel as follows:

- Notifications of the Department of Energy Business, RE: Specification for Appearance and Quality of Engine Oils (Issue 9), B.E. 2559 (2016), effective from 25 November, 2016 as follows:

No.	Specification	Range min/max	Diesel	
			High speed	Low speed
17	Methyl Ester biodiesel, 100% volume fatty acid (Methyl Ester of Fatty Acids, % vol.)	Not lower than and not over than	5.0 7	-

- Notifications of the Department of Energy Business, RE: Specification for Appearance and Quality of Engine Oils (Issue 10) , B.E. 2560 (2017), effective from 8 May 2017 as follows:

No.	Specification	Range min/max	Diesel	
			High Speed	Low speed
17	Methyl Ester biodiesel, 100% volume fatty acid	Not lower than and not over than	6.5 7	-

During 2013 - 2017, the area of palm oil plantation was increased by 5.72% while the product increased by 0.79% per year. In 2013, area of palm oil plantation, product and product per rai increased from 2016 as details below

	2017	2016	%
Area of palm oil plantation (Million Rai)	4.77	4.38	8.90
Product (Million Ton)	13.51	11.42	18.30
Product / Rai (Kgs)	2,831	2,605	8.68

Since the yielding lands are increased and oil palm trees has grown to bear fruit in the age range of 7-16 years which provide more proportion and products, then the yield of products per rai was increased (Reference: Report on “The Situation and Trends of Important Agricultural Products in 2018” issued by the Bureau of Agricultural Economic Research, Office of Agricultural Economics). Therefore, the government sector considered to adjust the mixture proportion of biodiesel to maintain supply-demand and stabilize palm oil prices to help farmers and the least impact on the people.

3. Risks from competition

At present, the competition of production and distribution of biodiesel tends to be more severe, upon the notification of the government sector to support renewable energy business, it is forecast that the Company will encounter higher risk from new competitor penetrating in domestic market, for example, more discount on selling price of biodiesel announced by the government sector, etc. However, with awareness toward severe competition, the Company has developed its production process to enlarge scopes of raw materials in order to create differentiation among competitors.

The Company can use Crude Palm Oil Grade B (CPO-B) as secondary raw material for biodiesel production, comparing to Crude Palm Oil Grade A (CPO-A), Crude Palm Oil Grade B (CPO-B) is cheaper and generates more Palm Fatty Acid Distillate (PFAD). Furthermore, our production process is capable of reusing PFAD in the biodiesel production process which is considered as an advantage. Having multiple choices of raw materials enables the Company to reduce cost of production per unit while maintain the product quality in standardized level. The Company also considers improving production process to increase value of byproducts such as purified glycerin.

4. Risks from changes of government policies

According to the information from 2015 to present, the Ministry of Energy has adjusted the portion of B100 biodiesel in diesel oil to be consistent with demand and supply during the particular time as follows:

Period	Portion of B100 biodiesel to diesel oil (percent)
	High speed diesel
1 January 2015 - 21 January 2015	Not lower than 6.5%
	Not higher than 7%
22 January 2015 - 15 April 2015	Not lower than 3.5%
	Not higher than 7%
16 April 2015 - 2 August 2015	Not lower than 6.0%
	Not higher than 7%
3 August 2015 - 24 July 2016	Not lower than 6.5%
	Not higher than 7%
25 July 2016 - 24 August 2016	Not lower than 5.0%
	Not higher than 7%
25 August 2016 - 24 November 2016	Not lower than 3.0%
	Not higher than 7%
25 November 2016 - 31 December 2016	Not lower than 5.0%
	Not higher than 7%
8 May 2017 - onward	Not lower than 6.5%
	Not higher than 7%

Source : Notification of the Department of Energy Business

Such adjustment is conducted to be consistent with the quantity of palm produced within the country. The risk of such change is the external factor uncontrollable by the Company, however, for overview in mid-term and long-term, the government has continued to promote the use of biodiesel.

Risks related to products and procurement

2. Risks from procurement of raw materials

Since Crude Palm Oil (CPO), Stearine and Refined Bleached Deodorized Palm Oil are main raw materials for the Company biodiesel production, the government sector is responsible for considering reserve volume of the palm oil to be sufficient for domestic demand and supply. This will be used as a supplementary information for policy determination concerning biodiesel production. The government also promotes production of biodiesel into high speed biodiesel based on existing reserves for commercial production and distribution nationwide. However, in the latter half of year, the oversupply of palm oil was increased when comparing to beginning stock of 2016 at approximately 191,000 Tons (Reference from Agricultural Trade Products Promotion Division 1, Department of Internal Trade, Ministry of Commerce), resulting from the overseas market price was lower than domestic price.

Therefore, exporters cannot export crude palm oil and it also resulted in the production of crude palm oil to be stopped due to lots of remained stock. This situation extremely impacted on the fluctuation of domestic price, when holders of crude palm oil who were holding lots of stock and lack of financial liquidity, they sometimes sold the product at the price below their cost a discount from time to time, this caused the Department of Internal Trade, Ministry of Commerce announcing the regular price of palm oil and palm oil lower (Reference from Agricultural Trade Products Promotion Division 1, Department of Internal Trade, Ministry of Commerce).

However, from such above problems, the Company encountered small obstacles to be unable to buy raw materials at the lowest price in the market at that time, but we can buy enough products to supply our production at not too high price. Presently, the Company acquires raw materials by trading from time to time and orders raw materials from the manufacturers of vegetable oil and palm oil refinery plant who are our main suppliers of raw materials to the Company without making long-term procurement contract. The Company may have a risk in raw material procurement in the event that manufacturers cannot produce or distribute raw materials to serve the Company according to the given amount, time and condition or if the raw material suppliers consider to invest in biodiesel production by themselves and cannot distribute raw materials to the Company anymore, the Company's operation may be affected.

Therefore, the Company has planned to prevent and mitigate the possible impact if such risks arise by trading and having good relationship with manufacturers and distributors of raw materials as well as conducted a policy of acquiring raw materials from various manufacturers in different regions in the country such as Crude Palm Oil (CPO), the Company buys it from the Palm Oil Refinery Plants located in the South. RBD Palm Oil and Stearine will be procured from major vegetable oil plants in the Central and East parts of Thailand to prevent risks in the event that some regions may have accidents or disasters causing insufficient yields or out of season. In addition, the Company also researched and developed the production process to apply secondary grade of Palm Oil (CPO-B) which is cheaper than CPO-A to the production with higher proportion than other manufacturers (Production with CPO-B will produce more fatty acids than using CPO-A). The production process can reuse Palm Fatty Acid Distillate (PFAD) which is a by-product of the production process to re-produce biodiesel. Therefore, the Company believes that the potential risks from the Company's raw material procurement will be reduced and the Company had never encountered such problems anyhow.

However, due to the geography of the company's biodiesel plant located in Prachinburi, it is quite far from the source of raw material. However, the cost of transportation is in the affordable rate and does not cause adverse impact comparing to other biodiesel producers. The Company also takes into account other possible positive factors comprises to increase competition performance i.e. implementation of new technology into production process to reduce cost of production, using coal which is cheap as a heating substance, improve machine performance to be compatible with more portion of CPO-B, a cheap raw material etc.

At present, palm plantation area is expanding to the East and Northeastern Region, in the future, the company expected that the location limitation will be gradually decreased and the Company will be obtained more benefits in the long term.

2. Risks from volatile price of raw materials subject to volatility of the world market

The volatility of raw materials required for biodiesel production such as crude palm oil, stearine, RBD palm oil are subjected to the variability of market demand and supply.

The Company realizes the potential risks from volatility of the price of raw materials, to minimize such risks, the purchase program is optimized to be consistent with advanced sale plan. Purchasing material in proper amount also lower risk of raw material price which could change any time. In addition, to manage price risks, the group is engaged in hedging through forward contract with business partners, enlarge scope of raw materials to be used as feedstock to biodiesel production. For instance, the Company has developed reuse palm fatty acid, free fatty acid-a byproduct from biodiesel production.

The procurement committee is set up in order to review, select, negotiate purchasing of raw materials in term of quality, quantity and price to be appropriate and enhance rapid performance in production process. The procurement committee is under supervision of the management.

Risks from management

1. Risks from dependency on the executives

The Company has been developed and grown under management of major shareholders and three main executives Mr. Sompote Ahunai, Mr. Amorn Saphaweekul and Mr. Wutthilerd Chiannilkulchai who are considered as directors authorized to sign on behalf of the Company, executive directors, senior executives and major shareholder. The three persons are competent in deep knowledge, expertise and experience in term of planning, development of technology and production process, procurement program, expansion of sale channel, development of biodiesel quality to meet the requirements of customers or business partners. Their scope of work also covers control and management of commercial operated solar power plants, development of new renewable energy projects which includes research, design, construction control and fund management to be completed in line with the approved plan by the Board of Directors, business expansion in order to create sustainable revenue and growth to the Company. In other word, it is concluded that the three main persons are the driving force of the Company.

To ease the risk of dependence on executives, the Company has organized and improved management structure consisting of decentralized parts of daily management, allocate and assign certain tasks and responsibilities to other executives as well as staffs from each department, implement internal control policies, well organize information and database, including support exchange of necessary information between executives and staffs regularly. The Company takes into account the importance of key personnel to the organization, therefore, our personnel is supported and encouraged to undergo training course to enable them to exercise their knowledge and competency while supporting their inside enhancement and recognizing their leading role. Moreover, the Company has recruited competent employees and management to support plan of business expansion and sustainable revenue and business growth.

2. Risks from documents related to power plant projects

The risks of unstable sale of electricity is minimal as the Company and its subsidiaries have made Power Purchase Agreement (PPA) with the Provincial Electricity Authority (PEA) for the 8-megawatt solar power plant in Lopburi (1 project), Power Purchase Agreement (PPA) with the Electricity Generating Authority of Thailand (EGAT) for the 90 megawatt solar power plants in Nakhon Sawan , Lampang and Phitsanulok provinces (3 projects), as well as wind power plants (Hadjkanghan project 1,2,3)with production capacity at 126 megawatts and the wind power plants (Hanuman 1,5,8,9,10) with production capacity at 260 megawatts, the Company already sold all power produced by the Company to the government sector.

However, the Company is still facing the risks of applying for relevant licenses including the failure to complete the construction within the specified period, the Company may not be able to produce and distribute the power as set out in the PPA made with the Electricity Generating Authority of Thailand (EGAT). However, in order to reduce such risk, the Company manages and monitors all relevant license to enable that all can be renewed / extend before the expiry date and reduces the risk related to power plant projects.

3. Risks from funding for power plant projects

The wind power plant projects (Hanuman 1, 5, 8, 9, 10) require high value investment. It is risk that the Company may not be able to manage the fund in term of capital and loan from the financial institutions within the specific time and such delay may affect the business operation. However, the Company has looked for financial advisory as to acquire loan from financial institutions (Project Finance) for the Company and subsidiaries projects.

The Company plans to acquire fund for construction of the wind power plants (the Hanuman Project) with debt per equity ratio (D/E Ratio) of 3:1 from domestic financial institution is estimated at 75% and investment from shareholders is estimated at 25%. The source of funds from the shareholders is derived from cash flow of the Company and cash flow or dividend of the subsidiaries. Currently, the Company contacts finance institution both of local and abroad for loan facility within period of project. This includes the increase capital into subsidiaries (project implementing companies) to reduce risk of funding the project.

4. Financial risks from implementation of power plant projects

Whereas the solar power projects in Lopburi, Nakorn Sawan and Phitsanulok have loaned fund from financial institution to support for the construction with a debt to cost ratio of 3:1, while the debt to cost ratio of wind power projects in Hadkanghan and Hanuman are 2.33:1 and 3:1 respectively.

This can result in higher liabilities which the Company must manage and maintain the cash flow to be able to repay the loan within schedule. To reduce such risk, the Company set up the investment and planning to control and for monitoring cash flow of the Company.

5. Risks from yield upon investment which may not be on expected level

Cost of construction is considered as a factor that has major impact to the yield upon investment of each project. Construction of both solar and wind power plants requires many necessary equipment and tools which should be imported from abroad (such as solar panels or wind turbines). As the cost of such equipment and tools has high portion comparing to the overall construction cost, the Company is inevitably encountering the risk from fluctuation of the equipment prices as well as exchange rate because the payment is required to be

made in foreign currency. To eliminate the risk of equipment price fluctuation, each project is executed with contractor under fixed agreement. In regard to impact of fluctuation of exchange rate, the Company has passed policy to use financial instrument such as Foreign Currencies Exchange Forward Contract (FX Forward) to lower such a risk.

Furthermore, as the cost of production of each project is varied, depending on internal factors such as area and engineer design - the total cost of production as well as yield upon investment for each project is different as well. Unexpected situations such as reduction of electricity rate, variance solar light intensity which causes different electricity yield or even natural phenomenon's may have domino effect to the overall revenue.

According to the risks mentioned above, the risk of volatile electricity rate and solar light intensity are ranked at minimal level, while the risk from natural disasters, the Company eliminates by applying for insurance to cover the costs of potential damages.

Risks of completion of power plant projects

Thailand is mainly depended on technology, and the Company is starting its development and commercial operation, therefore, it is necessary that the Company should have personnel with sufficient knowledge and expertise to run the power plants with full efficiency, understanding of used technology, implementing risk prevention plans and strength to achieve success in the business.

In regard to the solar power plant in Lopburi province, which started its commercial operation in October 2012, to prevent risks from the project, the Company has hired independent advisor who is competent in alternative energy business to study the initial possibility of the project, discussed with the contractor to ensure the quantity of electricity produced from the solar power plant for a period of 10 years, to ensure the stability of work (to reduce risk from volatility of the Company's revenue), applied for all types of insurances for contractors since beginning of construction until completion of project and another year after.

In regard to the 90-megawatt solar power plant in Nakhonsawa province which started its operation in December 2013, to minimize the risks from project, the Company has hired consultants for project and insurance as well as contractor with experience and skills for Operation and Maintenance Service (O&M) in power plants, selected solar panels from reputable manufacturers from China, with offering of power output guarantee from the factory for a period of 25 years with 10 year product guarantee, selected inverter which is produced in Italy with 5 years product guarantee, employed Energy Solution Management Co., Ltd., (the Company's subsidiary) to design, construct and maintain solar power plant to ensure that the Company have competent personnel with experience and expertise in civil work and installation of solar power plant for a long term.

In regard to the solar power plants in Lampang and Phisanulok that both already commenced commercial operation, the Company has hired advisor for project insurance, hired Energy Solution Management Co., Ltd., as a project manager (Operation and Maintenance Service: O&M), selected solar panels from reputable manufacturers from China, with offer of power output guarantee from the factory for a period of 25 years as well as 10 years product guarantee, selected inverter which is produced in Italy and China with 5 years product guarantee.

In regard to the wind power plants, Hadkanghan 1,2,3 in Songkhla and Nakhon Si Thammarat provinces that both already commenced commercial operation, the Company has hired advisor for project insurance, hired Energy Solution Management Co., Ltd. (ESM), as a project manager (Operation and Maintenance Service: O&M), selected Vestas, the wind turbine manufacturer, as a wind turbine manager (Wind Turbine Generator Operation and Maintenance Service) and also selected wind turbine from reputable manufacturers from Denmark with 5 years product guarantee.

In regard to the wind power plants, Hanuman 1,5,8,9,10, which are under construction, the Company has hired advisor for project insurance, hired Energy Solution Management Co., Ltd. (ESM), as a project manager (Operation and Maintenance Service: O&M), however, in regard to the wind turbine towers, the Company selected the wind turbine manufacturer as a wind turbine manager (Wind Turbine Generator Operation and Maintenance Service).

Risks from delay in project completion

The Company is exposed to the risk that wind power plants will be delayed in completion due to several factors i.e. delay in acquisition of land or funding, delay in construction caused by weather condition such as rain, flood, technical issues. Subsequently, the Company may not be able to start its commercial operation as stated in the Scheduled Commercial Operation Date: SCOD. In the event that the Company will be delay with project completion, the Company can apply to extend the time (with reasonable causes as well as with regular progress report of the project to the EGAT) for a period not exceeding 12 months (upon approval) without having risk of breach of contract. In addition, the delay in commercial operation of the project will cause delay in realization of revenue derived from the project as well.

Securities and Shareholders Information

Total Authorized Capital and Paid-up Capital

As at 31st December 2017, the Company's issued and paid-up capital was Baht 373,000,000.- divided into 3,730,000,000 common shares with par value of Baht 0.10 (Ten Satang)

Shareholder Structure

Major Shareholders						
List of Shareholders	As of year ended 2017		As of year ended 2016		No. of Shares	
	No. of Shares	%	No. of Shares	%	Increase / (Decrease)	%
1 UBS AG SINGAPORE BRANCH (exclude shares held by Trustee 2.2)	470,998,593	12.63%	475,628,593	12.75%	(4,630,000)	(0.12%)
2 Group of Ahunai	1,583,654,793	42.46%	1,586,104,793	42.52%	(2,450,000)	(0.07%)
2.1 Mr. Somphote Ahunai	869,160,186	23.30%	869,160,186	23.30%	-	-
* 2.2 UBS AG SINGAPORE BRANCH holds shares on behalf of Trustee set up by Mr. Somphote Ahunai	630,000,000	16.89%	630,000,000	16.89%	-	-
2.3 Mrs. Blanca Shulan Huang	24,983,607	0.67%	24,983,607	0.67%	-	-
2.4 Mr. Somboon Ahunai	9,813,951	0.26%	10,063,951	0.27%	(250,000)	(0.01%)
2.5 Ms. Supaporn Ahunai	24,197,049	0.65%	23,197,049	0.62%	1,000,000	0.03%
2.6 Mr. Julin Ahunai	16,500,000	0.44%	19,000,000	0.51%	(2,500,000)	(0.07%)
2.7 Mrs. Wilai Ahunai	9,000,000	0.24%	9,700,000	0.26%	(700,000)	(0.02%)
3 Group of Chiannilkulchai	184,685,992	4.95%	184,685,992	4.95%	-	-
3.1 Mrs. Mukda Boonsieng	168,653,143	4.52%	168,653,143	4.52%	-	-
3.2 Mr. Wutthilerd Chiannilkulchai	16,032,849	0.43%	16,032,849	0.43%	-	-
4 Group of Saphaweekul	147,597,809	3.96%	147,597,809	3.96%	-	-
4.1 Mr. Amornthep Taweekul	96,868,316	2.60%	96,868,316	2.60%	-	-
4.2 Mr. Thanathip Subaweekul	28,496,706	0.76%	28,496,706	0.76%	-	-
4.3 Miss Wassa Rimchala	22,232,787	0.60%	22,232,787	0.60%	-	-
5 Mr. Luchai Phukhuan-Anadha	143,972,408	3.86%	140,312,408	3.76%	3,660,000	0.10%
6 Thai NVDR Co.,Ltd.	138,540,279	3.71%	91,974,475	2.47%	46,565,804	1.24%
7 Group of Noprumpa	92,343,300	2.48%	100,743,300	2.70%	(8,400,000)	(0.23%)
7.1 Ms.Ploysongsang Noparumpa	70,970,900	1.90%	70,970,900	1.90%	-	-
7.2 Mr. Tirapol Noparumpa	14,500,000	0.39%	21,500,000	0.58%	(7,000,000)	(0.19%)
7.3 Mr. Tim Noparumpa	6,872,400	0.18%	8,272,400	0.22%	(1,400,000)	(0.04%)
8 Mr. Somkiet Thanatchalernkul	55,973,800	1.50%	49,592,400	1.33%	6,381,400	0.17%
9 STATE STREET EUROPE LIMITED	44,608,176	1.20%	30,520,024	0.82%	14,088,152	0.38%
10 Ms. Malinee Boonrak	26,243,700	0.70%	45,756,000	1.23%	(19,512,300)	(0.53%)
11 Other shareholders	841,381,150	22.56%	877,084,206	23.51%	(35,703,056.00)	(0.96%)
Totoal shares	3,730,000,000	100.00%	3,730,000,000	100.00%		
Total shareholders	8,917	shareholders	5,571	shareholders		

* Please refer to "The control in the Company / the changes of shareholders' structure / management", Page 47

3. Issuance of Other Debentures

The Company has been approved by the Securities and Exchange Commission (SEC) to issue and offer the debenture as details summarized below:

Summary of Debentures			
Type of Debenture	1) Tranche 1 : Name-Registered, Unsubordinated and Secured Debentures with Debenture Holders' Representative. 2) Tranche 2 & Tranche 3 : Named-Registered, Unsubordinated, Secured with Debenture Holders' Representative and issuer has right to redeem prior to the maturity date		
Currency	Thai Baht		
Offering Type	<input checked="" type="checkbox"/> PP (II&HNW)		
Value / Amount of offered Debentures		Value of offered Debentures	Amount of offered Debentures
	Tranche 1	Not exceeding Baht 1,000,000,000.- (One Thousand Million Baht)	Not exceeding 1,000,000.- (One Million) units
	Tranche 2	Not exceeding Baht 3,000,000,000.- (Three Thousand Million Baht)	Not exceeding 3,000,000.- (Three Million) units
	Tranche 3	Not exceeding 4,000,000,000.- (Four Thousand Million Baht)	Not exceeding 4,000,000.- (Four Million) units
		The aggregate value of offered Debenture is not exceeding Baht 8,000,000,000.- (Eight Thousand Million Baht)	The aggregate units of offered Debentures is not exceeding 8,000,000.- (Eight Million) units
Par Value	1,000.- Baht	Offering Price per unit	1,000.- Baht
Interest Rate	<input checked="" type="checkbox"/> Fixed Rate (1) Tranche 1 : Fixed rate of Interest at 2.36% per annum (2) Tranche 2 : Fixed rate of Interest at 2.22% per annum (3) Tranche 3 : Fixed rate of Interest at 2.37% per annum The interest of the Debentures shall be calculated on the outstanding principal on the basis of 365 days per year and the actual number of days elapsed in each relevant period of interest. The calculation shall be made from (including) the issuing date of the Debenture or the preceding interest payment date (as the case may be) unit (but not excluding) the interest payment date in that period or the maturity date (as the case may be).		

Redemption prior to the maturity date	(1)Tranche 1 : Nil (2) Tranche 2 & 3 : The right to redeem Debenture tranche 2 and /or tranche 3 Prior to the maturity date is for issuer only. The issuer has right to redeem Debenture tranche 2 and / or tranche 3 in partial or as the total at the anniversary 3 (three) years from the date of issuance or any date of payment of interest thereafter according to the guideline of Debenture holder. Debenture holder has no right to request issuance to redeem the Debenture prior to the maturity date.
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Issuing date	22nd July 2016	Date to offer	21st July 2016
Maturity Date / Term of Debenture	(1) Tranche 1: 22nd July 2019 / 3 years (2) Tranche 2: 22nd July 2020 / 4 years (3) Tranche 3: 22nd July 2021 / 5 years		
Periodic coupon payments	Debenture issuer is obligated to pay periodic coupon payment of every 6 (six) months at 22nd January and 22nd July of every year until maturity.		
First payment of interest	22nd January 2017		
Guarantor	The Siam Commercial Bank Public Company Limited		
Underwriter	The Siam Commercial Bank Public Company Limited		
Registrar of Debenture	The Siam Commercial Bank Public Company Limited or any person who shall be appointed to perform the duty of registrar of Debenture		
Debenture Holders' Representative	Bank of Ayudhya Public Company Limited or any person who shall be appointed to perform the duty of Debenture Holders' Representative		
Restriction of transfer	Due to Debenture issuer has offered the new issued Debenture to Institution and / or High Net Worth Investor according to the notification of the Securities and Exchange Commission in respect of filling for approval and the approval for offering the new issued Debenture. Therefore, Debenture Issuer and /or Debenture Registrar shall not register the transfer of Debentures to anyone who is not II or HNW except the heritage transfer		
Requirements to maintain financial ratio (if any)	Debenture Issuer has to maintain Net Debt to Equity Ratio according to the Consolidated Financial Statement which reviewed or audited by the auditor at ratio: (A) Not exceeding 3.5 : 1 as of end of the period closing account of the Debenture Issuer for the year 2016, year 2017 and year 2018; and (B) Not exceeding 3 : 1 as of end of the period closing account of the Debenture Issuer for the year 2019, year 2020 and year 2021		

Dividend Policies

Dividend policy of the Company

The Company pays out dividend to its shareholders at no less than 30% of its net profits after deduction of income tax and all kind of reserves as specified by law and the Company. The dividend policy can be amended depend on situation of cash flow, investment plan, terms and conditions stated in agreements binding the Company, including law provision, necessity and other reasonable cause(s) in the future. In addition, the resolution of the Board of Directors approving the dividend payment is subjected to approval from the shareholders' meeting except for interim dividend payment where the Board of Directors can approve such payment and report to the next shareholders' meeting.

The comparison paid-out dividend during 2013 – 2016

Details	2013	2014	2015 (Revision)	2016
Earnings Per Share (Baht: Share)	0.05	0.35	0.62	0.56
Dividend Payout per share (Baht : Common Share)	0.02	0.02	0.10	0.15
Paid-out Dividend / Net Profile (%)	36.67	5.75	16.23	26.60

Note : from the separated financial statement

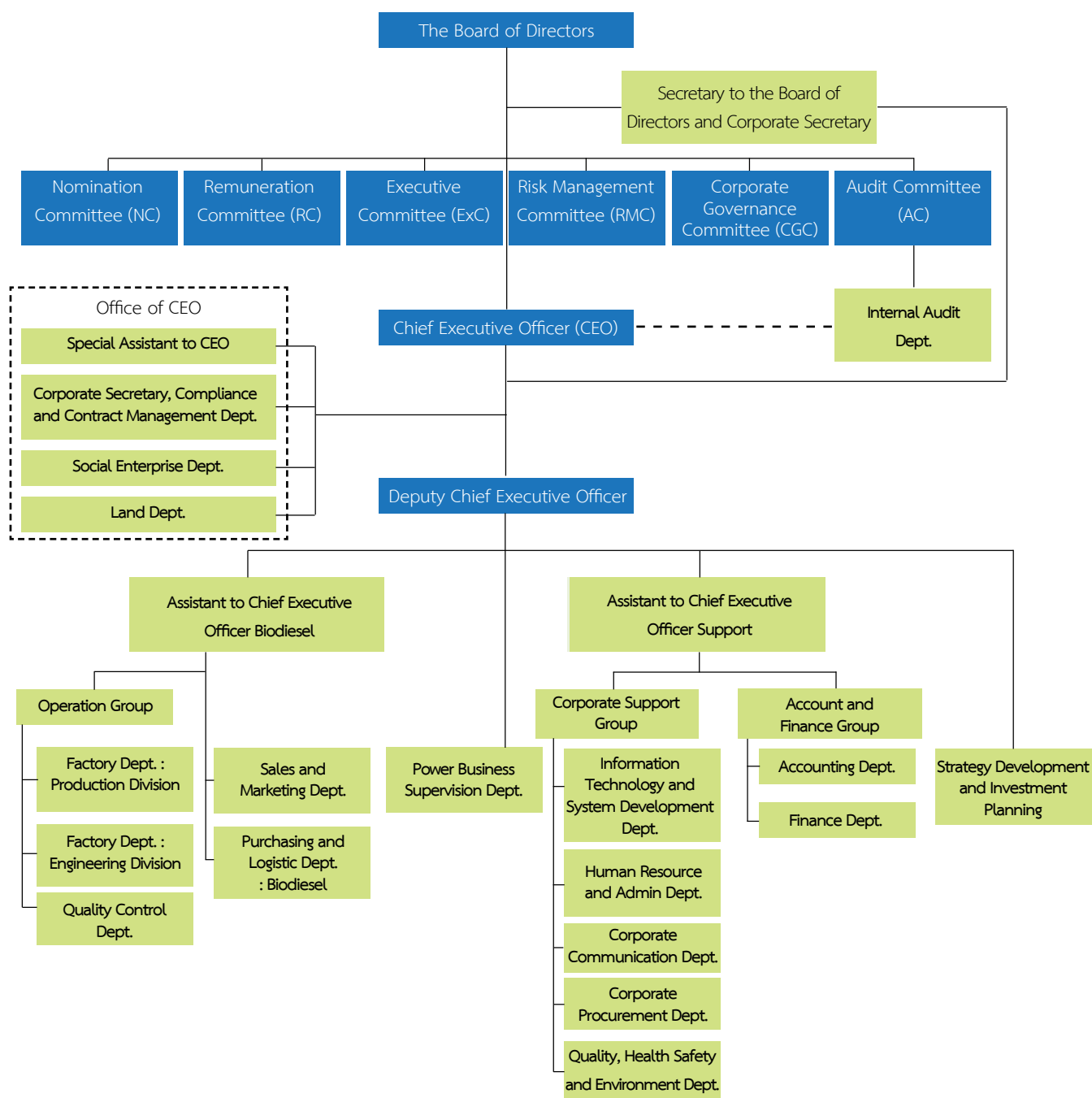
Dividend policy of subsidiaries

The dividend for subsidiaries is paid according to the article of the Company as well relevant laws. For subsidiaries set up for solar power plants, those must comply with terms and condition of loan agreement in respect of the Debt Service Coverage Ratio: DSCR, i.e. to maintain DSCR at 1.1

Management Structure

Management structure of Energy Absolute Public Company Limited as of 31st December 2017 comprises with the Board of Directors and 6 Sub-Committee, i.e. the Executive Committee, the Audit Committee, the Nomination Committee, the Remuneration Committee, the Corporate Governance Committee, and the Risk Management Committee

Organization Chart



The Board of Directors

1. Composition of the Board of Directors

As of 31st December 2017, the Board of Directors comprises with 11 Directors, comprising

- 9 Non-Executive Directors (6 of them are Independent Directors)
- 2 Executive Directors

Name / Position	Date of Appointment	No. of attendance / total meeting
1. Mr. Somchainuk Engtrakul	12 March 2008	8/8
• Chairman of the Board of Directors (Independent Director)		
2. Mr. Somphote Ahunai	12 March 2008	7/8
• Director (Authorized Director)		
• Executive Director (Chief Executive Officer: CEO)		
3. Mr. Amorn Saphaweeikul	30 March 2012	6/8
• Director (Authorized Director)		
• Executive Director (Deputy Chief Executive Officer: Deputy CEO)		
4. Mr. Wutthilerd Chiannilkulchai	12 March 2008	6/8
• Director (Authorized Director)		
5. Mr. Sutham Songsiri	12 March 2008	7/8
• Director		
6. ACM Chainan Thumasujarit	7 August 2012	8/8
• Independent Director		
7. Mr. Chaiwat Pongpisitsakul	12 March 2008	8/8
• Independent Director		
8. M.R. Bravochat Chatchai	26 November 2010	8/8
• Independent Director		
9. POL. GEN Phatcharavat Wongsuwan	18 April 2014	-/8
• Independent Director		
10. Mr. Somboon Ahunai	22 April 2015	6/8
• Director		
11. Mr. Amornsak Noparumpa ^{/1}	27 April 2017	6/6
• Independent Director		

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

Ceased Director during the year 2017	Position to be ceased	Date of ceasing from position	No. of attendance / total meeting (ended on date of ceasing from position)
Mr. Kasidit Ajanant ^{/2}	Director	27 April 2017	-/2

Notes :

/1: Mr. Amornsak Noparumpa (Director No.11) was appointed as Independent Director according to the 2017 Annual General Meeting of Shareholders held on 27 April, 2017

/2: Mr. Kasidit Ajanant was ceased from the position of Director (retired by rotation) from 27 April 2017

2. Authorized Directors to sign behalf and bind the Company

Mr. Somphote Ahunai / Mr. Wutthilerd Chiannikulchai / Mr. Amorn Saphthaweekul, any two of three directors jointly sign and affix with the Company's seal.

3. Scope of duties and responsibilities of the Board of Directors

- To perform their duties under applicable laws, objectives, regulations, and resolutions of shareholders' meetings with honesty and consideration on the interest of the Company.
- To determine policy and business direction of the Company, control and monitor whether the management's performance is effectively and efficiently conducted in line with regulations and policies in order to maximize economic value to the shareholders and achieve the sustainable growth.
- To consider the important matters i.e. business policy and plan, large investments, acquisition and disposal, management authority and other transactions as stipulated by law.
- To evaluate work performance and to determine Management's remuneration.
- To assure that the Company operations and work performance of the Management will be executed with duly care and caution.
- To provide reliable accounting system, financial reporting including auditing and to set up and supervise appropriate internal control, effective and efficient internal audit, risk management and follow up with the performance and results.
- To prevent conflict of interest between the Company's stakeholders.
- To ensure that corporate governance is conducted with integrity.
- To provide financial report, the auditor's report appearing in the Company's annual report which covers important issues under good practices for the directors of the listed companies in the SET.

The Board of Directors may delegate one or more of the directors or other person(s) to perform a certain task on behalf of the Board under the condition that such delegation or sub-delegation will not entitle the director(s) or delegated person(s) the right to approve any transaction which he/she may involve in, or have interest of conflict or in conflict with the Company or its subsidiary (if any) except the transaction which is in compliance with the policy, criteria approved by the resolution of the shareholders' meeting.

4. Duties and responsibilities of the Chairman of the Board.

The separation between the Chairman of the Board of Directors and Chief Executive Director

The Company's Chairman of the Board and CEO could not be held by the same person. There is separated between the position of Chairman of the Board of Directors and Chief Executive Director in order to separate duty / responsibility and function of management

Roles and duties of Chairman

- The Chairman is responsible for overseeing the implementation of the policy and strategic management practices of the management including advice and support to the management of the business. But no part of the management of the company.

- The Chairman is responsible to be the chairman in the meeting of the Board of Directors and the shareholder meeting and encourage all directors to participate the meeting as well as control the board of directors meeting be carried out effectively

Duties of Chairman

- Responsible for leading the board in overseeing the administration of the Executive Committee and other sub-committees to achieve the planned objectives
- Being Chairman in the meeting of Board of Directors and Shareholders' meeting
- Cast the vote if the Board of Directors meeting. Have a vote and the votes are two equal

Management Team

1. List of executives (according the definition of SEC)

As of 31st December 2017, there are 13 executives as details belows:

	Name	Position
1	Mr. Somphote Ahunai	<ul style="list-style-type: none"> • Chief Executive Officer • Acting Vice President – Power Business Supervision Department
2	Mr. Amorn Sapthaweekul	<ul style="list-style-type: none"> • Deputy CEO • Acting Vice President – Quality Control Department • Acting Vice President – Strategy Development and Investment Planning Department
3	Mrs. Dujdao Luksanaviwat	<ul style="list-style-type: none"> • Special Assistant to CEO • Vice President – ISO Quality, Health, Safety and Environment Department
4	Mr. Borvorn Pienpongpanich	<ul style="list-style-type: none"> • Head of Accounting and Finance Subdivision
5	Ms. Supaporn Ahunai	<ul style="list-style-type: none"> • Vice President – Finance Department
6	Mr. Weerasil Sattayapakdeewong	<ul style="list-style-type: none"> • Vice President – Accounting Department
7	Mr. Patipat Sakdawongsiwimol	<ul style="list-style-type: none"> • Vice President – Sales and Marketing Department
8	Ms. Yaowalug Pukpikul	<ul style="list-style-type: none"> • Vice President – Corporate Secretary, Compliance and Contract Management Department • Corporate Secretary • Secretary of the Board of Directors • Secretary of the Executive Committee • Secretary of the Risk Management Committee • Secretary of the Corporate Governance Committee
9	Ms. Omsin Siri	<ul style="list-style-type: none"> • Vice President – Corporate Communication Department
10	Mr. Pramote Lertpiyayowong	<ul style="list-style-type: none"> • Vice President – Factory Department (Production Division) • Acting Vice President – Factory Department (Engineering Division)
11	Ms. Wimolmas Wongmakornpan	<ul style="list-style-type: none"> • Vice President – Social Enterprise Department
12	Mr. Manop Oulansiripong	<ul style="list-style-type: none"> • Vice President, Information Technology and Systems Development
13	Ms. Porntip Saengchan	<ul style="list-style-type: none"> • Vice President, Human Resource and Administration Department

Notes:

Mr. Borvorn Pienpongpanich (Executive No. 4) : be appointed as Head of Accounting and Finance Subdivision, effective from 1 February, 2017

Miss Porntip Saengchan (Executive No. 13) : be appointed as Director, Human Resource and Administration Department, effective from 1 June, 2017

2. Scope of duties and responsibilities of the Chief Executive Officer (CEO)

- To operate the business of the Company under applicable laws, objectives, regulations, resolutions of shareholders' meetings, policies, rules, provisions including resolution of the Board of Directors.
- To perform their duties with honesty and take into account the interest of the Company.
- To formulate annual business plan, budget and targets, including improve and maintain such operative plan during the year if considered as necessary to be in compliance with the current situation together with propose to the Board of Directors for approval.
- To ensure the implementation of the business and budget plan approved by the Board of Directors
- To report operative result as well as financial status of the Company in quarterly an annually including other reports which will be considered important to the business operation to the Board of Directors for acknowledgement or approval.
- To create or amend the organization chart, to determine authority, responsibilities of the subordinate executives, including propose such matters to the Board of Directors for approval.
- To ensure the general administration is performed efficiently, to monitor that the employees follow the policy, rules and regulations, orders as well as resolution of the Board of Directors strictly.
- To approve or execute different matters as stipulated in the schedule of assignment by the Board of Directors. The authority to approve cannot be executed in the event that such person may conflict (as defined in the notification of the SEC and SET), share interest or interest of conflict with the Company or its subsidiary except the approval on general business transaction with general trading terms and such transaction has been approved as per securities and Stock exchange law provision.

The power of CEO as well as delegation of such power to any person as considered appropriate by CEO shall exclude the power or delegation to approve any transaction where CEO or related person that may has conflict, interest or has conflict of interest in any other aspect, or in conflict with interest of the Company or its subsidiary (if any), or the transaction which is irrelevant to general business transaction of the Company, the approval for such transaction must be proposed to the Board of Directors' meeting and/or the shareholders' meeting for consideration and approval as stipulated by the Company's regulations or applicable law.

3. Corporate Secretary

The Corporate Secretary is appointed by the Board of Directors pursuant to Section 89/15 of the Securities and Stock Exchange Act B.E. 2535 (1992) and amendment, to create and maintain important documents of the Company which are Registration of the Board of directors, Notice of Board of Directors' Meeting, Minutes of the meeting of the Board of Directors, Company's Annual Reports, Notice of 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.

The Board of Directors unanimously resolved to appoint Ms. Yaowalug Pukpikul as a Corporate Secretary and the Board of Directors' Secretary in the meeting of the Board of Directors No. 7/2013 on 14 November 2013 with the effect from 14 November, 2013 onwards (the details of the Company Secretary are appeared in the Page 26)

4. Remuneration of Directors and Management

The policy for remuneration of director is set as per resolution of the shareholders' meeting. The criteria to determinate director's remuneration considers from the reasonable and reflect the scope duties and responsibilities of director, the financial status of the Company in comparing with the good practice of other companies in the same size and same sector. The remuneration of directors is comprised of the monthly remuneration, the attendance meeting fees, and bonus for the year.

In 2017 Annual General Meeting of Shareholders held on 27 April 2017 approved the remuneration of Directors as details bellows:

Details	2017
Monthly remuneration of Directors	
• Chairman of the Board of Director	Baht 50,000.-/month
• Each of Director	Baht 40,000.- / month
Bonus for company directors	
• Chairman of the Board of Director	Not exceeding Baht 2,000,000.- / year
• Each of Director	Not exceeding Baht 1,500,000.- / month
Remuneration of sub-committees	
• The Executive Committee	The attendance Meeting fees : Baht 20,000.- / person / meeting The payment will be made only for member who has not received any monthly salary or consulting fees
• The Audit Committee	The total attendance meeting fees: in the amount for not exceeding of Baht 680,000.- / year
• The Remuneration Committee	The total attendance meeting fees : in the amount for not exceeding of Baht 170,000.- / year
• The Nomination Committee	The total attendance meeting fees : in the amount for not exceeding of Baht 170,000.- / year
• The Risk Management Committee	The total attendance meeting fees : in the amount for not exceeding of Baht 750,000.- / year
• The Corporate Governance Committee	The total attendance meeting fees : in the amount for not exceeding of Baht 420,000.- / year



5. Directors' remuneration (in cash)

(1) The remuneration of directors are comprised with the monthly remuneration, bonus for the year and the attendance meeting fees

Remuneration (Baht)										
Directors	Bonus for the year 2016 (Paid in 2017)	Monthly remuneration for the Board of Directors	Meeting allowance (2017)						Total (Baht)	
			Audit Committee	Executive Committee	Remuneration Committee	Nomination Committee	Corporate Governance Committee	Risk Management Committee		
1. Mr. Somchainuk Engtrakul	<input checked="" type="checkbox"/> 2,000,000	600,000								2,600,000
2. Mr. Somphote Ahunai ¹	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/>	-				<input checked="" type="checkbox"/> 40,000		2,020,000
3. Mr. Amorn Saphaweekul	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> 32,380			<input checked="" type="checkbox"/> 40,000		2,052,380
4. Mr. Wuthilerd Chiannilkulchai	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/>	-				<input checked="" type="checkbox"/> 40,000		2,020,000
5. Mr. Sutham Songsiri ¹	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> 32,380		<input checked="" type="checkbox"/> 80,000			2,092,380
6. ACM Chainan Thumasujarit	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/> 200,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 32,380	<input checked="" type="checkbox"/> 40,000	<input checked="" type="checkbox"/> 80,000	<input checked="" type="checkbox"/> 150,000		2,482,380
7. Mr. Chaiwat Pongpisitsakul	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/> 160,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 40,480	<input checked="" type="checkbox"/> 40,000	<input checked="" type="checkbox"/> 100,000			2,320,480
8. M.R. Bravochat Chatchai ¹	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/> 160,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 32,380	<input checked="" type="checkbox"/> 50,000	<input checked="" type="checkbox"/> 80,000	<input checked="" type="checkbox"/> 100,000		2,402,380
9. POL. GEN Phatcharavat Wongsuwan	<input checked="" type="checkbox"/> 1,500,000	480,000						<input checked="" type="checkbox"/>	-	1,980,000
10. Mr. Somboon Ahunai	<input checked="" type="checkbox"/> 1,500,000	480,000	<input checked="" type="checkbox"/>	-						1,980,000
11. Mr. Amornsak. Noparumpa, taking a position of Director on 27 Apr. 2017	<input checked="" type="checkbox"/> -	324,000								324,000
Mr. Kasidit Ajanant	<input checked="" type="checkbox"/> 591,780	156,000								747,780
Ceased from the position of Director (retirement by rotation) from 27 April 2017	(for the period of 10 Aug - 31 Dec 2016)									
Notes : / <input checked="" type="checkbox"/> = Chairman <input checked="" type="checkbox"/> = Director. Member of Subcommittee										

Notes : / ☒ = Chairman ☒ = Director, Member of Subcommittee

(2) Remuneration of the management

In 2017, the Company paid remuneration which consists of salary and bonus for 13 executives and executive ceased during the year in the amount of Baht 78.29 million.

6. Other remuneration

(1) Remuneration to directors

- Nil -

(2) Remuneration to management

- **Social Security Fund**

The company contributes to the Social Security Fund at the rate of 5% of salary (but not exceeding Baht 750 / person per month). In 2017, the Company paid social security contributions for 13 executives, including executive who vacated office during the year, the total amount was 112,500 Baht.

- **Provident Funds**

The Company provides Provident Fund with its contributions at 4%, 6%, 8% and 10% of the salary. During the year 2017, the Company paid the provident fund for 13 executives and executive ceased during the year in the amount of Baht 4.32 million

- **Benefit after retirement Project**

- Nil -

Employees

1. Number of Employees, remuneration and its forms

As at 31st December 2017

- The Company has total 241 employees (excluded executives, directors and advisors). In 2017, total value of Baht 117.39 million was paid to the employees for salary, bonus, over time allowance, social security, provident fund* and other welfares according to the economic situation such as medical welfare, the adjustment of salary in the first month for new employee, etc.

Note :

* The Company has applied a provident fund with the K Master Pooled Fund under the management of Kasikorn Asset Management Co., Ltd. on October 15, 2010 to provide welfare benefits to employees of the Company and its subsidiaries who subscribe to the fund and the Company will pay contributions at the rates of 4, 6, 8 and 10 percent of salary based on employees' service years.

Total 241 employees of the Company (excluded executives) is divided into department as details bellows:

As of 31st December, 2017		Daily/ Part Time (persons)	Full Time (persons)	Total (persons)
1	Corporate Secretary, Compliance and Contract Management Dept.	-	1	1
2	Social Enterprise Dept.	-	2	2
3	Land Dept.	-	4	4
4	Internal Audit Dept.	-	1	1
5	Accounting Dept.	-	7	7
6	Finance Dept.	-	4	4
7	Strategy Development and Investment Planning Dept.	-	6	6
8	Information Technology and System Development Dept.	-	4	4
9	Human Resource and Admin Dept.	-	17	17
10	Corporate Communication Dept.	-	1	1
11	ISO Quality Health, Safety and Environment Dept.	-	2	2
12	Power Business Supervision Dept.	(subsidiary is in-charge)		
13	Sales and Marketing Dept.	-	3	3
14	Purchasing and Logistic Dept.: Biodiesel	-	7	7
15	Factory Dept.: Production Division & Engineering Division	14	123	137
16	Quality Control Dept.	3	7	10
17	Special Project Subdivision	-	35	35
Total		17	224	241

Note : The Company and subsidiaries hired Dharmniti Auditing Co., Ltd. as Internal Auditor.

- There are 27 subsidiaries with aggregate staff & employee 155 person (the remunerations are the same as remuneration to staff & employee of the Company. Total amount of Baht 75.50 million is paid to staff & employees as bellows :

Management / Employee of subsidiaries as of 31st December 2017	Daily/ Part Time (persons)	Full Time (persons)	Total (persons)
Management	-	5	5
Employee	-	150	150
Total	-	155	155

2. The labor dispute in respect labor during the past 3 years

-Nil -

3. Hygiene and Working Environment

The Company Group always realizes the importance of maintaining a working environment to be safe for life, health and hygiene, and assets of its employees, then implements adequate and proper safety, occupational health and environment measures to prevent accidental loss, injuries and illness due to working. In 2017, the Company Group's employees were harmed by accidents from work, illness from work and sick leave as follows:

	(Persons)
Accidents from work	4
Illness from work (Absent more than 3 days)	3
Sick Leave	350

4. Personnel Development Policy

The Company has policy to develop employees to have knowledge, ability and skills to improve their work performance to suit employee's requirement of their positions, have desirable working behavior including have good working attitude, be professional and be employees who are worth for corporate, society and country. Our personnel development plan focuses on effective performance in each position. In 2017, the performance assessment is held by using Key Performance Indicator (KPI) and employees are also assessed of their behavior and performance affecting their working by covering all aspects or 360 degrees. The objective of this assessment is to encourage employees to adjust themselves to the modern working style and to develop more team work. In addition, the assessment is proceeded more frequently at 3 times in this year, considering it is more intensive. Furthermore, the assessment is also linked to the consideration of individual remuneration which motivates employees to have effective performance, achieve targets, vision and plan of Management and continuously support the business expansion of the Company. Meanwhile, employees in management level are also planned for their preparedness with Individual Development Plan or IDP and their potentiality development for management and leading team to achieve target and success in line with the future corporate direction . In 2017, employees of the Company and its subsidiaries attended the training 1,951 hours in total or averagely 12 hours per person, followings are training courses regarding environment:

1.) Environmental Education

- The program "Green Industry", held by the office of Prachin Buri Industrial.
- The program "Factory Environmental Personnel" held by Thai Environmental Foundation. During the year 2017, the company participated the training program, i.e. 1) environmental manager 2.) controller of air-pollution treatment 3.) controller of water-pollution treatment and 4) workmen on air pollution control

2.) Energy Conservation Course

- Program “Senior Person Responsible for Energy”
- Program “Person Responsible for Energy in the ordinary factory”
- Program “Internal Energy Auditor”
- Program “Energy Management System”
- Program “Energy Management for Factory Managers and Control Buildings”
- Program “Standard of Energy Management for Enterprises”

3.) The management programs which the Company comply

- Program “Environments (ISO 14001 : 2015) and Occupational Health & Safety (OHSAS 18001 : 2007) Management Systems Requirements and Implementation”
- Program “Hazard Identification and Risk Assessment for Occupational Health & Safety Management Systems (OHSAS 18001 : 2007)”
- Program “Environmental Aspect Identification and Evaluation for Environmental Management Systems (ISO 14001 : 2015)”
- Program “Environmental (ISO 14001 : 2015) and Occupational Health & Safety (OHSAS 18001 : 2007) Management Systems Internal Auditor Training Course”
- Program “Quality Management System ISO 9001 : 2015
- Program “Risk Management”
- Program “Training workshop on Internal Quality Assurance in Quality Management System”
- Program “RSPO Supply Chain Certification Standard”



Report of the Audit Committee

To All shareholders

The audit Committee of Energy Absolute Public Company Limited comprises of 3 Independent Directors, 1 of them is Independent Director who has accounting knowledge and experience to review creditability of financial statements. Therefore, the overall structure of the Audit Committee is qualified and duly meet all requirements as stipulated by the Securities Exchange of Thailand. The Audit Committee is independent to perform its duties in accordance with the Charter of Audit Committee.

The Audit Committee consists of

- | | |
|-------------------------------|--|
| 1. ACM Chainan Thumasujarit | Chairman of Audit Committee and Independent Director |
| 2. Mr. Chaiwat Pongpisitsakul | Audit Committee and Independent Director |
| 3. M.R. Bravochat Chatchai | Audit Committee and Independent Director |

In 2017, the Audit Committee held 12 meetings with 100% attendance of all members. The executives, the Internal Audit and external Auditor were invited to the meetings to clarify in related agenda, submit relevant documents/report and result of audit including supplementary documents of each quarter.

In addition, the Audit Committee held a meeting with strictly complied with the charter rules and the minutes of the meeting is summarized with suggestions as a guideline for the Management and reported to the Board of Directors. The key factors were:

1. The Audit Committee reviewed the 2017 Company's quarter, annual financial statements and the consolidated financial statements prior submitting to the Board of Directors to approve and ensure accuracy and sufficiency in accordance with the accounting standards and applicable law. The note to the financial statements has been disclosed adequately, as well as invited the relevant management department and external auditors joined the meetings to clarify and answer the queries of the Audit Committee regarding to the accuracy and completeness of the transaction improvement that effected to the financial statement including the observation by the auditors. In our opinion, the Company's financial statements have been provided accordance with the general accounting standards, accuracy and sufficiency for the benefit of the Company. In addition, the Audit Committee held a meeting 1 time with external auditor, without the executive joined the meeting for the significant agenda and the internal control related to accounting, financial statement and others including the obstacles and issues during the operation. In our opinion, the external auditor has appropriately cooperation with the management department and performed their duties with independency, knowledge, experience and sufficient guidelines as the auditor.

2. The Audit Committee has evaluated and reviewed the adequacy of internal control system in line with regulations stipulated by the Stock Exchange Commission and the Stock Exchange of Thailand and the report from the internal audit department and external auditors. In our opinion, the control is effective and efficient, without significant defects found. The internal audit department performed their duties with independency. Company also approved 2018 internal audit plan which concentrates on practical implementation which will result as effectiveness and efficiency. The Company constantly improves and develops its internal control to ensure its effectiveness.
3. The Audit Committee has reviewed the compliance with law related to securities and Stock Exchange, regulations of the Stock Exchange and law related to the Company's business. In our opinion, the Company has complied with the law in appropriate manner.
4. The Audit Committee has reviewed the connected transactions or the transaction that may have conflict of interest, in our opinion, all transactions were executed for the highest benefit of the Company, in line with law and regulations of the Stock Exchange of Thailand. The transactions have been disclosed in the note to the financial statement.
5. The selection of auditors based on transparency and good corporate governance. In addition, the Company takes into consideration the auditors' previous work, reputation, reliability and capability to audit and certify the financial statement on timely manner. The Audit Committee has proposed candidate to the Board of Directors for submission to the General Annual Meeting of the Shareholders of the year 2017 for approval as follows:
 - To appoint the auditors from PricewaterhouseCoopers ABAS Company Limited as follows:

Ms. Amornrat Pearmpoonvatanasuk	CPA (Thailand) No. 4599 and /or (The Company's Auditor in the year 2016)
Mr. Prasit Yuengsrikul	CPA (Thailand) No. 4174 and /or
Mr. Pongthawee Ratanakoses	CPA (Thailand) No. 7795

As auditors of the Company and 27 subsidiaries for the accounting period of the year 2017

Audit Fees

(Unit : Baht)

Audit fees	Accounting year 2017
1. Audit Fee :	
• Energy Absolute PCL : Annual and Quaterly	1,400,000.-
• 2 associated / subsidiaries foreign companies Audit fees (for the consolidated financial statements)	520,000.-
Total amount of the Company Audit fees	1,920,000.-
2. 27 Subsidiaries Audit fees (6 Subsidiaries increased in the year 2017)	6,088,500.-
3. Non-Audit Fee	
• BOI (Non-Audit Fee) 50,000.- Baht / certificate	
- Energy Absolute PCL (3 certificates)	150,000.-
- Subsidiaries (7 certificates)	350,000.-
4. Out of pocket expense	Not exceeding 2% of the audit fees for the entire group.

6. Review Charter of the Audit Committee and are of the opinion that Charter of the Audit Committee is adequate and comply with rules and regulation of the Stock Exchange of Thailand as well as the good practice of corporate governance.
7. The Audit Committee has conduct self-assessment (across the board and individual member) for the year 2017. The result of board self-assessment is 99.46% in average while the individual self-assessment is 100% in average.

Energy Absolute Public Company Limited



ACM. (Chainan Thumasujarit)

Chairman of the Audit Committee

Report of the Nomination Committee

To All Shareholders

The Nomination Committee of Energy Absolute Public Co., Ltd. (“Company”), consists of 3 Independent Directors whose duties are to support the Board of Directors in nominating and proposing qualified persons with knowledge and skills, who will suit to the position of directors and top executives. At present, the Nomination Committee are as follows:

- | | |
|-------------------------------|---|
| 1. M.R. Bravochat Chatchai | Chairman of Nomination Committee and Independent Director |
| 2. Mr. Chaiwat Pongpisitsakul | Nomination Committee and Independent Director |
| 3. ACM. Chainan Thumasujarit | Nomination Committee and Independent Director |

During the year 2017, the Nomination Committee has performed their duties as assigned by the Board of Directors, the meeting was held 5 times in order to consider the matters as follows:

1. To consider and purpose the new director to replace the ceased director based on the qualification prescribed by the regulations of Securities and Exchange Commission (SEC) and the Stock Exchange of Thailand (SET) and without the prohibited qualification prescribed by law and proposed to the Board of Directors for re-election for another term in the Shareholders’ Annual General Meeting of year 2017.
2. To consider and review criteria to invite shareholders to propose the qualified candidates for the election of directors in the Shareholders’ Annual General Meeting.
3. To review the charter rules of the Nomination Committee in accordance with the principle of good corporate governance and to suit the current duties.
4. The Nomination Committee conducted self-assessment (across the board and individual member) for the year 2017. The result of board self-assessment is 96.49 % in average while the individual self-assessment is 97.92 % in average.

Energy Absolute Public Company Limited



(M.R. Bravochat Chatchai)

Chairman of the Nomination Committee

Report of the Remuneration Committee

To All Shareholders

The Board of Directors of Energy Absolute Public Company Limited, appointed the Remuneration Committee in order to support the Board to set the policy, form and criteria of the remuneration to Directors, Sub-committees and Chief of Executive Officer of the Company and propose the same to the meeting of the Board of Directors for consider and further approval by the shareholders' meeting. The main objective is for consideration of remuneration with transparency, fair and be competitive with other companies in the same size and industry to enable that the Company retain the qualified directors and high executives who have major roles in driving the business operation toward goal.

Presently, the Remuneration Committee comprises to:

- | | |
|-------------------------------|---|
| 1. Mr. Chaiwat Pongpisitsakul | Chairman of Remuneration Committee and Independent Director |
| 2. ACM. Chainan Thumasujarit | Remuneration Committee and Independent Director |
| 3. M.R. Bravochat Chatchai | Remuneration Committee and Independent Director |
| 4. Mr. Sutham Songsiri | Remuneration Committee |
| 5. Mr. Amorn Saphthaweeikul | Remuneration Committee |

During the year 2017, the Remuneration Committee meeting is held 3 times and proposed the resolutions to the meeting of the Board of Directors as follows:

1. To consider and propose the bonus for the performance of previous year by referring to the result of the self-assessment and the Company's business performance compared to the business plan.
2. To consider and propose the remuneration of directors and sub-committees as well as the budget for allocating the bonus for director for each year, then propose to the Board of Directors for considering and for further approval of the shareholders' meeting.
3. To consider the performance of Chief Executive Office and propose his increment and bonus for the year.
4. To consider the KPI of Chief Executive Office in compliance with the goal in annual plan of the Company.
The criterial for evaluation the performance of CEO is as per SET's form.
5. In 2017, the Remuneration Committee conducted self-assessment (across the board and individual member).
The result of board self-assessment is 96.88 % in average while the individual self-assessment is 96.72 % in average.

Energy Absolute Public Company Limited



(Mr. Chaiwat Pongpisitsakul)

Chairman of the Remuneration Committee

Report of the Risk Management Committee

To All Shareholders

The Risk Management Committee of Energy Absolute Public Company Limited (“Company”) presently consists of 6 directors, 3 of them are Independent Directors. All members are qualified with full of knowledge and expertise specific to conduct risk management for the benefit of the Company.

The members of Risk Management Committee are as follows:

- | | |
|-----------------------------------|--|
| 1. ACM. Chainan Thumasujarit | Chairman of the Risk Management Committee and Independent Director |
| 2. M.R. Bravochat Chatchai | Risk Management Committee and Independent Director |
| 3. Pol. Gen Pracharavat Wongsuwan | Risk Management Committee and Independent Director |
| 4. Mr. Somphote Ahunai | Risk Management Committee and CEO |
| 5. Mr. Amorn Saphaweeikul | Risk Management Committee and Deputy CEO |
| 6. Mr. Wutthilerd Chiannikulchai | Risk Management Committee |

The Risk Management Committee conducted duties assigned by the Board of Directors and in accordance with their Charter.

In 2017, the Risk Management Committee held 6 meetings. The summaries are as follows:

- To review the charter rules, its duties and responsibilities, composition, qualifications and term of office, meeting schedule in order to formulate into written guideline of practice.
- To monitor the projects of the Company and provide advices in order to reduce or avoid potential risk
- To monitor the operations, investments, new projects of the Company to be in compliance with guideline and framework approved by the Board of Directors.
- To determine the framework of risk management, classify risks of the Company Group, clearly set up level/chance, impacts and levels of damages to be a guideline for assessing the level of risk severity and risk management, followings are the classification of risks (please see details in the Section “Risk Factors”).

1. Risk of business operation

- Risk from depending on major customers
- Risk from the price fluctuation of biodiesel
- Risk from the competition inside the industry
- Risk from policy change of government sector

2. Risk of products and product procurement

- Risk from raw material procurement
- Risk from the price fluctuation of materials which are changed in accordance with global market price

3. Risk of management and administration

- Risk from depending on executives
- Risk from documents for operating power plant projects
- Risk from seeking funds for operating power plant projects
- Financial risk from power plant project operation
- Risk from unachieved return of investment as planned

4. Risk from the Success of power plant project operation

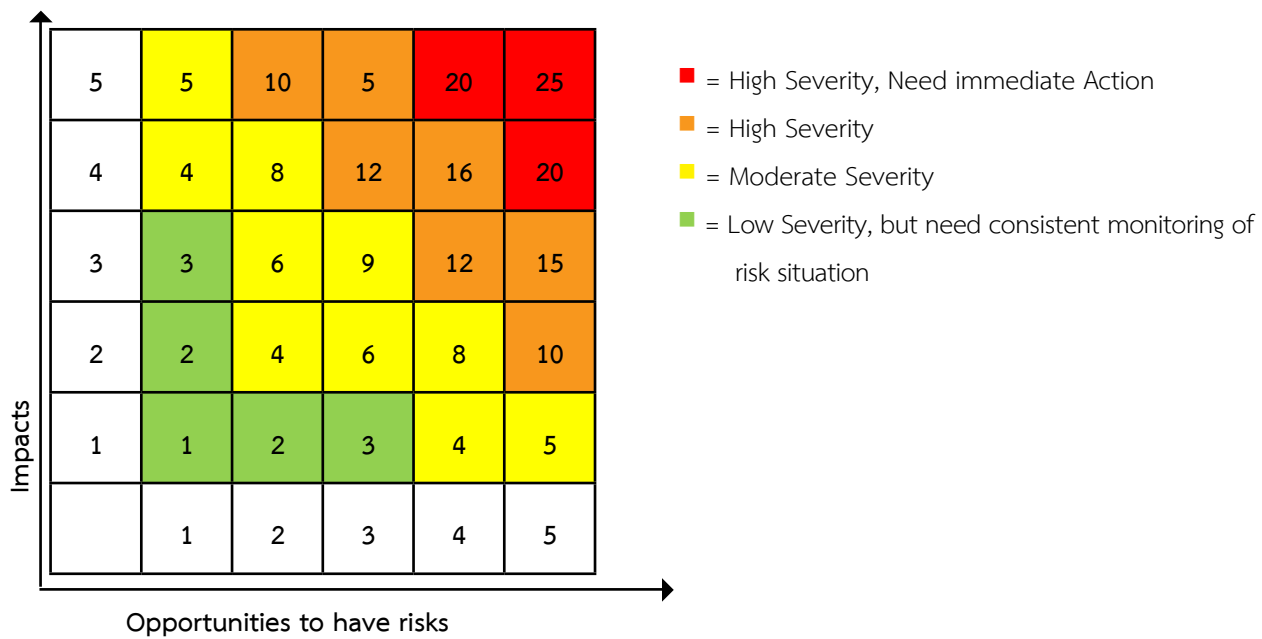
5. Risk from the delay of project

- In terms of risk assessment, the Risk Management Committee reviewed, classified and considered the prioritization of existing risks. The risk assessment is based on the likelihood of the risk and the impact or damage, there are five levels of risk likelihood and impact in risk level assessment as follows;

Level of Risk Likelihood and Impact or Damage

Level	Risk Likelihood	Impact or Damage
5	Very High	Severe Impact / Damage to the EA Company Group Qualitative: Severe impact on fame / image / competitiveness of the Company Group Quantitative (amount of money): $X > 500,000$ Baht
4	High	Significant Impact / Damage to the EA Company Group Qualitative: Significant impact on fame / image / competitiveness of the Company Group Quantitative (amount of money): $100,000 \text{ Baht} < X \leq 500,000 \text{ Baht}$
3	Medium	Moderate Impact / Damage to the EA Company Group Qualitative: Moderate impact on fame / image / competitiveness of the Company Group Quantitative (amount of money): $50,000 \text{ Baht} < X \leq 100,000 \text{ Baht}$
2	Low	Very Low and Controllable Impact / Damage to the EA Company Group Qualitative: Very low impact on fame / image / competitiveness of the Company Group Quantitative (amount of money): $10,000 \text{ Baht} < X \leq 50,000 \text{ Baht}$
1	Very Low	Very Low / None of Impact / Damage to the EA Company Group Qualitative: No impact on fame / image / competitiveness of the Company Group Quantitative (amount of money) : $X \leq 10,000 \text{ Baht}$

Risk Assessment Matrix



- In 2017, the Risk Management Committee conducted self-assessment (across the board and individual member). The result of board self-assessment is 98.61 % in average while the individual self-assessment is 99.43% in average.

The Risk Management Committee aim to provide an adequate risk management control in order to reduce risks in acceptable level along with the efficient and effective business operation.

Energy Absolute Public Company Limited

W.S.O. P. S.

(Chainan Thamasujarit)

Chairman of the Risk Management Committee

Report of the Corporate Governance Committee

To All Shareholders

The Corporate Governance Committee of Energy Absolute Public Company Limited's responsibility is to support the Board of Directors to determine criteria and good practices in respect of corporate governance and social responsibility.

At present, the Committee comprises of 4 directors (3 of 4 are Independent Directors) as follows:

- | | |
|-------------------------------|---|
| 1. Mr. Chaiwat Pongpisitsakul | Chairman of Corporate Governance Committee and Independent Director |
| 2. ACM. Chainan Thumasujarit | Corporate Governance Committee and Independent Director |
| 3. M.R. Bravochat Chatchai | Corporate Governance Committee and Independent Director |
| 4. Mr. Sutham Songsiri | Corporate Governance Committee |

During the year 2017, the Corporate Governance Committee performed their duties assigned by the Board of Directors and held 4 meetings to consider many matters as follows:

1. To supervise the improvement of corporate governance and its evaluation, the Corporate Governance Committee monitored the improvement of corporate governance to be in accordance with the principle of good corporate governance. In 2017, the Stock Exchange of Thailand cooperated with the Institute of Thai Directors to survey the corporate governance with all Thai listed companies. The Company was rated in terms of the corporate governance (CG 2017) at 89% in average which was higher than the average score of overall Thai listed companies and SET100 Index that were 80% and 87%, respectively. However, the Company's score was lower than the overall average score of SET50 Index which was at 90%. The Corporate Governance Committee is still committed to develop and improve the corporate governance along with the expansion the Company group.
2. To review the charter rules of the Corporate Governance Committee to be updated and in compliance with the duties and responsibilities of the Corporate Governance Committee.
3. The Corporate Governance Committee conducted self-assessment (across the board and individual member). The result of board self-assessment is 98.26 % in average while the individual self-assessment is 98.86 % in average.

Energy Absolute Public Company Limited



(Mr. Chaiwat Pongpisitsakul)

Chairman of the Corporate Governance Committee

Corporate Governance

The Board of Directors understands the importance of implementing “Good Corporate Governance 2006” as announced by Stock Exchange of Thailand, and therefore, implemented such “**Good Corporate Governance**”¹ as a guideline to enable effective and transparent management which will ensure trust and confidence among shareholders, investors, stakeholders and all related parties.

1. Corporate Governance Policy

Good Corporate Governance can be divided into 5 sections as following details:

Section 1. Rights of shareholders:

The Company supports right practice as well as right protection of all shareholders 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 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.

1 - Approved by the Board of Director Meeting No. 2/2552 on 25 May 2009.

- Amended as approved by the the Board of Director Meeting No. 6/2557 on 14 November 2014.

2. Shareholder's meeting

Shareholders 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 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 notification of the shareholders' meeting as well as supporting details to be available 30 days prior to the date of the meeting by publishing on the Company website: www.energyabsolute.co.th
- Rules and regulations of the shareholder's meeting as well as voting procedure to be clearly stated in the notice of the meeting;
- The Company allows shareholders to send their questions as well as name and contact details to the company prior to the meeting date through following methods:

Energy Absolute Public Co., Ltd.

Attention: Company Secretary

16th Floor, AIA Capital Center Building, 89

Ratchadaphisek Road., Dindaeng, Bangkok 10400

Tel: 0 2248 2488-92, 0 2002 3667-9 (Ext.10702, 10726)

Fax: 0 2248 2493

- The shareholders can enquire, express their opinion and ask for clarification from the Board of Directors, 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 must be clearly specified.
- Shareholders to be allowed to vote in election of qualified director to undertake responsibilities of maintaining benefit of the shareholders.
- 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 advantage of answering questions of the shareholders.
- 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.

Section 2. Equal treatment to shareholders:

All shareholders, investors, corporate 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 as follows:

1. 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 purchase-sale the securities for their own interest.

- 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 purchase-sale securities of the Company. However, to prevent conflict of interest, directors, executives and employees including their spouse and minor child are prohibited to purchase-sale securities of the Company 1 month prior to the date of disclosure of the financial statement to the public. Any acquisition-disposition-transfer-receive of the Company's securities held in their account must be reported and disclosed to the related authority. Besides the above, The Company also reports the changes in securities holding of the directors in quarterly to the Board of Directors. Incompliance with the use of internal information aforesaid shall be deemed as default of the Company's regulations. In addition, if such default is considered violation of Section 241², the violator may be subjected to Section 242³.

2 The main point of Section 241 is to prohibit any person, whether directly or indirectly, to purchase or sell, offer to purchase or sell or invite any other person to purchase, sell or offer to purchase or sell securities which are listed in the Securities Exchange or traded in an over-the-counter center in such a way as to take advantage of other persons by using information material to changes in the prices of securities which has not yet been disclosed to the public and to which information he has access by virtue of his office or position, and whether or not such act is done for his own or another person's benefit, or to disclose such information so that he will receive consideration from the person who engages in the aforesaid acts.

3 The main point of Section 242 is that the SEC Office shall have the right to call on the person who violates the Section 241 to deliver the benefit which he has gained from such trading of securities or from the disclosure of information within a six-month period from the date on which he gained access to such information. Such person shall deliver the benefit as claimed by the SEC Office within the time specified by the SEC Office. The benefit claimable under the Section 241 shall be vested in the SEC Office.

2. Conflict of interest

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. 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.

3. 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.

Section 3. 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: Stakeholders of the Company are categorized as follows:

- **Shareholder:** 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.
- **Partners:** The Company treats trading partners with fairness based on shared benefit, develops and maintains long term relationship, as well as creates trust between each other and strictly complies with the procurement regulations.
- **Creditors:** The Company strictly and completely complies with the conditions agreed with creditors, manages to return loans plus interest in timely manner.
- **Employees:** The Company treats its employees with fairness and appropriate manner in term of opportunity and compensation, appointment, 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.
- **Community and Society:** 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.

2. Risk Management Policy

- Risk management is an integral to the whole business where responsibility is adjacent to employees of all levels. With awareness toward risks adhered to their work and within department, everyone is assigned to ensure that an appropriate balance between risk and its control is achieved.
- To define risk management procedures in line with international standards, integrate same risk management to whole organization, implement risk management as a part of planning, strategy and business operation of the Company, as well as to achieve the target, vision, mission and strategy set forth in order to create success and confidence among stakeholders.
- To define prevention and minimize risks from business operation in order to avoid damage or loss, as well as to follow up and assess the risk management result regularly.

3. Safety, Occupational Health and Working Environment policy

The Company realizes that safety occupational health and working environment management is the basic responsibility of organization and is an important and necessary factor for our business operation. To become an excellent organization, all departments are constantly supported and developed under safety occupational health and working environment policy as follows:

- Prevent accidents, injuries and sickness which may be incur from operation under strict compliance of everyone, as well as limit and control work that exposes to harmful risk.
- Quickly, effectively and carefully coordinate with government authorities and private companies to minimize emergency cases or accidents incur from work.
- Strictly comply with applicable laws, regulations and provisions regarding safety, and implement safety standard to business operation
- Suitably provide equipment, tools, regulations, work plan and training course for employees of all levels to ensure they understand and receive sufficient information about safety at work and to prevent accidents or diseases incur from work.
- Review safety policy and regularly conduct assessment.

4. Society and Environment Policy

The Company realizes the importance of taking part in society and environment to be in good quality and conducts various activities to support and promote the sustainable development of society and environment by following policies:

- Operate business by taking into account the impact to society and environment;
- Aim to reduce and prevent pollution;
- Strictly comply with the applicable laws, regulations and related practices;
- Continuously develop and improve work standards to be in compliance with environmental standards.

5. Whistle-blowing Policy

In order to encourage and support all stakeholders both inside and outside the organization to take part in corporate governance, the Company has set whistleblowing policy for receiving claim of any incompliance, illegal actions. All information or claim can be reported directly to the Chairman of the Audit Committee.

- Conditions and consideration on complaints
 - 1.) The complaint must be true and clear and contain enough information to conduct an investigation.
 - 2.) To protect whistle-blower, he/she may choose not reveal their name.
 - 3.) The information received by the Chairman of the Audit Committee is kept as confidential and disclosed as deemed necessary, as the safety of whistle-blower is the main concern.
 - 4.) Upon fact-finding and investigation process, the complaint will be reported to the Board of Directors for appropriate execution.
 - 5.) The whistle-blower will be equally protected whether he/she is an employee or the third party.

Implementation⁴

- 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.

6. Right Protection for employees, contractors or temporary staff

The Company refrains from any unfair treatment toward its employees, contractors or temporary staffs such as change of position, work scope, or place of work, suspend work, threatening, disturbing, dismissal or any other action defined as unfair treatment based on the ground that:

- such person provides information, coordination or assistance whatsoever to directors, executives, government or related authorities in the event that those people reasonably believed that there is a violation or incompliance with the law, regulation, or good corporate governance policy.
- Giving statement, submitting evidence document or assistance whatsoever to the director, executive, government or related authorities in support of consideration or examination on violation of incompliance with the laws, regulations, provisions or good corporate governance.

⁴ Approved in the meeting of the Board of Directors No.1/2560 on 23 February, 2017.

Section 4. Information disclosure and transparency

1. 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 for their decision and confidence. The Office of Company Secretary and Corporate Communication are responsible for communicate and disseminate information necessary for individual investors, corporate investors, analyst and individuals within the country and abroad through different channels i.e. 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.

2. Auditor and quality of financial reports

The financial reports of the Company and its subsidiaries to be reviewed and audited by an independent auditor with knowledge and qualifications approved by SEC to ensure accuracy to the Board of Directors and shareholders. Nevertheless, the Company has policy to change independent auditor on 5 years basis where new auditor from the same accounting firm may be appointed. The same auditor may be re-appointed after at least, 2 years after his last audit completion.⁵

The Board of Directors places importance and responsibility on the financial statement 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 regularly 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.

5 The Notification of the Securities and Exchange Commission (SEC) No. GorJor. 40/2540 Re: Rules, Conditions and Procedures for Reporting the Disclosure of Information Concerning the Financial Status and Performance of the Issuing Company, Clause 5(6) in the Fiscal Year beginning on or after January 1, 2006 onward prescribed that the company issuing the securities which is the listed company must rotate auditors. If the former auditor is responsible for reviewing or auditing and expressing opinions on the company's financial statements for 5 consecutive fiscal years, except for a listed company that is a state enterprise under the law of budgetary procedures and is audited by the Office of the Auditor General of Thailand. The rotation of auditors under the 1st paragraph shall be in accordance with the following rules:

- a) The Company may appoint a new auditor under the same auditing firm as the previous auditor.
- b) The Company will appoint an auditor to vacate office since the rotation of the auditors is the company's auditor after at least two fiscal years from the date on which the auditor ceased from his / her duties.

Section 5. Responsibilities of the Board of Directors

1. Structure of the Board of Directors

- The Board of Directors consists of at least 5 directors, and at least half of the directors must have domicile within the Kingdom.
- The Board of Directors consists of at least one-third (1/3) of total numbers of directors on board and/or contain at least 3 directors.
- The amount excludes independent directors and must in accordance to fair pro rata of investment of each shareholder group.
- The Chairman of the Board of Directors and the Chairman of the Executive Officers must not be the same person to separate clear duties and responsibilities and to balance the power.

2. Qualifications of directors

- Qualified, not being prohibited to run Public Company, Securities and Stock Exchange, law, including other applicable laws and good corporate governance of the Company.
- Having competent knowledge and good professional background, independent, performing duties' honest, moral, ethical and regularly attend the meetings
- 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. Production and distribution of alternative energy และ
 3. Good corporate governance
- Holding position as a director in the maximum of 4 listed companies, and not hold any position in the entity deemed as the Company's competitor
- Qualifications of Independent Directors⁶ are as follows:
 1. Hold no more than 1% of total paid up shares in the Company, holding company, subsidiaries, joint ventures or controlling parties of the Company, which shall be inclusive of the shares held by related persons.⁷
 2. Never or not holding position of director with duty involving management⁸, employee, staff, advisor who receives monthly salary or controlling party of the Company, holding company, subsidiary, associated, subsidiary of the same level⁹ or juristic person which may have conflict, except the position that has been dismissed for at least 2 years prior to the date of appointment. The prohibited characters exclude the position in government authority or advisor for government authority which is a major shareholder or controlling party of the Company or its subsidiaries.

6 The qualification of Independent Director is in line with Clause 16 (2) of the Notification of the Capital Markets Supervisory Board No. TorChor.28/2551, RE: Application for and Approval of Offer for Sale of Newly Issued Shares, mentioning that the definition/qualification of the Compnays Independent Directors is same as the qualification prescribed by SEC and SET.

7 Related person means individual in accordance with Article 258 of the Securities and Exchange Act.

8 Director with duty involving management means the director holding the position as management, the director with duties and responsibilities like management and the director with the authority to sign and bind the Company except howing that the signature binds the transactions approved by the Board of Directors and the signature must be binded with other directors' signatures.

9 Joint venture of the same level means two or more subsidiaries having the same parent company.

3. Not related by blood or registered as being parents, spouses, siblings, or spouses of the children of the executives, major shareholders, controlling party, or persons to be nominated as executives or controlling party in the Company or its subsidiaries.
4. Have no business relations with the Company, holding company, its subsidiaries, its joint ventures, or juristic persons which may be in conflict with the Company in ways that might impair their independent judgment, is not or has not been shareholder, director which is not independent director or executive of the persons who might have business relationship¹⁰ with the Company, holding company, its subsidiaries, joint ventures, or juristic persons in potential conflict with the Company, unless such association ended no less than 2 years prior to the date of appointment.
5. Is not or was an auditor of the Company, holding company, its subsidiaries, its joint ventures, or juristic persons in potential conflict, and is not a major shareholder, director which is not independent director, executive or managing partner of the auditing office where the auditor of the Company, holding company, its subsidiaries, joint ventures, or juristic persons in potential conflict with, unless such association ended no less than 2 years prior to the date of appointment.
6. Is not and have not been a professional advisor especially in legal or financial fields who receives service fee more than two Million Baht a year from the Company, holding company, subsidiaries, joint ventures, or juristic person with conflict. In addition, the juristic person shall include the position of major shareholder, director who not serve as an independent director, executive or managing partner in that entity, unless such an independent director has not been a person referred to above for at least two years.
7. Is not director appointed as representatives of directors, major shareholders or shareholders of the company related to the major shareholders of the Company.
8. Do not operate the same and competitive business with the business of the Company, or its subsidiaries, or is not a significant partner of the partnership, or is not an executive director, employee, staff, advisor who receives salary, nor holds shares exceeding one percent of total voting shares of any other companies which operate the same and competitive business with the business of the Company, or its subsidiaries
9. Is not any otherwise which is unable to have an independent opinion regarding the business operation of the Company.

¹⁰ Relationship includes regular trade transactions to operate a rental or leasing business of real estate, transaction relating to assets or services, providing or receiving financial assistance by accepting or providing loans, guarantee, providing asset as debt warranty as well as other similar behaviors, the value of the transaction exceeds Baht 20 Million or more than 3% of net tangible assets., whichever is lower. This is in accordance with the method of calculating the value of connected transactions according to the Notification of the SET's Board of Governors with the data disclosure and the practice of listed companies about the connected transaction. The value of the transaction occurred between 1 year before the date of this transaction shall be calculated.

3. Term of directors

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 proceeding, the similar amount to one third shall be applied. The resigning directors may be re-elected. In addition to due term of office, the directors may vacate the position upon following situation:

- Death
- Resign
- Unqualified or having prohibited character as stipulated by law or the regulations of the Company
- Resigned by resolution of the shareholders' meeting
- Resigned by virtue of the court

4. Meeting of the Board of Directors

- The meeting of the Board of Directors is held on quarterly basis, with advance schedule of total meeting per annum. Meeting with special agenda may be held as necessary.
- At least half of the directors attending the meeting shall constitute the quorum.
- Chairman of the Board of Directors and Chairman of the Executive Officers (CEO) or President jointly consider the agenda to the meeting where each director can propose the matter to bring as an agenda in the meeting.
- The Company Secretary is responsible for submission of supporting document with complete information at least 7 days prior to the meeting date (except the urgent case or confidential). Additional information can be enquired from the management.
- The Chairman of the Board of Directors should allocate appropriate time to enable directors to discuss important matters in each agenda.
- The Company Secretary and Legal Department is in charge of recording and arranging the minutes of meeting to be completed within 14 days (unless any other urgent matter) from the date of meeting, keeping minutes of meeting and supporting documents, follow up to ensure the directors comply with the law, regulations and resolution of the shareholder's meeting, as well as coordinating with related parties.
- 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.

5. The Board of Directors' Duties and Responsibilities (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, accountability, be respective to the law and regulations of the Company, as well as full benefit of all shareholders.
- To determine policy and business direction of the Company, control and monitor whether the management's performance is effectively and efficiently conducted in line with regulations and policies in order to maximize economic value to the shareholders and achieve the sustainable growth.

- 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 in performance evaluation and determination of remuneration for management.
- The Board of Directors is responsible business performance and management practices to carefully and cautiously perform.
- The Board of Directors is responsible in setting up 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-ups.
- The Board of Directors is responsible for reporting the responsibilities of the Board of Directors in preparing financial reports 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 and audit system.
- To provide efficient risk management and regularly follow-up.
- To implement good corporate governance and regularly follow up the result.
- To recruit 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 internal control system, management, application of resource, appointment of directors and to determine standards of business conduct with their independent discretion, 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.

As above-mentioned, it 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.

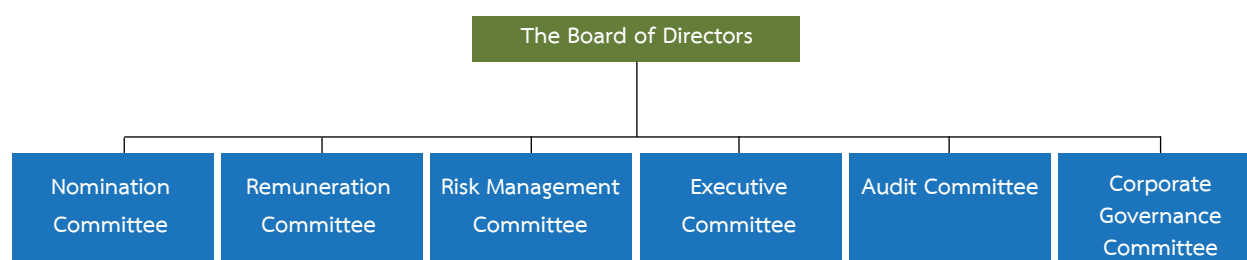
2. Sub-Committees

Appointment of Sub-Committees

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

- The Executive Committee
- The Remuneration Committee
- The Audit Committee
- The Risk Management Committee
- The Nomination Committee
- The Corporate Governance Committee

Structure of Committees (Sub-committees) of the Company



Details of each Sub-Committees are as follows:

• The Executive Committee

The Executive Committee must be the Company's Director and/or the Company's Executive who is 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.

Scope of duties and responsibilities of the Executive Committee which is appointed by the Board of Directors are as follows:

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. To review the code of conduct, handbooks for different departments to ensure compliance with the regulations stipulated by related government authority.
4. 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.
5. 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.

6. To consider and approve work procedures as assigned by the Board of Directors.
7. 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.
8. To consider and approve budget for normal transaction of the Company, which maximum value is 250 Million Baht.
9. 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, unless the Nomination and Remuneration has been appointed.
10. The meeting is held on a monthly basis where half of the directors attending the meeting shall constitute the quorum.

Nonetheless, the power of the executive committee including authorization to other person as considered appropriate by the executive committee shall not constitute power of proxy to approve transactions that he or 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.

As of 31st December 2017: The Executive Committee consists of 5 members as follows:

Name	Position	No. of attendance / total meeting
1. Mr. Somphote Ahunai	Chairman of the Executive Committee	9/12
2. Mr. Amorn Saphaweekul	Executive Committee	10/12
3. Mr. Wutthilerd Chiannilkulchai	Executive Committee	10/12
4. Mr. Sutham Songsiri	Executive Committee	10/12
5. Mr. Somboon Ahunai / ¹	Executive Committee	7/10
Ms. Yaowaluag Pukpikul	Secretary of the Executive Committee	
Member ceased during the year	Position	No. of attendance / total meeting (ended on the position ceasing date)
Mrs. Dujdao Luksanaviwat / ²	Executive Committee	1/2

Note :

/1 Mr. Somboon Ahunai (Executive Committee No. 5. : joined the position Executive Committee with the effect on 23 February 2017.

/2 Mrs. Dujdao Luksanaviwat : ceased from the position of Executive Committee on 23 February 2017.

- **The Audit Committee**

The Audit Committee which is appointed by the Board of Directors and 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 with sufficient experience to review the reliability of the financial statement.

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 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

- To review and approve annual internal audit plan, as well as personnel and resources required;
- To 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;
- To review efficiency of the Internal Audit performance to ensure that the internal audit standard has been implemented.

4. Control the compliance with law and regulations
 - To regularly consider changes of law, regulations proposed by the Internal Audit which have impact to the business operation of the Company;
 - To review the facts found by controlling authority, follow up, improve, as well as report to the Board of Directors;
 - To 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. Risk Management
 - To review to ensure efficiency of control on policy and duties related to risk management of the Company and its group;
 - To review the efficiency of risk management system of the Company and its group.
6. Consider and ensure accuracy and completeness of the information disclosure of the Company in case there is connected transaction or conflict of interest.
7. Select, propose, appoint and consider remuneration of the Auditors.
 - Responsible for selection, appointment and proposal of the remuneration of the Auditors.
8. 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.
9. 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.
10. Other responsibilities
 - Otherwise act as assigned by the Board of Directors;
 - To 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;
 - To provide self-assessment 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.

As of 31st December 2017: the Audite Committee consists of 3 Independent Directors as following details:

Name	Position	No. of attendance / total meeting
1. ACM. Chainan Thumasujarit	Chairman of the Audit Committee and Independent Director	12/12
2. Mr. Chaiwat Pongpisitsakul	Audit Committee and Independent Director	12/12
3. M.R. Bravochat Chatchai	Audit Committee and Independent Director	12/12
Ms. Pimvara Laemsuwanchuen	Secretary of the Audit Committee	

The performance of the Audit Committee for the year 2017 is appeared in accordance with the Report of Sub-committees for the year 2017.

- **The Nomination Committee**

The Board of Directors appointed the Nomination Committee to support the Board of Directors in setting policies, criteria and procedures for recruiting qualified persons to serve as the Company's director, subcommittee member including top executives¹¹ and the person assigned by the Board of Directors in accordance with the recruitment process and propose to the Board of Directors.

The Nomination Committee consists of at least three directors who are all independent directors and the Nomination Committee members will select one member as the Chairman of the Nomination Committee.

Duties of the Nomination 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 review and assess the work performance of the directors and executives;
3. To monitor the nomination plan for specific position of the top executives;
4. 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;
5. To provide development plan for directors to ensure that the current directors and new directors understand the business of the Company and their roles, including important development such as industry situation, rules or law related to the business of the Company.

¹¹ 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.

As of 31st December 2017: The Nomination Committee consists of 3 Directors as following details:

	Name	Position	No. of attendance / total meeting
1	M.R. Bravochat Chatchai	Chairman of the Nomination Committee and Independent Director	5/5
2	ACM Chainan Thumasujarit	Nomination Committee and Independent Director	5/5
3	Mr. Chaiwat Pongpisitsakul	Nomination Committee and Independent Director	5/5
	Ms. Pimvara Laemsuwanchuen	Secretary of the Nomination Committee	

The performance of the Nomination Committee for the year 2017 is appeared in accordance with the Report of Sub-committees for the year 2017.

- **The Remuneration Committee**

The Board of Directors appointed the Remuneration Committee to support the Board of Directors in 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 Remuneration Committee consists of at least 4 directors and shall have independent directors at least half of member. Member of Remuneration Committee elect member to be Chairman of the committee.

The Remuneration Committee has duties and responsibilities as follows:

- 1) 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;
- 2) 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, then propose to the Board of Directors for further consideration.

To perform such duties, the Remuneration Committee considers from the reasonable and reflects the scope duties and responsibilities of director, the financial status of the Company in comparing with the good practice of other companies in the same size and same sector. The remuneration of directors shall be proposed to the Board of Directors for further approval from the shareholders' meeting.

The criteria to determine the remuneration are as follows:

1. **Remuneration 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 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.

As of 31st December 2017: The Remuneration Committee consists of 5 Directors and more than half of them are Independent Directors (3 Independent Directors) as following details:

Name	Position	No. of attendance / total meeting
1. Mr. Chaiwat Pongpisitsakul	Chairman of the Remuneration Committee and Independent Director	3/3
2. ACM. Chainan Thumasujarit	Remuneration Committee and Independent Director	3/3
3. M.R. Bravochat Chatchai	Remuneration Committee and Independent Director	3/3
4. Mr. Sutham Songsiri	Remuneration Committee	3/3
5. Amorn Saphthaweeikul	Remuneration Committee	2/3
Mrs. Pornthip Saengchan	Secretary of the Remuneration Committee	

Note:

- Ms. Pimvara Laemsuwanchuen ceased from the position of Secretary of the Remuneration Committee with the effect on 15 June 2017.
- Mrs. Pornthip Saengchan was appointed as the Secretary of the Remuneration Committee with the effect from 15 June 2017.

The performance of the Remuneration Committee for the year 2017 is appeared in accordance with the Report of Sub-committees for the year 2017.

• **The 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, the duties of the Risk Management .

Committee are as follows:

1. To determine and measure the 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, encourage to have culture of risk management and proper internal control:

As of 31st December 2017: The Risk Management Committee consists of 6 Directors (half of them are Independent Directors) as following details:

Name	Position	No. of attendance / total meeting
1. ACM Chainan Thumasujarit	Chairman of Risk Management Committee and Independent Director	6/6
2. M.R. Bravochat Chatchai	Risk Management Committee and Independent Director	5/6
3. POL. GEN Phatcharavat Wongsuwan	Risk Management Committee and Independent Director	-/6
4. Mr. Somphote Ahunai	Risk Management Committee	6/6
5. Mr. Amorn Saphaweeikul	Risk Management Committee	5/6
6. Mr. Wutthilerd Chiannilkulchai	Risk Management Committee	4/6
Ms. Yaowalug Pukpikul	Secretary of the Risk Management Committee	

The performance of the Risk Management Committee for the year 2017 is appeared in accordance with the Report of Sub-committees for the year 2017.

• The Corporate Governance 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.

The duties of Corporate Governance Committee are as follows:

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;
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.

As of 31st December 2017: The Corporate Governance Committee consists of 4 Directors, more than half of them are Independent Directors as following details:

Name	Position	No. of attendance / total meeting
1. Mr. Chaiwat Pongpisitsakul	Chairman of Corporate Governance Committee and Independent Director	4/4
2. ACM Chainan Thumasujarit	Corporate Governance Committee and Independent Director	4/4
3. M.R. Bravochat Chatchai	Corporate Governance Committee and Independent Director	4/4
4. Mr. Sutham Songsiri	Corporate Governance Committee	4/4
Ms. Yaowalug Pukpikul	Secretary of the Corporate Governance Committee	

The performance of the Corporate Governance Committee for the year 2017 is appeared in accordance with the Report of Sub-committees for the year 2017.

3. Evaluation of the Board of Directors' performance

The Board of Directors jointly determines criteria and evaluates their self-performance which consists of group and self- evaluation on annual basis. Evaluation results are used to improve and develop directors and work processes.

For the year 2017, the result of Board self-assessment is as follows:

- The Board self-assessment: 100 %
- Self-assessment of each director: 99.72 %

4. Directors' remuneration

The remuneration committee has duty to determine and set criteria of directors remuneration as well as proposes to the Board or further proposes to the shareholders for approval. The remuneration of each year is considered with transparency, appropriateness and consistent to the responsibility and benefit from each director.

5. Training and Development Course for Directors

Newly appointed director will be given information, regulations and business information crucial to his duties. The Company provides opportunity of skills development of directors through continual training courses to support directors to perform their duties with full efficiency and effectiveness.

6. Succession Plan

The Board of Directors formulates the succession plan of Chairman of the Board of Directors and top executives to ensure confidence among shareholder, investors, companies and employees of continued performances. The succession plan is reviewed on annual basis.

- **Succession Plan Policy**

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

- 1. Chairman of the Executive Committee or equal position**

Once the Chairman of the Executive Committee or equal position becomes vacant or unable to perform his 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.

- 2. Executive**

Once the executive position ranked from director upward, becomes vacant or person holding such position is unable to perform his 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 competencies which mean 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 analysis their competency.

- Specify the successor based on the evaluation, analysis of competency and performance, as well as to give notice to the applicant in advance to be prepared and acknowledge the position details, and to specify the alternative successor.
- Develop and evaluate applicant whom expected to be successor to see his development and potential to achieve target, applicant who not meet the requirement will be replaced.

7. Nomination and appointment of the directors and top executive

Composition and Nomination of the Board of Directors

1. The Company has Nomination 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 proceeded, 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. The shareholders' meeting appoints directors based on majority vote and requirements as follows:
 - Shareholder has the right to vote as per number of shares hold.
 - Each shareholder must cast all their votes for one or more candidates as they choose but cannot divide their voting rights.
 - Candidates with highest amount of votes will be elected as director. In the case more than one candidate has received an equal number of votes, and there are not enough vacant positions, the chairman of the meeting will cast the vote.
4. In the event that the positions on the Board becomes vacant for some other reason than the normal expiration of a director's term, the Committee may elect a qualified person who does not have prohibited characters as stated in the Public Company law, as a replacement to fill that position only for the remaining term, unless the remaining period is less than two months. The resolution of the designation shall receive votes of not less than three-fourths (3/4) of the remaining directors.
5. By resolution, the shareholders' meeting may have resolution to resign a 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 total shares hold by the attending shareholders in the meeting.

8. Nomination / Supporting Factors and Qualifications of the Sub-Committee

- **Audit Committee:**

The Audit Committee consists of directors from the Board of Directors, appointed by the Board of Directors, with qualifications as stated by the Securities and Exchange Act, notifications, regulations and/or the rules stipulated by the Stock Exchange of Thailand. The Audit Committee consists of at least 3 Independent Directors and at least 1 director should have competent knowledge in accounting and finance.

Qualifications of the Audit Committee

1. Has never been assigned by the Board to make decision in business operation of the Company, holding company, subsidiaries, and associated, subsidiaries in the same level, major shareholders or controlling parties of the Company; and
2. is not holding directorship in the holding company, subsidiaries or subsidiaries in the same level only the listed company;
3. Have sufficient knowledge and skill to perform duties as Audit Committee member. However, at least one committee member should have competent knowledge to review the accountability of the financial statement.
4. Having the same duties as prescribed in the notification of the Stock Exchange of Thailand Re: Qualifications and Scope of Work of the Audit Committee.

- **Executive Committee:**

The Executive Committee must be elected from the members of Board of Directors and/or executives and is appointed by the Board of Directors. The number of Executive Committee is as considered appropriate by the Board of Directors. The Chairman of the Executive Committee is also elected by the Board of Directors.

- **Nomination Committee:**

The Board of Directors appoints the Nomination Committee to support the Board of Directors in determination of policy, criteria and procedures in seeking qualified person to undertake the directorship, sub-committee, including top executives¹² and the person as assigned by the Board of Directors in line with the nomination procedure stipulated, and to suggest opinion to the Board of Directors.

Nomination Committee consists of:

1. At least 3 independent directors
2. The Chairman of the Nomination Committee is elected by the resolution of the meeting of the Nomination Committee.

¹² 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.

- **Remuneration Committee:**

The Board of Directors appoints Remuneration Committee to support the Board in determination of policy, package and criteria of Remuneration for Directors, Sub-committee, Executives¹³ and person assigned by the Board of Directors, to propose to the Board of Directors for approval.

- **Remuneration Committee consists of:**

1. at least 4 directors from the Board
2. at least half of members are the Independent Directors
3. the Chairman of the Remuneration Committee is by resolution of the meeting of the Nomination Committee.

- **Risk Management Committee:**

The Board of Directors appoints Risk Management Committee to support the Board in determination if risk management policy covers whole organization, to implement risk management system or procedure to reduce/minimize impact on the business of the company group efficiently by formulating factors, scope of authority, duties, responsibilities to ensure the Risk Management Committee perform their duties with full effect.

The Risk Management consists of

1. At least 5 directors from the Board;
2. Half of members are Independent Committee. At least half of the members must have competent knowledge in finance, accounting, legal, or risk management or skill or expertise related to business operation of the Company;
3. The Chairman of th Risk Management Committee is elected by resolution of the meeting of Risk Management.

- **Corporate Governance Committee:**

The Corporate Governance Committee is appointed by the Board, consist of at least 3 directors elected from the Board. Their duties are to determine and review policy, regulations and work approach to be in line with good corporate governance, determine and plan about corporate social responsibilities, hold a meeting to follow up progress of corporate governance plan as well as corporate social responsibilities, as well as to give advice and support as necessary, to conduct internal assessment based on corporate governance principles in order to seek for improvement, to act as representative of the Company in communication and conduct corporate governance with the executives, employees and external agencies.

¹³ The Company's executive means the executive in the level of Chief Executive Office or or a person holding equivalent position with different position title of Energy Absolute Public Company Limited and its subsidiaries.

9. The Control of the subsidiaries and associated

Mechanism to control and manage work performance of the subsidiaries: 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 at least in proportion of shareholding. The duty of such representatives is to ensure the best performance of the subsidiaries.

Moreover, the representatives must ensure the subsidiaries 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 can be reviewed and collected to enable delivering financial statement in timely manner.

1. 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 associated.

10. 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 asset 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. Violation or failure to comply with the regulation issued in accordance with Section 275 of the Securities and stock Exchange B.E. 2535 be 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 an 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 asset 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.

11. Compensation for Auditors

- Audit Fees

In 2017, the audit fees of the Company and subsidiaries as details belows:

Audit fees for the year 2017

	Company Name	Audit fees for the year 2017
1	Energy Absolute PLC	1,400,000.00
2	Subsidiaries and Associated	6,608,500.00
	Total	8,008,500.00

Notes:

In 2017: there are 27 subsidiaries (direct and indirect) and 2 associated.

- Non-audit fee

The Company and its subsidiaries pay remuneration for other services to the audit firm that auditors are belonged to, person or business involved in the auditor and the audit firm for the Auditor's Report to propose to the Board of Investment (BOI) in the past year at 500,000 Baht

	Company Name	Non-audit fee for the year 2017
1.	Energy Absolute PLC	150,000.00
2.	Subsidiaries and Associated	350,000.00
	Total	500,000.00

12. Good Corporate Governance Practice

In business operation, the Company realizes that all shareholders are an owner of the Company. Hence, to assure and confide the shareholders that their investment made with is worthy, by having policy that retains the basic rights of shareholders on fair basis as stipulated by law and to be compliance with the good corporate governance for the listed companies for the year 2006 notified by the Stock Exchange of Thailand. The Company has applied 5 principles as a guideline for code of conduct which are rights of shareholders, fair treatment to shareholders, roles of stakeholders, disclosure of information and transparency and responsibilities of the board of directors to facilitate the effectiveness, transparency and audibility of its management system, which will create confidence and assurance among shareholders, investors, stakeholders and all related parties. The main subjects of the corporate governance operation are as follows:

Section 1: Rights of Shareholders

The Company facilitated all shareholders to receive basic rights both as an investor of securities and owner of the Company under the acceptable and reliable approach and standards by entitling right to acquire, dispose, transfer securities hold freely, receive share of profit from the Company in accordance with the policy approved by the shareholders' meeting, attend the shareholders' meeting, submit the questions prior to the meeting date, freely express their opinion in the meeting, participate in decision making toward important matters of the Company such as election of directors, amendment of the articles and memorandum of association. However, all shareholders are entitled to vote in accordance with the portion of shares hold where one share represents one vote; all shares are equal.

In addition to all basic rights aforesaid, the Company has provided additional matters to support and facilitate right exercise of shareholders as follow:

1. Provide important and necessary information to shareholders related to business operation clearly via the communication of the Stock Exchange of Thailand and the Company's website;
2. All shareholders received supplementary information for meeting agenda one month prior to the shareholders' meeting date on the Company website. The Company sent related document in 7 days for normal agenda and 14 days for agenda which requires extraordinary resolution in advance. Furthermore, the rights of shareholders in the meeting and rights to vote of shareholders are clarified clearly in the document sent to shareholders;
3. The annual general meeting of shareholders 2017 did not contain any agenda that requires extraordinary resolution. However, the Company sent the invitation letter 28 days prior to the date of meeting to provide shareholders an opportunity to study the key information within sufficient length of time.
4. In the event that the shareholder is unable to attend the meeting, the Company has provided an alternative for shareholders to propose an independent director or any person to attend the meeting through Proxy form A, B and C which sent together with the invitation letter. The Proxy form B allows shareholders to determine their vote direction as stipulated by the Ministry of Commerce.
5. In year 2017, the annual general meeting of shareholders was held on Thursday 27 April 2017, attended by the Board of Directors, Chairman of the Audit Committee and Chairman of the Executive Committee and Chairman of sub-committees such as Chairman of the Nomination Committee, Chairman of the Remuneration Committee, Chairman of the Corporate Governance Committee and Chairman of the Risk Management Committee, including Chief of Executive Officer in order to answered and provided information to shareholders.
6. In the meeting date, the registration is performed through Barcode system to facilitate shareholders at best convenience. The Company Secretary explained rules and methods of voting for each agenda where the vote of each agenda is collected though ballot of shareholders which disagree and abstain to deduct from total votes. For agenda which related to re-election of the director who resign due to their term, the Company encourages to consider an election by person where ballot is given to each shareholder represented the vote as agree, disagree and abstain.

7. In the annual general meeting of shareholder year 2017, there was one-third of the director who resign upon completion of their term. The election of director is made individually where each ballot is the vote for each candidate agree, disagree and abstain.
8. During the meeting, shareholders were allowed to freely express their opinions and raise their questions in each agenda before setting resolution to enhance shareholders of sufficient information in relation to the particular matters.
9. The Company determines to have agenda related to remuneration of directors to clarify to shareholders of types of remuneration received by each set of committee per annum.
10. In the annual general meeting of shareholders year 2017, the Company considered each agenda in order as specified in the invitation letter sent to shareholders in advance without any changes in such agenda, and the Company did not ask for any other matters out of as appeared in the invitation letter sent to shareholders.

Section 2: Equitable Treatment of Shareholders

Equitable treatment among all groups of shareholders whether minor or major shareholders, institution investors or foreign investors is the issue which the Company takes into account and put its best effort to create true fairness especially to the minor shareholders. During year 2017, the Company has supported the equitable treatment of shareholders as follow:

1. Provide information prior to the meeting of shareholders

- The Company notified the meeting schedule as well as its agenda, opinion of the board of directors to the Stock Exchange of Thailand and publicized on the Company's website at least 1 month prior to the annual meeting of shareholders.
- During the previous meetings of shareholders, the Company has provided information in the invitation letter to shareholders in Thai and English language and publicized/sent the invitation letters in both languages to the shareholders 28 days in advance. The detail pertaining to the invitation letter are as follow:
 - Articles of association related to the share holders' meeting, practice guides, regulations and rules applied to the meeting, procedure of voting and resolution, including voting right to the shares in the annual general meeting of shareholders;
 - Document and evidence showing right to attend the meeting;
 - Proxy and procedures/ Proxy form A, B, C;
 - Voting and counting procedures / procedures of attending the general meeting of shareholders
 - Information of the Independent Committee of whom the shareholders may elect as his proxy holder
 - Map and location of the shareholders' meeting

2. Protection of rights of minor shareholders

- The Company stipulates the criteria to enable shareholders to propose additional 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 2017, the Company had invited shareholders to propose agenda in advance and propose the qualified person to be elected as director of the Company from 7 Oct 2016 to 15 Jan 2017 (for the Annual General Meeting of Shareholder, the Company determined to be proposed of namelist for consideration from 28 September 2017 – 31 December 2017) for the purpose of transparency and fairness.
- The Company determines criteria and pattern to enable minor shareholders to propose a list of candidates for 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 invited shareholders to send their questions related to the general meeting of shareholders 3 months prior to the date of the shareholders' meeting
 - In the 2017 Annual General Meeting of Shareholders, there was no additional agenda which had not been informed to the shareholders in advance.
- In the 2017 Annual General Meeting of Shareholders, in regard to the agenda concerned election of the director, the Company supported individual election, and the ballot is used to vote for each candidate.

3. Control of internal information

The Board of Directors has stipulated the measures to prevent misconduct of internal information (Insider Trading) of related person which included the Board of Directors, executives and employees whose duties involved with the information thereof, as well as their spouses and minor child of such person, as following:

- Related person is exempted from buying and selling securities of the Company within 1 month prior to the disclosure of quarterly and annual financial statement, and at least one day after the date of such disclosure.
- In case the related person has access to information of which has not been disclosed which may affect the securities price of the Company, he/she must not buy, sell the securities of the Company until such information will be disclosed to the public domain completely.
- The Company's directors must quarterly report their possession of securities to the Board of the Company.
- The securities under possession of the directors and executives are disclosed in the annual report of the Company.

4. Prevention on the conflict of interest

- The Company has structure of shareholding which is explicit, transparent without crossshareholding 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.

Section 3: Roles of Stakeholders

The Company conducts its business adhering to responsibilities to all stakeholders. The Board of Directors controls over the management system to ensure that such right have been protected and treated equally and strictly. During the previous year, the Company has reviewed and improved, as well as determined policy on treatment to stakeholders as a practice guideline for good corporate governance as following:

1. Treatment to stakeholders

Stakeholders of the Company are categorized as follows:

- **Shareholder:** The Company determines to create quality and stable business growth for the full and sustainable benefit of the shareholder, respect to rights of shareholders by providing necessary information fairly, while disclosing accurate information, conduct business with honesty, integrity, transparency and justice.
- **Customer:** The Company continues its mission to provide excellent service system to ensure that all customers receive appropriate response and treatment, and complete- accurate information as required without distortion. 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:
 - Advertise products and services of the Company based on true fact, refraining from misleading, against morality and culture, and does not cause conflict to society.
 - Deliver products and service in accordance with the agreement made with customers.
 - Maintain its standards, product/service quality to ensure confidence and satisfaction among customers.
 - 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.
 - Not require for money, material or any benefit which indicate unfaithful action from customers
- **Creditor:** The Company strictly complies with the conditions agreed with creditors and manages to return loans plus interest in timely manner, as well as to duly comply with the loan conditions.
- **Trading partner:** The Company continues to treat its trading partners whom deemed as business partner with equity and based on the mutual benefit, develop and maintain long-term relationship with trading partners, 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 (trading partner and creditors):

- 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.
- Procure transparently. Proceed the procurement with transparency, equally, accurately, clearly, completely, fairly and verifiably treat all stakeholders.
- Procure from entrepreneurs who comply with laws that are not or do not benefit from labor or production process which is unlawful and immoral.
- Take into account the quality, safety of purchased goods and services which may affect the health of users, employees, communities, society and environment.

- Not use the information obtained from the procurement operation for private benefit or other people who are not involved.
- Negotiate and enter into a contract with fairness, not taking advantage over the contract party by considering reputation and image of the Company
- **Employees:** The Company carries on to take care and treat its employees with fairness and appropriateness in respect to opportunity, compensation, appointment, relocation, skill development, including control and management of working environment to be safe for life and properties of employees in all levels with justice and equity. The Company also listens to all comments and suggestions from employees and treats all levels of employees 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 actions that violate intellectual property or other person or its competitors. The practice guideline to competitors is stipulated as follow:
 - Refrain from damaging reputation of competitors by accusing in negative way;
 - Refrain from seeking information, trade secret of competitors by dishonest method;
 - Support fair competition and adhere to the competition rules strictly;
 - Not enter into any agreement with competitors or any person which reduce or limit the competitiveness;
 - Consider the equality and honesty in conduct of business and mutual benefit with the trading partners
 - Conduct business with morality
- **Community, Society, Environment, Health and Safety:** The Company maintains its participation in society by complying with the law and/or applicable regulations, regularly coordinates with government authorities, ensures that business operation will not cause any damage to life quality of community, society and environment, supports and develop society in terms of life quality development, education support, energy saving and environmental care with fairness to the community as a whole. The practice guideline toward communities, societies, environment, health and safety are set forth as follows:
 - 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 to business management within organization.
 - Review, monitor and evaluate work performance to lower impact to environment, hygiene, safety of communities and environment
 - 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.
 - 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.

2. Policy on non-violation on information, IT and intellectual property

The Company determines policy against violation on information, IT and intellectual property of the Company and subsidiaries, and to comply with applicable law related to intellectual property or copyright, as well as not to support violation on intellectual property of other person. The details are as follow:

- Any works resulted from performing duties is deemed as intellectual property of the Company
- After discharging from employee status, all intellectual properties including products of invention must be returned to the Company in all forms of collection.
- To use software and computer programs, user must receive permission from owner of copyright and the Company will permit to the extent of the Company's necessity.
- To bring works or information of which a copyright of external party to use within the Company, art work must be reviewed to ensure that the application will not violate the intellectual property of other persons.

3. Create good relationship with communities where the Company's office is located

Realizing the importance of good relationship with surrounding communities, the Company has determined its practice to support knowledge and develop occupation of the surrounding communities such as inviting the Local Administrative Office, community leaders and nearby schools to visit the solar power plants, sparing parts of the land into model plot of non-toxic vegetable growing, growing of vetiver grass to protect soil erosion, raising animals. Communities and Schools nearby are invited to visit for learning and practice.

4. Provide project or approach against corruption. Corruption includes support of compliance with related laws and regulations.

With intention to conduct business with ethics adhering to social responsibilities and all stakeholders, in compliance with good corporate governance and ethics, in year end of 2013, the Company joined "Alliance of Private Sectors Against Corruption" to express its explicit intention and determination against corruption in all forms. In addition, to ensure that the Company has formulated appropriate policy on responsibilities, practice guideline and regulations to prevent corruption in all activities of the Company, and to assure that all decisions and business operation which may contain risk of corruption will be reviewed and executed carefully, the Company has imposed "Anti-Corruption Policy" in written form as a clear guideline for business operation and development to organization of sustainability.

Practice guideline to support anti-corruption

1. The Board of Directors, executives and employees shall comply with anti-corruption policy and the Company ethics without interfering with corruption directly or indirectly.
2. Employees shall not ignore or negligent to any action which may lead to corruption related to the Company. Such issue must be informed to the head of chief or person of responsibilities for acknowledgement. Employee shall coordinate in investigation of facts upon doubts or questions, discuss with head or chief of department or person of responsibilities for monitoring of compliance of the ethics set forth in different channels.
3. The Company shall provide justice and protection to the employee who refuses or inform of the corruption related to the Company by using Whistleblower Protection Policy or any person coordinating in reporting of corruption as set forth by the Company in Whistleblower Policy

4. Any employee commits corruption is deemed as breaching the Company's ethics and will receive penalty as prescribed in the regulation as well as subject to the legal penalty if such action is included as a legal offence.
5. The Company is aware of the importance in dissemination, distribution of knowledge and understanding with other person who performing their duties, which related to the Company or may affect the Company in respect to the compliance with the anti-corruption policy.
6. The Company determines to create and reserve organization culture which adhere and against the corruption, including transactions executed with public and private sectors.

Procedure for handling

1. The Anti-Corruption Policy shall cover human resource management from nomination or recruiting of personnel, promotion, training, performance evaluation and remuneration by supervising head or chief of all levels communicate and assure the understanding among employees in order to conduct the business activities under their own responsibilities and control effectively.
2. Any conducts under Anti-Corruption Policy shall be in line with practice guidelines set forth in the ethic manual The Corporate Governance Manual of the Company, policy and practice guideline to all stakeholders, including regulations, and related business operation manual of the Company and any other practice guide lines which will be further formulated by the Company.
3. For transparency operation which contain high possibility of corruption, the Board of Directors, executives and employees of all levels shall be careful in the matter as follows:
 - Gift, banquet, expense for giving-deliver or accepting of gift shall be as stipulated in the Ethics
 - The money donated for charity or supporting or receipt of donation or supporting fund must be given with transparency and in line with law and assure that such donation or supporting fund will not be used as a reference for bribing.
 - Business relationship and procurement made with public sector shall be prohibited from offering or accepting bribe in all business operation. In addition, business conduct of the Company and connection with public sector must be executed with transparency and in compliance with applicable laws.

Since 2014, the Company has supported the Anti-Corruption Policy by formulating policy which enables investigation and indication of the cause and policy on receiving report in order to enhance reporting channels to all stakeholder both internal and external. Any doubts or questions, or finding of action which may contain corruption, violation or incompliance with the law, regulations or business ethics can be reported or informed together with submission of evidence to the Chairman of the Audit Committee. The condition and consideration on the report are stipulated as follows:

- The complaint must be true and contain enough information to conduct an investigation.
- To protect whistle-blower, he/she may choose not reveal their name.
- The information received by the Chairman of the Audit Committee is kept as confidential and disclosed as deemed necessary, as the safety of whistle-blower is the main concern.
- Upon fact-finding and investigation process, the complaint will be reported to the Board of Directors for appropriate execution.
- The whistle-blower will be equally protected whether he is an employee or the third party

Any grievance can be filed directly the Chairman of the Audit Committee via email: chairman.audit.com@energyabsolute.co.th

5. Support learning and training courses in relation to environment to employees

The Company takes into consideration subject matter of environment and community friendly. Since 2014, the Company has joined the Project “Annual industrial enterprise corporate governance” (Refer details of “Corporate Social Responsibility”)

Section 4: Disclosure and Transparency

The Company places importance on the disclosure of information since it has influence to the decision making of investors and stakeholders. Therefore, the Company has determined to control and formulated measures in disclosure of both financial and nonfinancial information with accuracy as stipulated by law, sufficient details, reliable within timely manner. The information disclosure is conducted in both Thai and English language and is disseminated on SET Community Portal of the Stock Exchange of Thailand and on the Company’s website by strict adherence and compliance with related laws, regulations as stipulated by the Securities and Stock Exchange of Thailand and the Stock Exchange of Thailand and other public agencies. The Company also follows changes or amendment of any rules, regulations related regularly to ensure that the Company complies with the accurate and current regulations imposed and to assure shareholders of transparent business operation.

1. 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 person’s who involve with stake holding of business management of the Company or its subsidiaries. The criteria and method of report is as follow:
 - Make a report after first undertaking director or executive position;
 - Make a report for any changes related to stake holding.

2. Disclosure and summary of business ethics, ethics for directors, executives and employees as well as risk management policy

The Company has supervised to collect and create ethics, policy, and practice guideline of the Company Group in written form for directors, executives and employees to apply as a practice guideline. The subject matters are summarized as follow:

Business Ethics: The Board of Directors has established the “Business Code of Conduct”¹⁴ 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

- Respect for human rights without discrimination on the basis of similarity or difference for race, religious, gender, age, education, status, including respect for personal liberty and privacy protection.
- Have evaluation system, compensation for performance, rewards and penalties based on non-discriminatory justice and explicability.
- Open the opportunity and focus on the development of skills, knowledge and competency of employees thoroughly and continuously as well as prepare the succession plan for all key positions.
- Use knowledge, ability, appropriateness, and performance of employees as indicators in considering the nomination, transfer by fair, equitable and explicable assessment.

2. Communities, societies, environment, health and safety

- Correctly and fully comply with relevant laws, and management guidelines, as well as promote the implementation of international standard management systems as the tool of management.
- Inspect, monitor and evaluate the implementation to reduce the impact on the environment, occupational health, safety, community and environment.
- Communicate for understanding and cooperation in providing information to the community and society, investors, shareholders and other interested parties in timely manner with the situation and the fact of the business operation of the Company without obscuring facts.
- Aim to participate in the development and promotion of social activities, environmental protection and improve the quality of life in the community in according with the principle of sustainable development for happily living together.

3. Receiving or Providing Property or any benefits that might motivate the decision.

- Perform their duties with honesty, diligence and sense of responsibility.
- Disclose all factual information.
- Do not request or receive any property, item or benefit from people involving in business with the intention to act or refrain from any action that is not correct or exchange with the privilege of the Company.
- Not use the power in the position / duties in the Company for personal benefit

¹⁴ Approved by the meeting of the Board of Directors No.2/2557 on 11 March, 2014

4. Conflict of interest in transactions of the Company

- Avoid any action that will cause conflicts of interest with the organization or that may affect the decision to perform duties.
- Be cautious about personal relationships with people who may have potential conflicts of interest or a commercial competitor with the Company, as well as relationships or personal business with colleagues that may cause the conflict or affect the performance.
- Do not take advantage of data or opportunity to be a staff member in the pursuit of personal interests for private or business purposes other than the Company's work which affects the job function.
- Do not conduct any action that is contrary to the business interests of the Company or competitive with the Company which affect the Company to lose benefits or receive lesser beneficial than it should be.
- Follow the rules, procedures and disclosure of connected transactions in accordance with the requirements of the Stock Exchange of Thailand and the Securities and Exchange Commission.

5. Acquisition and disposal assets of the Company and the use of internal information

- Do not use internal information or disclose internal information to outsiders or use the important information that is not publicly available for personal benefit.
- Avoid expressing opinions to outsiders or the media concerning the matter or the information of the Company which there is no clear policy or guidelines for doing so that may affect the stock price of the Company.
- Do not use the information obtained during performing duties for personal benefit or for any unlawful Insider Trading preventive measures of related persons, such as directors, executives and employees in relevant departments including their spouses and minor child of such person by forbidding to buy, sell, transfer or receive the transfer of securities of the Company within one month before disclosing the quarterly financial statements and annual financial statements and at least 1 working day after publicizing such financial statements.

6. Compliance with laws, regulations, provisions

- Strictly perform duties under the law and regulations of the Company.
- Respect and support activities / transactions that are legitimate and the ethics of the organization.

7. Application of properties, information, IT and intellectual property of the Company

- Comply with laws and regulations on information technology of the Company
- Do not violate the copyrights and trademark that may cause damage to the Company.
- Use hardware and software provided by the Company for the Company's business.
- Maintain the security of information systems including not disclose the password to access the information system of the Company to others.
- Efficiently use the property of the Company to maximize the benefits to the Company and not use the property of the company for personal benefit.
- Protect the intellectual property of the Company to not be damaged, lost, degraded and utilize the intellectual property for the best interests of the Company and maintains proper confidentiality of information by defining as **"Non-Violence Policy on information, information technology and intellectual property"**¹⁵ which is as follows:

¹⁵ Approved by the meeting of the Board of Directors No.6/2014 on 14 November, 2014

1. Works resulting from the fulfillment of duties is considered as the intellectual property of the Company.
2. Upon termination of employment, that employee must return the intellectual properties including the invention works whether it be stored in any form.
3. The use of software and computer programs must be approved by the copyright owner and the Company will allow the necessity of the use of the company's copyright only.
4. The use of works or information, which is the copyright of third parties to be used within the Company is required to check to ensure that it does not infringe on intellectual property.

8. Treatment to customers and product quality / marketing communication

- Advertise the Company's products and services truthfully, do not make any misunderstanding and do not conflict with the good traditions and not cause the conflict.
- Deliver goods and services in accordance with agreements with customers.
- Maintain the quality standard of products and services to build up the customer confidence and satisfaction.
- Listen to customer complaints and timely improve and correct. In case of having limitation or requiring time to correct, the Company has to notify the customer to acknowledge in a timely manner and regularly report the progress of the improvement.
- Do not collect money, materials or any benefits from the customer which will be dishonest actions.

9. Treatment to contract parties (trading partner and creditors)

- Strictly follow the conditions and terms of the contract if the conditions can not be met, notify / negotiate with the contract party to find solutions and remedies for damage.
- Proceed the procurement with transparency and equally treat all stakeholders with fairness and verifiability.
- Procure from entrepreneurs who comply with the law that is not related or benefit from the use of labors or have the production process that is against the law and good morals.
- Take into account the quality, safety of purchased goods and services that may affect the health of the users, employees, communities, society and the environment.
- Do not use the information obtained from the procurement operation for personal benefit or benefit of others
- Negotiate and enter into contract with fairness and without taking advantages from contract party by taking into account the reputation and image of the Company.

10. Treatment to competitors

- Do not ruin the reputation of a competitor with the accusations in a bad way.
- Do not seek for information, trade secrets of competitors by dishonest means.
- Promote the fair competition and strictly adhere to the rules of competition.
- Do not make any agreements with a competitor or any person to reduce or limit the trade competition.
- Take into account equality and honesty in business operation and benefits with trading partners.
- Ethically conduct business.

Ethic of directors, executives and employees are summarized as follow:

1. Contain no conflict of interest

Directors, executives, and employees must not seek for personal benefit which is against the interests of the Company or conduct any action that causes the conflict of interest to the Company by complying with following guidelines:

- Directors, executives, and employees should abide by any behavior or action that may cause the conflict of interest to the Company. If it is necessary to do any action that may cause the conflict of interest, the utmost benefit of the Company should be mainly considered.
- Directors, executives and employees who participate in activities outside the organization or hold the position outside the Company, such as directors, executives, consultants, representatives or employees in other organizations, shall not cause any conflict of interest to the Company, either directly or indirectly, it must not affect the performance of their duties in the Company.
- Directors, executives and employees must not ask for assets or any benefit from trading partners and / or staff involved or use their powers to pursue personal benefit.
- Directors, executives, and employees must not commit or be involved in bribery or use their powers to pursue personal benefit.
- Directors, executives, and employees must avoid receiving gifts or any present from those who do business with us, which may lead to benefits or make other people understand that there are benefits together in the wrong way

2. Safeguard confidential information of the Company

The Company is considered that it is the responsibility of directors, executives, and employees of the Company to strictly maintain the confidential information of the Company and apply following guidelines:

- Directors, executives and employees are responsible and maintain the confidential information of shareholders, customers, trading partners, officers and employees without disclosing such information if the information owner does not permit unless such disclosure is in compliance with the laws, regulations, terms or conditions that the Company must follow Including non-access to confidential information of such person with dishonest or inappropriate means.
- Directors, executives and employees must not seek for personal benefits and benefits of related person without disclosure of confidential internal information to outsiders, both directly and indirectly.
- Directors, executives and employees must not buy, sell, transfer or receive the transfer of the Company's securities based on internal information tha is not disclosed by the Company.

3. Be responsible for the Company's assets

The Company encourages its executives and employees to be responsible for the efficient use of resources and assets of the Company in order to make it worthwhile and most beneficial with following guidelines:

- Directors, executives and employees must supervise, manage, control and take care any assets of the Company in the condition that is usable and must maintain and use resources and assets in a cost-effective manner.
- Directors, executives and employees must adhere to the principles of savings to control production costs including unnecessary waste.

4. Behave in line with morality and integrity

- Directors, executives, and employees must behave in a morally and ethically respectable way in which religion and society are respected.

5. Be responsible for stakeholders which are shareholders/customers/trading partners/ creditors/employees/ competitors/communities and societies

- **Shareholders:** The Company is committed to creating high quality and stable growth to provide shareholders with sustainable returns from efficient work and the good performance of the Company, equally respect the rights of shareholders to receive the information they need and disclose factual information, carry out business with honesty, transparency and fairness.
- **Customers:** The Company is committed to providing a customer-oriented service system to provide good service by appropriately treating all customers, providing accurate, up-to-date and accurate information about the service, and also providing a customer satisfaction survey to continuously improve the service.
- **Trading partner:** The Company is committed to working with trading partners with equality and mutual interest, developing and maintaining lasting relationships with partners, and creating trust to each other. The Company adheres to the procurement regulations which the procedures and practices are clearly defined.
- **Creditors:** The Company strictly adheres to the creditors' conditions, controls the repayment of the loan and interest to all types of debtors, fully meets the terms and conditions of the loan agreement in full.
- **Employees:** The Company is committed to fairly and appropriately take care and treat employees in terms of opportunities, returns, appointments, transfer, potentiality development as well as to control the working environment to be safe for employees' life and property. The Company opens to listen to feedback and suggestions from employees and treats employees at all levels with fairness and equality.
- **Competitors:** The Company is committed to operating in a fair competition framework, to not seek for confidential information from your competitors in dishonest or inappropriate manner and not conduct any action that violates the intellectual property of others or competitors.
- **Community and Society:** The Company is committed to maintaining a good society in compliance with applicable laws and / or regulations and to regularly cooperate with the government, to prevent the operation of the company which will cause the damage to the quality of life of the community, society and environment, to promote and support the society in developing the quality of life, promoting education, saving energy and protect environment for the prosperity of society.

Risk Management Policy

The Board of Directors has appointed Risk Management Committee to formulate risk management policy which is concluded as follows:

1. Employees of all levels are responsibility to be aware of risk containing in work operation within department or organization, and to place importance on lowering risks in appropriate and acceptable level.
2. To implement risk management procedures which is in line with international standards in order to effectively create manage risk which may impact business operation of the Company; to create development and performance which covers risk management through the whole organization by applying risk management system as supporting factor for decision making , strategic planning, targets, working plan and business operation direction of the Company, including to put emphasis on moving forward to achieve objectives, targets, visions, missions and imposed strategies to create excellent work performance as well as confidence among stakeholders.
3. To define measures on prevention and minimize risks from business operation in order to avoid potential damage or loss, as well as to regularly monitor and assess the risk management result.

In the meeting, Risk Management Committee has clearly determined risk management framework, classified risks, risks levels/opportunities, impacts and damages level. to use as guide line for evaluation of risk level and risk management.

3. The Company sets up department related to “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 2017, details of the Investors Relations activities are as follows:

Investors Relations Activities	Amount	Additional Information
1. Publishing News: Publishing news within the next business day from the date of reporting SET / SEC In the form of Press release, Photo release.	15 news	After the Company Secretary has officially disclosed the information to the SET and the SEC, the investor relation division will disclose the information through medias on the same day or prior to the trading on the next business day.
2. Presenting information: the number of times to present the information regarding the Company through various activities.		
2.1 Activity of Opportunity Day (the listed company meets with investors)	4 times About 120 audiences in total	1. Annual financial statement for 2016 2. Quarter financial statement for Q1 of 2017 3. Quarter financial statement for Q2 of 2017 4. Quarter financial statement for Q3 of 2017
2.2 Analyst Group Meeting (excluding One-on-One Meeting)	5 times	Number of participating companies: No. 1: 12 companies No. 2: 5 companies No. 3: 12 companies No. 4: 13 companies No. 5: 13 companies
2.3 Presentation of information to investors, analysts and shareholders (Road Show) in domestic and overseas	10 times	Divided into - Overseas 1 time - Domestic 9 time
3. Support the preparation and dissemination of company analysis journal to disseminate to investors and the general public for reference in reasonable investment decision in the securities of the Company.	9 investors	Divided into domestic 8 investors and overseas 1 investor
4. Allow Analysts, investors and financial institutions to visit the company at Solar power plants in Nakhon Sawan, Lampang and Phitsanulok provinces, and wind power plants in Songkhla and Nakhon Si Thammarat provinces	5 times	

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

Investor Relations Department
Energy Absolute Public Co., Ltd.
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.10199
Email: ir@energyabsolute.co.th

Section 5: Board Responsibilities

The Board of Directors play important roles in corporate governance as to generate highest benefit to the Company where their responsibilities are on work performance of the shareholders and independent from the Management.

1. Structure of the Board of Directors

- As of year end 2017 the Company has 11 directors who possessing diversified qualifications in respect of skill, experience, specific professional expertise which bring advantages to the Company such as director who has knowledge and experience related to engineering, accounting, finance, banking, law and management.
- The Board of Directors consists of a number of Independent Directors to provide their opinion on work performance of the Management independently in accordance with the number of them as stipulated by the Securities and Stock Exchange Commissions.
- According to the Company's articles of association, the term of office and number of year of each term of the directors are determined in accordance with the Public Company Limited Act. At each Annual General Meeting of Shareholders, one-third of the positions on the Board become vacant. If the portion cannot be divided into exact one-third, the number of directors resign shall be based on the closest amount to one-third. However, a director whose term of office is longest shall resign and may be re-elected for another term of office.
- The Company has set forth the qualifications of a person to undertake position of "Independent Director" to ensure the true independency of the directors, fit in with the specific business nature of the Company, and possess independency as stipulated by the Securities and Exchange Commission and the Stock Exchange of Thailand.
- Chairman of the Board and Chairman of the Executive Officer has different responsibilities. Their duties and responsibilities are classified and determined clearly. The Board of Directors is responsible for formulate control and management policy of the Management in respect of policy while the Management performs their managerial tasks in accordance with the policy stipulated. Therefore, the Chairman of the Board of Directors and the Chairman of Executive Officer is a different person. The Chairman of the Board of Directors is a non-executive director, chairperson or member of any sub-committee to ensure that the

duties of sub-committee will be carried out independently without interfering with the managerial part of the Company. In addition, the Chairman of the Board has no authority to sign his name to bind the Company to clearly separate duties between overall control over policy and the Management.

- Determination of the number of directors to hold directorship in listed companies: The Board of directors is well aware of good corporate governance in respect to number of listed companies where directors will hold directorship in to ensure the Company receive highest benefit as a result of the director dedication on their performance effectively. There is no director of the Company holds directorship in more than 4 listed companies.
- The Board of Directors appoints Nomination Committee to select directors and top executives through procedures, process, criteria, definition, regulations of the Company and related provisions.
- The Board of Directors appoints the Company Secretary who possessing legally knowledge and experience, undergoing Company Secretary Program from the Thai Institute of Directors.

2. Sub-Committees

In addition to Audit Committee which shall be composited in accordance with the regulations of the Stock Exchange of Thailand, the Board of Directors has formed another 5 subcommittees to ensure the good corporate governance as following:

1. The Executive Committee:

- As of 31 December 2017, the Executive Committee consists of 5 directors, the Executive Committee is minly responsible to consider and review direction of business operation, business plan and strategy for approval of the Board of Directors and 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, to report result to the Board of Directors for consideration and to review the code of conduct, handbooks for different departments to ensure compliance with the regulations stipulated by related government authority

2. The Remuneration Committee:

- As of 31 December 2017, the Remuneration Committee consists of 5 directors where 3 members are Independent Directors. The Chairman of Remuneration Committee is an Independent Director.
- The Remuneration Committee is responsible for considering criteria of payment and forms of remuneration for directors and top executives in order to propose to the Board of Directors. Remuneration of the top executives is approved by the Board of Directors while the remuneration of the Board of directors is approved by meeting of shareholders.

3. The Nomination Committee:

- As of 31 December 2017, the Nomination Committee consists of 3 Independent Directors.
- The Nomination Committee is responsible for considering Criteria and procedures of selecting a person who is qualified for directorship and top executive position; selecting candidates and propose to the Board of Directors which will bring the matter to the shareholders' meeting for appointment; formulate succession plan in order to propose to the Board of Directors.

- During 2017, the Company determined criteria and form to enable minor shareholders to propose a list of candidates for director position 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. Criteria for shareholders in proposing list of candidates for directorship.

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).
2. 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.
3. 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 Stock Depository (Thailand) Co., Ltd. (TSD).
4. 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) Having competent knowledge, good professional background, independent, performing duties with honesty, morality, ethics and regularly attend the Board of Directors' meeting.
 - (3) Having one or more specific knowledge in a particular field which will generate benefit to the Company which are business of production and distribution biodiesel oil/ business of production and distribution of electricity, including the good corporate governance.
 - (4) Neither holds directorship in more than 4 listed companies nor any position in the competitors' company
 - (5) A fully qualified shareholder shall fill in the form in the "Directors Candidate Proposal Form" and submit to the Company within the prescribed period of time. For the 2017 Annual General Meeting of Shareholders, the proposal was specified to submit between 7 October 2016 – 15 January 2017 (for the 2018 Annual General Meeting of Shareholders, the Company scheduled to accept the proposal for consideration from 28 September - 31 December 2017).

4. The Corporate Governance Committee:

- As of 31 December 2017, the Corporate Governance Committee consists of 4 Directors which 3 of them are Independent Directors, the Chairman of Corporate Governance Committee is Independent Director.
- Responsibilities of the Corporate Governance Committee are to formulate and review policy, regulations and method of operation to be in compliance with good corporate governance; determine policy and plan related to social responsibility activities including necessary suggestions and support; perform internal assessment based on corporate governance principles to address the matters that require improvement.

5. The Risk Management Committee:

- As of 31 December 2017, the Risk Management Committee consists of 3 Independent Directors and 3 Executive Directors and the Chairman of the Risk Management Committee is an Independent Director.
- The responsibilities of the Risk Management Committee are to formulate risk management policy maintain risk at acceptable level; monitor the policy implementation, review the report of risk management; perform its duties to ensure the appropriateness and sufficiency of the risk management; ensure the risk management remain in the acceptable level, and that the risk management has been performed on regular basis; report their work performance directly to the Board of Directors.

3. Meeting of the Board of Directors

- Meeting schedule and agenda of the Board of Directors and Committee held during the years are determined and sent notification to each director in advance to allow time management and attendance.
- The Board of Directors' meeting is held regularly to acknowledge and making decision in regard to the business operation of the Company. The meeting agenda is determined in advance clearly, and extra meeting might be held in order to consider the urgent matter. During year 2017, there were 8 meetings of the Board of Directors which consists of 4 quarterly meeting and other 4 extra ordinary meetings.
- During each meeting the Board of Directors spent and allocated time sufficient for the Management and related parties to propose information and discuss the important matters carefully. In each meeting of the Board of Directors, the Chairman of the Board would ask all directors to analyze carefully before speak out, while encouraging them to express their opinion freely. The resolution is based on majority votes where each director has one vote. In case of equal votes from both sides, the Chairperson would express his vote as a final decision. During each meeting, the Company sent supporting document related to meeting agenda to the Board of Directors in advance to provide opportunity to study information in relation to the meeting. The Chairman of the Board of Directors who chairing the meeting provided opportunity to the Board of Directors to consider submitting matter into the meeting agenda. Then the Chairman of the Executive Office/Vice-Chairman of the Executive Office proposed the matter to the Chairman of the Board of Directors for approval as the meeting agenda.

The Board of Directors provided opportunity and top executives to attend the meeting in order to provide additional information as a person involving directly to the information and to have opportunity to meet top executives for reference of creating succession plan.

- It is determined by the Board of Directors that the Audit Committee which all members are Dependent Directors that the Audit Committee shall hold the meeting at least once a year in order to discuss problems and issues related to the managerial frame which the committee concentrates on. The meeting shall be without attendance of the Management and minutes of the meeting shall be reported to the Chief Executive Officer for acknowledgement.

4. Self-Evaluation of the Board of Directors and Sub-committees

- The Board of Director and Sub-committees consist of 1.) Audit Committee; 2.) Nomination Committee; 3.) Remuneration Committee; 4.) Risk Management Committee; 5.) Corporate Governance Committee; have their self assessment every year to apply the result of assessment to jointly consider and improve as well as develop their own duties to be more effective and efficient.
- The evaluation is conducted by the Board of Directors and Sub-committees related to the good corporate governance in accordance with the self-evaluation form issued by the Stock Exchange of Thailand. The evaluation is conducted by individual director and all board at least once a year in order to jointly consider their work performance and problems occurred to seek for further solution and improvement.

For 2017, the result of self-assessment of the Board of Directors and Sub-committees are as follows:

	Board's Self-Assessment (%)	Director(individual) 's Self-Assessment (%)
Board of Directors	100.00	99.72
Audit Committee	99.46	100
Nomination Committee	96.49	97.92
Remuneration Committee	96.88	96.72
Risk Management Committee	98.61	99.43
Corporate Governance Committee	98.26	98.86

- The evaluation is conducted by directors express their own opinion on work performance of the Board of Directors as a whole. The evaluation criterion is based on the example of evaluation issued by the Corporate Governance Center, the Stock Exchange of Thailand.

5. Remuneration

- With the accountability and responsibility, in addition to the remuneration of the Board of Directors, the Company also takes into account additional responsibility from additional sub-committees. The Board of Directors has proposed to the shareholders' meeting for approval on the remuneration of the sub-committees.
- The determination of remuneration of the Chairman of the Executive Officer contain procedures which require consideration from the Remuneration Committee in order to propose to the Board of Director for approval.

6. Development of the directors and executives

- The Company recognizes the importance of developing directors and executives to be continuously knowledgeable and experienced in serving as directors and sub-committee members. In 2017, directors and executives had been trained in following courses:

Director Name	Detail of training
ACM. Chainan Thumasujarit	- Training Course: AC HOT UPDATE to keep up with CG, New Era moving to Sustainability, organized by Federation of Accounting Professions under The Royal Patronage of His Majesty the King
M.R. Bravochat Chatchai	- Training Course: AC HOT UPDATE to keep up with CG, New Era moving to Sustainability, organized by Federation of Accounting Professions under The Royal Patronage of His Majesty the King
Mr. Chaiwat Pongpisitsakul	- Training Course: AC HOT UPDATE to keep up with CG, New Era moving to Sustainability, organized by Federation of Accounting Professions under The Royal Patronage of His Majesty the King - Training Course: Board Nomination & Compensation Program, Class 1/2560, organized by the Thai Institute of Directors (IOD)
Mr. Somphote Ahunai	- Training Course: The Investment of ULTRA WEALTH-INVEST LIKE A MASTER, Class 1, organized by the Economics Association of Thailand, Chulalongkorn University - Training Course: Top Executives on Energy Science, Class 9, organized by Thailand Energy Academy.
Mr. Amorn Saphaweekul	- Training Course: Top Executives on Industrial Business Development and Investment, Class 3, organized by Institute of Business and Industrial Development (IBID)

Compliance with the Principles of Good Corporate Governance

According to the survey conducted by the Corporate Governance Report of Thai Listed Companies 2017, the Stock Exchange of Thailand and the Thai Institute of Directors (IOD) made the overall assessment. The Company obtained the score at “very good” and its average score was higher than the average score of overall listed companies and SET100 Index

In 2017, the Company has reviewed the compliance of corporate governance and also implemented the following measures in line with the Corporate Governance Report of Thai Listed Companies and ASEAN Corporate Scorecard. Followings are the part that the Company is under process:

CGR Principles under process	Reasons
1. The company should set the policy of holding the position of independent director for no more than 9 years.	<p>Since the nature of the Company's business is a specialized business, therefore, the Company's directors who have a lot of experience and expertise as well as vision in this field of business. They are very important resources to push and drive the company's growth and become a leader in the industry.</p> <p>The Company is aware of knowledge, expertise and experience of independent directors and they show their independence without the conflict of interest or gain and loss to the Company. As a result, the Company has expanded its policy of holding an independent director position for no more than 9 years.</p>
2. The Company should provide external consultants with guidance and advice on performance evaluation of the Board at least every 3 years and disclose such activities in the Annual Report.	<p>The Board of Directors and all sub-committee member made their self-assessment for both individual and group and also made of evaluation on the performance of Chief Executive Officer every year.</p> <p>At present, the Company has directors who are knowledgeable about the business of the Company and capable to set the policy and strategy to efficiently drive the Company's business.</p> <p>However, the Board of Directors requires the Nomination Committee to have authority and can consider to hire external consultants when considering that they are necessary for the Company.</p>
3. All directors should attend not less than 75% of the total number of Board meetings held during the year.	<p>In 2017, since some directors are not available due to urgent business then they cannot attend every meeting, however, the Company has consulted and discussed with the Board of Directors both at the meeting and outside the meeting.</p> <p>Therefore, in order that directors can attend all meeting, the Company prepares the annual meeting schedule in advance to be in line with the mission of the board as most as possible.</p>
4. The Board of Directors to vote at the meeting should have directors not less than two-third of the total number of directors.	<p>According to the resolution of the shareholders' meeting which prescribed in Clause 25 of the Company's Articles of Association that at least half of directors must present at the meeting, then can set a quorum. In the meeting of the Board of Directors, the resolution requires the majority of votes, therefore, the Company must comply with such regulations.</p> <p>However, more than two-third of the total number of directors attended all meetings of the Board of Directors throughout the whole year of 2017.</p>

Corporate Social Responsibility (CSR)

The Company recognizes the importance of being involved in the caring of society and the environment for good quality and organized many activities to promote and encourage sustainable social and environmental development. The Company's social and environmental policies are as follows:

- Operate its business with the concern of the impact on society and the environment.
- Aim to take action to reduce and prevent pollution.
- Strictly comply with applicable laws, regulations and procedures.
- Continuously Develop and improve the performance standards to be in line with environmental requirements.

Treatment to stakeholders

Stakeholders	Requirement/expectation	Business operation of the Company
Shareholders	<ul style="list-style-type: none"> • Receive stable return both short-term and long-term; • Receive sufficient information supporting making decision; • Ability to exercise rights as stipulated by law; • Being equally facilitated among other shareholders. 	<ul style="list-style-type: none"> • Conduct business with spirit, well organized and planned by taking into account the return and risks, conduct business of alternative energy which covering production and distribution of biodiesel oil including solar power plant and wind power plant operations. The Company also expands its business to develop and produce batteries and charging stations. • Disseminate information completely, sufficiently, timely with transparency through different channels such as publishing hard copies, Company's website, as well as publicize of Company news through public press occasionally. • Comply with applicable laws, especially concerning exercise of rights of shareholders • Facilitate shareholders equally and properly to enable convenience during the meeting and provide visiting trip to the Company. In 2017, the Company added one more channel to enable shareholders to watch live meeting of the Annual General Meeting of Shareholders via the mobile application of the Company (please see the application manual at http://www.energyabsolute.co.th/agm_manual.php in order that shareholders shall be able to vote through proxy with more effectiveness.

Stakeholders	Requirement/expectation	Business operation of the Company
Customers	<ul style="list-style-type: none"> Product quality is in accordance with standards, at reasonable price and excellent service; The production process is available for examination to assure the confidence; Open for suggestions, opinions in order to be a guideline for improvement on product and service quality; Determine terms of trading with fairness and justice and supports long term business relationship 	<ul style="list-style-type: none"> The Company implements strict quality control procedures on products and services as well focusing on constant improvement In regard to business of power generation, the Company processing its operations in order to control quality and safety of the production and distribution system; concentrated on maintenance of equipment and tools to ensure its good condition Sales and Marketing Department closely conducts survey on customers' satisfactory as well as managing sales plan and delivery schedule to customers. Research and development on production process are continuously conducted. Determine terms of trading with fairness and flexibility as considered necessary to allow mutual benefit among parties.
Trading partners	<ul style="list-style-type: none"> Determine trading terms clearly, fairly and appropriately; The procurement procedure is fair, transparent, without conflict of interest or transfer of interest; No violation on intellectual property or disclosure of the trade secrets which may cause damages to trading partners. 	<ul style="list-style-type: none"> Adhere to fair treatment to trading partners; determine procurement terms clearly with all trading partners. Open an auction in case of procurement of equipment and tools or investment where the value is high, in order to receive terms and conditions that meet requirement of the Company, when is acceptable by the trading partners. Comply with agreement pertaining to contract and business ethics strictly. Implement internal control system and ethic of business conduct to prevent any person from disclosing or using information of the Company for other benefit than business operation of the Company.
Creditors	<ul style="list-style-type: none"> Strictly comply with the conditions and terms stated in the contract; Implement reporting, controlling, managing system and risk management which is appropriate and in line with acceptable standards 	<ul style="list-style-type: none"> The Company sets up Investment Plan Department and Finance Department to coordinate with creditors from financial institution and other accounts payable in order to support business operation of the Company to be consistent with working plan and terms and conditions stated in the related contracts. The Company has the Risk Management Committee whose duties are to supervise, control, and monitor to ensure the appropriate measures of risks of the Company. Provide meeting with creditors and related teams on regular basis to follow the progress and coordinate joint plans, discuss closely maintaining good relationship.

Stakeholders	Requirement/expectation	Business operation of the Company
Surrounding communities	<ul style="list-style-type: none"> • Business conduction of the Company shall not cause negative impacts to communities and environment. • Immediately take action on any problems occurred with speedy manner. • Liaise for good relationship and support activities of the communities. • Provide opportunities for community members to become a part of team work of the Company in order to support their income. • Enhance the development of community in according with sustainable development and environment friendly. 	<ul style="list-style-type: none"> • To listen to community feedback as required by the authorities before investing to build a power plant. Moreover, the community has been continuously monitored of its opinions, suggestions, and needs by assigning a team of community relations at each plant to directly follow up and coordinate and listen to the opinions. • Assign a team to monitor and care for the environment and plant safety to continuously maintain the environment and safety. • Provide knowledge and training to staff, communities, students and the general public in order to properly understand the business operation of the Company. • Allocate the budget to assist and support community activities in terms of education, local traditions, health and environment. • Build the water storage inside the solar power plant project and share to surrounding communities to use as a reservoir for water in times of need. • Support the hiring of full time employees and temporary staff from people in communities, based on their potential, abilities and aptitude to create the employment and development of knowledge and capability during the period of power plant construction which the Company hired thousands of employees. After the construction completion and distribution of electricity, the Company hired more people to take care the power plant, maintain the plant' properties and others. As a result, the Company hired a large number of people residing surrounding the plant for the operation of power plant. • Implement the Integrated Organic Agriculture Project by starting at the solar power plant, Nakhon Sawan Province as the first place, then expanding to the solar power plants in Lampang and Phitsanulok provinces to experiment the sustainable and environmentally friendly farming practices and opening the opportunity for the community, students from schools surrounding the power plants and those interested in learning in the demonstration area. The project includes growing Ubon rice, corn, sugar cane, vegetable and trees, soil quality improvement, animal husbandry and fishery, etc. as well as training and education for schools around the power plant in Nakhon Sawan. Later, it was expanded to develop the processed products, develop marketing and make direct link to consumers.

Stakeholders	Requirement/expectation	Business operation of the Company
Employees	<ul style="list-style-type: none"> • Receive fair and appropriate compensation and welfare paid in form of money and other forms of incentives which attract the employees; • Provide opportunity to grow, advance and develop their knowledge and skill equally and regularly; • Provide good working environment, hygiene and safety. 	<ul style="list-style-type: none"> • Treat employees with fairness, determine compensation rate and work performance assessment which can be linked to assessment result. • Provide sufficient welfare not lower than stipulated by law. • Consider human rights, hygiene and safety at work. • Provide skill training courses for employees in both internal and external courses in order to increase knowledge and skills of employees as well as to relocate the potential employees to work in the area that fit in with their skills which will enhance their opportunities. • Provide channel for complaint in case of receiving unfair treatment where investigation procedure is undertaken prior to further actions.
Competitors	<ul style="list-style-type: none"> • Conduct business with morality, transparency; compete with fairness and in accordance with related law. 	<ul style="list-style-type: none"> • The Company determines ethic of business conduct in respect to treatment of the competitors with good morality and in accordance with related laws.
Control unit and public sector	<ul style="list-style-type: none"> • Comply with related regulations, refrain from violation, negligence, incompliance with the critters and provisions which may cause severe damages 	<ul style="list-style-type: none"> • Assign person to be responsible for monitoring compliance of all related parties to be in accordance with related agencies. • The Company has Internal Audit Unit by hiring Dharmanithi Co., Ltd., an independent external company providing internal audit, to control compliance with regulations on regular basis.

The business operation of the Company and subsidiaries is adhered to the policy which requires attention and concentration to stakeholders which are shareholders, customers, trading partners, creditors, surrounding communities, employees, competitors, Control Unit and public sectors. The said persons are important to our business operation in a way that they can generate positive as well as negative impact to our operations.

The company operates its business by creating business value to be consistent with the vision, mission of the Company which focus on developing environmentally friendly alternative energy and create the sustainability of the Company and its subsidiaries, it also focuses on product development, laying foundation of employees, promoting the community development.

• Biodiesel oil production plant, the beginning of CSR in Process

The Company steps to energy business through development of its own technology as to produce biodiesel oil extracted from crude palm oil, a natural raw material. The product is distributed to customers from the country's large oil refinery plants, or to mixed with diesel oil to reduce demand of imported oil, while increase consumption of environment-friendly energy. This is how we start our first move to business with consideration placed on environment as a priority.

The Company has focused on the biodiesel production process that is environmentally friendly. In 2017, the Company has been certified by the following standards:

- The Company still maintains the standard of Roundtable on Sustainable Palm Oil: RSP, ISO 9001: 2008 (Quality Management Systems) and Kosher from the Certification Body throughout 2017. In 2017, the Company has been also certified by Environmental Management System) ISO 14001: 2015 and Occupational Health and Safety Management System) OHSAS 18001 : 2007 from URS Thailand (United Registrar of Systems (Thailand) Ltd.) in the first quarter of 2017 as Certificate Number : 79935/A/0001/UK/EN (ISO 14001 : 2015) and Certificate Number : 75535/B/0001/UK/EN (OHSAS 18001 : 2007) which is the Certification Body of international standards. The Company aims to develop and improve the management on environment, occupational health and safety to be in compliance with rules and regulations, to have good working environment and provide working safety to employees, additionally, this also demonstrates the Company's commitment to be responsible in society and internal and external environment to create the good image of corporate; and
- the Company has been certified of Green Industry (Level 3): Green System (GL3) from the Ministry of Industry to ensure that the Company has the systematic environmental management. The Ministry of Industry has promoted the industrial sector to operate its business with environmental friendliness, social responsibility to happily live with society and community along with the sustainable development by focusing on 3 topics such as:
 1. Development and improvement of the production process efficiency.
 2. Environmental management for continuous improvement and
 3. Social and environmental responsibility both inside and outside the organization. (throughout the supply chain)

It will be monitored, evaluated and reviewed for continuous improvement in accordance with Certificate No. 3-6471 / 2561 (for the Factory Registration No. Khor3-47 (2) -2/52 PorJor.) and 3-6472/2561 (for the Factory Registration No. Khor3-7(1)-1/44 PorJor.).
- The Company joined to “Environment Corporate Governance of Industrial Companies” with the Ministry of Industry with aim to apply the Environment Corporate Governance principles to its business operation to be in compliance and to focus on prevention and reservation of the environment with communities and local societies.
- The Company places its emphasis on safety of employees during work operation and complies with the laws related to safety strictly. The Company provides training courses related to safety on regular basis and report work result directly to the Executive Committee. The Company launched different training courses and provided safety equipment, tools for employees working in Prachinburi factory. In 2017, the Company organized the training course related working safety as follows:
 - Training Course “Safety, Occupational Health and Working Environment for Employees and New Employees, Employees who move to new workplace or Change of machinery or equipment with different risk factors and for employees in the supervisor level”.
 - Training Course “Safety Officer in the Management Level (Safety Officer Management), in the Supervisor Level (Safety Officer Supervisor)”.

- Training Course “Working Safety Committee”.
 - Training Course “Crane Operator, Signal Man, Rigger and Crane Supervisor for many Types of Cranes”.
 - Training Course “How to Use and Maintain Personal Protective Equipment (PPE) for Employees”.
 - The Drill to control and alleviate the emergency regarding hazardous chemicals, boilers and the fire drill including the annual fire escape
- The Management is determined to submit report of work performance to the Board of Directors. Furthermore, the Audit Committee and Internal Audit have formulated the audit schedule of factories and projects of the Company Group, in the annual audit schedule. The objectives of the audit, visit factories and projects is to ensure that work operations of the Company are performed in accordance with standards, regulations, rules and vision and mission of the Company.

- **Power Plant of Renewable Energy; CSR at Full Form**

Since year 2012 onwards, the Company has paced into a developer of renewable energy starting from 4 solar power plants, capacity as stated in the contract totaling of 278 MW, following with 8 wind power projects, the capacity stated in the contract totaling of 386 MW, all which are operated by subsidiaries. The Company and its subsidiaries continue to adhere to business operation that places importance on environment social and community at its fullest effort. The summary of activities are as follows:

- **To promote the knowledge** in respect of renewable energy as group of the Company distribute the clean energy, therefore, this knowledge is passing through students, community leaders and public sectors. They are invited to visit and learn the production process of solar power plants in Nakorn Sawan and Lampang in order to understand and see more practical picture of the process of generating electricity from solar power.

The Company has developed spare plot of land within the project area by taking the idea of organic farming system to create organic farm and open into a learning center for students surrounding the area. The organic product is distributed to students for lunch and some are sales to community. The profit is return to organic farm inside the solar plant. According to the policy of utilizing material to create maximum benefit to projects of the Company Group and surrounding communities, the Company has developed spare plot of land within the project area by taking the idea of His Majesty the King on mixed farming system and to store, and manage water reserving for farm inside the solar power plant at Phisanulok. This would help farmers who do not have land and to utilize for the benefit of stakeholders.

- **Create the occupation to community:** The Company well aware that solar and wind power plants need large area, while there are a number of existing local people settling down nearby the area of solar power plant. For this reason, planning for construction and development is conducted by concentrating on benefit to the local labor, create employment directly and indirectly (through contractors) by employing local people and after commenced the operations, the solar power plant of the Company also continues occupy local people. The Company also support community to design packaging and processed agricultural products in order to increase value of product.

To create the opportunity to community by complying the ideal of Social Enterprise. The Company aim to develop community surrounding the plant in order to increase their income and to improve the community for sustainable self-reliance basing on the development which is benefit for all stakeholders and be friendly to environment and core value of operating business of the Company. During 2017, the social enterprise projects are as follows:

- **Sustainable Organic Agriculture: The Integrated Organic Farming Experimental Project:** It is an agricultural system that is cultivating many types of crops or raising many species of animals in the same area under mutual benefit to each other in the most efficient way. Based on the principle of combining plants, animals and the environment with the reduction of chemical use in order to restore the soil condition to be a complete and sustainable ecosystem. This will help to increase productivity and reduce crop costs by carrying out an experimental project to grow rice, sugarcane, corn, fruits, and rare items of herbs which are all organic and non-toxic. within the experimental areas in all three solar power plants located in 3 provinces which are Nakhon Sawan, Lampang and Phitsanulok. This project promotes the creation of organic farming standards by starting with the pilot sites in two plants located in Nakhon Sawan and Phitsanulok provinces, the experimental farm in Nakhon Sawan plant has received the standard of organic production from the Department of Agriculture (Organic Thailand) while the experimental farm in Phitsanulok Province has been certified of the organic farming standard from the Northern Organic Standard Organization with the intention that the pilot organic farms will motivate communities around the power plant to turn to do organic farming which is good for farmers, consumers and environment. Additionally, it also builds thw confidence for farmers and consumers that the products certified by the Organic Standard Organization are free from chemicals, safe for consume and actually care for environment.
- **Creation of sustainable alternative career for farmers / communities surrounding the area of power plants:** It will focus on increasing the revenue, maximizing results and sustainably developing by analyzing, selecting suitable plants growing in that area, summarizing knowledge, planting process, how to take care and protect to achieve targeted quality yield and to make an easy-understanding manual for organic farming provided to farmers who are interested in. They can really practice with understanding and knowing cautious, protective and special careful points to reduce the damage to products. Additionally, it also promote and develop agriculture by using modern agricultural technology innovations combining with traditional agriculture to increase productivity, increase the amount of products, increase product quality. Farm environment which is linked to each other including the management of agricultural products after harvest for maintaining the quality as long as possible and to prevent damage from seasonal variations as well as reduce the amount of investment. This project is still in the criteria to expand the impact and actual practice, the experiment was conducted on the areas inside two solar power plants located at Nakhon Sawan and Phitsanulok, which experimented to create a good farming system with effectiveness under the farming under solar panels at Phitsanulok plant in accordance with the appropriateness of each area. Besides, there is a data management which links all data to the center and farming areas by taking into account quality, criteria and good approach in food production (GMP) and promotes the

production code of conduct to sell safe products to consumers. It also helps to plan and test the transportation management of the enterprise to the market starting from the transport of organic vegetables without chemicals from Nakhon Sawan Province and Phitsanulok as well as directly linking the marketing to consumers and selling to the factory and major entrepreneurs.

- **Soil Improvement with the cost reduction by adding no-added materials:** Focusing on cost reduction and adding value from things nearby, such as the Organic Grass and Microbial Composting Project at Lampang, Organic Compost from Water Hyacinth and goats were used in agricultural plots in Nakhon Sawan Province and distributed training to the communities around the power plants at Lopburi
- **Linkages and integrated enterprise management:** The project focused on business planning for community enterprises by applying demand-supply and supply-side economics to link the market to crop planning for farmers and prevent the price risk from exceeding production of any product, marketing and sales arrangements that directly link farmers to consumers, the market planning and preparation including the demands of consumers about organic products with free of chemicals to support the productivity of farmers at present and in the future. Additionally, the PR media is also made to promote the project's market to be more well-known, the organic market project is also implemented in local area by collecting namelist of member, supports, customers in local area and Bangkok to support the productivity in market expansion phase. The exhibitions are also planned to make PR via booths such as Organic & Natural Expo 2017 in Thailand at Queen Sirikit National Convention Center, organized by the Department of Trade, Ministry of Commerce, and using online media for promote the importance of farm development and quality products to increase the confidence of consumers and increase new customer base as well as to expand its result to make people in communities having sustainable career in the long-term.
- **Product development / processing:** To increase the productivity of the community including value added to products and shelf life, to increase income and profit for farmers, model enterprise from organic farming products without chemicals, for example, canned sugar cane juice mixed with pandan juice, garden vegetables for cooking from the project area of Nakhon Sawan plant and aromatic rice, berry rice, Pathum jasmine rice packed in vacuum bag as well as mixed salad vegetables from the project area of Phitsanulok plant, later develop its result by food processing procedure with food technology to make the product innovative and creative with diversity, added value and extend shelf life.

- Based on the success of the development of the power plant project along with community development, the environment and the opportunity for the community to participate, the company's power plant projects have been expanded along with the prosperity and development of the living of communities and local people. Such model will be applied to all power plants of the Company for sustainable growth.
- **Promoting the reduction of greenhouse gas:** The Company has been approved of the registration of the Thailand Voluntary Emission Reduction (T-VER) Program with the Thailand Greenhouse Gas Management Organization or TGO. The project was developed to promote and support all sectors to voluntarily engage in greenhouse gas reduction in Thailand and it can reduce the amount of greenhouse gas emissions which is called Carbon Credit which under this T-VER, it is called "TVERs" to sell in the domestic voluntary carbon market. TGO also defined rules and procedures for the development of the project, method of reducing greenhouse gases (Methodology), registration and certification of greenhouse gas, it must be a project that contributes to reducing / absorbing greenhouse gases in Thailand in order to reduce the amount of greenhouse gas emissions that cause global warming, increase greenhouse gas storage, have more revenue from the sale and purchase, the Company has applied for the above-mentioned projects through its subsidiaries for following projects:

1. Project Name: Solar Farm at Nakhonsawan, Thailand of its subsidiaries – EA Solar Nakhonsawan Co., Ltd., the TGO Sub-committee approved this project to certify the reduction of greenhouse gas for December 2015 to November 2016 at 106,148 tCO₂e.
2. Project Name: Solar Farm at Lampang, Thailand of its subsidiaries – EA Solar Lampang Co., Ltd., the TGO Sub-committee approved this project to certify the reduction of greenhouse gas for December 2015 to November 2016 at 111,104 tCO₂e
3. Project Name: Solar Farm at Phitsanulok, Thailand of its subsidiaries – EA Solar Phitsanulok Co., Ltd., the TGO Sub-committee approved this project to certify the reduction of greenhouse gas for April 2016 to September 2016 at 63,178 tCO₂e

In 2017, the Company continues to collect the amount of greenhouse gas emissions of all three projects, the TGO sub-committee approved to certify the Company's greenhouse gas reduction. The Company has also expanded its business to electric charging stations for electric vehicles under the trademark of "EA Anywhere", the purpose is to apply clean energy to the automotive industry and reduce carbon dioxide emissions as well as promote the use of energy which is eco-friendly.

Anti-corruption Policy

The Company and subsidiaries aim to conduct the business based on ethic and social responsibility to all stakeholders according to the principle of good corporate governance and code of conduct of the Company including all policies and good practice to stakeholders of the Company. The Company has a policy to determine the appropriate responsibilities, practices and operational requirements to prevent corruption with all business activities of the Company and to make decisions and conduct business that may be at risk of corruption, the Company has carefully considered and treated to the corruption, then has developed an “**Anti-Corruption Policy**”.¹ in written form as the clear guideline for conducting business which will lead to the development of sustainable organization.

- **Definition of anti-corruption policy**

Corruption means bribery of any kind by offering, promising to give or committing to request or receive money, property or any other benefits which are not suitable for officials of government agencies, employees of private agencies or any person with duty, whether it be directly or indirectly, to enable such person to act or to refrain from performing his duties as a result of acquisition or maintain any other benefits which in not suitable for the business manner, unless it is the case that the law, regulations, local regulations, customs or trade customs permit to do.

- **Anti-corruption policy**

Directors, executive and employees of the Company are not permitted to perform or accept corruption in any form, either directly or indirectly. It covers every business and every department involved and the compliance with the anti-Corruption policy will be consistently reviewed, as well as the guidelines and requirements for compliance with changes in business, regulations, and legal requirements will be also reviewed.

- **Duties and Responsibilities**

- 1. Board of Directors:**

Their duties and responsibilities are to set the policy and making oversight by having an effective system that supports anti-corruption to ensure that the management realizes and values the anticorruption which will be cultivated as corporate culture.

- 2. Audit Committee:**

Their duties and responsibilities are to review financial reporting and accounting systems, internal control system, internal audit system and risk management system in order to ensure the compliance with international standards with conciseness, appropriateness, update and effectiveness.

- 3. Executive Committee and Management:**

They have duties and responsibilities in setting a system and promoting and supporting the Anti-corruption policy by communicating to employees and all concerned parties, reviewing the suitability of system and measures to be consistent with the change of business, regulations, and legal requirements.

¹ Approved by the meeting of the Board of Directors No. 1/2557 on 28 February 2014

4. Internal auditors:

They have duties and responsibilities to examine and review the operations to ensure the compliance with the policy, practice, operational authority, regulations and laws, regulatory requirements to ensure that there is appropriate and adequate control of potential corruption risks and to report to the Audit Committee.

- **Practical guidelines**

1. Directors, executives and employees of all levels must abide by the anti-corruption policy and the Company's Code of Conduct by not involving in corruption, neither directly nor indirectly.
2. The Company's employees will not neglect or ignore upon seeing the corruption actions involving the Company and must notify the supervisor or the person in charge including the cooperation in the investigation of facts. If there is any questions or inquiries, employees can consult with their supervisor or the person responsible for monitoring the compliance with the Company's Code of Ethics via various channels defined.
3. The Company will provide fairness and protection for employees who refuse or report corruption related to the company by protecting the complainant or those who cooperate to report the corruption in accordance with the Whistleblower Policy² defined by the Company.
4. Any employee conducting corruption is an offense against the Company's Code of Conduct and must be disciplined according to the rules set out and may be punished by law if the action is a legal offense.
5. The Company recognizes the importance of disseminating knowledge and understanding to others to perform duties related to the company or maybe the impact on the company to deal with this anti-corruption policy.
6. The company is committed to creating and maintaining corporate culture which adheres and denies the corruption for the transactions with both government and private sectors.

- **Action Requirements**

1. This Anti-Corruption Policy covers the process of Human Resource management from nomination or recruitment, promoting, training, employee performance appraisal and compensation. All level of supervisors must communicate with employees for their responsible business activities and effectively supervise the operations.
2. Any action in accordance with the anti-corruption policy must use the guidelines set out in the Code of Conduct Manual, Corporate Governance Handbook, policies and guidelines to various stakeholders including related regulations and working manual and other practices that the Company will set up later.
3. In order to clarity in dealing with the high risk of corruption, directors, executives, and employees in all levels must be careful with followings:
 - Gift, reception and expense to give - receive or receiving of gifts must be practiced in accordance with the Code of Conduct.
 - Donations for charity or sponsorship, giving or receiving of donations or sponsorship must be transparent and legal with the confidence that such donations or sponsorships are not used as an excuse for bribery.

² Approved by the meeting of the Board of Directors No. 6/2557 on 14 November 2014

- For the business relationship and procurement with government sector, do not give or accept bribes to conduct any type of business, company operation, the contact with public sector must be transparent, honest, and compliant with applicable laws.

Operation against corruption (Anti-corruption Policy)

To promote anti-corruption operations, the Company has established a whistle-blowing policy and other related requirements to be a guideline for consideration and practice as follows:

- The Board of Directors has approved a whistle-blowing policy to file a complaint both inside and outside the organization. The details are as follows

Complaints Policy

To promote internal stakeholders and outside the organization to engage in the corporate governance process, the Company sets policies in case of any group of stakeholders who are suspected of or suspected of violating or not complying with the laws, regulations, or business ethics to report the clues or complaint. The details of the evidence can be sent to the Chairman of the Audit Committee.

Conditions and Consideration of Complaints:

1. Details of complaint Must be truthful, clear, and informative enough to investigate the facts in order to proceed.
2. The complainant can choose to not disclose his / her self to protect the complainant.
3. Information received by the Chairman of the Audit Committee is confidential and will be disclosed as necessary by taking into account the safety of the complainant.
4. After the complaint was screened and investigated, the Board of Directors will be reported of its result for further consideration and setting appropriate measures.
5. The complainant will be protected whether he/she be the Company's employee and outsider.

Procedure³

1. Notify the complainant who has disclosed the name, contact address about the progress / results of consideration upon the complaint
 2. The Company reserves its right to not disclose the details of the investigation or disciplinary action affecting personal information and confidentiality
- The Company has supported the complaints channels, from which the complainant can send a letter to the Chairman of the Board, the complaints can also directly submit to the Company's website, via email to the Chairman of the Audit Committee. In 2017, the Company has not received any complaint related the corruption.

³ Approved in the meeting of the Board of Directors No.1/2560 23 February 2017

Internal Control and Risk Management

The Board of Directors has appointed the Audit Committee that consists of three independent directors and are not employee of the Company. The Audit Committee is responsible for reviewing the reliability of financial reports. The effectiveness of the internal control system, compliance with relevant laws and regulations include transactions that may cause conflict of interest of the shareholders, directors and executives.

The Board of Directors, the Audit Committee and the management has paid attention to the internal control by assessing the effectiveness and adequacy of internal controls in accordance with COSO International Standards (The Committee of Sponsoring Organization of the Trade way Commission), the Good Corporate Governance in accordance with the guidelines of the Stock Exchange of Thailand and ongoing risk management to the Company Good Corporate Governance has sufficient internal controls, suitable for business operations. There is an acceptable level of risk management having a reliable and accurate accounting and financial reporting system as well as legal compliance, rules and regulations related to the business of the Company.

The Audit Committee has adequately assessed the internal control system by Dharmniti Co., Ltd. in accordance with the evaluation form of the Office of the Securities and Exchange Commission (SEC) sets and reports to the Board of Directors at least once a year. Followings are the evaluation topics:

Control Environment

1. The organization demonstrates its commitment to the values of integrity and ethics.
2. The Board of Directors is independent from the management and perform oversight duty and develop the implementation of internal control.
3. The Management has set up chain of command, determining the power of command and responsibility for the organization to achieve its objectives under the supervision (oversight) of the Board.
4. The organization shows commitment to motivate, develop and maintain knowledgeable and capable personnel.
5. The organization requires personnel to have duties and responsibilities for internal control to achieve the objectives of the organization.

Risk Assessment

6. The organization clearly defined objectives to capably identify and assess the risks associated with achieving corporate objectives.
7. The organization identifies and analyzes all types of risks that may affect the fulfillment of objectives throughout the organization.
8. The organization identifies risks of corruption occurrence for evaluate the risk to achieve the purposes of organization.
9. The organization identifies and evaluates variations which may affect the internal control system.

Control Activities

10. The organization has control measures that reduce the risk of not achieving corporate objectives to be at the acceptable level.
11. The organization selects and develops general control activities with technology systems to assist in achieving the objectives.
12. The organization provides control activities through policy which defines what to be expected and how it works to practice the planned policy.

Information & Communication

13. The organization provides relevant and quality information to encourage internal control to be implemented as prescribed.
14. The organization communicates the information inside the organization including the objectives and responsibilities for internal control that are necessary to support internal control to proceed as planned
15. The organization communicates with external organization about issues that may affect internal control.

Monitoring Activities

16. The organization monitors and evaluates the internal control to ensure that internal controls are completely and appropriately in place.
17. The organization assesses and communicates defects of internal control in timely manner to the responsible person including top executives and the Board of Directors, as appropriate.

In addition that the Company assigned the management to submit an operational report to the Executive Board, the Audit Committee And the Internal Audit Department also scheduled the auditing of factory and projects of the Company Group in the Annual Audit Plan in order to ensure that all operations of the Company comply with the standards, rules and regulations, and in accordance with the Company's vision and mission at the Meeting of the Board of Directors No. 1/2018 held on 28 February, 2018. There were 3 members of the Audit Committee who are all independent directors attending the meeting, the Board of Directors considered the internal control system evaluation for the year 2007 according to the adequacy of internal control system issued by the Office of the Securities and Exchange Commission (SEC), consisting of 5 main components which are controlling environment, risk assessment, control measures, Information and communication system, tracking system as mentioned above. The Board of Directors agreed with the Audit Committee that the Company and its subsidiaries set up the important internal control measures related to the operation, risk management and the sufficient overseeing and monitoring of the management and The Board of Directors.

Auditor's remarks on internal control.

The financial statements of the Company and its subsidiaries for the year ended 31 December 2017 of PricewaterhouseCoopers ABAS Co., Ltd., the Company's auditor report as no remarks and suggestions on the Company's internal accounting systems.

Chief Internal Audit Information

The Company occupy services from outside (outsourced) internal auditing firm. At the meeting, the Audit Committee appointed the Company “Dharmniti Internal Audit Co., Ltd. to serve as the Company’s internal auditor since 2008, and Mr. Saksri Ampawan, Senior Executive Vice President supervises the Company’s internal audit.

The Audit Committee considered the qualifications of the Internal Audit Company Limited, Dharmniti Internal Audit Co.,Ltd. and Mr. Saksri Ampawan, and opined that they are suitable to perform such duties due to independence and experience in internal auditing in the same business of the Company.

Presently, to consider and approve the appointment, terminate, relocation and evaluation the performance to consider the remuneration to the head of internal audit of the Company shall be approved by the Audit Committee.

The Company’s Internal Audit Department which is directly controlled by the Audit Committee coordinated with Dharmniti Internal Audit Co.,Ltd. (via the Secretary of the Audit Committee) to review the results of the meeting with executives before report (in book form) to the Audit Committee and further present the results of internal audit to the Board of Directors to acknowledge the results of the internal audit.

For internal audit result of the year 2017,Dharmniti Internal Audit Co.,Ltd. has concluded its opinion on the effectiveness of internal control that the Company has adequate and appropriate internal control system. The internal audit has completed the work and covered all units.

Details of the Head of Internal Audit

The Board of Directors has assigned the Audit Committee to oversee the internal audit and the Company’s operations. In this regard, the Audit Committee has appointed an external agency (outsourced), which is a juristic person for the internal audit work. Details of the juristic person appointed by the Company to perform the internal audit functions as follows:

Dharmniti Internal Audit Co.,Ltd. (formerly Dharmniti Auditing Co., Ltd.) has assigned

Mr. Saksri Ampawan : Chairman of Executive Committee

To be the person appointed by Dharmniti Internal Audit Co.,Ltd. to perform the duty of internal audit.

Name - Age (years)		Education	
Mr. Saksri Amphawan		<ul style="list-style-type: none">Bachelor Degree in Business Administration, Accounting, Ramkhamhaeng University	
<ul style="list-style-type: none">Age 49 years		<ul style="list-style-type: none">Certificate of the Internal Audit of Thailand (CPIAT)	
<ul style="list-style-type: none">Chairman of Executive Committee		<ul style="list-style-type: none">Certificate of Tax Auditor (TA)	
Working Experience			
Period	Company / Organization	Position	Duties and Responsibility
Feb. 2017 - Present	<ul style="list-style-type: none">Dharmniti Internal Audit Co.,Ltd.	<ul style="list-style-type: none">Chairman of Executive Committee	<ul style="list-style-type: none">Supervise the implementation of policies and strategic guidelines of all parties and the Company.Provide advice and support to the business operation to the management committee.
Jun. 2016 – Feb. 2017	<ul style="list-style-type: none">Dharmniti Co., Ltd.	<ul style="list-style-type: none">Vice Chairman of Executive Committee	<ul style="list-style-type: none">Define the strategy, plan and monitor the internal audit work of each client to be in line with the defined plan.
2008 - May 2016		<ul style="list-style-type: none">Senior Manager - Risk Management and Internal Audit	<ul style="list-style-type: none">Offer various services about risk management and internal audit
		<ul style="list-style-type: none">Head of Risk Management and Internal Audit	<ul style="list-style-type: none">Provide knowledge and understanding of internal audit to the team and coordinate with customers
		<ul style="list-style-type: none">Company’s Committee	
2003 - 2007		<ul style="list-style-type: none">Manager - Internal Audit and Management	<ul style="list-style-type: none">Plan and control the internal audit work of each client in accordance with the plan.
2002 - 2003		<ul style="list-style-type: none">Manager - Audit Department 4	<ul style="list-style-type: none">Offer various services about risk management and internal auditProvide knowledge and understanding of internal audit to the team and coordinate with customers
1997 - 2001		<ul style="list-style-type: none">Assistant Manager - Audit Department 4	<ul style="list-style-type: none">Control Assistant Auditor and perform inspection for each client in accordance with the defined plan.
1992 - 1997		<ul style="list-style-type: none">Assistant Auditor - Audit Department 4 and 5	<ul style="list-style-type: none">Perform auditing as assigned

Connected Transactions

The Company had the connected transactions between juristic person and an individual that may have conflict of interest during the accounting year 2016 and 2017 which is summarized of its relationship as follows:

Company/person that may have conflict of interest	Details of relationship	Connected Transactions (Yes = ✓, No = ✗)	
		Year 2016	Year 2017
		Ended 31 Dec 2016	Ended 31 Dec 2017
Subsidiaries which have related parties to the Company holding shares of not more than 10%:- -None			
Related Parties of the Company or subsidiaries:			
<ul style="list-style-type: none">Dhipaya Insurance PLC Business: Insurance The Board of Directors consists of 13 directors as follows: 1) Mr. Somchainuk Engrakul 2) Mr. Chatchai Payuhanaveechai 3) Mr. Somchai Pulsawas 4) General Somchai Thanarat 5) Mr. Prapas Kongiad 6) Mr. Prasit Damrongchai 7) Ms. Wilaiwan Kanjanakanti 8) Mr. Sima Simanant 9) Mrs. Nongnuch Thiemphaitoon 10) Mrs. Jaree Wuttisanti 11) Mr. Somporn Suentavinkul 12) Mr. Luechai Chaiparinya 13) Mr. Wattana Kanlanan	<ul style="list-style-type: none">Mr. Somchainuk Engrakul, Chairman of the Board of Directors and Chairman of the Executive CommitteeMr. Somchainuk Engrakul, Chairman of the Board of Directors of EA	✓	✓

The related transactions between the Company and person who may have conflict of interest during fiscal year 2016 and 2017 are as follows:

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions			Necessity and reason
		(Million Baht)			
		Year 2016	Year 2017		
		And as of	And as of		
		31 Dec 2016	31 Dec 2017		
1. Dhipaya Insurance PLC.	<ul style="list-style-type: none">The Company applied the insurance of property risk to cover its biodiesel factory with Nam Seng Insurance PLC. under the joint insurance between Nam Seng Insurance PLC and Dhipaya Insurance PLC. at 50% of the premium in each firm.<ul style="list-style-type: none">1.) 1 year insurance period (from October 19, 2015 to October 19, 2016) The sum insured amounted to Baht 1,050.00 Million2.) 1 year insurance period (from October 19, 2016 to October 19, 2017) The sum insured amounted to Baht 1,050.00 Million.3.) 1 year insurance period (from October 19, 2017 to October 19, 2018) The sum insured amounted to Baht 1,050.00 Million.	0.97	0.99		The insurance is made with external party which is not related to the Company. However, the condition of joint-insurance concerns related company at market capitalization price. The Audit Committee expressed their opinion that such transaction is necessary, reasonable and utilize to the Company's benefit and worth insurance premium (including flood insurance)
	<ul style="list-style-type: none">The Company has insured third party liability of biodiesel plants with Nam Seng Insurance Public Co., Ltd. under the joint-insurance between Nam Seng Insurance Plc and Dhipaya Insurance Plc at 50% of sum insured for each<ul style="list-style-type: none">1.) 1 year insurance period (from October 19, 2015 to October 19, 2016). The sum insured amounted to Baht 20.00 Million.2.) 1 year insurance period (from October 19, 2016 to October 19, 2017), the sum insured amounted to Baht 50.00 Million.3.) 1 year insurance period (from October 19, 2017 to October 19, 2018). The sum insured amounted to Baht 50.00 Million.	0.04	0.04		
	<ul style="list-style-type: none">The Company has prepaid premiums from such transactions at the end of the accounting period. The factory premiums are recorded as cost of sales (production costs).	0.80	0.73		

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)			Necessity and reason
		Year 2016 And as of	Year 2017 And as of		
		31 Dec 2016	31 Dec 2017		
•	EA Solar Co., Ltd. (a subsidiary) has insured the assets of the solar power plant with Dhipaya Insurance Plc., under the terms of the joint insurances, i.e. - Dhipaya Insurance Plc. - 55% of the sum insured, Nam Seng Insurance Plc – 25% of sum insured and Chubb Samaaggi Insurance Plc – 20% of sum insured.	0.64	0.54	The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage.	
	1.) 1 year insurance period (from 17 October 2015 to 17 October 2016), with sum insured of Baht 780,000,000.-.			The selection of the insurer has been selected by an independent agent properly.	
	2.) 1 year insurance period (from 17 October 2016 to 17 October 2017) with sum insured of Baht 500,000,000.				
	3.) 1 year insurance period (from 17 October 2017 to 17 October 2018) with sum insured of Baht 500,000,000.				
•	EA Solar Co., Ltd. (Subsidiary) has prepaid premiums from such transactions at the end of the accounting period. (The premium is recorded as cost of sales).	0.44	0.38		

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions			Necessity and reason
		(Million Baht)			
		Year 2016 And as of	Year 2017 And as of		
		31 Dec 2016	31 Dec 2017		
	<ul style="list-style-type: none">EA Solar Nakhomsawan Co., Ltd. (subsidiary) has insured the assets of the solar power plant with Dhipaya Insurance Public Company Limited under the policy of the insurance policy i.e. - Dhipaya Insurance Plc. - 40% of the sum insured, Nam Seng Insurance Plc – 40% of sum insured and Safety Insurance Plc – 20% of sum insured.<ul style="list-style-type: none">1.) 1 year insurance period (from 23 December 2015 to 22 December 2016) with sum insured of USD 200,000,000.2.) 1 year insurance period (from 23 December 2016 to 22 December 2017) with sum insured of USD 200,000,000.3.) 1 year insurance period (from 23 December 2017 to 22 December 2018)<ul style="list-style-type: none">3.1) with sum insured of USD 200,000,000.3.2) with sum insured of USD 200,000,000.	3.24	7.73	The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage. The selection of the insurer has been proceeded by an independent agent properly.	
	Clause 2) is under the terms of the joint insurances between Dhipaya Insurance Plc. for 60% of the sum insured and Nam Seng Insurance Plc for 40% of sum insured. Clause 3.1 is under the terms of the joint insurances between Dhipaya Insurance Plc. for 60% of the sum insured and Nam Seng Insurance Plc for 40% of sum insured while Clause 3.2 is under the terms of the joint insurances between Dhipaya Insurance Plc. for 50% of the sum insured, Nam Seng Insurance Plc for 35% of sum insured and Safety Insurance Plc for 15% of sum insured.				

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)				Necessity and reason
		Year 2016 And as of	Year 2017 And as of			
		31 Dec 2016	31 Dec 2017			
		2.85	9.06			
	<ul style="list-style-type: none">EA Solar Lampang Co., Ltd. (Indirect subsidiary) has insured the assets of the solar power plant with Dhipaya Insurance Plc. under the joint-policy, i.e. Dhipaya Insurance Plc. at the rate of 30% of the sum insured, Nam Seng Insurance Plc. at the rate of 30% of the sum insured and Safety Insurance Plc.at the rate of 40% of the sum insured. 1.) Period of insurance from December 23, 2015 to December 22, 2016, with sum insured of USD 228,790,000. 2.) Period of insurance from 23 December 2016 to 22 December 2017, with sum insured of USD 227,500,000. 3.) Period of insurance period from December 23, 2017 to December 22, 2018, 3.1) with sum insured USD 227,500,000 3.2) with sum insured USD 227,500,000 Clause 2) is under the terms of the joint insurances between Dhipaya Insurance Plc. for 60% of the sum insured and Nam Seng Insurance Plc for 40% of sum insured. Clause 3.1 is under the terms of the joint insurances between Dhipaya Insurance Plc. for 60% of the sum insured and Nam Seng Insurance Plc for 40% of sum insured while Clause 3.2 is under the terms of the joint insurances between Dhipaya Insurance Plc. for 50% of the sum insured, Nam Seng Insurance Plc for 35% of sum insured and Safety Insurance Plc for 15% of sum insured.				The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage. The selection of the insurer has been proceeded by an independent agent properly.	

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)				Necessity and reason
		Year 2016 And as of 31 Dec 2016	Year 2017 And as of 31 Dec 2017			
• EA Solar Phitsanulok Co., Ltd. (Indirect subsidiary) hired Jardine Lloyd Thompson as the third party who has been recognized by financial institutions as a lender to the company as a lender agent for the insurance company, by Jardine Lloyd Thompson. Limited selection of companies Dhipaya Insurance Plc.at the rate of 40% of the sum insured, Nam Seng Insurance Plc., at 30% of the sum insured and Safety Insurance Plc. at the rate of 30% of the sum insured. This is to insure the asset of solar power plant during construction. 1.) Period of Insurance from 24 April 2015 to 29 February 2016 with sum insured of USD 227,633,000. 2.) Period of Insurance from February 29, 2016 to March 14, 2016 with sum insured of USD 227,633,000. 3.) Period of Insurance from March 15, 2016 to March 31, 2016, with sum insured of USD 227,633,000.		7.31	-		The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage during the period of power plant construction. The selection of the insurer has been selected by an independent agent properly.	
• EA Solar Phitsanulok Co., Ltd. (Indirect subsidiary) has insured the assets of the solar power plant with Dhipaya Insurance Plc. under the joint-policy, between Dhipaya Insurance Plc. at the rate of 60% of the sum insured, and Nam Seng Insurance Plc. at the rate of 40% of the sum insured. 1.) Period of insurance from April 1, 2016 to December 22, 2017, with sum insured of USD 220,469,000 2.) Period of insurance from December 22, 2017 to December 22, 2018, 2.1) with sum insured of USD 220,469,000 2.2) with sum insured of USD 220,469,000 Clause 2.1) is under the terms of the joint insurances between Dhipaya Insurance Plc. for 60% of the sum insured and Nam Seng Insurance Plc for 40% of sum insured while Clause 2.2 is under the terms of the joint insurances between Dhipaya Insurance Plc. for 50% of the sum insured, Nam Seng Insurance Plc for 35% of sum insured and Safety Insurance Plc for 15% of sum insured.		2.43	6.62		The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage. The selection of the insurer has been selected by an independent agent properly.	
• EA Solar Phitsanulok Co., Ltd. (Indirect Subsidiary) has prepaid premiums from such transactions at the end of the accounting period. (The premium is recorded as cost of sales)		0.81	-			

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)				Necessity and reason
		Year 2016	Year 2017			
		And as of	And as of			
		31 Dec 2016	31 Dec 2017			
•	EA Wind Hadkanghan3 Co.,Ltd. (Indirect subsidiary) hired Jardine Lloyd Thompson as the third party who has been recognized by financial institutions as a lender to the company as a lender agent for the insurance company, by Jardine Lloyd Thompson. Limited selection of companies Dhipaya Insurance Plc.at the rate of 25% of the sum insured, Nam Seng Insurance Plc., at 25% of the sum insured and Safety Insurance Plc. at the rate of 50% of the sum insured. This is to insure the asset of solar power plant during construction.	3.35	3.97	The Company has complied with loan agreements to have an insurance agent providing the insurance cover in order to prevent the risk of potential damage.		
	1.) Insurance Period from July 21, 2015 to July 4, 2016, with sum insured of USD 272,341,000 (the premium is included in the cost of a power plant) 2.) Period of insurance from 5 July 2016 to 30 June 2017, with sum insured of USD 272,341,000 (the premium is included in the cost of a power plant)			The selection of the insurer has been selected by an independent agent properly.		
•	EA Wind Hadkanghan3 Co.,Ltd. (Indirect subsidiary) has insured the assets of the solar power plant with Dhipaya Insurance Plc. under the joint-policy, between Dhipaya Insurance Plc. at the rate of 25% of the sum insured, Nam Seng Insurance Plc. at the rate of 25% of the sum insured and Safety Insurance Plc. At the rate of 50% of the sum insured.					
	1.) Period of insurance from 21 July 2017 to 25 December 2017, with sum insured of USD 266,294,000 2.) Period of insurance from 26 December 2017 to 25 December 2018, with sum insured of USD 266,294,000					
Clause 2) is under the terms of the joint insurances between Dhipaya Insurance Plc. for 51% of the sum insured, Nam Seng Insurance Plc for 40% of sum insured and Safety Insurance Plc for9% of sum insured.						

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)			Necessity and reason
		Year 2016 And as of 31 Dec 2016	Year 2017 And as of 31 Dec 2017		
	<ul style="list-style-type: none">Nayangklak Development Co.,Ltd. (Indirect subsidiary) has hired Jardine Lloyd Thompson Co., Ltd., a third party, and has been accepted by the financial institution as the lender to represent the Company in provision of Insurance company. Jardine Lloyd Thompson Co., Ltd. Has selected Dhipaya Insurance PCL. at the rate of 51% of the sum insured , and Nam Seng Insurance PCL. At rate 40% of the sum insured and Safety Insurance PCL. at rate of 9% of the sum insured, for the property insurance of the power plant assets during the construction.1.) The insurance period is from December 23,2017 to December 22,2018 The sum insured is USD 100,593,853 (the premium is included as the cost of the power plant)	-	2.56	The Company has complied with the loan agreement which designed that the Company must have a representative in the field of insurance, for the provision of insurance companies to prevent the risk of damage that may occur during the construction of a power plant. The selection of the insurer has been selected by an independent agent properly.	
	<ul style="list-style-type: none">Pongnok Development Co.,Ltd. (Indirect subsidiary) has hired Jardine Lloyd Thompson Co., Ltd., a third party, and has been accepted by the financial institution as the lender to represent the Company in provision of Insurance company. Jardine Lloyd Thompson Co., Ltd. Has selected Dhipaya Insurance PCL. at the rate of 51% of the sum insured , and Nam Seng Insurance PCL. At rate 40% of the sum insured and Safety Insurance PCL. at rate of 9% of the sum insured, for the property insurance of the power plant assets during the construction.1.) The insurance period is from December 23,2017 to December 22,2018 The sum insured is USD 105,158,777 (the premium is included as the cost of the power plant)	-	2.70	The Company has complied with the loan agreement which designed that the Company must have a representative in the field of insurance, for the provision of insurance companies to prevent the risk of damage that may occur during the construction of a power plant. The selection of the insurer has been selected by an independent agent properly.	

The person who may have conflict of interest	Details of Transaction	Value of Related Transactions (Million Baht)			Necessity and reason
		Year 2016 And as of 31 Dec 2016	Year 2017 And as of 31 Dec 2017		
•	Nayangklak Wind Power Co.,Ltd. (Indirect subsidiary) has hired Jardine Lloyd Thompson Co., Ltd., a third party, and has been accepted by the financial institution as the lender to represent the Company in provision of Insurance company. Jardine Lloyd Thompson Co., Ltd. Has selected Dhipaya Insurance PCL. at the rate of 51% of the sum insured , and Nam Seng Insurance PCL. At rate 40% of the sum insured and Safety Insurance PCL. at rate of 9% of the sum insured, for the property insurance of the power plant assets during the construction.	-	2.57	The Company has complied with the loan agreement which designed that the Company must have a representative in the field of insurance, for the provision of insurance companies to prevent the risk of damage that may occur during the construction of a power plant. The selection of the insurer has been selected by an independent agent properly.	
	1.) The insurance period is from December 23,2017 to December 22,2018 The sum insured is USD 102,489,878 (the premium is included as the cost of the power plant)				
•	Benjarat Development Co.,Ltd. (Indirect subsidiary) has hired Jardine Lloyd Thompson Co., Ltd., a third party, and has been accepted by the financial institution as the lender to represent the Company in provision of Insurance company. Jardine Lloyd Thompson Co., Ltd. Has selected Dhipaya Insurance PCL. at the rate of 51% of the sum insured , and Nam Seng Insurance PCL. At rate 40% of the sum insured and Safety Insurance PCL. at rate of 9% of the sum insured, for the property insurance of the power plant assets during the construction.	-	2.26	The Company has complied with the loan agreement which designed that the Company must have a representative in the field of insurance, for the provision of insurance companies to prevent the risk of damage that may occur during the construction of a power plant. The selection of the insurer has been selected by an independent agent properly.	
	1.) The insurance period is from December 23,2017 to December 22,2018 The sum insured is USD 89,389,541 (the premium is included as the cost of the power plant)				
•	Banchuan Development Co.,Ltd.(Indirect subsidiary) has hired Jardine Lloyd Thompson Co., Ltd., a third party, and has been accepted by the financial institution as the lender to represent the Company in provision of Insurance company. Jardine Lloyd Thompson Co., Ltd. Has selected Dhipaya Insurance PCL. at the rate of 51% of the sum insured , and Nam Seng Insurance PCL. At rate 40% of the sum insured and Safety Insurance PCL. at rate of 9% of the sum insured, for the property insurance of the power plant assets during the construction.	-	4.63	The Company has complied with the loan agreement which designed that the Company must have a representative in the field of insurance, for the provision of insurance companies to prevent the risk of damage that may occur during the construction of a power plant. The selection of the insurer has been selected by an independent agent properly.	
	1.) The insurance period is from December 23,2017 to December 22,2018 The sum insured is USD 183,125,443 (the premium is included as the cost of the power plant)				

Management Discussion and Analysis : MD&A

Overview of the operational performance of last year

Energy Absolute Public Company Limited is the Company operating the business of alternative energy with the use of modern technology friendly to the environment and beneficially for the users. At present, the core business of the Company is manufacturer and distributor of biodiesel (B100), purified glycerin and by-products. The Company has been granted to be the oil trader according to Section 7 of the Fuel Trade Act B.E.2543 by Ministry of Energy (on 14th October 2009). In addition, the Company has expanded the business to generate and distribute the electricity from alternative energy, i.e. solar and wind energy in accordance with the Power Development Plan (PDP) (B.E.2553 – B.E.2557) that government has promoted the generation of electricity from renewable energy along with environmental protection. This is not only to realize the importance of renewable energy, however, the Company also recognizes the importance of energy reserves for the use in various industries. On 7th December 2016, the Company invested in the foreign company (Amita Technologies Inc.) for operating and developing the battery (lithium-ion polymer) which will enhance the existing renewable energy business of the Company.

At the end of 2017, the revenue from all 4 solar power plants were recorded. The revenue of each plant was as follows:

- 8-MW Solar Power Plant in Lopburi Province : The revenue had been recorded since 17TH October 2012.
- 90-MW Solar Power Plant in Nakhornasawan Province : The revenue had been recorded since 23rd December 2013.
- 90-MW Solar Power Plant in Lampang Province : The revenue had been recorded since 17th February 2015.
- 90-MW Solar Power Plant in Phitsanulok Province : The revenue had been recorded since 1st April 2016.

For wind power project, the Company and subsidiaries have submitted filling to the Electric Generating Authority of Thailand (EGAT), in which the filling has been accepted for total 8 projects, i.e.

- Hadkanghan : 3 projects with the aggregate capacity of 126 MW
- Currently, wind Power Plant (Hadkanghan) all 3 projects commenced the commercial operation and revenue was recognized since 3rd March 2017, 10th June 2017 and 23rd June 2017
- Hanuman : 5 projects with the aggregate capacity of 260 MW

The operating results during the past 3 years, the Company and subsidiaries incurred revenue from 4 products as follows:

- 1.) Revenue from sales of biodiesel
- 2.) Revenue from sales of purified glycerin
- 3.) Revenue from sales of byproducts
- 4.) Revenue from sales of electricity from solar and wind energy

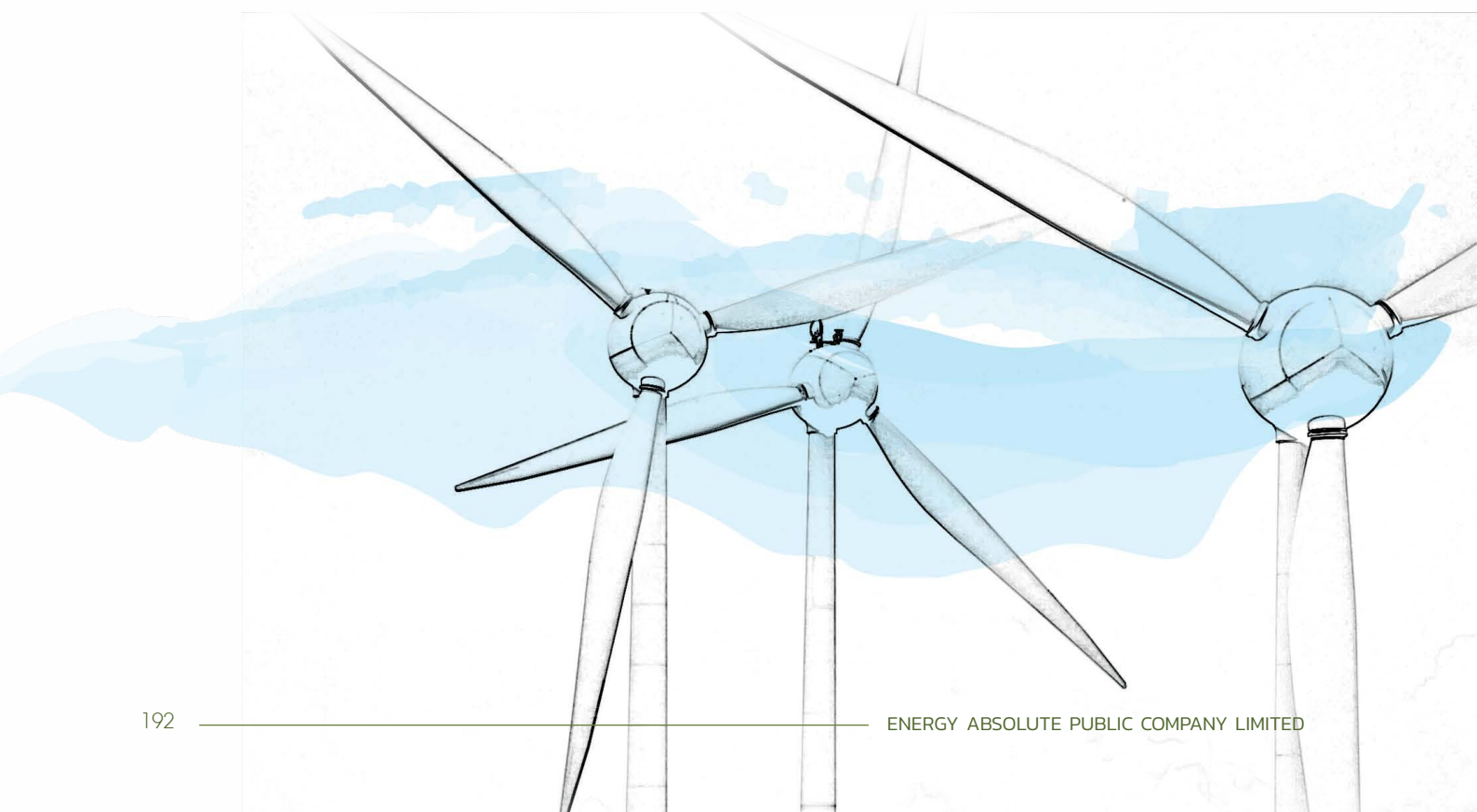
*Note : Currently, The Company still permitted to generating and distributing the products related to High Speed Diesel Business

Total revenue from sales of the 4 products in year 2015, 2016 and 2017 were THB 9,197.35 million, THB 10,392.39 million and THB 11,579.52 million respectively. These revenues included incentive income (Adder) from Provincial Electricity Authority (PEA), at the rate of THB 8 per kWh for 8-MW Solar power plant in Lopburi and from EGAT at the rate of THB 6.50 per kWh for 90-MW Solar power plant in Nakhornsawan, 90-MW Solar power plant in Lampang, and 90-MW Solar power plant in Phitsanulok, and at rate THB 3.50 per kWh for 126-MW Wind power plant for a period of 10 years, starting from the commercial operation date.

1. Analysis of operating results of the Company and subsidiaries

Revenue from sales of products and total revenue

Total revenue from sales of products of the Company and subsidiaries in year 2015, 2016 and 2017 were THB 9,197.35 million, THB 10,392.39 million and THB 11,579.52 million respectively (included Adder from Provincial Electricity Authority (PEA), at the rate of THB 8 per kWh for 8-MW Solar power plant in Lopburi and from EGAT at the rate of THB 6.50 per kWh for 90-MW Solar power plant in Nakhornsawan, 90-MW Solar power plant in Lampang, and 90-MW Solar power plant in Phitsanulok, and at rate THB 3.50 per kWh for 126-MW Wind power plant for a period of 10 years, starting from the commercial operation date) This resulted in the total revenue of the Company and subsidiaries increase continually. In 2016, the total revenue increased from 2015 for THB 1,227.08 million representing 13.32% from THB 9,212.17 million in 2015, THB 10,439.25 million in 2016. In 2017, the total revenue was THB 11,673.50 million increasing from 2016 for THB 1,234.25 million 11.82%.



Total Revenue

Revenue type	2015		2016		2017	
	Million THB	%	Million THB	%	Million THB	%
• Biodiesel						
1. Biodiesel oil	5,005.33	54.33	4,721.13	45.23	4,205.20	36.02
2. Purified glycerin	220.32	2.40	169.49	1.62	267.07	2.29
3. by-products	16.06	0.17	11.32	0.11	14.16	0.12
	5,241.71	56.90	4,901.94	46.96	4,486.43	38.43
• Renewable Energy Power Plant						
4. Solar Power Plant and Wind Power Plant	1,360.39	14.77	1,786.31	17.11	2,422.15	20.75
5. Additional funds from adder	2,595.25	28.17	3,704.14	35.48	4,670.94	40.01
	3,955.64	42.94	5,490.45	52.59	7,093.09	60.76
Total sale income	9,197.35	99.84	10,392.39	99.55	11,579.52	99.19
6. Other income	14.82	0.16	46.86	0.45	93.98	0.81
Total Revenue	9,212.17	100.00	10,439.25	100.00	11,673.50	100.00

Having considered the proportion of revenue from the sales during 2015, 2016 and 2017, it found that the proportion of revenue from sales of 2 major products has changed significantly, i.e. the proportion of revenue from sales of biodiesel which declined continuously were 54.33% , 45.23% and 36.02% of total revenue respectively. While, the sales revenue from electricity and Adder which increased were 42.94%, 52.59% and 60.76% of the total revenue respectively. In the year 2017 the Company and subsidiaries incurred the sale revenue of THB 11,579.52 million, representing the increase of 11.42% as compared to 2016. In proportion, sales revenue from biodiesel accounted 36.02%, Purified glycerin accounted 2.29%, byproducts accounted 0.12%. and for revenue from solar and wind power plant business, sale revenue from solar and wind power plant stood at 20.75% and revenue from Adder stood at 40.01% of total revenue.

Revenue from sales of biodiesel in 2015 increased by THB 14.39 million or 0.29% from 2014 as a result of an increase of sales volume from 174.54 million liters in 2014 to 188.02 million liters in 2015, representing the increase of sales volume of 7.72%. While the sales volume in 2016 had decreased 36.38 million liters representing 19.35% as compared to 2015. Due to the impact of the palm crude oil shortage caused by drought on the third quarter, So Department of Energy Business has announced to reduce the portion of biodiesel blend into high-speed diesel in order to reduce the demanding of crude palm oil. As the sales volume has been reduced, therefore the revenue from sales of biodiesel was reduced as well. Revenue of sale biodiesel in 2016 reduced THB 284.20 million comparing to 2015 or representing the decrease of 5.68%. In the first quarter and second quarter of 2017, Department of Energy Business has announced to increase the portion of biodiesel blend into high-speed diesel to be B5 and B7 respectively, which made the revenue from sales of biodiesel in 2017 was increased at 14.70% as compared to 2016. However, due to the decreased of raw material price which is the factor to pricing the distribution, affected to the value from sales of biodiesel in 2017 decreased by THB 515.93 million or 10.93% as compared to 2016.

The revenue from solar and wind power plants of the Company and subsidiaries' in 2015, 2016 and 2017 were THB 3,955.64 million, THB 5,490.45 million and THB 7,093.09 million respectively. The continuing growth followed the commercial operation of each power plant project, where the earning was recognized from sales of the electricity units and Adder of which increased in every year.

Cost of sales and gross profit

Sales cost of the Company and subsidiaries during year 2015, 2016 and 2017 were THB 5,461.16 million, THB 5,637.29 million, and THB 6,045.57 million respectively, or approximately 59.38%, 54.24% and 52.21% of sales revenue respectively. Proportion of the sales cost to revenue was declined as a result of the proportion of business which yielded high gross profit such as production and distribution of electricity from solar and wind power plants which increased continually as compared to biodiesel business of which the revenue decreased and decreased ratio of sales cost to revenue.

Gross profit of the Company and subsidiaries during year 2015, 2016 and 2017 were THB 3,736.19 million, THB 4,755.10 million and THB 5,533.95 million collectively, or approximately 40.62%, 45.76% and 47.79% of sale revenue respectively. The gross profit of the Company is likely to increase significantly due to the revenue recognitions, commercial operations from distribution of electricity business and increment of solar power plant 1 project each year. 90 MW solar power plant during the fourth quarter of 2013 in Nakhornsawan, 90 MW solar power plant in Lampang on the First quarter of 2015 and 90 MW solar power plant in Phitsanulok on second quarter of 2016, 126 MW Wind power plant in Nakhonsrithammarat and Songkhla during 2017 which included income from distribution of electricity and the Adder. As such the gross profit of the Company was higher.

Furthermore, to categorize revenue, sales cost of the Company and subsidiaries into 2 types of business which are 1) Production and distribution of biodiesel oil and glycerin 2) Generating and distribution of electricity captured from solar and wind energy. Details are shown as follows:

Revenue type	2015		2016		2017	
	Million THB	%	Million THB	%	Million THB	%
Production and distribution of biodiesel and glycerin (Including byproducts)						
- Sales revenue	5,241.71	56.99	4,901.94	47.17	4,486.43	38.74
- Cost of sales	4,703.60	51.14	4,486.26	43.17	4,273.76	36.91
- Gross profit	538.11	5.85	415.68	4.00	212.67	1.83
Distribution of electricity captured from solar and wind energy (included Adder)						
- Sales revenue	3,955.64	43.01	5,490.45	52.83	7,093.09	61.25
- Cost of sales	757.56	8.24	1,151.03	11.08	1,771.81	15.31
- Gross profit	3,198.08	34.77	4,339.42	41.75	5,321.28	45.94
Total Revenues	9,197.35	100.00	10,392.39	100.00	11,579.52	100.00

Sales revenue and sale cost, categorized by type of product during year 2015-2017

Products	2015			
	Revenue	Cost of sales	Gross profit	Gross profit margin (%)
Biodiesel	5,005,333,077	4,597,563,073	407,770,004	8.15
Purified glycerin	220,313,148	94,968,038	125,345,110	56.89
Byproducts	16,061,980	11,072,507	4,989,473	31.06
Electricity captured from solar energy (included Adder)	3,955,643,033	757,555,789	3,198,087,244	80.85

Products	2016			
	Revenue	Cost of sales	Gross profit	Gross profit margin (%)
Biodiesel	4,721,130,409	4,386,286,539	334,843,870	7.09
Purified glycerin	169,492,163	80,406,265	89,085,898	52.56
Byproducts ^{/1}	11,322,943	19,568,537	(8,245,594)	(72.82)
Electricity captured from solar energy (included Adder)	5,490,449,151	1,151,031,301	4,339,417,850	79.04

Note : /1 During the improvement of production (Ration B100) which is reproduce raw material and by product to be main products, however, due to the lack of storage the product needed to sell as byproduct price.

Products	2017			
	Revenue	Cost of sales	Gross profit	Gross profit margin (%)
Biodiesel	4,205,199,192	4,164,600,467	40,598,725	0.97
Purified glycerin	267,068,146	98,909,813	168,158,333	62.96
Byproducts	14,162,655	10,249,575	3,913,080	27.63
Electricity captured from solar energy (included Adder)	5,977,749,259	1,340,333,854	4,637,415,405	77.58
Electricity captured from wind energy (included Adder)	1,115,304,379	431,472,998	683,831,381	61.31

Sales expenses

The sale expenses of the Company and subsidiaries for the years 2015, 2016, and 2017 accounted for THB 61.39 million, and THB 47.67 million and THB 58.61 million respectively, or calculated as 0.67%, 0.46% and 0.50%, of total revenues, respectively. In 2016, the sale expenses decreased mainly due to the higher cost of production and sales of biodiesel. That the Company could sell the products in lower quantity resulted in lower sale expenses. In 2017, the sale expenses increased as compared to 2016 due to the increment of distribution and the impact of diesel price as main cost of transportation increased in second quarter of 2017.

Administrative expense

Administrative expense of the Company and subsidiaries in 2015, 2016 and 2017 were THB 324.88 million, and THB 410.24 million, and THB 608.42 million representing 3.53%, 3.95% and 5.21% of total revenue consecutively. The increase of administrative cost was a result of business expansion. There was also a non-regular expense of 24.65 million THB which was the service fee in credit sourcing. Previously, the Company had to gradually recognize as the expense. However, due to the effect from the Company canceling the credit financial amount as the Company could provide the source of capital at lower cost from the issuance of debentures, this fee had to be recognized in full amount as expenses in the third quarter of 2016.

Earnings (loss) on exchange currency

On 31 December 2016, the Company and subsidiaries recorded the loss from the net exchange currency of THB 102.18 million. The loss increased by THB 99.79 million as compared to the loss from the net exchange currency of THB 2.39 million incurred in the previous year. These were the expenses arising from the conformity to the agreement in the power plant project loan agreement requiring the Company to purchase foreign currency in advance in order to control the risk and monitor the project's investment budget not to be over the projection. However, as on the date of exercising the right to submit the foreign currency, the difference was found in the exchange currency resulting in the necessity to record the result of such transaction as the expenses. Currently, the effect of such transactions had been fully recognized. Such loss did not exceed the budget of each project and did not affect the liquidity of the Group of companies anyway. Furthermore, on 31 December 2017 due to the appreciation of Thai Baht Currency, The Company has recognized the differences of the retention from the construction contractor accounted at 0.52% (60.86 million THB) of the revenue.

Financial cost

During year 2015, 2016 and 2017, the financial cost of the Company and subsidiaries were THB 646.11 million, THB 994.89 million and THB 1,184.32 million respectively, or approximately 7.02% and 9.57% and 10.15% of total revenue respectively. The increasing in financial cost was due to the subsidiary's long-term loan drawdown for the construction of the 90-MW solar power plant in Lampang and Pitsanulok provinces, 126-MW wind power plant and these 3 power plants were completely constructed. Therefore the financial cost incurred thereafter were recorded as expenses instead of recording as cost.

Net profit and rate of net profit

Net profit (refer to the portion of the Company) of the Company and subsidiaries earned in 2015, 2016 and 2017 were THB 2,686.14 million, THB 3,251.51 million, and THB 3,817.45 million, representing a net profit of 29.22%, 31.30% and 32.85% of total revenue respectively. The continual growth of the net profit is a result of greater efficiency on cost management, inventory management and purchase procedures including policy on business expansion to focus on business which generate high income which are production and distribution of electricity during the first quarter of 2015, the second quarter of 2016 and first half year of 2017 and also the revenue recognition of subsidiaries from 90-MW solar power plants in Nakhonsawan, Lampang and Phitsanulok, 126 MW wind power plants in Nakhonsithammarat and Songkla provinces respectively has increased the net profit of the Company and subsidiaries.

Return rate per shareholder

Return on equity of the Company and subsidiaries in year 2015, 2016 and 2017 were 37.30%, 32.68% and 29.22%. Shareholder's equity (in part of the parent company) was THB 8,504.94 million, THB 11,383.45 million, and THB 14,667.60 million respectively. The paid-up ordinary shares of the Company and subsidiaries were THB 373 million, the premium on share were THB 3,680.22 million as a result of the significant increase of paid-up capital and share premium from listing in the MAI Stock Exchange during the first quarter of 2013.

Financial status of the Company

Assets

Total assets of the Company and subsidiaries as of 31 December 2015, 2016 and 2017 were THB 33,057.23 million, THB 41,507.39 million, and THB 44,530.42 million respectively. Details of significant assets are as follows:

- **Deposit made in financial institution with guarantee obligation**

As of 31 December 2015, 2016 and 2017, the Company's and subsidiaries' pledged deposit with financial institutions were THB 2,829.52 million, THB 1,790.07 million, and THB 100.97 million respectively. The deposit with guarantee obligation. As of 31 December 2016, the decrease amount of THB 1,039.45 million equaled to 36.74% decrease in the term of current items THB 1,063.16 million as a result of subsidiaries have repaid the entire loan amount of 2 solar power plants. The non-current items has increased by THB 23.72 million as the reserve for retention according to the conditions for wind power plant of subsidiary that under construction. As of 31 December 2017, 3 subsidiaries with Long-term creditors have agreed to amend the terms and conditions of the long-term loan agreement to cancel the mortgage and assets pledge and deposits at financial institutions of subsidiaries to be used as collateral for long-term loans which reduce the deposit amount as guarantee THB 1,689.10 million or 94.36% from 2016.

- **Account receivable and allowance for doubtful accounts**

As at 31 December 2015, 2016 and 2017 the Company and subsidiaries had account receivable of THB 1,051.60 million, THB 1,319.15 million, and THB 1,706.91 million or representing 3.18%, 3.18% and 3.83% of total assets respectively. The account receivable has increased continuously. This is due to the commencement of commercial operating of subsidiaries' solar power plant every year (one year – one power plant), consequently, the sales of electricity units at the end of each year increased as well.

If calculating the average collection period in 2015, 2016 and 2017 are equal to 34.09 days, 41.06 days and 47.04 days respectively. The overall debt collection period for 2015-2017 is in line with the changing revenue structure. The revenue with short term credit of 15-30 days, such as the revenue from biodiesel sales is likely to decline. And revenue with a credit term of about 45 days, i.e. the revenue from the sales of electricity is likely to increase. This is resulted of a slightly higher average collection period. However, having considered the quality of account receivable as of December 31, 2015, 2016 and 2017, all account receivable are not overdue. This reflect the efficiency in the management of trade receivables and the quality of account receivable.

- **Other receivable**

Other account receivables of the Company and subsidiaries as of 31 December 2015, 2016 and 2017 were THB 397.64 million, THB 585.26 million, and THB 679.58 million respectively. Other account receivables included Revenue Department receivable, incoming purchase tax, goods deposit, advanced insurance premium, advanced expenses, etc. The increase of other receivables as of 31 December 2017 is because the increase of credited for input tax from construction of wind power plant project and the deposit of product in Biodiesel business.

- **Inventories**

As of 31 December 2015, 2016 and 2017, the inventory of the Company and subsidiaries were THB 175.27 million, THB 187.02 million, and THB 127.94 million, or representing 0.53%, 0.45% and 0.53% of total assets respectively. The management has implemented policy on inventory management by setting the volume of inventory in line with the government policy to enable that the Company has enough raw material to produce and to avoid risk from fluctuation of oil price. The value of inventory as of 31 December 2016 and 2017 are summarized as follows:

Unit : Million THB

Inventories	As of 31 December 2016	As of 31 December 2017
Raw material	55.11	94.74
Good in process	78.13	35.92
Finished goods	40.01	6.14
Consumables	20.81	13.63
Total	194.06	150.43
Less Allowance for slow-moving inventories	(7.04)	(22.49)
Inventories, net	187.02	127.94

Allowance for loss due to slow-moving products is set to support imported raw materials. After improvement in some production procedures, the Management estimated that the said raw materials may not be used. For this reason the allowance for loss is set at 50% for year 2013 and is considered to add another 50% in 2014 based on chance of utilization and quality of the product at present. In 2016, the Company reversed THB 3.63 million of a previous raw material write-down because such raw material was used to produce finished goods. In 2017, The Company recognised allowance for net realisable value of raw materials amounting to THB 15.45 million due to lower price of raw materials.

- **Property, plant and equipment, net**

As of 31 December 2015, the property, plant and equipment, net of Company and subsidiaries were THB 27,404.35 million or 82.90% of total assets. The continued to grow to THB 33,485.32 million in 2016 (31 December 2016) and THB 35,219.56 million in 2017 (31 December 2017) respectively, representing 80.67% and 79.09% of total assets respectively, which summarized as follow:

Unit : Million THB

Property, plant, and equipment	As of 31 December 2016	As of 31 December 2017
Property	1,012.41	1,077.92
Building / Buildings improvement	540.47	602.22
Machines, equipment, and instruments in the plants	1,171.56	973.66
Equipment and decorations of office and vehicle	72.17	79.84
Assets to be installed	10,239.25	1,981.81
Power plant of power supply and instruments used for power generation	20,449.46	30,504.11
Total	33,485.32	35,219.56

Details of expense on investment of expansion and improvement of production process including investment expense on construction of solar power plant during year 2015 -2016 were as followings:

Unit : Million THB

Expenditures on investment	2015	2016	2017
Biodiesel and cost sharing	14.46	-	-
Purified glycerin	0.26	-	-
Solar power plant	8,172.98	227.59	-
Wind Power plant	3,754.30	5,853.38	1,734.24
Total expenditures on investment	11,942.00	6,080.97	1,734.24

- **Net - intangible assets**

The intangible assets of the Company and subsidiaries as of 31 December 2015, 2016 and 2017 were THB 416.97 million, THB 665.89 million, and THB 977.16 million or 1.26%, 1.60% and 2.19% of total assets respectively which consist of:

Unit : Million THB

Types of assets	On 31 December 2016	On 31 December 2017
Right in the power of sale and purchase agreement	35.31	33.61
Right in using this system of power supply and substations		
• Solar Power plant in Lopburi	12.36	11.77
• Solar Power plant in Nakhon-sawan	170.95	163.17
• Solar Power plant in Lampang	174.09	166.57
• Solar Power plant in Phitsanulok	262.49	251.66
• Wind power plant in Nakhon-srithammarat continued to Songkla	-	339.35
Computer program	10.69	11.03
Total	665.89	977.16

Liquidity

As of 31 December 2016 and 2017, assets and current assets of the Company and subsidiaries were THB 6,132.21 million, and THB 7,022.28 million, representing 14.78% and 15.77% of total assets respectively. As of 31 December 2016 and 2017, the important -quality and high liquidity current assets were – cash, cash equivalents totaling of THB 2,672.74 million and THB 4,505.65 million, representing 43.59% and 64.16% of current assets respectively. The deposit for guarantee amount in 2016 was THB 1,365.85 million representing 22.27% of current assets, Trade receivables were THB 1,319.15 million and THB 1,706.91 million, representing 21.51% and 24.31% of current assets respectively. Inventory was THB 187.02 million THB and THB 127.94 million, representing 3.05% and 1.82% of current assets respectively. The increase of current assets to total assets was a result of business expansion of alternative power plant until present. The investment in non-current assets included land and power plants which required high value of investment. Also, since the power plant has been completed and can be commercially operated and the continual distribution of electricity resulted in an increment of the proportion of current assets. Impact on the proportion of current assets to be increased as compared to total assets.

As of 31 December 2016 and 2017, current liability of the Company and subsidiaries were THB 3,538.26 million, and THB 2,587.01 million, representing 8.52% and 5.81% of total assets respectively. Current liability of the Company is classified into 2 major parts which are liability from operation of biodiesel business which consist of short-term loan from financial institution, account payables.

As the consumption of biodiesel has been leaped up due to support from government policy, sale volume is consecutively decreased. To expand business in order to support such decreased, the Company required working capital for its business operation. As of 31 December 2016 and 2017, the major liabilities from such business were 28.49% and 37.63% of current liability respectively. In addition, liabilities from business of production and distribution of the electricity generated from alternative energy are creditors from construction, performance security and long-term loan from financial institution – which will be due within a year. As of 31 December 2016 and 2017, the proportion of main liabilities from business operation were 61.19% and 43.33% of current liabilities respectively. The main factor that impacted the increment of liabilities in Biodiesel business and the decrement of liabilities in renewable energy business, was caused from the change in 2017, the three subsidiaries with Long-term creditors have agreed to change the terms and conditions of the long-term loan agreement which changed the due date of principal repayment to yearly payment starts from December 2020 effected to the amount of long-term liability which have to be paid annually in current liabilities, resulted in the proportion of current liabilities to total liabilities decreased from 11.75% in 2016 to 8.69% in 2017.

As a result of changes on the current asset and current liability resulted in the liquidity of the Company stood at 1.04 times in 2015 and 1.73 times in 2016 and 2.71 times in 2017. This was caused by the construction of most power plants completely constructed and able to do commercial electricity distribution already. The impact was on the increase in asset ratio of current assets to increasing total assets and the debt restructuring by issuing long- term debentures for repaying some short-term debts. This resulted in the decreasing ratio of current debt to total assets. The liquidity ratio of 2016 and 2017 then changed from 2015.

Source of fund

Liabilities

Total liabilities of the Company and subsidiaries as of 31 December 2015, 2016 and 2017 were THB 24,547.31million, THB 30,117.94 million and THB 29,786.80 million respectively, representing 74.26%, 72.56% and 66.89% of total asset respectively. Details of important liabilities are as follows:

- **Short-term loan from the financial institutions**

As of 31 December 2015, 2016 and 2017 short-term loan from the financial institution of the Company and subsidiaries were THB 1,690.43 million, THB 946.49 million and THB 882.01 million, representing 5.11%, 2.28%, 1.98% of total assets respectively. As of 31 December 2016, the short- term loans from financial institutions decreased due to lower biodiesel sale volume continued to the year 2017, the demand for using cycling capital reduced including the proceeds from the issuance of some debentures to repay short-term loans in 2016. As a result, the short- term loans from financial institutions on 31 December 2016 and 2017 decreased compared to the year 2015.

- **Payables for purchase of assets**

As of 31 December 2015, 2016 and 2017, the payables for purchased of assets of the Company and subsidiaries were THB 893.40 million, THB 135.65 million and THB 172.78 million or 2.70%, 0.33% and 0.39% of total assets respectively. The payables for purchased of assets on 31 December 2016 and 2017 were reduced from 2015 due most of solar and wind power plants have completed construction.

- **Long-term loan from the financial institution**

As of 31 December of year 2015, 2016 and 2017, the long-term loans from financial institution (maturity within one year) were THB 20,523.75 million, THB 19,432.08 million, and THB 18,818.59 million or 62.09%, 46.81% and 42.27% of total assets respectively. The Long-term loan from the financial institution incurred in the year 2015 was due to the drawdown of long-term loans from financial institutions for construction of 90-MW power plant in Phitsanulok and 126-MW power plant in Nakhornsithammarat - Songkhla in the year 2015 continued to 2016. However, during the 2016, the Company has utilized funds by issuing debenture to repay the entire loan incurred from 8-MW solar power plant in Lopburi and 90-MW solar power plant in Nakhornsawan. Consequently, the long-term loans from finance institution of the 2016 were reduced comparing to the 2015. For the balance of long-term loan on 31 December 2017 decreased by repayment as usual.

- **Retention for Constructions**

As of 31 December of year 2016 and 2017, the retention for constructions of the Company and subsidiaries were THB 878.61 million and THB 522.31 million, representing of 2.12% and 1.17% of total assets. The retention for constructions of 2016 was from 90-MW power plants in Phisanulok as well as 126 MW wind power plant in Nakhornsithammarat-Songkla. While, the retention for constructions of the year 2016 decreased by the refund of retention for 90-MW solar power plant at Phitsanulok. Currently, the balance of retention were only from 126 MW wind power plant at Nakhornsithammarat- Songkla.

Shareholders' equity

As of 31 December 2015, 2016 and 2017, shareholder's equity of the Company and subsidiaries steadily increased to 8,509.92 million THB, 11,389.45 million THB and 14,743.62 million THB, representing 25.74%, 27.44% and 33.11% of total asset respectively. The reasons is due to the increase of profit, consequently, the retained earnings of the Company has increased comparing to net profit of each year.

In 2015, the Annual General Meeting of Shareholders approved the dividend payment to shareholders at 0.02 THB per shares, totaling THB 74,600,000.00. The dividend was derived from business operation under BOI privilege in 2014. In 2016, the Annual General Meeting of Shareholders approved the dividend payment to shareholders at THB 0.10 per shares, totaling THB 373,000,000.00. The dividend was paid from the operating results of the year 2015 from BOI business in the rate of THB 0.05 per common share and from Non-BOI business in the rate of THB 0.05 per common share and in 2017, the Annual General Meeting of Shareholders approved the dividend payment to shareholders at THB 0.15 per shares, totaling THB 559,500,000.00. The dividend was derived from business operation under BOI privilege in 2016 divided into the rate of THB 0.075 per common share is from business operating under BOI and at the rate THB 0.075 per common share from Non-BOI business.

The shareholders' equity as at 31 December 2016 and 2017 showed other component of shareholders' equity as minus THB 46.95 million and minus THB 20.75 million as a result of the surplus from acquisition of investment of subsidiary (Surachai (1977) Co., Ltd.) that higher than the book value of the subsidiary as of the acquired date, valued at THB 0.99 million and lower cost of acquisition of investment in a subsidiary (EA Solar Co., Ltd.) was added at a price higher than the book value of the accounts of the subsidiary. As of the acquisition date, the value was minus THB 47.94 million. Details of each transaction are as follows:

- Capital Surplus from acquisition of investment of subsidiary raised to THB 0.99 million : On 20 August 2012, the Company acquired 2,800 ordinary shares of Surachai (1977) Co., Ltd., from existing shareholders, at the price of THB 1,000 per share, totaling THB 2.80 million. After the acquisition of investment, the ratio of ordinary shares held by the Company in such subsidiary was increased from 75% to 98.33% of total registered capital. The differential between share subscribed and book value of the subsidiary was THB 0.99 million.
- Deficit from acquisition of investment in subsidiary raised to THB 47.94 million : On 17 August 2012, the Company acquired 293,999 ordinary shares of EA Solar Co., Ltd., from existing shareholders, at the price of THB 248.06 per share, totaling THB 72.93 million. After the acquisition of investment, the ratio of ordinary shares held by the Company in such subsidiary increased from 34.30% to 49.00% of total registered capital of the subsidiary. The differential between share subscribed and book value of the subsidiary was THB 47.94 million.
- In 2017, the company raised some investment in Energy Mahanakhon Co.,Ltd. the direct subsidiary, the investor acquired remaining 5,000,000 shares at the price THB 22 per share, totaling THB 110 million (the differences of share value is THB 12 per share amounted to THB 60 million) . As resulted in the ratio of shares held by the Company in Energy Mahanakhon Co.,Ltd. decreased from 99.99% to 66.67% of paid-up registered capital. The Company recognized the non-controlling interest as THB 20 million and the surplus from said investment amounted to THB 40 million in other components of shareholders' equity.
- During 2017, Since the vestment in foreign company i.e. the investment in newly issued ordinary shares and from its existing shareholders of Amita Technologies Inc. (registered in the Taiwan Stock Exchange), and the Joint venture establishment with Shenzhen Growatt Power Technology Co., Ltd in China, resulted in recognition of other comprehensive income and loss from currency conversion in Financial Statements of Investments in Joint Ventures totaling THB 13.80 million.

As of 31 December 2015, 2016 and 2017, Debt to Equity ratio (D/E) of the Company and subsidiaries were 2.88 times, 2.64 times and 2.02 times respectively. The decrease of Debt to Equity in 2016 and 2017 due to the reduction in the amount of loan drawdown for construction of power plants as most of the construction was completed in 2016. For commercially operated power plants, due to the gradual repayment of loan principal, consequently, the liability from loans was reduced as well. Meanwhile, as the Company incurred profit continuously. Under such circumstance, it resulted in the increasing retained earnings and shareholders' equity causing the debt proportion to equity in 2016 to 2017.

Cash flow

The Company and subsidiaries' cash ow received from operating activities during the accounting year 2015, 2016 and 2017 were THB 3,455.81 million, THB 4,951.46 million, and THB 6,221.38 million, respectively. The increase of cash flow followed the continual growth and the adjustment which was not affected the cash flow such as the depreciation and amortization and loss from unrealized exchange rate etc. All these were after the distribution of solar power plants in Nakhornsawan and, Lampang and Phitsunulok, and wind power plant in Nakhornsithammarat- Songkla.

For cash receipts from (used in) operating activities, during the accounting year of 2015, 2016and 2017 were THB 12,911.07 million, THB 7,834.94 million, and THB 2,122.80 million respectively the cash flow continually decreased due to large amount of the fund sourcing for the investment in 2015-2016 from solar power plant in Phisanulok and wind power plant projects in Nakhornsithammarat- Songkla, 2017. In addition, the Company commenced in use of some fund sourcing for the construction of wind power plant projects (Hanumarn Project), though it is still in smaller ratio as compared to the overall of the project value.

The cash receipts from activities, during the accounting year of 2015, 2016 were THB 9,495.26 million, THB 4,946.42 million, respectively. The fund raising in 2015– 2016 acquired through long-term loan from financial institutions, the issuance of bonds in accordance the with business expansion plan on production and distribution of alternative energy of the Company group, the construction of each project completed for commercially operated resulted in decrement of fund utilization in 2017 as cash flow received from activities amounted to THB 2,265.67 million from the paid of Lon-term loan principle an annually dividend payment as of ending year 31 December 2016 and 2017 are summarized as follows:

Unit: Million THB		
Cash flows from financing activities	2016	2017
Net cash received from (used in) operating activities	4,951.45	6,221.38
Net cash received from (used in) operating activities	(7,834.94)	(2,122.80)
Cash ow received from (used in) operating activities	4,946.42	(2,265.67)
Increase (decrease) of net cash	2,062.93	1,832.91
Cash and cash equivalentents at beginning of year	609.81	2,672.74
Cash and cash equivalentents at ending of year	2,672.74	4,505.65

Report of the Board of Directors

Responsibilities for Financial Statements

The Board of Directors is responsible for the Company's financial statements and financial information presented in this Annual Report. The aforementioned financial statements have been prepared in accordance with Thai Generally Accepted Accounting Principles, using appropriate accounting policies consistently employed by the Company after applying prudent judgment and best estimation.

The important information is adequately disclosed in the notes to the financial statements. The Board of Directors has provided for and maintained efficient internal control systems to ensure that accounting records are accurate, complete and adequate to protect the Company's assets and uncover weaknesses in order to prevent fraud or materially irregular operations. To accomplish this task, the Board of Directors has appointed the Audit Committee, which consists fully of Independent Directors and the Committee is, inter alia responsible for the quality of financial statements and internal control systems, with the Committee's comments on these issues included in the Audit Committee Report in this Annual Report.

The Board of Directors is of the opinion that the Company's overall internal control system has functioned up to a satisfactory level to render credibility and reliability to the Company's financial statements for the year ended December 31, 2017.

For and on behalf of the Board of Directors of
Energy Absolute Public Company Limited



(Mr. Somchainuk Engtrakul)

Chairman of the Board

28 February 2018

Independent Auditor's Report

To the shareholders of Energy Absolute Public Company Limited

My opinion

In my opinion, the consolidated financial statements of Energy Absolute Public Company Limited ("the Company") and its subsidiaries ("the Group") and the separate financial statements of the Company present fairly, in all material respects, the consolidated and separate financial position of the Group and of the Company as at 31 December 2017, 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 ("TFRSs").

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 2017;
- 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 a summary of significant accounting policies.

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 Federation of Accounting Professions under the Royal Patronage of his Majesty the King's Code of Ethics for Professional Accountants together with the ethical requirements 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 judgment, were of most significance in my audit of the consolidated and separate financial statements of the current period. I determine one key audit matter: Acquisition of investment in an associate. The matter was 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 the matter.

Key audit matter	How my audit addressed the key audit matter
<p>Acquisition of investment in an associate</p> <p>As disclosed in note 13.3 - Investment in an associate, the Company paid cash consideration of Baht 987.18 million to acquire 25.46 million ordinary shares of of Amita Technologies Inc. ("Amita") which engages in developing and manufacturing lithium-ion polymer battery. Management identified the acquisition of Amita as an investment in an associate by applying the definition in TAS 28 (revised 2016) "Investments in Associates and Joint Venture" and the accounting standard requires the management to apply the concepts in TFRS 3 (revised 2016) "Business Combination" for the purpose of determining fair value of the net identifiable assets acquired and reviewing purchase price allocation ("PPA"). The fair value of net identifiable assets are presented as part of investment cost.</p> <p>The management determined that the fair value of the net identifiable assets acquired in Amita is Baht 937.92 million, mainly comprised Baht 410.44 million relating to patents and of Baht 140.06 million relating to brand and the fair value of the liabilities assumed is Baht 241.10 million. The valuation of net identifiable assets acquired was performed as a part of the purchase price allocation.</p> <p>I focused on this matter because the valuation methodology and assumptions used in the financial model involved significant judgment made by the management. Key assumptions used for the valuation of patents and brand included revenue growth rates, royalty rates and discounted rates.</p>	<p>I performed the following procedures in order to obtain evidence of the management's assessment of acquisition of investment in Amita and determination of fair value of net identifiable assets acquired:</p> <ul style="list-style-type: none"> • Reviewed management's assessment that the acquisitions of investment in Amita should be accounted for as the investment in an associate. • Assessed the appropriateness of the identifiable assets acquired and the liabilities assumed at the acquisition date and also evaluated management's procedures for determining the fair values of the net identifiable assets acquired. • Tested the calculation of fair values of the patents and brand and also challenged management's judgement in relation to the following: <ul style="list-style-type: none"> - the assumptions used in the fair value estimation of the patents and brand which comprise revenue growth rates and royalty rates, and also compared these assumptions to the available public information, and - the discounted rate by assessing the model of the cost of capital and other inputs into the model. <p>As a result of the procedure performed, I determined that the assessment of the acquisition of the investment was appropriately performed in accordance with the definition and requirement set out in TAS 28 (revised 2016) and the assumptions used in identifying the fair values of patents and brand were reasonable and in line with the accounting for the purchase price allocation.</p>

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 TFRSs, 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 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 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 judgment 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

28 February 2018

Energy Absolute Public Company Limited
Statement of Financial Position
As at 31 December 2017

		Consolidated		Separate	
		2017	2016	2017	2016
	Notes	Baht	Baht	Baht	Baht
Assets					
Current assets					
Cash and cash equivalents	7	4,505,653,829	2,672,742,076	1,241,254,489	652,562,805
Deposits at financial institutions used as collateral	8	-	1,365,847,365	-	-
Trade accounts receivable	9	1,706,908,038	1,319,150,414	312,092,298	270,868,624
Other accounts receivable	10	679,584,496	585,258,226	358,470,976	242,641,152
Short-term loans to other parties and related parties	35.4	2,192,550	2,192,550	1,319,842,550	601,192,550
Inventories, net	11	127,943,304	187,023,041	125,029,587	177,677,551
Total current assets		7,022,282,217	6,132,213,672	3,356,689,900	1,944,942,682
Non-current assets					
Deposits at financial institutions used as collateral	8	100,968,715	424,218,648	100,968,715	100,858,680
Advance payment for purchase of investment	12	-	685,908,739	-	685,908,739
Investment in an associate	13	916,481,064	-	987,180,248	-
Investments in subsidiaries	13	1	1	16,647,816,001	14,983,679,351
Investment in a joint venture	13	3,379,988	-	8,754,240	-
Long-term loans to a related party	35.4	-	-	66,900,000	71,400,000
Investment property	14	34,705,517	32,983,093	1,034,525,795	956,891,986
Property, plant and equipment, net	15	35,219,562,610	33,485,318,765	504,337,627	559,116,647
Intangible assets, net	16	977,162,453	665,890,718	10,180,387	9,764,408
Deferred tax assets, net	17	68,776,389	23,813,014	3,962,898	2,243,917
Other non-current assets	18	187,100,008	57,045,586	16,247,665	13,589,224
Total non-current assets		37,508,136,745	35,375,178,564	19,380,873,576	17,383,452,952
Total assets		44,530,418,962	41,507,392,236	22,737,563,476	19,328,395,634

Energy Absolute Public Company Limited
Statement of Financial Position
As at 31 December 2017

		Consolidated		Separate	
		2017	2016	2017	2016
Notes		Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term loans from financial institutions	19	882,009,880	946,490,872	882,009,880	946,490,872
Short-term loans from related parties	35.5	-	-	54,000,000	54,000,000
Trade accounts payable		91,431,745	61,617,701	91,418,977	61,366,777
Other accounts payable	20	491,684,090	358,086,215	151,702,890	147,551,493
Construction payables and payables for purchase of assets		172,784,081	135,652,169	8,463,700	-
Current portion of long-term loans from financial institutions, net	21	429,750,000	1,644,104,336	-	-
Current portion of finance lease liabilities, net		835,590	7,063,038	-	1,723,092
Income tax payable		71,469	12,512	-	-
Retention for constructions		518,439,046	385,237,801	-	-
Total current liabilities		2,587,005,901	3,538,264,644	1,187,595,447	1,211,132,234
Non-current liabilities					
Long-term loans from financial institutions, net	21	18,388,840,056	17,787,977,633	-	-
Debentures, net	22	7,993,663,630	7,991,405,471	7,993,663,630	7,991,405,471
Retention for constructions		3,868,469	493,369,568	-	-
Finance lease liabilities, net		3,811,434	1,045,866	-	-
Retirement benefit obligations		7,711,625	6,512,038	5,054,877	4,185,367
Advance receipts for land rental	35.6	-	-	573,012,298	599,285,020
Provision for decommissioning costs	23	801,897,106	299,361,436	1,592,750	1,592,750
Total non-current liabilities		27,199,792,320	26,579,672,012	8,573,323,555	8,596,468,608
Total liabilities		29,786,798,221	30,117,936,656	9,760,919,002	9,807,600,842

Energy Absolute Public Company Limited
Statement of Financial Position
As at 31 December 2017

	Note	Consolidated		Separate	
		2017	2016	2017	2016
		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	24	37,300,000	37,300,000	37,300,000	37,300,000
Unappropriated		10,597,429,043	7,339,478,923	8,885,728,474	5,429,878,792
Other components of equity		(20,746,219)	(46,944,910)	-	-
Equity attributable to owners					
of the parent		14,667,598,824	11,383,450,013	12,976,644,474	9,520,794,792
Non-controlling interests		76,021,917	6,005,567	-	-
Total equity		14,743,620,741	11,389,455,580	12,976,644,474	9,520,794,792
Total liabilities and equity		44,530,418,962	41,507,392,236	22,737,563,476	19,328,395,634

Energy Absolute Public Company Limited
Statement of Comprehensive Income
For the year ended 31 December 2017

		Consolidated		Separate	
		2017	2016	2017	2016
	Notes	Baht	Baht	Baht	Baht
Revenue from sales	25	6,908,581,366	6,688,255,521	4,486,429,993	4,901,945,516
Revenue from subsidy for adders	26	4,670,936,269	3,704,139,145	-	-
Dividend income	13.2	-	-	4,386,628,505	2,078,860,211
Other income	27	93,983,851	46,857,921	112,611,172	113,423,524
Total revenue		11,673,501,486	10,439,252,587	8,985,669,670	7,094,229,251
Cost of sales		(6,045,566,707)	(5,637,292,642)	(4,273,759,855)	(4,486,261,341)
Selling expenses		(58,610,100)	(47,673,346)	(58,610,100)	(47,673,346)
Administrative expenses		(608,422,006)	(410,237,499)	(347,349,417)	(280,592,304)
Currency exchange gains (losses), net		60,859,420	(102,177,769)	1,684,389	49,219
Finance costs	28	(1,184,324,105)	(994,886,746)	(294,003,986)	(181,536,910)
Total expense		(7,836,063,498)	(7,192,268,002)	(4,972,038,969)	(4,996,014,682)
Share of loss from investments in an associate and a joint venture	13	(62,272,139)	-	-	-
Profit before income tax		3,775,165,849	3,246,984,585	4,013,630,701	2,098,214,569
Income tax	30	42,300,429	5,501,971	1,718,981	5,153,319
Profit for the year		3,817,466,278	3,252,486,556	4,015,349,682	2,103,367,888
Other comprehensive income					
Item that will be reclassified subsequently to profit or loss					
Share of other comprehensive expense of an associate and a joint venture accounted for using the equity method	13	(13,801,297)	-	-	-
Income tax on items that will be reclassified subsequently to profit or loss		-	-	-	-
Other comprehensive expense for the period, net of tax		(13,801,297)	-	-	-
Total comprehensive income for the year		3,803,664,981	3,252,486,556	4,015,349,682	2,103,367,888
Profit attributable to:					
- Owners of the parent		3,817,450,120	3,251,506,046	4,015,349,682	2,103,367,888
- Non-controlling interests		16,158	980,510	-	-
		3,817,466,278	3,252,486,556	4,015,349,682	2,103,367,888
Total comprehensive income attributable to:					
- Owners of the parent		3,803,648,823	3,251,506,046	4,015,349,682	2,103,367,888
- Non-controlling interests		16,158	980,510	-	-
		3,803,664,981	3,252,486,556	4,015,349,682	2,103,367,888
Earnings per share					
Basic earnings per share	31	1.02	0.87	1.08	0.56

Energy Absolute Public Company Limited
Statement of Changes in Equity
For the year ended 31 December 2017

	Attributable to owners of the parent											Consolidated		
	Retained earnings			Other components of equity										
				Surplus (Discount) from changes in shareholding interests in subsidiaries		Share of other comprehensive expense		Total other components of equity		Total owners of the parent			Non-controlling interests	
	Share of other comprehensive expense of an associate and a joint venture													
Notes	Issued and paid-up share capital	Premium on share capital	Legal reserve	Unappropriated	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Total equity
	373,000,000	3,680,616,000	37,300,000	4,460,972,877		(46,944,910)	-	(46,944,910)	8,504,943,967	4,975,057	8,509,919,024			
	-	-	-	-	-	-	-	-	-	50,000	50,000			
32	-	-	-	(373,000,000)	-	-	-	-	(373,000,000)	-	(373,000,000)			
	-	-	-	3,251,506,046	-	-	-	-	3,251,506,046	980,510	3,252,486,556			
	373,000,000	3,680,616,000	37,300,000	7,339,478,923		(46,944,910)	-	(46,944,910)	11,383,450,013	6,005,567	11,389,455,580			
	373,000,000	3,680,616,000	37,300,000	7,339,478,923		(46,944,910)	-	(46,944,910)	11,383,450,013	6,005,567	11,389,455,580			
	-	-	-	-	-	-	-	-	-	70,000,192	70,000,192			
32	-	-	-	(559,500,000)	-	-	-	-	(559,500,000)	-	(559,500,000)			
13.2	-	-	-	-	39,999,988	-	-	39,999,988	39,999,988	-	39,999,988			
	-	-	-	3,817,450,120	-	-	(13,801,297)	(13,801,297)	3,803,648,823	16,158	3,803,664,981			
	373,000,000	3,680,616,000	37,300,000	10,597,429,043		(6,944,922)	(13,801,297)	(20,746,219)	14,667,598,824	76,021,917	14,743,620,741			

Energy Absolute Public Company Limited
Statement of Changes in Equity
For the year ended 31 December 2017

		Retained earnings						Separate
		Issued and paid-up share capital	Premium on share capital	Legal reserve	Unappropriated	Total equity		
	Note	Baht	Baht	Baht	Baht	Baht		
Opening balance as at 1 January 2016		373,000,000	3,680,616,000	37,300,000	3,699,510,904	7,790,426,904		
Changes in equity for the year								
Dividend paid	32	-	-	-	(373,000,000)	(373,000,000)		
Total comprehensive income for the year		-	-	-	2,103,367,888	2,103,367,888		
Closing balance as at 31 December 2016		373,000,000	3,680,616,000	37,300,000	5,429,878,792	9,520,794,792		
Opening balance as at 1 January 2017		373,000,000	3,680,616,000	37,300,000	5,429,878,792	9,520,794,792		
Changes in equity for the year								
Dividend paid	32	-	-	-	(559,500,000)	(559,500,000)		
Total comprehensive income for the year		-	-	-	4,015,349,682	4,015,349,682		
Closing balance as at 31 December 2017		373,000,000	3,680,616,000	37,300,000	8,885,728,474	12,976,644,474		

Energy Absolute Public Company Limited
Statement of Cash Flows
For the year ended 31 December 2017

	Notes	Consolidated		Separate	
		2017	2016	2017	2016
		Baht	Baht	Baht	Baht
Cash flows from operating activities					
Profit before income tax for the year		3,775,165,849	3,246,984,585	4,013,630,701	2,098,214,569
Adjustments to reconcile profit before income tax to net cash provided by operations:					
- Depreciation and amortisation		1,527,806,340	1,115,587,513	96,198,063	96,709,718
- (Reversal of) allowance for decrease in value of raw materials	11	15,450,791	(3,629,960)	15,450,791	(3,629,960)
- Interest income		(19,105,674)	(24,003,146)	(41,961,302)	(41,095,304)
- Dividend income	13.2	-	-	(4,386,628,505)	(2,078,860,211)
- Finance costs		1,184,324,105	994,886,746	294,003,986	181,536,910
- Retirement benefit expenses		1,199,587	1,539,815	869,510	808,738
- Share of loss from investments in an associate and a joint venture	13	62,272,139	-	-	-
- Amortisation of deferred financing fee of unused loan facilities		-	24,650,000	-	24,650,000
- Gains on disposal of investment property		-	-	-	(1,295,198)
- Losses (gains) on disposal of equipment		95,976	4,632,892	(969,819)	1
- Unrealised losses on exchange rates		22,872,687	12,678,664	-	-
- Amortisation of advance receipts for land rental	35.1	-	-	(56,733,306)	(57,644,541)
Cash flows before changes in operating assets and liabilities		6,570,081,800	5,373,327,109	(66,139,881)	219,394,722
Change in operating assets and liabilities:					
- Trade accounts receivable		(387,757,624)	(267,549,022)	(41,223,674)	(23,497,207)
- Other accounts receivable		(94,267,088)	(187,583,010)	(54,762,720)	(60,512,675)
- Inventories		43,628,946	(8,128,226)	37,197,173	(9,320,151)
- Other non-current assets		(35,868,688)	13,543,678	111,974	32,360,096
- Trade accounts payable		29,814,044	(27,721,105)	30,052,200	(25,540,011)
- Other accounts payable		104,613,391	91,356,267	3,839,571	(4,209,654)
Cash generated from (used in) operations		6,230,244,781	4,987,245,691	(90,925,357)	128,675,120
- Income tax paid		(8,861,609)	(35,794,114)	-	(10,022,941)
Net cash receipts from (payments in) operating activities		6,221,383,172	4,951,451,577	(90,925,357)	118,652,179

Energy Absolute Public Company Limited

Statement of Cash Flows

For the year ended 31 December 2017

		Consolidated		Separate	
		2017	2016	2017	2016
	Notes	Baht	Baht	Baht	Baht
Cash flows from investing activities					
Deposits at financial institutions used as collateral		1,689,097,298	1,039,450,901	(110,035)	(110,316)
Proceeds from short-term loans to related parties	35.4	-	-	361,500,000	312,300,000
Payments for short-term loans to related parties	35.4	-	(500,000)	(1,080,150,000)	(770,500,000)
Proceeds from long-term loans to related parties	35.4	-	-	4,500,000	-
Advance payment for purchase of investment	12	-	(685,908,739)	-	(685,908,739)
Payments for investments in subsidiaries	13.2	-	-	(1,664,136,650)	(7,691,600,000)
Payments for investment in an associate	13.3	(301,271,509)	-	(301,271,509)	-
Payments for investment in a joint venture	13.4	(8,754,240)	-	(8,754,240)	-
Payments for purchase of investment property		(241,072)	-	(76,152,457)	(17,936,644)
Proceeds from disposals of investment property		-	-	-	28,311,319
Payments for purchase of property, plant and equipment		(3,378,788,874)	(7,894,548,038)	(38,861,940)	(16,746,626)
Interest paid capitalised in property, plant and equipment		(140,818,834)	(313,241,629)	-	-
Proceeds from disposals of property, plant and equipment		3,289,627	-	3,952,728	-
Payments for purchase of intangible assets		(4,358,430)	(4,157,989)	(1,744,058)	(4,053,109)
Proceeds from dividend income		-	-	4,386,628,505	2,078,860,211
Proceeds from interest income		19,046,492	23,960,642	11,354,782	26,620,578
Net cash receipts from (payments in) investing activities		(2,122,799,542)	(7,834,944,852)	1,596,755,126	(6,740,763,326)
Cash flows from financing activities					
Proceeds from short-term loans from financial institutions		3,138,460,872	4,556,765,379	3,138,460,872	4,122,530,490
Payments for short-term loans from financial institutions		(3,202,941,864)	(5,300,705,083)	(3,202,941,864)	(4,718,416,054)
Proceeds from long-term loans from financial institutions		247,088,876	4,630,148,600	-	-
Payments for long-term loans from financial institutions		(916,761,646)	(5,695,955,477)	-	(12,348,519)
Proceeds from issuing debenture		-	7,990,400,000	-	7,990,400,000
Payments for finance leases liabilities		(7,196,180)	(5,164,999)	(1,723,092)	(2,768,446)
Proceeds from capital contributions by non-controlling interests of subsidiaries		110,000,180	50,000	-	-
Dividend paid	32	(558,907,052)	(373,000,000)	(558,907,052)	(373,000,000)
Interest paid		(1,075,415,063)	(856,117,554)	(292,026,949)	(97,465,729)
Net cash receipts from (payments in) financing activities		(2,265,671,877)	4,946,420,866	(917,138,085)	6,908,931,742

Energy Absolute Public Company Limited

Statement of Cash Flows

For the year ended 31 December 2017

		Consolidated		Separate	
		2017	2016	2017	2016
Note		Baht	Baht	Baht	Baht
Net increase in cash and cash equivalents		1,832,911,753	2,062,927,591	588,691,684	286,820,595
Beginning balance		2,672,742,076	609,814,485	652,562,805	365,742,210
Ending balance		<u>4,505,653,829</u>	<u>2,672,742,076</u>	<u>1,241,254,489</u>	<u>652,562,805</u>
Cash and cash equivalents are made up as follows:					
- Cash on hand and deposits at financial institutions - maturities within three months	7	4,505,653,829	2,672,742,076	1,241,254,489	652,562,805
		<u>4,505,653,829</u>	<u>2,672,742,076</u>	<u>1,241,254,489</u>	<u>652,562,805</u>
Non-cash transactions					
- Changes in construction payables and payables for purchase of assets (including retention for constructions and advance payment for purchase of equipment)		(421,677,828)	(807,580,233)	5,693,285	-
- Provision for decommissioning costs		480,457,180	90,039,043	-	-
- Purchase of property, plant and equipment under finance lease agreements		3,734,300	1,364,143	-	-
- Transfer construction cost of high voltage station to right to use transmission line		345,594,827	270,599,554	-	-
- Transfer advance payment for purchase of investment to investment in an associate		685,908,739	-	685,908,739	-

Notes to the Consolidated and Separate Financial Statements

For the year ended 31 December 2017

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 Methyl Ester Biodiesel products and Glycerol and operating renewable power plants.

These consolidated and separate financial statements were authorised for issue by the Board of Directors on 28 February 2018.

2 Accounting policies

The principal accounting policies applied in the preparation of these consolidated and separate financial statements are set out below.

2.1 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai generally accepted accounting principles under the Accounting Act B.E. 2543, being those Thai Accounting Standards issued under the Accounting Profession Act B.E. 2547, and the financial reporting requirements of the Securities and Exchange Commission 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 accounting policies below.

The preparation of financial statements in conformity with Thai generally accepted accounting principles requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies and to disclose the areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements as disclosed in Note 4.

An English 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.

2.2 Revised financial reporting standards and accounting standards and related interpretations (collectively “the accounting standards”)

2.2.1 The accounting standards are effective for accounting periods beginning on or after 1 January 2017

The Group adopted the accounting standards, which are effective for accounting period beginning on or after 1 January 2017. There is no significant impact to the financial statements being present from the adoption of those standards by the Group.

2.2.2 The accounting standards are effective for accounting periods beginning on or after 1 January 2018 and not early adopted by the Group

TAS 7 (revised 2017)	Statement of cash flows
TAS 12 (revised 2017)	Income taxes
IFRS 12 (revised 2017)	Disclosure of interests in other entities

TAS 7 (revised 2017), the amendments require additional disclosure of changes in liabilities arising from financing activities. This includes changes arising from cash and non-cash.

2 Accounting policies (continued)

2.2 Revised financial reporting standards and accounting standards and related interpretations (collectively “the accounting standards”) (continued)

2.2.2 The accounting standards are effective for accounting periods beginning on or after 1 January 2018 and not early adopted by the Group (continued)

TAS 12 (revised 2017), the amendments clarify the accounting for deferred tax where an asset is measured at fair value and that fair value is below the asset's tax base. Specifically, the amendments confirm that:

- A temporary difference exists whenever the carrying amount of an asset is less than its tax base at the end of the reporting period.
- An entity can assume that it will recover an amount higher than the carrying amount of an asset to estimate its future taxable profits.
- Where the tax law restricts the source of taxable profits against which particular types of deferred tax assets can be recovered, the recoverability of the deferred tax assets can only be assessed in combination with other deferred tax assets of the same type.
- Tax deductions resulting from the reversal of deferred tax assets are excluded from the estimated future taxable profits.

TFRS 12 (revised 2017), the amendments clarify that the disclosure requirements of TFRS 12 apply to interests in entities that are classified as held for sale according to TFRS 5 (revised 2017), except for the summarised financial information.

The Group's management has assessed and considered that the above revised standards will not have a material impact on the Group except for disclosure.

2.3 Group accounting - investments in subsidiaries and associates and in joint arrangements

2.3.1 Subsidiaries

Subsidiaries are all entities (including structured 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 fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

The Group applies the acquisition method to account for business combinations except business combination under common control. The consideration transferred for the acquisition of a subsidiary is the fair value of the assets transferred, the liabilities incurred to the former owners of acquiree and the equity interests issued by the Group. The consideration transferred includes the fair value of any asset or liability resulting from a contingent consideration arrangement. Acquisition-related costs are expensed as incurred. Identifiable assets acquired and liabilities 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 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.

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.

Any contingent consideration to be transferred by the Group is recognised at fair value at the acquisition date. Subsequent changes to the fair value of the contingent consideration that is deemed to be an asset or liability is recognised in profit or loss. Contingent consideration that is classified as equity is not re-measured, and its subsequent settlement is accounted for within equity.

The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired is recorded as goodwill. If the total of consideration transferred, non-controlling interest recognise and previously held interest measured is less than the fair value of the net assets of the subsidiary acquired in the case of a bargain purchase, the difference is recognised directly in profit or loss.

2 Accounting policies (continued)

2.3 Group accounting - investments in subsidiaries and associates and in joint arrangements (continued)

2.3.1 Subsidiaries (continued)

Intercompany transactions, balances and unrealised gains on transactions between group companies are eliminated. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the transferred asset. Accounting policies of subsidiaries have been changed to ensure consistency with the policies adopted by the Group.

A list of the Group's subsidiaries is shown in Note 13.2.

2.3.2 Transaction with non-controlling interests

The Group treats transactions with non-controlling interests as transactions with equity owners of the Group. For purchases from non-controlling interests, the difference between any consideration paid and the relevant share acquired of the carrying value of net assets of the subsidiary is recorded in equity. Gains or losses on disposals to non-controlling interests are also recorded in equity.

2.3.3 Disposal of subsidiaries

When the Group ceases to have control it shall ceased to consolidate its subsidiaries. Any retained interest in the entity is re-measured to its fair value, with the change in carrying amount recognised in profit or loss. The fair value is the initial carrying amount for the purposes of subsequently accounting for the retained interest as an associate, joint venture or financial asset. In addition, any amounts previously recognised in other comprehensive income in respect of that entity are accounted for as if the Group had directly disposed of the related assets or liabilities.

2.3.4 Associates

Associates are all entities over which the Group has significant influence but not control, generally accompanying a shareholding of between 20% and 50% of the voting rights. In the consolidated financial statements, investments in associates are accounted for using the equity method of accounting.

A list of the Group's a principal associate is shown in Note 13.3.

2.3.5 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 operations

A joint operation is a joint arrangement whereby the Group has rights to the assets, and obligations for the liabilities relating to the arrangement. The Group recognises its direct right to the assets, liabilities, revenues and expenses of joint operations and its share of any jointly held or incurred assets, liabilities, revenues and expenses. These have been incorporated in the financial statements under the appropriate headings.

Joint venture

A joint venture is a joint arrangement whereby the Group has rights to the net assets of the arrangement. In the consolidated financial statements, interests in joint ventures are accounted for using the equity method.

A list of the Group's a principal joint venture is shown in Note 13.4.

2 Accounting policies (continued)

2.3 Group accounting - investments in subsidiaries and associates and in joint arrangements (continued)

2.3.6 Accounting under equity method

Under the equity method, the investment is initially recognised at cost, and the carrying amount is increased or decreased to recognise the investor's share of the profit or loss of the investee after the date of acquisition. The Group's investment in associates and joint ventures includes goodwill identified on acquisition.

If the ownership interest in associates and joint ventures is reduced but significant influence 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 reduction of the ownership interest in an associate and joint ventures is recognised in profit or loss.

The Group's share of its associates and joint ventures' post-acquisition profits or losses is recognised in the profit or loss, and its share of post-acquisition movements in other comprehensive income is recognised in other comprehensive income. The cumulative post-acquisition 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, together with any long-term interests that, in substance, form part of the entity's net investment in the associates or 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.

The Group determines at each reporting date whether there is any objective evidence that the investments in the associates and joint ventures are impaired. If this is the case, the Group calculates the amount of impairment as the difference between the recoverable amount of the investments and its carrying value and recognises the amount adjacent to share of profit (loss) of associates and joint ventures in profit or loss.

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 unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates and joint ventures have been changed where necessary to ensure consistency with the policies adopted by the Group.

2.3.7 Separate financial statements

In the separate financial statements, investments in subsidiaries, associates and joint ventures are accounted for at cost less impairment. Cost is adjusted to reflect changes in consideration arising from contingent consideration amendments. Cost also includes direct attributable costs of investment.

A test for impairment for investments in subsidiaries, associates and joint ventures is carried out when there is a factor indicating that investments might be impaired. If the carrying value of the investments is higher than its recoverable amount, impairment loss is charged to the profit or loss.

2.4 Foreign currency translation

2.4.1 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 Company's functional and the Group's presentation currency.

2.4.2 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.

When a gain or loss on a non-monetary item is recognised in other comprehensive income, any exchange component of that gain or loss is recognised in other comprehensive income. Conversely, when a gain or loss on a non-monetary item is recognised in profit and loss, any exchange component of that gain or loss is recognised in the profit or loss.

2 Accounting policies (continued)

2.4 Foreign currency translation (continued)

2.4.3 Group companies

The results and financial position of all 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 of each statement of comprehensive income are translated at average exchange rates; and
- All resulting exchange differences are recognised as other comprehensive income in the statement of 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.

2.5 Cash and cash equivalents

In the statements of cash flows, cash and cash equivalents includes cash in hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less and bank overdrafts. In the statements of financial position, bank overdrafts are shown in current liabilities.

2.6 Trade accounts receivable

Trade accounts receivable are carried at the original invoice amount and subsequently measured at the remaining amount less any allowance for doubtful receivables based on a review of all outstanding amounts at the year-end. The amount of the allowance is the difference between the carrying amount of the receivable and the amount expected to be collectible. Bad debts are written-off during the year in which they are identified and recognised in profit or loss within administrative expenses.

2.7 Inventories

Inventories are stated at the lower of cost and net realisable value. Cost is determined by the first-in, first-out 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 design costs, 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.

2 Accounting policies (continued)

2.8 Construction contracts

A construction contract is a contract specifically negotiated for the construction of an asset or a combination of assets that are closely interrelated or interdependent in terms of their design, technology and functions or their ultimate purpose or use.

When the outcome of a construction contract cannot be estimated reliably, contract revenue is recognised to the extent of contract costs incurred where it is probable those costs will be recoverable. Contract costs are recognised as expenses in the period in which they are incurred.

When the outcome of a construction contract can be estimated reliably and it is probable that the contract will be profitable, contract revenue is recognised over the period of the contract. When it is probable that total contract costs will exceed total contract revenue, the expected loss is recognised as an expense immediately.

Costs incurred in the year in connection with future activity on a contract are excluded from contract costs in determining the stage of completion. They are presented as inventories, prepayments or other assets, depending on their nature.

The Group presents as an asset the gross amount due from customers for contract work for all contracts in progress and for which costs incurred plus recognised profits (less recognised losses) exceed progress billings. Progress billings not yet paid by customers and retention are included within 'other accounts receivables'. The Group presents as a liability the gross amount due to customers for contract work for all contracts in progress for which progress billings exceed costs incurred plus recognised profits (less recognised losses).

2.9 Investment property

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 its cost, including related transaction costs and borrowing costs. Borrowing costs are incurred for the purpose of acquiring, constructing or producing a qualifying investment property are capitalised as part of its cost. Borrowing costs are capitalised while acquisition or construction is actively underway and cease once the asset is substantially complete, or suspended if the development of the asset is suspended.

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.

After initial recognition, investment property is carried at cost less any accumulated depreciation and any accumulated impairment losses.

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.

2 Accounting policies (continued)

2.10 Property, plant and equipment

All property, plant and equipment are initially recorded at cost. Subsequently all plant and equipment are stated at historical cost less accumulated depreciation and impairment. 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 is calculated using the straight-line method to write off the cost of each asset to its residual value over its estimated useful life, except land which is considered to have an indefinite life, as follows:

	Years
Buildings and structures	10, 20 and 25
Buildings improvement	5, 6 and 10
Machines, equipment	5 and 10
Power plant and its components	10 and 25
Office equipment, furniture and computers	5
Motor vehicles	5

The assets' residual values and useful lives are reviewed and adjusted if appropriate, at the end of each reporting period.

The asset's carrying amount is written-down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount.

Gains and losses on disposals of assets are determined by comparing proceeds with the carrying amount and are recognised in the profit or loss.

Borrowing costs that are directly attributable to the acquisition or construction of a qualifying asset are capitalised as part of the cost of that asset, during the period of time required to complete and prepare the asset for its intended use. All other borrowing costs are recognised as expenses in the income statement. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

All other borrowing costs are recognised in profit or loss in the period in which they are incurred.

2.11 Intangible assets

2.11.1 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.

2.11.2 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.

2.11.3 Computer software

Computer software development costs recognised as assets are 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.

2 Accounting policies (continued)

2.12 Goodwill

Goodwill represents the excess of the consideration transferred over the fair value of the Group's share of the net identifiable assets liabilities and contingent liability of the acquired subsidiary undertaking or joint venture or associate at the date of acquisition. Goodwill on acquisitions of subsidiaries is separately reported in the consolidated statement of financial position and of joint ventures or associate is included in investments in joint ventures or an associate in the consolidated statement of financial position and impairment test included in investment in joint venture or investment in as associate.

Goodwill is tested annually for impairment and carried at cost less accumulated impairment losses. Impairment losses on goodwill are not reversed. Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

Goodwill is allocated to cash generating units for the purpose of impairment testing. The allocation is made to those cash generating units or groups of cash generating units that are expected to benefit from the business combination in which the goodwill arose.

2.13 Impairment of assets

Assets that have an indefinite useful life, for example goodwill, are not subject to amortisation and are tested annually for impairment. Assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. 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 to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows. Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date.

2.14 Long-term lease

Leases - where the Group is the lessee

Leases in which a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases. Payments made under operating leases (net of any incentives received from the lessor) are charged to profit or loss on a straight-line basis over the period of the lease.

The Group leases certain property, plant and equipment. Leases of property, plant or equipment where the Group has substantially all the risks and rewards of ownership are classified as finance leases. Finance leases are capitalised at the inception of the lease at the lower of the fair value of the leased property and the present value of the minimum lease payments.

Each lease payment is allocated between the liability and finance charges so as to achieve a constant rate on the finance balance outstanding. The corresponding rental obligations, net of finance charges, are included in other long-term payables. The interest element of the finance cost is charged to profit or loss over the lease period so as to achieve a constant periodic rate of interest on the remaining balance of the liability for each period. The property, plant or equipment acquired under finance leases is depreciated over the shorter period of the useful life of the asset and the lease term.

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 using the net investment method, 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.

Assets leased out under operating leases are included in property, plant and equipment in the statement of financial position. They are depreciated over their expected useful lives on a basis consistent with other similar property, plant and equipment owned by the Group. Rental income (net of any incentives given to lessees) is recognised on a straight-line basis over the lease term.

2 Accounting policies (continued)

2.15 Borrowing

Borrowings are recognised initially at the fair value, net of transaction costs incurred. Borrowings are subsequently stated at amortised cost; any difference between proceeds (net of transaction costs) and the redemption value is recognised in profit or loss over the period of the borrowings using the effective yield method.

Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it is probable that some or all of the facility will be drawn down. In this case, the fee is deferred until the draw-down occurs. To the extent that there is no evidence that it is probable that some or all of the facility will be drawn down, the fee is capitalised as a pre-payment for liquidity services and amortised over the period of the facility to which it relates.

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 end of reporting date.

Where the Group negotiates with lenders to restructure the terms of existing long-term loans and resulting in the existing loans being modified to have substantially different terms, the modification is accounted for as an extinguishment of the original long-term loan and any costs or fees incurred are recognised as part of the gain or loss on extinguishment. If the modification is not accounted for as an extinguishment, any costs or fees incurred are adjusted to the carrying amount of the long-term loans and are amortised over the remaining term of the modified loans.

The terms are substantially different if the discounted present value of the cash flows under the new terms, including any fees paid net of any fees received and discounted using the original effective interest rate, is at least 10 percent different from the discounted present value of the remaining cash flows of the original loans.

2.16 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. In this case the tax is also recognised in other comprehensive income or directly in equity, respectively.

The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the end of reporting period in the countries where the Company and its subsidiaries operate and generate taxable income. 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 is recognised, using the liability method, on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements.

However, the deferred income tax is not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantively enacted by the end of the reporting period and are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled.

Deferred income 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 income tax is provided on temporary differences arising from investments in subsidiaries, associates and joint arrangements, except 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 assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred income tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the balances on a net basis.

2 Accounting policies (continued)

2.17 Employee benefits

The Group operate post-employment benefits schemes, which are defined contribution and defined benefit plans.

2.17.1 Defined contribution

The Group operates a provident fund that is a defined contribution plan funded by payments from employees and by 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 employee service in the current and prior periods. The Group recognises the contributions as employee benefit expense when they are due.

2.17.2 Retirement benefits

The Group provides for post-employment benefits, payable to employees under the labour laws. 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.

2.18 Provision

2.18.1 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 a reliable estimate of the amount can be made.

2.18.2 Provision for decommissioning costs

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 plants. The recognised provision 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 power plants.

2.19 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 compensation 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.

2 Accounting policies (continued)

2.20 Share capital

Ordinary shares and non-redeemable preference shares with discretionary dividends are classified as equity. Other shares including mandatory redeemable preference shares are classified as liabilities.

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.

2.21 Revenue recognition

Revenue from sales of goods is recognised when significant risks and rewards of ownership of the goods are transferred to the buyer.

Sales is shown net of value added tax and discounts. Sales under the Power Purchase Agreements (PPA) comprise Energy Payments. Energy Payments are calculated based on electricity delivered.

Interest income is recognised on an accrual basis unless collectability is in doubt.

Dividend income is recognised when the shareholder's right to receive payment is established.

2.22 Dividend distribution

Dividend distribution to the Group's shareholders is recognised as a liability in the financial statements in the period in which the dividends are approved by the shareholders. Interim dividend is recognised when it is approved by the board of directors.

2.23 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 Board of Directors that makes strategic decisions.

3 Financial risk management

3.1 Financial risk

The principal financial risks faced by the Group are interest rate, fixed rate and exchange rate risks. The Group borrows to finance its operations, which involve payments in floating and fixed rates of interest and purchase of fixed assets, which involved payments in foreign currency.

The objectives of using derivative financial instruments are to reduce the uncertainty over future cash flows arising from movements in interest rates and exchange rate and to manage the liquidity of cash resources. Interest rate exposure is managed through interest rate swap contracts. Exchange rate exposure is managed through foreign currency forward contracts.

Trading for speculative purposes is not allowed. All derivative transactions are subject to prior approval by the respective board of each company in the Group.

3 Financial risk management (continued)

3.2 Interest rate risk

The Group borrows at floating rates and uses interest rate swaps as cash flow hedges of future interest payments, which has the economic effect of converting borrowings from floating rates to fixed rates. The interest rate swaps allow the Group to raise long-term borrowings at floating rates and swap them into fixed rates that are lower than those available if the Group borrowed at fixed rates directly.

Under the interest rate swaps, the Group agrees with the other parties to exchange, at specified intervals (generally quarterly), the difference between fixed contract rates and floating rate interest amounts calculated by reference to the agreed notional principal amounts. Any differential to be paid or received on an interest rate swap agreement is recognised as a component of finance cost over the period of the agreement. Gains and losses on early termination of interest rate swaps or on repayment of the borrowing are taken to profit or loss.

3.3 Foreign exchange risk

The Group purchases machines and equipment which are denominated in foreign currency and uses foreign currency forward contracts as cash flow hedges of future cash payments, which has the economic effect of payment of foreign currency amounts at a predetermined exchange rate. The Group considers the economic effect of expected future foreign exchange rate movement and current foreign exchange rate.

Foreign currency forward contracts reduce exposure to fluctuations in exchange rates. Such contracts are made with a contract period up to one year.

3.4 Credit risk

The Group has no significant concentrations of credit risk relating to its cash on hand and cash at banks. The Group places its cash on hand and cash at banks with high quality financial institutions. The Group's policy is designed to limit exposure with any one institution and to invest its excess cash in low risk investment accounts. The Group has not experienced any losses on such accounts. For trade accounts receivable, the Group has policies to ensure that sales of biodiesel products are made to customers with appropriate credit profile. For sales of electricity, Group's sales are made to state-owned enterprises under the terms and conditions of the long-term Power Purchase Agreements.

3.5 Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and marketable securities, the availability of funding through an adequate amount of committed credit facilities, and the ability to close out market positions. Due to the dynamic nature of the underlying business, the Group treasury aims at maintaining flexibility in funding by keeping committed credit lines available.

3.6 Accounting for derivative financial instruments and hedging activities

The Group is party to derivative financial instruments, which mainly comprise foreign currency forward contracts and interest rate swap agreements. Such instruments are not recognised in the financial statements on inception.

Interest rate swap contracts protect the Group from movements in interest rates. Any differential to be paid or received on the interest rate swap contracts is recognised as a component of finance costs as incurred. Gains and losses from early cancellation of interest rate swap contracts is recognised in profit or loss.

Foreign currency forward contracts protect the Group from movements in exchange rates. Any differential to be paid or received on the foreign currency forward contracts is recognised as a component of currency exchange gains (losses) in the profit or loss as incurred.

Disclosures about financial instruments to which the Group is a party are provided in Note 34.

4 Critical accounting estimates, assumption 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.

During the year ended 2017, the Group makes estimates and assumptions concerning the future. The result of accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year is the estimate of the fair value of the net identifiable assets acquired from the acquisition of investment in an associate.

Estimate of the fair value of the net identifiable assets acquired from the acquisition of investment in an associate

The Group recognised the investment in an associate by determining fair value of the net identifiable assets acquired and performing purchase price allocation in accordance with the concepts in TFRS 3 (revised 2016) "Business Combination". The fair value of the net identifiable assets acquired mainly related to patents and brand which are presented as part of investment cost as described in Note 13.3.

The fair value of these acquired identifiable assets is based on valuation techniques. The valuation models require significant judgement and assumptions made by the management. Key assumptions used for the valuation include revenues growth rates, royalty rates and discounted rates. The management also make assumptions regarding the useful lives of the patents and brand.

5 Capital risk management

The Group's objectives when managing capital are to safeguard the Group's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders and to maintain an optimal capital structure to reduce the cost of capital.

In order to maintain or adjust the capital structure, the Group may return capital to shareholders, issue new shares, or sell assets to reduce debt.

9

The Group has five segments report which comprises of manufacturing and distributing methyl ester, biodiesel products, manufacturing and distributing high speed diesel oil, manufacturing and distributing pure glycerine products, manufacturing and distributing electricity from solar and wind power and consulting in the project regarding alternative electric energy. The chief operating decision-maker evaluates the segment's performance by using profit before income tax which is measured in the same basic as profit before income tax in the financial statements.

[illegible]

The Group generates revenue from sales and services by utilising the assets located in Thailand and all businesses are originated in Thailand.

For the year ended 31 December 2017, Group's revenue is based on 6 main customers from manufacturing and distributing methyl ester biodiesel products, and manufacturing and distributing electricity from solar and wind power plants who have transactions with the Group at 93% of total revenue or equivalent to Baht 10,784 million (2016: 4 main customers from manufacturing and distributing methyl ester biodiesel products, and manufacturing and distributing electricity from solar power plants who have transactions with the Group at 82% of total revenue or equivalent to Baht 8,530 million).

7 Cash and cash equivalents

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Cash on hand	286,467	275,746	41,770	36,338
Cash at banks in current accounts	125,943,972	21,967,805	34,216,896	3,069,473
Cash at banks in savings accounts	4,379,423,390	2,650,498,525	1,206,995,823	649,456,994
	<u>4,505,653,829</u>	<u>2,672,742,076</u>	<u>1,241,254,489</u>	<u>652,562,805</u>

As at 31 December 2017 and 2016, cash and cash equivalents mainly comprised cash at savings accounts with the banks. The interest rates were 0.13% - 0.75% per annum (2016: 0.13% - 0.75% per annum).

8 Deposits at financial institutions used as collateral

As at 31 December 2017, deposits at financial institutions of the Company amounting to Baht 101 million (2016: deposits at financial institutions of the Group and of the Company amounting to Baht 1,790 million and Baht 101 million, respectively) are pledged as collateral for long-term loans from financial institutions and for issuing the letters of guarantee by domestic commercial banks. The interest rates were 0.30% - 0.50% per annum (2016: 0.30% - 0.50% per annum).

As at 31 December 2017, the subsidiaries are not required to pledge their deposits at financial institutions as collateral for long-term loans since the subsidiaries and the lenders of long-term loans agreed to restructure terms and conditions of existing long-term loan agreements in which not require the pledge of the Group's assets and deposits at financial institutions as collateral for long-term loans (Note 21) (2016: Deposits at financial institutions used as collateral represented cash reserves which are provided from the proceeds of sales of electricity for the purpose of repayment of principal and payment of interest due within three months).

9 Trade accounts receivable

Outstanding trade accounts receivable as at 31 December are trade accounts receivable from third parties which can be analysed as follow:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Not due	1,706,908,038	1,319,150,414	312,092,298	270,868,624
Overdue below 3 months	-	-	-	-
Overdue 3 - 6 months	-	-	-	-
Total trade accounts receivable	<u>1,706,908,038</u>	<u>1,319,150,414</u>	<u>312,092,298</u>	<u>270,868,624</u>

10 Other accounts receivable

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Other accounts receivable				
- third parties	138,432,703	117,180,171	1,878,546	2,907,032
- related parties (Note 35.3)	-	-	212,752,698	153,333,176
Accrued service income	53,315,921	48,330,650	-	-
Prepaid expenses	26,050,649	25,110,755	17,754,765	14,109,463
Withholding tax receivables	-	9,462,714	-	9,462,714
Revenue department receivables	372,810,893	336,817,113	-	-
Undue input tax	12,343,073	4,355,151	720,085	871,159
Deposits for goods	68,770,041	7,109,716	68,196,788	30,227
Power plant development cost	-	9,316,778	54,679,099	54,668,709
Advance payment	7,515,647	27,288,790	2,143,426	6,972,284
Other	345,569	286,388	345,569	286,388
Total other accounts receivable	679,584,496	585,258,226	358,470,976	242,641,152

11 Inventories, net

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Raw materials	94,737,977	55,105,745	94,737,977	55,105,745
Work in process	35,919,830	78,131,722	35,919,830	78,131,722
Finished goods	6,136,541	40,006,713	6,136,541	40,006,713
Spare parts and supplies	13,633,969	20,813,083	10,720,252	11,467,593
	150,428,317	194,057,263	147,514,600	184,711,773
<u>Less</u> Allowance for decrease in value of raw materials	(22,485,013)	(7,034,222)	(22,485,013)	(7,034,222)
Inventories, net	127,943,304	187,023,041	125,029,587	177,677,551

The cost of inventories recognised as expense and included in cost of sales amounted to Baht 4,273.76 million (2016: Baht 4,486.26 million).

The Group recognised allowance for net realisable value of raw materials amounting to Baht 15.45 million (2016: The Group reversed Baht 3.63 million of a previous raw material write-down because such raw material was used to produce finished goods which were sold to other companies). The amount of recognised and reversed allowance has been included in cost of sales in the statement of comprehensive income.

12 Advance payment for purchase of investment

On 16 November 2016, the Company and Amita Technologies Inc. ("Amita") entered into Share Subscription Agreement which the Company agreed to purchase 17.68 million newly-issued ordinary shares of Amita, at 35.20% of total issued and paid-up share capital, with aggregate value of Taiwan Dollar 618.92 million. Amita is a company listed on the Emerging Stock Market in the Taipei Exchange and engages in business of developing and manufacturing lithium-ion polymer battery.

On 7 and 21 December 2016, the Company paid for 17.68 million newly-issued ordinary shares to Amita at Taiwan Dollar 35 per share, totalling Taiwan Dollars 618.92 million or equivalent to Baht 685.91 million. Amita registered the aforementioned shares on 11 January 2017. In addition, the Company has not yet entitled to the right to appoint the Company's representative to be the director of Amita within 2016. Therefore, the Company presented these payments as advance payment for purchase of investments in the consolidated and separate statement of financial position as at 31 December 2016 (Note 13.3).

13 Investments in subsidiaries, an associate and a joint venture

As at	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Investments in subsidiaries (Note 13.2)	1	1	16,647,816,001	14,983,679,351
Investment in an associate (Note 13.3)	916,481,064	-	987,180,248	-
Investment in a joint venture (Note 13.4)	3,379,988	-	8,754,240	-
Total investments in subsidiaries, an associate and a joint venture	919,861,053	1	17,643,750,489	14,983,679,351

13.1 The movement of the investments in subsidiaries, an associate and a joint venture can be analysed as follows:

	Consolidated	
	2017 Baht	2016 Baht
Opening net book value	1	1
Acquisitions of investments in an associate and a joint venture	995,934,488	-
Share of loss from investments in an associate and a joint venture	(62,272,139)	-
Share of other comprehensive expense from investments in an associate and a joint venture	(13,801,297)	-
Closing net book value	919,861,053	1

	Separate	
	2017 Baht	2016 Baht
Opening net book value	14,983,679,351	7,292,079,351
Acquisitions of investment in subsidiaries	150,199,850	50,000
Increase in share capital of subsidiaries	1,513,936,800	7,691,550,000
Acquisitions of investments in an associate and a joint venture	995,934,488	-
Closing net book value	17,643,750,489	14,983,679,351

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investments in subsidiaries

The subsidiaries incorporated in Thailand are as follows:

	Business	Portion of ordinary shares held by the Company				Portion of ordinary shares held by the Group				Cost Method		Dividend for the year		Separate
		2017		2016		2017		2016		2017		2016		
		%	%	%	%	%	%	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	
Surachai (1997) Co., Ltd.	Investing in manufacturing and distributing electricity from solar energy	99.90	99.90	-	-	-	-	231,550	231,550	-	-	-	-	-
EA Solar Co., Ltd.	Manufacturing and distributing electricity from solar energy	49.00	49.00	51.00	51.00	-	-	313,030	313,030	22,342	22,342	34,939	34,939	-
EA Solar Nakhonsawan Co., Ltd.	Manufacturing and distributing electricity from solar energy	99.99	99.99	-	-	-	-	5,590,000	5,590,000	1,397,500	1,397,500	1,020,240	1,020,240	-
Energy Solution Management Co., Ltd.	Consulting in the project regarding electric energy	99.99	99.99	-	-	-	-	109,999	9,999	-	-	-	-	-
EA Renewable Holding Co., Ltd.	Investing in manufacturing group of electricity energy	99.99	99.99	-	-	-	-	7,383,700	7,383,700	2,966,787	2,966,787	1,023,681	1,023,681	-
Wind Nayangklak Co., Ltd.	Investing in manufacturing group of electricity energy	99.99	99.99	-	-	-	-	890,327	503,100	-	-	-	-	-
Wind Progressive Co., Ltd.	Investing in manufacturing group of electricity energy	99.99	99.99	-	-	-	-	789,297	507,600	-	-	-	-	-
Wind Tossaphum Co., Ltd.	Investing in manufacturing group of electricity energy	99.99	99.99	-	-	-	-	1,189,663	444,650	-	-	-	-	-
Emma Corporation Co., Ltd.	Manufacturing and distributing electricity energy	50.00	50.00	-	-	-	-	50	50	-	-	-	-	-
Thepsathit Wind Farm Co.,Ltd.	Manufacturing and distributing electricity generate from wind power (not commercial operations yet)	99.99	99.99	-	-	-	-	-	-	-	-	-	-	-
Energy Mahanakhon Co., Ltd.	Charging station	66.67	-	-	-	-	-	100,000	-	-	-	-	-	-
Green Technology Research Co., Ltd.	Research and Development of biodiesel	99.99	-	-	-	-	-	40,000	-	-	-	-	-	-
Mine Mobility Research Co., Ltd.	Research and Development	99.99	-	-	-	-	-	10,000	-	-	-	-	-	-
Energy Beyond Research Co., Ltd.	Research and Development	99.99	-	-	-	-	-	100	-	-	-	-	-	-
EA Bio Innovation Co., Ltd.	Manufacturing and distributing in biodiesel (not commercial operations yet)	99.99	-	-	-	-	-	100	-	-	-	-	-	-
Total								16,647,816	14,983,679	4,386,629	4,386,629	2,078,860	2,078,860	

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 2017 since such company's financial statements are not material to the Group.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investments in subsidiaries (continued)

The subsidiaries incorporated in Thailand are as follows: (continued)

	Business	Portion of ordinary shares held by the Company				Portion of ordinary shares held by the Group				Cost Method		Dividend for the period		Separate
		2017		2016		2017		2016		2017		2016		
		%	%	%	%	%	%	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	
Surachai (1997) Solar Co., Ltd.	Investing in manufacturing and distributing electricity from solar energy	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
EA Solar Phitsanulok Co., Ltd.	Manufacturing and distributing electricity from solar energy	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
EA Wind Hadkanghan 1 Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
EA Wind Hadkanghan 2 Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
EA Wind Hadkanghan 3 Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
EA Solar Lampang Co., Ltd.	Manufacturing and distributing electricity from solar energy	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Nayangklak Development Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Nayangklak Wind Power Co., Ltd.	Manufacturing and distributing electricity from wind power	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Benjarat Development Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Pongnok Development Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Banchuan Development Co., Ltd.	Manufacturing and distributing electricity from wind power (not commercial operations yet)	-	-	-	-	99.99	99.99	99.99	-	-	-	-	-	-
Paypop Co., Ltd.	Electronics financial service (not commercial operations yet)	-	-	-	-	99.99	-	-	-	-	-	-	-	-

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investments in subsidiaries (continued)

The total non-controlling interest for the year is Baht 70 million (2016: 0.98 million), which is not significant to the Group.

As at 31 December 2016, under terms and conditions of long-term loan agreements of the Group. Ordinary shares of the following subsidiaries were pledged as collateral for their long-term loans.

- EA Renewable Holding Co., Ltd.
- EA Solar Phitsanulok Co., Ltd.
- EA Wind Handkanghan 3 Co., Ltd.
- EA Solar Lampang Co., Ltd.

As at 31 December 2017, ordinary shares of those subsidiaries were not pledged as collateral for their long-term loans since the subsidiaries and the lenders of long-term loans agreed to restructure terms and conditions of existing long-term loan agreements in which not require the pledge of the Group's assets and deposits at financial institutions as collateral for long-term loans (Note 21).

Investment in Thepsathit Wind Farm Co., Ltd.

On 11 September 2012, the Company paid for the purchase of 19,998 ordinary shares of Thepsathit Wind Farm Co., Ltd at Baht 0.00005 per share, totalling Baht 1 (Purchase Price) from former shareholders who held ordinary shares comprising 99.99% of the authorised share capital. Thepsathit Wind Farm Co., Ltd. engages in the business of manufacturing and distributing electricity generated from wind power. The share purchase agreement between the Company and the former shareholders dated 31 August 2012 specifies an additional share payment at the revised purchase price if Thepsathit Wind Farm Co., Ltd. satisfies the following conditions:

- 1) Thepsathit Wind Farm Co., Ltd. must be able to use land leased from the Agricultural Land Reform Office of Chaiphum Province for a wind farm power plant project.
- 2) Thepsathit Wind Farm Co., Ltd. must successfully source funds for the wind farm power plant construction project. Under the revised purchase price, compensation of Baht 90 million less the liabilities of Thepsathit Wind Farm Co., Ltd. will be paid to the former shareholders, Pro Ventum International GmbH (PVI) and Pro Ventum International (Thailand) Co., Ltd. on the share purchase date.

If Thepsathit Wind Farm Co., Ltd. cannot satisfy the share purchase agreement conditions, the Company has no contractual commitment to pay any additional share payment or liabilities due to PVI and Pro Ventum International (Thailand) Co., Ltd.

On 26 January 2017, the Supreme Court read the court judgement dated 26 August 2016 to withdraw the resolution of the Agricultural Land Reform Office of Chaiphum Province, which approved the identification of area at Baanrai Sub-District, Thepsathit District, Chaiphum Province, which is land reform and river basin area 1B in accordance with the resolution of the cabinet, as area that can be used for the business of manufacturing and distributing electricity generated from wind power and approved the use of this area by Thepsathit Wind Farm Co., Ltd. under a land lease to install wind turbines for electricity generation. Consequently, Thepsathit Wind Farm Co., Ltd. cannot use the land leased from the Agricultural Land Reform Office of Chaiphum for a wind farm power plant project. Based on the court judgement, the Company has no additional significant commitments.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investments in subsidiaries (continued)

13.2.1 The movements of the investments in subsidiaries can be analysed as follows:

	Consolidated	
	2017 Baht	2016 Baht
Opening net book value	1	1
Increase (decrease)	-	-
Closing net book value	1	1

	Separate	
	2017 Baht	2016 Baht
Opening net book value	14,983,679,351	7,292,079,351
Acquisitions of investment in subsidiaries	150,199,850	50,000
Increase in share capital of subsidiaries	1,513,936,800	7,691,550,000
Closing net book value	16,647,816,001	14,983,679,351

13.2.2 The movement of the investments in subsidiaries during the year ended 31 December 2017 are as follows:

Direct subsidiaries

Energy Mahanakhon Co., Ltd.

On 24 March 2017, Energy Mahanakhon Co., Ltd. was incorporated in Thailand with the registered share capital of 1,000,000 shares at a par value of Baht 10 per share. The Company holds 99.99% ordinary shares of the said company. The Company made payment for 999,997 shares at full amount of par value, which is equivalent to Baht 10 per share, totalling Baht 10.00 million.

On 30 August 2017, at the Extraordinary Shareholders' Meeting of Energy Mahanakhon Co., Ltd., the shareholders passed a resolution to approve an increase in the authorised share capital from Baht 10 million to Baht 150 million by issuing new ordinary share of 14,000,000 shares at a par value of Baht 10 per share. The Company partially purchased the said authorised share of 9,000,000 shares at Baht 10 per share, totalling Baht 90 million and another investor purchased the remaining increased share of 5,000,000 shares at Baht 22 per share, totalling Baht 110 million (premium from share capital at Baht 12 per share, totalling Baht 60 million). Energy Mahanakhon Co., Ltd. registered the increase in share capital with the Ministry of Commerce on 31 August 2017. As a result, the portion of share held by the Company in Energy Mahanakhon Co., Ltd. decreased from 99.99% of registered and paid-up share capital to 66.67% of registered and paid-up share capital. The Group recognised the increase in non-controlling interests of Baht 20 million and the surplus on a change in shareholding of a subsidiary of Baht 40 million in the consolidated statement of changes in shareholders' equity for the year ended 31 December 2017.

Green Technology Research Co., Ltd.

On 30 August 2017, Green Technology Research Co., Ltd. was incorporated in Thailand with the registered share capital of 4,000,000 shares at a par value of Baht 10 per share. The Company holds 99.99% ordinary shares of the said company. The Company made payment for 3,999,997 shares at 25% of par value, which is equivalent to Baht 2.50 per share, totalling Baht 10.00 million.

On 28 November 2017, at the Board of Directors' Meeting of Green Technology Research Co., Ltd., the Board of Directors passed a resolution to approve the call for the additional payment of unpaid capital at Baht 7.50 per share, totalling Baht 30.00 million, which the Company made payment according to its shareholding portion on 29 November 2017.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investment in subsidiaries (continued)

13.2.2 The movement of the investments in subsidiaries during the year ended 31 December 2017 are as follows:
(continued)

Direct subsidiaries (continued)

Mine Mobility Research Co., Ltd.

On 6 October 2017, Mine Mobility Research Co., Ltd., was incorporated in Thailand with the registered share capital of 1,000,000 shares at par value of Baht 10 per share. The Company holds 99.99% ordinary shares of the said company. The Company made payment for 999,997 shares at 25% of par value, which is equivalent to Baht 2.50 per share, totalling Baht 2.50 million.

On 28 November 2017, at the Board of Directors' Meeting of Mine Mobility Research Co., Ltd., the Board of Directors passed a resolution to approve the call for the additional payment of unpaid capital at Baht 7.50 per share, totalling Baht 7.50 million, which the Company made payment according to its shareholding portion on 29 November 2017.

Energy Beyond Research Co., Ltd.

On 20 October 2017, Energy Beyond Research Co., Ltd., was incorporated in Thailand with the registered share capital of 10,000 shares at par value of Baht 10 per share. The Company holds 99.99% ordinary shares of the said company. The Company made payment for 9,997 shares at full amount of par value, which is equivalent to Baht 10.00 per share, totalling Baht 0.10 million.

EA Bio Innovation Co., Ltd.

On 1 December 2017, EA Bio Innovation Co., Ltd., was incorporated in Thailand with the registered share capital of 10,000 shares at par value of Baht 10 per share. The Company holds 99.99% ordinary shares of the said company. The Company made payment for 9,997 shares at full amount of par value which is equivalent to Baht 10.00 per share, totalling Baht 0.10 million.

Energy Solution Management Co., Ltd.

On 29 November 2017, at the Extraordinary Shareholders' Meeting of Energy Solution Management Co., Ltd., the shareholders passed a resolution to approve an increase in the authorised share capital by issuing 1,000,000 ordinary shares at par value of Baht 100 per share. The Company purchased the authorised share at full amount of issuing shares at Baht 10 per share, which the Company has paid for 1,000,000 shares at full amount of par value totalling Baht 100 million. Energy Solution Management Co., Ltd. registered the increase in share capital with the Ministry of Commerce on 30 November 2017.

Wind Nayangklak Co., Ltd.

On 7 December 2017, at the Board of Directors' Meeting of Wind Nayangklak Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 1.00 per share. The Company made payment for ordinary share of 183,520,000 shares, totalling Baht 183.52 million, which the Company has paid on 8 December 2017.

On 22 December 2017, at the Board of Directors' Meeting of Wind Nayangklak Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 1.11 per share. The Company made payment for ordinary share of 183,520,000 shares, totalling Baht 203.71 million, which the Company has paid on 25 December 2017.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.2 Investment in subsidiaries (continued)

13.2.2 The movement of the investments in subsidiaries during the year ended 31 December 2017 are as follows:
(continued)

Direct subsidiaries (continued)

Wind Progressive Co., Ltd.

On 7 December 2017, at the Board of Directors' Meeting of Wind Progressive Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 1.00 per share. The Company made payment for ordinary share of 182,920,000 shares, totalling Baht 182.92 million, which the Company has paid on 8 December 2017.

On 22 December 2017, at the Board of Directors' Meeting of Wind Progressive Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 0.54 per share. The Company made payment for ordinary share of 182,920,000 shares, totalling Baht 98.78 million, which the Company has paid on 25 December 2017.

Wind Tossaphum Co., Ltd.

On 7 December 2017, at the Board of Directors' Meeting of Wind Tossaphum Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 3.00 per share. The Company made payment for ordinary share of 163,380,000 shares, totalling Baht 490.14 million, which the Company has paid on 8 December 2017.

On 22 December 2017, at the Board of Directors' Meeting of Wind Tossaphum Co., Ltd., the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 1.56 per share. The Company made payment for ordinary share of 163,380,000 shares, totalling Baht 254.87 million, which the Company has paid on 25 December 2017.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.3 Investment in an associate

The details of the investment in an associate are as follow:

Business	Portion of ordinary shares held by the Group		Cost method		Equity method		Dividend for the period	
	2017 %	2016 %	2017 Baht'000	2016 Baht'000	2017 Baht'000	2016 Baht'000	2017 Baht'000	2016 Baht'000
An associate incorporated in the Republic of China (Taiwan)								
Amita Technologies Inc.								
Develop and manufacture lithium-ion polymer battery	50.69	-	987,180	-	916,481	-	-	-
Total			987,180	-	916,481	-	-	-

As at 31 December 2017, the fair value of the Group's interest in Amita Technologies Inc., which is listed on Emerging Stock Market in the Republic of China (Taiwan) Exchange, was Taiwan Dollar 1,731 million, which is equivalent to Baht 1,897 million (2016: None).

There are no contingent liabilities relating to the Group's interest in the associate.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.3 Investment in an associate (continued)

13.3.1 The movement of the investment in an associate can be analysed as follows:

	Consolidated	
	2017 Baht	2016 Baht
Opening net book value	-	-
Acquisitions of investment an associate	987,180,248	-
Share of loss from investment in an associate	(56,964,931)	-
Share of other comprehensive expense from investment in an associate	(13,734,253)	-
Closing net book value	916,481,064	-

	Separate	
	2017 Baht	2016 Baht
Opening net book value	-	-
Acquisitions of investment in an associate	987,180,248	-
Closing net book value	987,180,248	-

13.3.2 The movement of the investment in an associate during the year ended 31 December 2017 are as follows:

On 16 November 2016, the Company and Amita Technologies Inc. (Amita) entered into Share Subscription Agreement which the Company agreed to purchase 17.68 million newly-issued ordinary shares of Amita, or equivalent to 35.20% of total issued and paid-up share capital, with aggregate value of Taiwan Dollar 618.92 million. Amita is a company listed on the Emerging Stock Market in the Taipei Exchange and engages in business of developing and manufacturing lithium-ion polymer battery.

On 7 and 21 December 2016, the Company paid for 17.68 million newly-issued ordinary shares to Amita at Taiwan Dollar 35 per share, totalling Taiwan Dollar 618.92 million or equivalent to Baht 685.91 million. As at 31 December 2016, the Company presented this transaction as advance payment for purchase of investment in the consolidated and separate statements of financial position.

On 11 January 2017, Amita registered its newly-issued ordinary shares. As a result, in the first quarter of 2017, Amita was an associate of the Company.

On 3 November 2017, the Company acquired an additional investment in Amita by purchasing 7,784,000 shares from existing shareholders of Amita through the system of the Emerging Stock Market in the Republic of China (Taiwan) Exchange, totalling Taiwan Dollar 273.87 million or equivalent to Baht 301.27 million. As a result, the Company's shareholding portion increased from 35.20% to 50.69% of total issued and paid-up share capital of Amita.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.3 Investment in an associate (continued)

13.3.2 The movement of the investment in an associate during the year ended 31 December 2017 are as follows: (continued)

Details of the considerations paid and the Company's portion of estimated fair value of net assets acquired and recognised at the acquisition date are as follows:

	Consolidated	
	11 January 2017 Baht'000	3 November 2017 Baht'000
Cash and cash equivalents	91,401	58,138
Accounts receivable	56,874	36,625
Inventories	36,062	18,565
Other current and non-current assets	244,281	12,348
Property, plant and equipment	33,145	41,078
Patents	282,437	128,007
Brand	95,914	44,143
Accounts payable	(23,569)	(10,974)
Short-term loan	(47,594)	(12,013)
Other liabilities	(46,873)	(6,646)
Deferred taxes liability	(64,214)	(29,213)
Goodwill	28,045	21,214
Total purchase consideration	<u>685,909</u>	<u>301,272</u>

As at 31 December 2017, the Company did not have the substantive right under the Law of the Republic of China (Taiwan) to call a shareholders' extraordinary meeting to appoint additional directors, according to the increased investment portion. The management considered that the Company did not have control over Amita and presented investment in Amita as investment in an associate. The Company have substantive right to call a shareholders' extraordinary meeting of Amita in January 2018 (Note 38 (1)).

13.3.3 Summarised financial information for an associate

Set out below are the summarised financial information for an associate that is material to the Group. The information disclosed reflects the amounting presented in the financial statements of the relevant associate (not the Group's shares of those amounts). They have been amended to reflect adjustments made using the equity method, including fair value adjustments and modifications for differences in accounting policy.

Summarised statement of financial position

	Amita Technologies Inc. 2017 Baht
As at 31 December	
Current assets	717,995,442
Non-current assets	1,376,363,013
Total assets	<u>2,094,358,455</u>
Current liabilities	146,173,706
Non-current liabilities	196,285,445
Total liabilities	<u>342,459,151</u>
Net assets	<u>1,751,899,304</u>

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.3 Investment in an associate (continued)

13.3.3 Summarised financial information for associate

Summarised statement of comprehensive income

	Amita Technologies Inc.
	2017
	Baht
For the year ended 31 December	
Revenue from sales of goods and services rendered	284,519,164
Loss from continuing operations	(185,289,401)
Income tax expense	(4,629,580)
Post-tax loss from continuing operations	(189,918,981)
Other comprehensive expense	(9,785,768)
Total comprehensive expense	(199,704,749)
Dividends received from associate	-

Reconciliation of the summarised financial information presented to the carrying amount of its interest in an associate.

	Amita Technologies Inc.
	2017
	Baht
Opening net assets as at 11 January 2017	1,866,610,650
Increasing in fair value of net assets	89,728,659
Loss for the period	(189,918,981)
Other comprehensive expense for the period	(14,521,024)
Closing net assets	1,751,899,304
Interest in an associate (%)	50.69*
Interest in an associate, net	867,221,625
Goodwill	49,259,439
Carrying value	916,481,064

* The Group recognised interest in Amita Technologies Inc. in proportion of its initial investment portion, which is 35.20%, for the period from 11 January 2017 to 3 November 2017. After that date, the Group recognised interest in Amita Technologies Inc. at 50.69%

13.4 Investment in a joint venture

The details of the investment in a joint venture are as follow:

	Portion of ordinary shares held by the Group		Cost method		Equity method		Dividend for the year	
	2017	2016	2017	2016	2017	2016	2017	2016
	%	%	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000
Business								
Distributing electric equipments and machines	44.00	-	8,754	-	3,380	-	-	-
Total			8,754	-	3,380	-	-	-

Shenzhen Growatt Power Technology Co., Ltd. is a private company and there is no quoted market price available for its shares.

13 Investments in subsidiaries, an associate and a joint venture (continued)

13.4 Investment in a joint venture (continued)

13.4.2 The movements of the investments in a joint venture can be analysed as follows:

On 12 September 2017, the Company and Shenzhen Growatt New Energy Technology Co., Ltd., a company registered in the People's Republic of China, incorporated a joint venture called Shenzhen Growatt Power Technology Co., Ltd. ("Growatt"), registered in the People's Republic of China, to engage in distributing electric equipments and machines. Growatt has the registered share capital of US Dollar 600,000. The Company's joint interest is 44%.

The Company classified its investment in Growatt as an investment in a joint venture since the shareholders agreement indicates that the management structure and significant financial and operational strategy must be approved by all shareholders or representatives of all shareholders.

13.4.2 The movement of the investment in a joint venture for the year ended 31 December 2017 can be analysed as follows:

	Consolidated	
	2017 Baht	2016 Baht
Opening net book value	-	-
Acquisitions of investment a joint venture	8,754,240	-
Share of loss from investment in a joint venture	(5,307,208)	-
Share of other comprehensive expense from investment in a joint venture	(67,044)	-
Closing net book value	3,379,988	-
	Separate	
	2017 Baht	2016 Baht
Opening net book value	-	-
Acquisitions of investment in a joint venture	8,754,240	-
Closing net book value	8,754,240	-

13.4.3 Commitments and contingent liabilities in respect of a joint venture

Under terms of shareholder agreement, the Company has commitments to provide loan to Growatt in the event that Growatt cannot generate net profit within 2 years after the registration date of Growatt.

There are no contingent liabilities relating to the Group's interest in the joint venture.

14 Investment property

	Consolidated		
	Land Baht	Buildings and building improvements Baht	Total Baht
As at 1 January 2016			
Cost	-	-	-
<u>Less</u> Accumulated depreciation	-	-	-
Net book value	-	-	-
For the year ended 31 December 2016			
Opening net book value	-	-	-
Transfer from property, plant and equipment, net (Note 15)	-	32,983,093	32,983,093
Closing net book value	-	32,983,093	32,983,093
As at 31 December 2016			
Cost	-	38,258,042	38,258,042
<u>Less</u> Accumulated depreciation	-	(5,274,949)	(5,274,949)
Net book value	-	32,983,093	32,983,093
Fair value	-	38,990,000	38,990,000
For the year ended 31 December 2017			
Opening net book value	-	32,983,093	32,983,093
Additions	-	241,072	241,072
Transfer from property, plant and equipment, net (Note 15)	-	3,548,112	3,548,112
Depreciation charge	-	(2,066,760)	(2,066,760)
Closing net book value	-	34,705,517	34,705,517
As at 31 December 2017			
Cost	-	42,047,226	42,047,226
<u>Less</u> Accumulated depreciation	-	(7,341,709)	(7,341,709)
Net book value	-	34,705,517	34,705,517
Fair value	-	38,990,000	38,990,000

14 Investment property (continued)

		Buildings and building improvements Baht	Separate Total Baht
As at 1 January 2016	Land Baht		
Cost	932,988,370	-	932,988,370
<u>Less</u> Accumulated depreciation	-	-	-
Net book value	932,988,370	-	932,988,370
For the year ended 31 December 2016			
Opening net book value	932,988,370	-	932,988,370
Additions	17,936,644	-	17,936,644
Disposals	(27,016,121)	-	(27,016,121)
Transfer from property, plant and equipment, net (Note 15)	-	32,983,093	32,983,093
Closing net book value	923,908,893	32,983,093	956,891,986
As at 31 December 2016			
Cost	923,908,893	38,258,042	962,166,935
<u>Less</u> Accumulated depreciation	-	(5,274,949)	(5,274,949)
Net book value	923,908,893	32,983,093	956,891,986
Fair value	942,232,496	38,990,000	981,222,496
For the year ended 31 December 2017			
Opening net book value	923,908,893	32,983,093	956,891,986
Additions	75,911,385	241,072	76,152,457
Transfer from property, plant and equipment, net (Note 15)	-	3,548,112	3,548,112
Depreciation charge	-	(2,066,760)	(2,066,760)
Closing net book value	999,820,278	34,705,517	1,034,525,795
As at 31 December 2017			
Cost	999,820,278	42,047,226	1,041,867,504
<u>Less</u> Accumulated depreciation	-	(7,341,709)	(7,341,709)
Net book value	999,820,278	34,705,517	1,034,525,795
Fair value	1,018,143,881	38,990,000	1,057,133,881

As at 31 December 2017, land represents land purchased by the Company for purpose of leasing to its subsidiaries as construction location of solar power plant and wind power plant. Such investment property has fair value of Baht 1,018 million (2016: Baht 942.23 million). The Group assesses land fair value by comparing with selling price which is appraised by certified external appraiser. The method used by the appraiser contains significant observable inputs. Therefore, the Group classifies investment property fair value estimation as level 2.

As at 31 December 2016, investment property of the Company with carrying amount of Baht 403.90 million were mortgaged as collateral for credit facilities with financial institutions.

As at 15 December 2017, the three subsidiaries and the long-term loan lenders agreed to amend the terms and conditions as specified in the long-term loan agreements to cancel all land representing investment property of the Company that was pledged and mortgaged as collateral for the long-term loans from financial institutions (Note 21). Then, as at 31 December 2017, the Company has no obligation regarding the above pledge and mortgage but are in process of release and discharge those undertaking investment property.

Amounts recognised in profit and loss that are related to investment property are as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Rental income	802,340	-	57,535,646	57,644,541

15 Property, plant and equipment, net

	Consolidated					
	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
At 1 January 2016						
Cost	1,011,085,193	774,846,500	900,868,816	14,153,349,169	103,074,071	11,933,201,926
Less Accumulated depreciation	-	(111,831,587)	(352,385,180)	(978,780,429)	(29,082,155)	-
Net book value	1,011,085,193	663,014,913	548,483,636	13,174,568,740	73,991,916	11,933,201,926
For the year ended 31 December 2016						
Opening net book value	1,011,085,193	663,014,913	548,483,636	13,174,568,740	73,991,916	11,933,201,926
Additions	17,936,644	952,269	12,249,135	96,327,481	12,677,250	7,338,791,177
Reclassification	-	(210,196,812)	17,003,467	192,104,907	1,088,438	-
Transfer from the construction cost of high voltage power station, net (Note 16)	(16,616,120)	-	-	-	-	(253,983,434)
Disposals, net	-	-	(1)	-	-	(4,632,891)
Transfer	-	153,251,269	791,670,363	7,824,302,967	4,900,563	(8,774,125,162)
Transfer to investment property (Note 14)	-	(32,983,093)	-	-	-	-
Transfer to intangible assets (Note 16)	-	-	-	-	(1,070,096)	-
Depreciation charge	-	(33,568,289)	(197,843,084)	(837,844,295)	(19,420,212)	-
Closing net book value	1,012,405,717	540,470,257	1,171,563,516	20,449,459,800	72,167,859	10,239,251,616
At 31 December 2016						
Cost	1,012,405,717	650,067,447	1,798,541,607	22,219,350,827	120,194,469	10,239,251,616
Less Accumulated depreciation	-	(109,597,190)	(626,978,091)	(1,769,891,027)	(48,026,610)	-
Net book value	1,012,405,717	540,470,257	1,171,563,516	20,449,459,800	72,167,859	10,239,251,616
						33,485,318,765

15 Property, plant and equipment, net (continued)

	Consolidated					
	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
At 1 January 2017						
Cost	1,012,405,717	650,067,447	1,798,541,607	22,219,350,827	120,194,469	10,239,251,616
Less Accumulated depreciation	-	(109,597,190)	(626,978,091)	(1,769,891,027)	(48,026,610)	-
Net book value	1,012,405,717	540,470,257	1,171,563,516	20,449,459,800	72,167,859	10,239,251,616
For the year ended 31 December 2017						
Opening net book value	1,012,405,717	540,470,257	1,171,563,516	20,449,459,800	72,167,859	10,239,251,616
Additions	75,911,383	6,074,600	26,183,789	113,221,062	37,059,601	3,316,022,385
Reclassification	-	(3,787,727)	-	8,262,638	911,216	-
Transfer from the construction cost of high voltage power station, net (Note 16)	(10,400,000)	-	-	-	-	(335,194,827)
Disposals, net	-	-	(1,364,264)	-	(8,010,259)	(39,582)
Transfer	-	92,752,767	8,798,895	11,136,678,093	-	(11,238,229,755)
Transfer to investment property (Note 14)	-	(3,548,112)	-	-	-	-
Depreciation charge	-	(29,745,082)	(231,517,020)	(1,203,509,518)	(22,286,438)	-
Closing net book value	1,077,917,100	602,216,703	973,664,916	30,504,112,075	79,841,979	1,981,809,837
At 31 December 2017						
Cost	1,077,917,100	740,096,162	1,829,431,792	33,477,512,619	143,624,147	1,981,809,837
Less Accumulated depreciation	-	(137,879,459)	(855,766,876)	(2,973,400,544)	(63,782,168)	-
Net book value	1,077,917,100	602,216,703	973,664,916	30,504,112,075	79,841,979	1,981,809,837
						35,219,562,610
						36,039,811,683
						(2,554,492,918)
						33,485,318,765
						33,485,318,765
						3,574,472,820
						5,386,127
						(345,594,827)
						(9,414,105)
						-
						(3,548,112)
						(1,487,058,058)
						35,219,562,610

15 Property, plant and equipment, net (continued)

	Office equipment, furniture, computers and motor vehicles					Separate
	Buildings and buildings improvement	Machines and equipment	Construction in progress			
	Baht	Baht	Baht	Baht	Total Baht	
At 1 January 2016						
Cost	55,788,998	194,193,155	882,590,133	29,026,863	1,166,948,577	
Less Accumulated depreciation	-	(63,874,425)	(415,515,256)	(15,239,951)	(494,629,632)	
Net book value	55,788,998	130,318,730	467,074,877	13,786,912	672,318,945	
For the year ended 31 December 2016						
Opening net book value	55,788,998	130,318,730	467,074,877	13,786,912	672,318,945	
Additions	-	-	2,662,898	7,685,117	16,746,626	
Disposals, net	-	-	(1)	-	(1)	
Transfer	-	-	1,829,052	-	(1,829,052)	
Transfer to investment property (Note 14)	-	(32,983,093)	-	(1,070,097)	(34,053,190)	
Depreciation charge	-	(11,803,395)	(79,635,885)	(4,456,453)	(95,895,733)	
Closing net book value	55,788,998	85,532,242	391,930,941	15,945,479	559,116,647	
At 31 December 2016						
Cost	55,788,998	155,935,113	887,016,083	34,654,520	1,143,313,701	
Less Accumulated depreciation	-	(70,402,871)	(495,085,142)	(18,709,041)	(584,197,054)	
Net book value	55,788,998	85,532,242	391,930,941	15,945,479	559,116,647	

15 Property, plant and equipment, net (continued)

	Office equipment, furniture, computers and motor vehicles					Separate
	Buildings and buildings improvement	Machines and equipment	Construction in progress			
	Baht	Baht	Baht	Baht	Total Baht	
At 1 January 2017						
Cost	55,788,998	155,935,113	887,016,083	34,654,520	1,143,313,701	
Less Accumulated depreciation	-	(70,402,871)	(495,085,142)	(18,709,041)	(584,197,054)	
Net book value	55,788,998	85,532,242	391,930,941	15,945,479	559,116,647	
For the year ended 31 December 2017						
Opening net book value	55,788,998	85,532,242	391,930,941	15,945,479	559,116,647	
Additions	-	2,470,367	19,388,657	18,339,845	44,555,225	
Disposals, net	-	-	(2)	(2,982,907)	(2,982,909)	
Transfer	-	3,548,112	2,093,296	-	(5,641,408)	
Transfer to investment property (Note 14)	-	(3,548,112)	-	-	(3,548,112)	
Depreciation charge	-	(8,000,629)	(79,045,253)	(5,757,342)	(92,803,224)	
Closing net book value	55,788,998	80,001,980	334,367,639	25,545,075	504,337,627	
At 31 December 2017						
Cost	55,788,998	158,405,480	908,002,536	44,018,436	1,174,849,385	
Less Accumulated depreciation	-	(78,403,500)	(573,634,897)	(18,473,361)	(670,511,758)	
Net book value	55,788,998	80,001,980	334,367,639	25,545,075	504,337,627	

15 Property, plant and equipment, net (continued)

For the year ended 31 December 2017, borrowing costs of Baht 145 million (2016: Baht 313 million), arising from financing specifically entered into for the construction of a new power plant, were capitalised during the year and are included in 'additions'. A capitalisation rate of 2.55% - 4.40% per annum (2016: 3.84% - 4.45% per annum) was used representing the actual borrowing cost of the loan used to finance the project.

As at 15 December 2017, the three subsidiaries and the long-term loan lenders agreed to amend the terms and conditions as specified in the long-term loan agreements to cancel all pledged and mortgaged land, buildings, power plants and equipment of the subsidiaries, including the land of the Company, that were previously pledged as collateral for the long-term loans from financial institution (Note 21). Then, as at 31 December 2017, the three subsidiaries and the Company have no obligation regarding the above pledge and mortgage but are in process of release and discharge those undertaking assets.

As at 31 December 2017, the Group pledged machine and equipment with net book value amounting to Baht 714.86 million as collateral for credit facilities with a financial institution. The Group is required to comply with certain procedure and conditions as specified in long-term loan agreement with financial institutions; for example, maintaining debt to equity ratio and debt service coverage ratio at the specified level. (As at 31 December 2016, property, plant and equipment with net book value amounting to Baht 26,060 million were mortgaged and pledged as collateral for credit facilities with financial institutions.)

As at 31 December, leased assets included above where the Group is a lessee comprise vehicles leased from third parties under finance leases are as follow:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Cost - leased assets	8,135,530	20,752,230	-	9,594,000
<u>Less</u> Accumulated depreciation	(2,446,430)	(9,159,371)	-	(5,777,976)
Net book amount	<u>5,689,100</u>	<u>11,592,859</u>	<u>-</u>	<u>3,816,024</u>

16 Intangible assets, net

	Consolidated			
	Right to use transmission line Baht	Right to power purchase agreement Baht	Computer software Baht	Total Baht
As at 1 January 2016				
Cost	397,533,873	42,461,197	7,377,911	447,372,981
<u>Less</u> Accumulated amortisation	(24,235,742)	(5,448,027)	(714,500)	(30,398,269)
Net book value	<u>373,298,131</u>	<u>37,013,170</u>	<u>6,663,411</u>	<u>416,974,712</u>
For the year ended 31 December 2016				
Opening net book value	373,298,131	37,013,170	6,663,411	416,974,712
Additions	-	-	4,157,989	4,157,989
Transfer from the construction cost of high voltage power station (Note 15)	270,599,554	-	-	270,599,554
Reclassification of computer software	-	-	1,070,096	1,070,096
Amortisation	(24,009,538)	(1,698,448)	(1,203,647)	(26,911,633)
Closing net book value	<u>619,888,147</u>	<u>35,314,722</u>	<u>10,687,849</u>	<u>665,890,718</u>
As at 31 December 2016				
Cost	668,133,427	42,461,197	13,593,360	724,187,984
<u>Less</u> Accumulated amortisation	(48,245,280)	(7,146,475)	(2,905,511)	(58,297,266)
Net book value	<u>619,888,147</u>	<u>35,314,722</u>	<u>10,687,849</u>	<u>665,890,718</u>

16 Intangible assets, net (continued)

	Consolidated		
	Right to use transmission line Baht	Right to power purchase agreement Baht	Computer software Baht
			Total Baht
As at 1 January 2017			
Cost	668,133,427	42,461,197	13,593,360
<u>Less</u> Accumulated amortisation	(48,245,280)	(7,146,475)	(2,905,511)
Net book value	<u>619,888,147</u>	<u>35,314,722</u>	<u>10,687,849</u>
For the year ended 31 December 2017			
Opening net book value	619,888,147	35,314,722	10,687,849
Additions	2,277,923	-	2,080,507
Transfer from the construction cost of high voltage power station (Note 15)	345,594,827	-	-
Amortisation	(35,251,543)	(1,698,447)	(1,731,532)
Closing net book value	<u>932,509,354</u>	<u>33,616,275</u>	<u>11,036,824</u>
As at 31 December 2017			
Cost	10,016,006,177	42,461,197	15,673,867
<u>Less</u> Accumulated amortisation	(83,496,823)	(8,844,922)	(4,637,043)
Net book value	<u>932,509,354</u>	<u>33,616,275</u>	<u>11,036,824</u>
			Separate
	Right to use transmission line Baht	Right to power purchase agreement Baht	Computer software Baht
			Total Baht
As at 1 January 2016			
Cost	-	-	5,455,188
<u>Less</u> Accumulated amortisation	-	-	-
Net book value	<u>-</u>	<u>-</u>	<u>5,455,188</u>
For the year ended 31 December 2016			
Opening net book value	-	-	5,455,188
Additions	-	-	4,053,109
Reclassification of computer software	-	-	1,070,096
Amortisation	-	-	(813,985)
Closing net book value	<u>-</u>	<u>-</u>	<u>9,764,408</u>
As at 31 December 2016			
Cost	-	-	11,565,756
<u>Less</u> Accumulated amortisation	-	-	(1,801,348)
Net book value	<u>-</u>	<u>-</u>	<u>9,764,408</u>
For the year ended 31 December 2017			
Opening net book value	-	-	9,764,408
Additions	-	-	1,744,058
Amortisation	-	-	(1,328,079)
Closing net book value	<u>-</u>	<u>-</u>	<u>10,180,387</u>
As at 31 December 2017			
Cost	-	-	13,309,814
<u>Less</u> Accumulated amortisation	-	-	(3,129,427)
Net book value	<u>-</u>	<u>-</u>	<u>10,180,387</u>

17 Deferred income taxes

The analysis of deferred tax assets and deferred tax liabilities is as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Deferred tax assets:				
Deferred tax assets to be recovered within 12 months	2,951,923	1,406,844	2,951,923	1,406,844
Deferred tax assets to be recovered after more than 12 months	65,824,466	22,406,170	1,010,975	837,073
	<u>68,776,389</u>	<u>23,813,014</u>	<u>3,962,898</u>	<u>2,243,917</u>
Deferred tax liabilities:				
Deferred tax liabilities to be settled within 12 months	-	-	-	-
Deferred tax liability to be settled after more than 12 months	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Deferred income taxes, net	<u>68,776,389</u>	<u>23,813,014</u>	<u>3,962,898</u>	<u>2,243,917</u>

The movement of the deferred income tax account is as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
At 1 January	23,813,014	(2,590,283)	2,243,917	(2,909,402)
Charged/(credited) to profit or loss	44,963,375	26,403,297	1,718,981	5,153,319
Tax charged/(credited) directly to other comprehensive income	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
At 31 December	<u>68,776,389</u>	<u>23,813,014</u>	<u>3,962,898</u>	<u>2,243,917</u>

17 Deferred income taxes (continued)

The movement of the deferred income tax account is as follows: (continued)

	Consolidated						
	Allowance for slow-moving inventories Baht	Retirement benefit obligations Baht	Property, plant and equipment Baht	Right to use transmission line Baht	Provision for decommissioning costs Baht	Loss Carry forward Baht	Total Baht
Deferred tax assets							
At 1 January 2016	2,132,836	994,445	-	-	-	-	3,127,281
Charged/(credited) to profit or loss	(725,992)	307,963	17,230,085	69,471	3,804,206	-	20,685,733
Tax charged/(credited) directly to other comprehensive income	-	-	-	-	-	-	-
At 31 December 2016	1,406,844	1,302,408	17,230,085	69,471	3,804,206	-	23,813,014
At 1 January 2017	1,406,844	1,302,408	17,230,085	69,471	3,804,206	-	23,813,014
Charged/(credited) to profit or loss	1,545,079	239,956	(1,316,981)	-	9,438,860	35,056,461	44,963,375
Tax charged/(credited) directly to other comprehensive income	-	-	-	-	-	-	-
At 31 December 2017	2,951,923	1,542,364	15,913,104	69,471	13,243,066	35,056,461	68,776,389

17 Deferred income taxes (continued)

The movement of the deferred income tax account is as follows: (continued)

	Consolidated			
	Property, plant and equipment Baht	Finance lease liabilities Baht	Deferred financing fee Baht	Total Baht
Deferred tax liabilities				
At 1 January 2016	239,827	547,737	4,930,000	5,717,564
Charged/(credited) to profit or loss	(239,827)	(547,737)	(4,930,000)	(5,717,564)
Tax charged/(credited) directly to other comprehensive income	-	-	-	-
At 31 December 2016	-	-	-	-
At 1 January 2017	-	-	-	-
Charged/(credited) to profit or loss	-	-	-	-
Tax charged/(credited) directly to other comprehensive income	-	-	-	-
At 31 December 2017	-	-	-	-

17 Deferred income taxes (continued)

The movement of the deferred income tax account is as follows: (continued)

			Separate
	Allowance for inventories Baht	Retirement benefit obligations Baht	Total Baht
Deferred tax assets			
At 1 January 2016	2,132,836	675,326	2,808,162
Charged/(credited) to profit or loss	(725,992)	161,747	(564,245)
Tax charged/(credited) directly to other comprehensive income	-	-	-
At 31 December 2016	<u>1,406,844</u>	<u>837,073</u>	<u>2,243,917</u>
At 1 January 2017	1,406,844	837,073	2,243,917
Charged/(credited) to profit or loss	1,545,079	173,902	1,718,981
Tax charged/(credited) directly to other comprehensive income	-	-	-
At 31 December 2017	<u>2,951,923</u>	<u>1,010,975</u>	<u>3,962,898</u>

				Separate
	Property, plant and equipment Baht	Finance lease liabilities Baht	Deferred financing fee Baht	Total Baht
Deferred tax liabilities				
At 1 January 2016	239,827	547,737	4,930,000	5,717,564
Charged/(credited) to profit or loss	(239,827)	(547,737)	(4,930,000)	(5,717,564)
Tax charged/(credited) directly to other comprehensive income	-	-	-	-
At 31 December 2016	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
At 1 January 2017	-	-	-	-
Charged/(credited) to profit or loss	-	-	-	-
Tax charged/(credited) directly to other comprehensive income	-	-	-	-
At 31 December 2017	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

18 Other non-current assets

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Withholding tax	37,287,798	40,760,892	10,771,625	10,244,052
Advance payment for equipment purchase	90,074,222	2,146,108	2,770,415	-
Deposits	24,224,782	-	-	-
Deposits for use of electricity	15,068,474	12,023,089	2,495,625	2,492,324
Prepaid for land leasehold right	16,255,827	-	-	-
Others	4,188,905	2,115,497	210,000	852,848
Total other non-current assets	187,100,008	57,045,586	160,247,665	13,589,224

19 Short-term loans from financial institutions

The short-term loans from financial institutions are as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Promissory note	210,500,000	81,050,000	210,500,000	81,050,000
Trust receipts	273,042,755	466,509,559	273,042,755	466,509,559
Bill of exchange	398,467,125	398,931,313	398,467,125	398,931,313
Total short-term loans from financial institutions	882,009,880	946,490,872	882,009,880	946,490,872

Short-term loans from financial institutions represent the secured loans of the Company. As at 31 December 2017, short-term loans from promissory notes of Baht 210.50 million and from trust receipts of Baht 273.04 million bore interests at the rate of 2.03 – 2.13 per annum and bill of exchange of Baht 398.47 million bore interest at the rate of 2.35 per annum (2016: short-term loans from promissory notes of Baht 81.05 million and from trust receipts of Baht 466.51 million bore interests at the rate of MRR per annum and bill of exchange of Baht 398.93 million bore interest at the rate of 2.30 per annum). The loans are secured own machinery and by shareholder of the Company.

As at 31 December 2017, the Company had available credit facilities of promissory notes of Baht 1,386 million (2016: Baht 765 million) and of trust receipts of Baht 442 million (2016: Baht 248 million).

20 Other accounts payable

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Other accounts payable				
- third parties	120,931,193	90,300,439	44,079,638	37,232,050
- related parties (Note 35.3)	-	-	2,050,790	1,527,224
Undue output tax	102,061,052	77,810,293	1,373,231	1,459,757
Revenue department payable	68,269,315	61,560,906	18,471,126	22,903,087
Accrued expenses	84,856,302	41,751,292	3,223,573	1,986,665
Interest payable	115,054,821	86,663,285	82,109,588	82,390,710
Others	409,274	-	394,944	-
Total other accounts payable	491,684,090	358,086,215	151,702,890	147,551,493

21 Long-term loans from financial institutions, net

21.1 The long-term loans from financial institutions are as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Long-term loans from financial institutions	19,103,460,876	19,750,950,000	-	-
<u>Less</u> Deferred financing fee	(284,870,820)	(318,868,031)	-	-
	18,818,590,056	19,432,081,969	-	-
<u>Less</u> Current portion of long-term loans from financial institutions, net	(429,750,000)	(1,644,104,336)	-	-
Total long-term loans from financial institutions, net	18,388,840,056	17,787,977,633	-	-

As at 31 December, Long-term loans from financial institutions of the subsidiaries are as follow:

Number	2017 (Million Baht)	2016 (Million Baht)	Interest rate	Principal repayment term	Interest payment period
1	617	490	THBFIX three-month plus a certain margin per annum	Repayment every three months from June 2016	Payment every three months
2	-	5,733	MLR minus a certain margin per annum	Repayment every three months from June 2015	Payment every three months
3	-	6,248	BIBOR three-month plus a certain margin per annum	Repayment every three months from September 2016	Payment every three months
4	-	7,280	THBFIX six-month plus a certain margin per annum	Repayment every three months from March 2017	Payment every three months
5	18,486	-	Fixed interest rate per annum at 3.30% - 4.37%	Repayment every year from December 2020	Payment every six months
Total	19,103	19,751			

Long-term loan no.1 is the loan of a subsidiary, secured with the machinery and equipment of that subsidiary. The subsidiary has to 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.

Long-term loans no. 2 to 4 are long-term loans of three subsidiaries, secured with land, buildings, power plants and equipment of the subsidiaries, including the land of the Company. The subsidiaries have to maintain cash reserves which are provided from the proceeds of the sale of electricity for the purpose of repaying principal and interest payments that are due within three months. Also, the power purchase agreements, the asset purchase agreements, the major maintenance agreements and insurance policies have been assigned as collateral in accordance with the conditions of the loan agreements. The Group has to comply with certain procedures and conditions as specified in the long-term loan agreements with financial institutions: for example, maintaining the debt to equity ratio and the debt service coverage ratio at the specified level. Under the terms and conditions of long-term loan agreements of subsidiaries, the Group have pledged the subsidiaries' ordinary shares as collateral for the long-term loans (Note 13). Subsequently on 15 December 2017, the three subsidiaries and the long-term loan lenders agreed to amend the terms and conditions as specified in the long-term loan agreements to change (as per agreement) the floating interest rate to the fixed interest rate and modify the term of interest and principal repayment and maturity date, and also cancel the pledge and mortgage their assets as collateral for the loans. Under the amendment and restatement agreement (long-term loan no.5), long-term loans of the three subsidiaries have fixed interest rates of 3.30% - 4.37% per annum, the interest repayment is semi-annual and the principal repayment is annual until December 2020. The amendment of the procedure and conditions as specified in long-term loan agreements is not identified as extinguishments of long-term loans (Note 2.15).

21 Long-term loans from financial institutions, net (continued)

21.2 Interest rate risk management

The detail of interest rate swap contracts for long-term loans from financial institutions of the Group are shown in Note 34

The interest rate exposure on the long-term loans from financial institutions of the Group after taking account of interest rate swap contracts is as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Long-term loans from financial institutions, net				
- at fixed rates	18,486,372,000	12,139,906,200	-	-
- at floating rates	617,088,876	7,611,043,800	-	-
Total long-term loans from financial institutions, net	19,103,460,876	19,750,950,000	-	-

After taking account of interest rate swaps, the weighted average effective interest rates of the long-term loans from financial institutions of the Group were 3.68% - 5.84% per annum (2016: 3.80% - 5.61% per annum).

21.3 Maturity of long-term loans are as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Within 1 year	430,000,000	1,701,974,500	-	-
Later than 1 year and not later than 5 years	6,024,339,926	8,127,532,000	-	-
Later than 5 years	12,649,120,950	9,921,443,500	-	-
Total long-term loans, net	19,103,460,876	19,750,950,000	-	-

21.4 Credit facilities

As at 31 December 2017, Both the Group and the Company had available credit facilities from financial institutions amount Baht 1,993 million (31 December 2016: Baht 8,689 million and Baht 5,300 million, respectively).

22 Debenture, net

The details of debenture can be analysed as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Debenture	8,000,000,000	8,000,000,000	8,000,000,000	8,000,000,000
<u>Less</u> Deferred financing fee	<u>(6,336,370)</u>	<u>(8,594,529)</u>	<u>(6,336,370)</u>	<u>(8,594,529)</u>
Debenture, net	<u>7,993,663,630</u>	<u>7,991,405,471</u>	<u>7,993,663,630</u>	<u>7,991,405,471</u>

On 21 July 2016, the Company issued debentures of Baht 8,000 million in three tranches:

Tranche 1: The Company's partial secured debentures of Baht 1,000 million, term of debentures 3 years, maturity in 2019, fixed interest rate 2.36% per annum with semi-annually interest payment.

Tranche 2: The Company's secured debentures of Baht 3,000 million, term of debentures 4 years, maturity in 2020, fixed interest rate 2.22% per annum with semi-annually interest payment.

Tranche 3: The Company's secured debentures of Baht 4,000 million, term of debentures 5 years, maturity in 2021, fixed interest rate 2.37% per annum with semi-annually interest payment.

The Company is required to comply with certain procedure and conditions; for example, maintaining debt to equity ratio at the level as specified in the contract.

23 Provision for decommissioning costs

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Opening net book balance	299,361,436	200,575,242	1,592,750	1,592,750
Additional provision	480,457,180	90,039,043	-	-
Finance costs	22,078,490	8,747,151	-	-
Closing net book balance	<u>801,897,106</u>	<u>299,361,436</u>	<u>1,592,750</u>	<u>1,592,750</u>

24 Legal reserve

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Opening balance	37,300,000	37,300,000	37,300,000	37,300,000
Appropriation during the year	-	-	-	-
Closing balance	<u>37,300,000</u>	<u>37,300,000</u>	<u>37,300,000</u>	<u>37,300,000</u>

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.

25 Revenue from sales

For the years ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Sales of biodiesel	4,205,199,192	4,721,130,410	4,205,199,192	4,721,130,410
Sales of glycerine	267,068,146	169,492,163	267,068,146	169,492,163
Sales of by products	14,162,655	11,322,942	14,162,655	11,322,943
Sales of electricity (a)	2,422,151,373	1,786,310,006	-	-
Total revenue from sales	6,908,581,366	6,688,255,521	4,486,429,993	4,901,945,516

(a) The Group has entered into eleven and one power purchase agreements with Electricity Generating Authority of Thailand (EGAT) and Provincial Electricity Authority (PEA), respectively. The agreement is 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.

26 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.

27 Other income

For the years ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Land rental income (Note 35.1)	-	-	56,733,306	57,644,541
Interest income	19,105,674	24,003,146	41,961,302	41,095,304
Insurance claim income	70,128,794	18,520,850	-	-
Others	4,749,383	4,333,925	13,916,564	14,683,679
Total other income	93,983,851	46,857,921	112,611,172	113,423,524

28 Finance costs

For the years ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Interest from loans from financial institutions	1,183,666,329	993,448,942	293,178,458	180,470,145
Interest from loans from related parties	-	-	675,000	675,000
Other finance costs	657,776	1,437,804	150,528	391,765
Total finance costs	1,184,324,105	994,886,746	294,003,986	181,536,910

29 Expense by nature

The following expenditure items have been charged in arriving at net profit:

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Changes in inventories of finished goods and work in process	76,082,063	(8,924,502)	76,082,063	(8,924,502)
Raw material and consumables used	3,963,046,739	4,270,650,423	3,963,046,739	4,270,650,423
Staff costs	218,048,586	149,136,257	152,931,035	125,367,023
Directors and management compensation	104,945,790	93,419,164	91,634,936	84,231,269
Depreciation	1,487,058,058	1,088,675,880	92,803,224	95,829,733
Amortisation	38,681,522	26,911,633	1,328,079	813,985
Loss from provision for inventories	15,450,791	(3,629,960)	15,450,791	(3,629,960)
Finance costs	1,184,324,105	994,886,746	294,003,986	181,536,910
Delivery and export expenses	55,367,020	44,987,291	55,367,020	44,987,291

30 Income tax

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Current tax	22,513,061	20,901,326	-	-
Deferred tax	(64,813,490)	(26,403,297)	(1,718,981)	(5,153,319)
Total income tax	(42,300,429)	(5,501,971)	(1,718,981)	(5,153,319)

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		Separate	
	2017 Million Baht	2016 Million Baht	2017 Million Baht	2016 Million Baht
Profit before tax	3,775	3,247	4,014	2,098
Tax calculated at a tax rate of	20%	20%	20%	20%
The result of the accounting profit multiplied by the income tax rate	755	649	803	420
Tax effect of :				
Income not subject to tax	(774)	(613)	(794)	(404)
Expenses not deductible for tax purpose	(3)	(24)	9	(4)
Revenues that are granted income tax exemption or expenses that are deductible at a greater amount	(20)	(18)	(20)	(17)
Income tax	(42)	(6)	(2)	(5)

The weighted average applicable tax rate for the Group and the Company were -0.18% and -0.04%, respectively (2016: -0.17% and -0.25%, respectively).

31 Earnings per share

The basic earnings per share is calculated by dividing the profit for the year attributable to ordinary shareholders of the parent divided by the weighted average number of ordinary shares outstanding during the year.

	Consolidated		Separate	
	2017	2016	2017	2016
Basic earnings per share				
Net profit attributable to ordinary shareholders of the parent (Baht'000)	3,817,450	3,251,506	4,015,350	2,103,368
Weighted average number of ordinary shares outstanding (Shares'000)	3,730,000	3,730,000	3,730,000	3,730,000
Basic earnings per share (Baht per share)	1.02	0.87	1.08	0.56

There are no dilutive potential ordinary shares in issue during the periods presented, so no diluted earnings per share are presented.

32 Dividend

At the Annual General Shareholders' Meeting held on 27 April 2017, the shareholders approved annual dividend payments from net profit from BOI operating results and from non-BOI operating results for the year ended 31 December 2016 of Baht 0.075 per share and Baht 0.075 per share, respectively, totalling Baht 560 million. The Company paid the dividend to shareholders in May 2017.

At the Annual General Shareholders' Meeting held on 29 April 2016, the shareholders approved dividend payments from net profit from BOI operating results and from non-BOI operating results for the year ended 31 December 2015 of Baht 0.05 per share and Baht 0.05 per share, totalling Baht 373 million. The Company paid the dividend to shareholders in May 2016.

33 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 five 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.

34 Financial instruments

In order to manage risks arising from fluctuations in interest rates and currency exchange rates, the Group uses the following derivative financial instruments.

Interest rate swap contracts

Interest rate swap contracts are entered into to manage exposure to fluctuations in interest rates. The five subsidiaries of the Company entered into interest rate swap contracts by converting floating rates to fixed rate. As at 31 December, fixed interest rate under interest rate swap contracts are as follow:

	Amount (Baht Million)		Fixed interest rate per annum	
	2017	2016	2017	2016
Outstanding contract amount	13,716	16,593	5.25 - 5.625	5.25 - 5.625

34 Financial instruments (continued)

As disclosed in Note 21.1, on 15 December 2017, the three subsidiaries and the long-term loan lenders have made an agreement to amend the terms and conditions as specified in long-term loan agreements to change the floating interest rate to the fixed interest rate. However, the subsidiaries have not cancelled interest rate swaps from floating interest rates to fixed interest rates for notional amounts of Baht 13,716 million.

Foreign currency forward contracts

Foreign currency forward contracts are entered into to manage exposure to fluctuations in exchange rates. As at 31 December 2017, the Group did not enter into foreign exchange forward contracts for accounts payable denominated in foreign currency. (2016: US Dollar 3.68 million which is equivalent to Baht 128.62 million).

35 Related party transactions

Enterprises and individuals that directly, or indirectly through one or more intermediaries, control, or are controlled by, or are under ordinary control with, the Company, including holding companies, subsidiaries and fellow subsidiaries are related parties of the Company. Associates and individuals owning, directly or indirectly, an interest in the voting power of the Company that gives them significant influence over the enterprise, key management personnel, including directors and officers of the Company and close members of the family of these individuals and companies associated with these individuals also constitute related parties.

In considering each possible related party relationship, attention is directed to the substance of the relationship, and not merely the legal form.

As at 31 December 2017, the major shareholders of the Company are UBS AG Singapore Branch and Mr. Somphote Ahunai who held ordinary shares portion of 29.64% and 23.30%, respectively. The remaining portion of ordinary shares were held by others.

Details of subsidiaries and an associate are disclosed in Note 13.

The pricing policies for particular types of transactions are explained further below:

Transactions	Pricing policies
Management fees	Agreed price
Vehicle rental income	Agreed price
Land rental income	Cost of acquiring the land plus operating fee 3% per annum
Interest income	At rates as the Company borrowing from financial institutions plus 0.25% per annum
Dividend income	Approval from the shareholders
Power plant development cost	Agreed price
Interest expense	At rates as the lender borrowing from financial institutions plus 0.25% per annum
Directors and management benefit expenses represent salary, bonus, meeting allowance and others	Approval from the Company's directors and Shareholders

35 Related party transactions (continued)

The following material transactions are carried out with related parties:

35.1 Revenue from sales and services

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Revenue from management fees				
- Subsidiaries	-	-	9,450,000	9,000,000
Revenue from rental				
- Subsidiaries	-	-	56,733,306	57,644,541

35.2 Other income and expenses

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Interest income				
- Subsidiaries	-	-	36,911,853	26,377,236

35.3 Other receivables from and other payables to related parties

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Other receivables (including interest receivable (Note 35.4))				
- Subsidiaries	-	-	212,752,698	153,333,176
Other payables (including interest payable (Note 35.5))				
- Subsidiaries	-	-	2,050,790	1,237,192

35.4 Short-term loans and long-term loan to related parties and related interests

As at 31 December 2017, the Company had short-term loans and long-term loan to related parties amounting to Baht 1,319.45 million and Baht 66.90 million, respectively (2016: Baht 600.80 million and Baht 71.40 million, respectively).

The movement of short-term loans to related parties can be analysed as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
For the year ended 31 December				
Opening balance	1,800,000	1,300,000	600,800,000	142,600,000
Additions during the year	-	500,000	1,080,150,000	770,500,000
Repayments during the year	-	-	(361,500,000)	(312,300,000)
Ending balance	<u>1,800,000</u>	<u>1,800,000</u>	<u>1,319,450,000</u>	<u>600,800,000</u>

35 Related party transactions (continued)

The following material transactions are carried out with related parties: (continued)

35.4 Short-term loans and long-term loan to related parties and related interests (continued)

The movement of long-term loan to a related party can be analysed as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
For the year ended 31 December				
Opening balance	-	-	71,400,000	71,400,000
Additions during the year	-	-	-	-
Repayments during the year	-	-	(4,500,000)	-
Ending balance	-	-	66,900,000	71,400,000
	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Interest receivable				
- Subsidiaries	-	-	116,195,880	85,648,542
	-	-	116,195,880	85,648,542
	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
For the year ended 31 December				
Interest income				
- Subsidiaries	-	-	36,911,853	26,377,236
	-	-	36,911,853	26,377,236

35.5 Short-term loans from related parties and related interests

The movement of short-term loans from related parties can be analysed as follows:

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
For the year ended 31 December				
Opening balance	-	-	54,000,000	54,000,000
Additions during the year	-	-	-	-
Repayments during the year	-	-	-	-
Ending balance	-	-	54,000,000	54,000,000
	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Interest payables				
- Subsidiaries	-	-	1,912,192	1,237,192
	-	-	1,912,192	1,237,192

35 Related party transactions (continued)

The following material transactions are carried out with related parties: (continued)

35.5 Short-term loans from related parties and related interests (continued)

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Interest expenses				
- Subsidiaries	-	-	675,000	675,000
	-	-	675,000	675,000

35.6 Advance receipts for land rental

	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
For the year ended 31 December				
Opening balance	-	-	599,285,020	626,033,285
Increase during the year	-	-	30,460,584	30,896,276
Decrease during the year	-	-	(56,733,306)	(57,644,541)
Closing balance	-	-	573,012,298	599,285,020

35.7 Dividend income

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Dividend income				
- Subsidiaries	-	-	4,386,628,505	2,078,860,211
	-	-	4,386,628,505	2,078,860,211

35.8 Key management compensation

For the year ended 31 December	Consolidated		Separate	
	2017 Baht	2016 Baht	2017 Baht	2016 Baht
Short-term employee benefits	104,342,842	92,848,259	91,170,500	83,798,777
Post employee benefits	602,948	570,905	464,436	432,492
Total key management compensation	104,945,790	93,419,164	91,634,936	84,231,269

36 Fair value

36.1 Fair value estimation

The table below analyses financial assets and liabilities carried at fair value, by valuation method. The different levels have been defined as follows:

- Quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1).
- Inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices) (Level 2).
- Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs) (Level 3).

36.2 Financial assets and liabilities that are not measured at fair value

The carrying amounts of the following financial assets and financial liabilities approximate their fair values: cash and cash equivalents, deposits at financial institutions used as collateral, short-term loans to related parties and related interests, trade receivables and payables, amounts due from and due to related parties, other receivables and payables, and short-term loans due to the short maturities of these instruments.

(a) Long-term loan to related party, long-term loans from financial institutions and debenture

The fair values of long-term loan to a related party and debenture with fixed interest rates have been calculated by level 2. The fair values have been calculated from the net present value of future cash flows discounted by market interest rates using rates at the date of financial statements. The fair values of long-term loans from financial institutions with floating interest rates approximate their carrying amounts.

The net fair value of long-term loan to a related party, long-term loans from financial institutions and debenture are as below

	Consolidated		Separate	
	Carrying amounts Million Baht	Fair values Million Baht	Carrying amounts Million Baht	Fair values Million Baht
As at 31 December 2017				
Long-term loan to a related party	-	-	67	67
Long-term loans from financial institutions	18,486	18,486	-	-
Debenture	8,000	7,985	8,000	7,985
As at 31 December 2016				
Long-term loan to a related party	-	-	71	71
Long-term loans from financial institutions	19,751	19,751	-	-
Debenture	8,000	7,888	8,000	7,888

(b) Derivatives financial instruments

The fair values of the derivatives financial instruments have been calculated by level 2. The fair values of interest rate swap contracts and foreign currency forward contracts have been calculated using rates quoted by the Group's counterparties to terminate the contracts at the date of financial statements.

The fair values of the derivatives financial instruments at the date of financial statements are as follows:

	Consolidated		Separate	
	2017 Million Baht	2016 Million Baht	2017 Million Baht	2016 Million Baht
Asset				
Foreign currency forward contracts	-	3	-	-
Liability				
Interest rate swap contracts	361	474	-	-

37 Commitments and contingent liabilities

37.1 Capital expenditure obligations

Capital expenditure contracted as at the statement of financial position date but not recognised in the financial statements is as follows:

	2017		Consolidated	
	Million US Dollar	Million Baht	2016	2016
			Million US Dollar	Million Baht
Land purchase agreement	-	1	-	1
Machine under installation	1	12	-	-
Wind power plant consultant fee and construction in progress	406	4,629	-	579
	<u>407</u>	<u>4,642</u>	<u>-</u>	<u>580</u>

	Separate	
	2017	2016
	Million Baht	Million Baht
Land purchase agreement	1	1
Machine under installation	2	-
Wind power plant consultant fee and construction in progress	-	3
	<u>3</u>	<u>4</u>

37.2 Operating lease commitments and service agreements

Future minimum lease payments required under these non-cancellable operating leases contracts and service contracts are as follows:

	2017		Consolidated	
	Million Euro	Million Baht	2016	2016
			Million Euro	Million Baht
Payable within:				
Less than 1 year	4	46	-	24
1 to 5 years	13	88	-	87
More than 5 years	-	420	-	298
	<u>17</u>	<u>554</u>	<u>-</u>	<u>409</u>

	Separate	
	2017	2016
	Million Baht	Million Baht
Payable within:		
Less than 1 year	20	17
1 to 5 years	70	60
More than 5 years	334	212
	<u>424</u>	<u>289</u>

37.3 Bank guarantee

As at 31 December 2017, the Group and the Company had outstanding letters of guarantee issued by government sector and private sector of Baht 10,646 million and US Dollar 301 million and Baht 7,781 million and US Dollar 301 million, respectively. (2016: Baht 8,106 million and Baht 7,789 million, respectively).

38 Events after the reporting period

- 1) On 11 January 2018, the Company had the substantive right under the Law of the Republic of China (Taiwan) to call a shareholders' extraordinary meeting to appoint additional directors for Amita in order to have the number of director equals to 54.55% of the total number of directors of Amita, and major voting rights in Amita shareholders' meetings. The management therefore considers that the Company has control over Amita, and has presented an investment in Amita as an investment in the subsidiary on that date.
- 2) On 3 January 2018, at the Extraordinary Shareholders' Meeting of EA Bio Innovation Co., Ltd. (a direct subsidiary), the shareholders passed a resolution to approve an increase in the authorised share capital from Baht 0.10 million to Baht 400.10 million by issuing new ordinary share of 40 million shares with a par value of Baht 10 per share. The subsidiary called for paid-up share capital at Baht 2.50 per share, totalling Baht 100 million, which the Company has paid on 4 January 2018. EA BIO Innovation Co., Ltd. registered the increase in share capital with the Ministry of Commerce on 4 January 2018.
- 3) On 22 February 2018, at the Board of Directors' Meeting of Wind Progressive Co., Ltd. (a direct subsidiary), the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 1.10 per share. The Company made payment for ordinary share of 182,920,000 shares, totalling Baht 201.21 million, which the Company has paid on 23 February 2018.
- 4) On 22 February 2018, at the Board of Directors' Meeting of Wind Tossaphum Co., Ltd. (a direct subsidiary), the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 0.26 per share. The Company made payment for ordinary share of 163,380,000 shares, totalling Baht 42.48 million, which the Company has paid on 23 February 2018.
- 5) On 23 February 2018, at the Board of Directors' Meeting of Wind Nayangklak Co., Ltd. (a direct subsidiary), the Board of Directors passed a resolution to approve the call for additional payment of unpaid capital at Baht 0.96 per share. The Company made payment for ordinary share of 183,520,000 shares, totalling Baht 176.18 million, which the Company has paid on 26 February 2018.



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