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MISSION

We Make Energy for Happiness

We make stable, economical and eco-friendly energy that brings happiness to humanity



HAPPINESS

Contributing to a happier human life

ENERGY

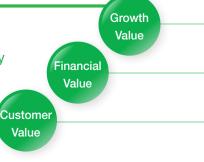
Boosting quality of life and clean living conditions

Production and supply of the highest quality energy in the most economical and stable way

Vision

2030 Most Valuable Power Company

An energy powerhouse that creates the highest value in all business areas while treasuring its employees as most valuable players (MVPs)



Expansion of the business scale and area as a comprehensive energy provider

Enhancement of financial stability and sustained profitable growth

Energy security, respect for human life, integrity and ethics, and social responsibilities

About this report

G4-18 G4-28 G4-29 G4-30

G4-31 G4-32 G4-33

Purpose of Report

This is the 10th sustainability management report published by East-West Power Co., Ltd. (EWP).

The EWP is a public energy company. It takes its CSR into account in all decision-making process. This report is intended to disclose the economic, social, and environmental efforts and outcomes in terms of corporate sustainability during the reporting period to all its stakeholders in the most transparent way.

Reporting Guideline

This report is prepared in accordance with GRI (Global Reporting Initiative) G4 Guidelines - Core with an emphasis placed on the company's progress in fulfilling ISO 26000 requirements and implementing the UN Global Compact principles. This report has followed International Financial Report Standards (IFRS) as the reporting standards of financial information including the definition of terms used in the area. All the information contained in this report has been verified by the Business Institute for Sustainable Development (BISD) of the Korean Chamber of Commerce considering principles of AA1000 Assurance Standard (2008).

Reporting Period and Scope

This report outlines the company's sustainability management activities from January 1, 2015 to December 31, 2015. For qualitative performance, the data from 2013 to 2015 have also been included to enable a time series trend analysis. The reporting scope includes the company's headquarters in Ulsan and its five plant sites across the country. The reporting cycle is one year.

Characteristics of Report

This report has focused on reporting the values that the company has created during the past 10 years in terms of its sustainability management in commemoration of the 10th anniversary of the company's sustainability management report.

This report has also attempted to reflect diverse opinions of the company's stakeholders identified through a stakeholder survey as well as a materiality test. It includes a statement about the relevance of UN Sustainable Development Goals (SDGs), a new global sustainable development agenda for 2030, to the company's roles.

Additional Information

For additional information, please visit the corporate website or contact the department indicated below:

Website: http://www.ewp.co.kr

Department: Climate & Environment Team, Power

Generation Division

Contact: Tel) +82-070-5000-1544

Content

Introduction **02** CEO Message

04 Highlights of the 10th Anniversary of the Report

06 About EWP

12 EWP's Value Creation Process

Sustainable

16 EWP Strategy System

Approach

18 Governance

20 Ethical Management 23 Risk Management

24 Stakeholder Engagement & Materiality Test

Economic

30 Economic Performance DMA

Performance

31 Stable Power Supply

34 Enhancement of Future Growth Engines

38 Overseas Business

40 Financial Soundness

Environmental

44 Environmental Performance DMA

Performance 45 Green Management

46 Coping with Climate Change

48 Environment Management

52 Establishing a basis for New Growth Engines

54 Establishment of Green Infrastructure

Social Performance

Employees

58 Employees DMA

59 Safety-First Business Management

62 Human-centered Happy Workplace

Social Contribution & Economic Activation

66 Social Contribution & Economic Activation DMA

67 Sharing and Growth for Everyone's Happiness

69 Job Creation

Win-win Growth

71 Win-Win Growth DMA

72 Win-Win Growth with Business Partners

74 Enhancement of Transparent and Fair Transactions

Appendix

77 Data Center

81 Awards in 2015

82 GRI G4 Application

89 UN Global Compact Advanced Level

90 Third Party Assurance

92 Memberships and Related Companies

CEO Message @ G4-1



2030 Most Valuable Power Company

We will make stable, economical and eco-friendly energy that brings happiness to humanity.

Dear EWP stakeholders.

I am deeply grateful for your keen attention and support of the sustainability management efforts of East-West Power Co., Ltd. (EWP). In 2006, EWP declared its full support of the ten principles of the UN Global Compact in the areas of labor, human rights, environment and anti-corruption and published its first sustainability management report. This year marks the 10th anniversary of the report, which I am extremely happy about and proud of.

EWP has continued to achieve outstanding management results over the years despite the difficult business environment caused by changes in the government's policies at home and fluctuations in the international energy markets. However, the demand for eco-friendly energy keeps rising throughout the world in the wake of the firstever universal global climate deal that was adopted in 2015, weakening the stature of the thermal power generation industry. EWP has re-established the corporate vision for its sustainability management. It accelerates innovation in the following three areas with the purpose of actively coping with the ongoing changes in the worlds' social and environmental paradigms and developing into a power generation company that continues to achieve sustainable corporate growth down the road.

First, EWP strives to gain momentum for sustainable corporate growth through the development of new growth engines and supplying stable and economic electricity. We raked 1st in fuel costs for standard coal-fired power generation for six straight years through economical procurement of power generation fuels. In addition, we achieved another accident-free period of 200 days for all of our power generators in 2015. We build and operate a 1,000 MWclass high-efficiency USC power plant in Dangjin for the first time in Korea.

Second, to make sustainable society and govern corporate social responsibility EWP actively handles global environmental initiatives issues such as developing renewable energy, and the Paris Agreement on Climate Change. Remarkably, we are also enhancing our portfolio of new and renewable energy having shifted focus away from fossil fuels. In addition, EWP reduced 1.82 million tons of GHG emissions more than allocated by the government, and achieved the highest score in the power generation industry in the Competitiveness Index in Climate Change for five consecutive years.

Third, EWP strives to create a flexible, creative corporate culture in the safest work environment to be able to thrive in any business environment in the future. We are currently making 'innovations in the way we operate' by incorporating flexible, creative software including systematic arrangements to our well-established 'Smart Office' hardware so that all of our employees can put their creativity to work. Meanwhile, EWP has placed the utmost priority on its employees' safety. In recognition of our extraordinary achievements in this field, we were able to be ranked the highest in the 2016 Safe Korea Anti-disaster Exercise for three consecutive years, a first among public institutions under the Ministry of Trade, Industry and Energy; topped the list of exemplary companies in the government's Disaster & Safety Management Evaluation for two straight years.

I would like to take this opportunity to convey my special thanks to you for your extraordinary support and cooperation during the past 10 years, without which we could not have made the achievements that we have claimed in our annual sustainability reports over the past decade. In a bid to live up to your expectations, EWP will continue to fulfill its social responsibilities based on its high level of ethical awareness and integrity. I personally pledge to continue to listen to your voices through diverse communication channels with humility and open-mindedness. I will be looking forward to your continuous encouragement and support for the company's sustainable growth and promising future.

Thank you.

August 1, 2016

Kim, Yong-jin President of Korea East-West Power Co., Ltd.





사회

Highlights of the 10th Anniversary of the Report



Congratulatory message for the 10th anniversary of the EWP sustainability report.

I wish to congratulate EWP, one of the most esteemed public companies in the energy sector, on the 10th anniversary of its sustainability report. EWP joined the UN Global Compact in August 2006 and has implemented the Ten Principles on human rights, labor, environment and anti-corruption and made reports of its progress in these areas ever since, setting a good example for businesses not only at

I hope that EWP will continue to integrate the 2030 Sustainable Development Goals adopted by the international community into its mid- to long-term vision and strategies and develop into the country's proud global leader in the energy sector.

2016. 8. 1.

Hong-Jae Im, Representative UN Global Compact Network Korea

EWP Award History in Sustainability Management

Economic Environmental

2007 Won the award at BSC Hall of Fame

> ncreased in net income for four consecutive vears for the first time among local power companies

Won the grand prize

Von the award for the best power generator

power companies for four consecutive years

Secured the best lending interest rate among local

at the 2007 Korea Technological

Innovation Management Awards

UN registration approved

for the clean photovoltaic development

Won the Minister of Trade, Industry & Energy award at the 28th Energy Conservation Promotion Contest

Gained eco-friendly business

and ISO 14001 accreditation for all its plant sites, a first among local power companies

Gained the national quality master certificate

and won the Presidential award at the 32nd National Quality Competition

Won first prize at the 2nd Power Companies' SME Support Performance Competition in the category of ethical management

Social

certification

Won the Presidential award

at the 33rd National Quality Competition

Won the Presidential award at the New Technology Practical Application Promotion Competition in the category of SME marketing support

2009

2008

Won first prize

of the year 2007

perations

in the area of breakdown-free

Von the Minister of Knowledge Economy ward at the 2008 Digital Innovation for two onsecutive vears

Registrain in CDM projects

for the first time in the world

*Clean Development Mechanism

Won the award

at 2008 Korea Corporate Community Involvement Awards

Won the Presidential award at the 3rd Beautiful Partnership Awards

2010

Won the award for 8th Digital **Innovation Award**



Non the grand prize at the Korea IT Innovation Awards Won the 2009 Korea Green Awards

Won the grand prize at the 2009 Korea

Won the 8th Safety **Grand Prize**

Won the Knowledge Economy Customer

경제

Won the 2009 Longest Run Award

osted by EUCG(Electric Utility Cost Group)

Won the Grand Prize at the 2nd Green Technology Awards

Economic Performance

Won the 2010 Green Company Award

환경

Won the Outstanding **Business Award**

Ministry of Knowledge Economy

2012

2013

Introduction

2011

The Unit of the Year Award

The Best

2012

nosted by Guam Power Authority

Performer Award

nosted by EUCG/Electric Utility Cost

Won the Grand Prize of UNGC

in the category of eco-friendiness

Won the grand prize at the National Green Business Presentations for two years in a row

Certified as an

business in terms to

competitiveness in response th

outstanding

climate change

Won the Prime

Minister award fo EWP family-friendly policies

Won the Korea Labor-Management Cooperation Grand Prize

Won the Shared Growth Excellence Award

Won the

Won the

Award

cultivation of SMEs

Presidential

2014

Won the 2013 Transparent Management Grand Prize

Won the management grand prize and the outstanding manager award at the Korea Idea Management Awards

Won the **Grand Prize**

at the Korea New Growth Management Awards in the category of green technologies

Won the special

Minister award

technical talents in 2013

of excellence in the cultivation of

Won the grand prize in the category of energy

Won the 2013 Privacy Protection Grand Prize

2015

Won the Korea Economic Leader **Grand Prize**

n the area of win-win cooperation

Won the Ministry of Strategy and Finance Awar

award at the 2014 Carbon Disclosure Project

Ranked 1st in climate competitiveness index in the power generation sector for 4 consecutive

Won the Minister of Health and Welfare Sharing Happiness Award'

as an outstanding organization in the





5



hosted by the Ministry of Patriots and Veterans Affairs

Ranked 1st among 14 SMEs assessed by the

Won the Minister of Gender

Equality&Family **Award**

Won the Minister of Health and Welfare Award





^{*} EWP award achievements based on its sustainability report on the date of publication

Introduction

6

Head Office

April 2, 2001

2,300

395, Jongga-ro,

Jung-gu, Ulsan, Korea

Date of Establishment

No. of Employees

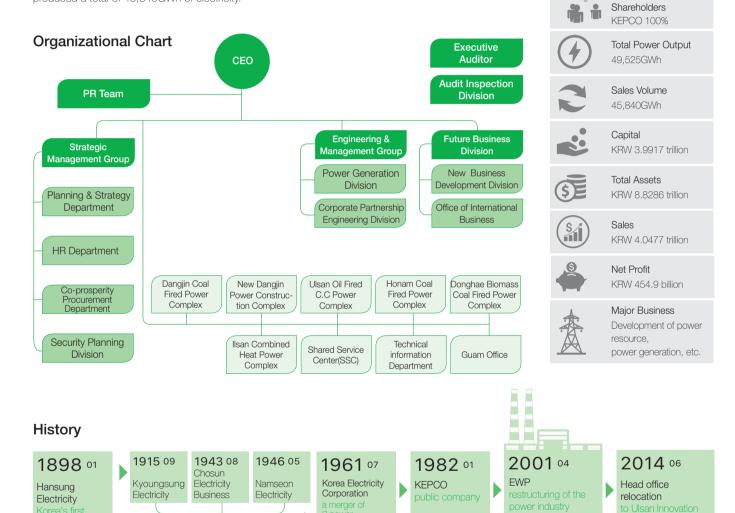
Composition of

Economic Performance

Environmental Performance Social Performance

Corporation Overview

EWP is one of the six power companies created as a result of the separation of the power generation sector from KEPCO (Korea Electric Power Corporation) in 2001 in accordance with the Act on the Promotion of Restructuring the Electric Power Industry. EWP is a wholly owned subsidiary of KEPCO with its core business being power generation. EWP operates five power stations across the country such as its flagship power station Dangjin Thermal Power Plant Complex, Honam Thermal Power Plant, Donghae Biomass & Coal Fired Power Complex and Ilsan Coal Fired Power Complex. The company's total power generation capacity stands at 9.139MW or 9.3% of the country's total power generation. EWP sells its electricity to KEPCO through Korea Power Exchange for final consumption by consumers. In 2015, EWP produced a total of 45.840GWh of electricity.



Characteristics of Power Industry G4-12

The Korean power industry was monopolized by KEPCO. On April 2, 2001, the Act on the Promotion of Restructuring the Electric Power Industry went into effect, which was aimed at eliminating inefficiencies associated with the industry's explosive growth. According to the legislation, the power generation sector of KEPCO was transferred to six new power companies including EWP. EWP produces power in conjunction with private power generation companies and district electric power operators and sells power to KEPCO through the Korea Power Exchange. KEPCO sells power to general customers through its nationwide power transmission and distribution networks. In 2015, EWP sold a total of 45,840GWh of electricity to KEPCO.

Supporting Global Initiatives

EWP supports global CSR initiatives including UN Global Compact, ISO 26000 and CDP. As a global corporation, EWP actively engages in socially responsible business management through the minimization of its environmental impact and the maximization of its employees' safety and health based on the principle of transparency.

UN Global Compact



In August 2006, EWP joined UN Global Compact, a voluntary initiative among corporations which urges and encourages companies to fulfill their social responsibilities. EWP complies with the ten principles in the areas of human rights, labor, environment and anti-corruption as a clear indication of its commitment to meet the global guidelines regarding corporate social responsibilities and to its pursuit of sustainability management.

ISO 26000



EWP intends to achieve sustainable corporate growth as recommended by ISO 26000, international standards governing corporate social responsibilities.

EWP undertakes diverse efforts to help nurture local communities and protect the environment by fulfilling the seven core subjects of ISO 26000 such as organizational governance, human rights, labor practices, the environment and fair operating practices etc.

CDP (Carbon Disclosure Project)

7

CDP is a global standard used to evaluate environmental information including climate change data. CDP assesses companies' GHG emissions and their efforts to reduce them through the carbon disclosure project.

EWP joined CDP in 2012 and its competitiveness in terms of response to climate change has since been evaluated.

In 2015, EWP acquired 90 points from the CDP.

How we're connected with UN SDGs

Keeping with global trends, EWP is fully committed to participating in finding the solutions for economic, environmental and social issues in order to achieve sustainable growth and development. The company has carried out analysis about how the 17 Sustainable Development Goals announced at the end of 2015 are related to its operations. It plans to derive specific strategies and action plans in the near future.

How we're connected with UN SDGs

| SDGs Goals | 3 | EWP's Actions | Page | SDGs Goals | EWP's Actions | Page |
|------------------------------------|----------------|--|------|------------------------------------|---|----------|
| Goal 2 | \$ \$\$ | Promotion of new energy business | P.55 | Goal 10 | Respect for diversity | P.65 |
| Zero Hunger | | | | Reduced Inequalities | Enhancement of social equality | P.70 |
| Goal 5 | | Cultivation of female talents and | P.65 | Goal 11 | Promotion of recycling | P.50 |
| Gender Equality | ~7 | gender equality Promotion and monitoring of gender | P.65 | Sustainable Cities and Communities | Development of new and renewable energy business | P.52 |
| | ₽ | equality policies and practices | | | Efforts to reduce air and water pollution | P.48, 49 |
| Goal 7 | | Overhaul of regulations to promote | P.52 | Goal 13 | To reduce GHG emissions | P.46 |
| Affordable and Clean Energy | | new and renewable energy convergence complexes | | Climate Action | Voluntary participation in CDP | P.47 |
| 2.10.9) | | Development of onshore wind farm | P.53 | | Establishment of policies to | |
| | 7// | Reduction of fuel costs | P.33 | | respond to climate change | P.46 |
| Goal 8 | | Efforts to promote work-life balance | P.62 | Goal 14 | Post-environmental impact | P.51 |
| Decent Work and Economic Growth | | Enhancement of employee fringe | P.65 | Life Below Water | surveys | |
| 250 | . 7 | benefits | | ببب | Management of the environment surrounding the company's | P.51 |
| | | Profit sharing and compensation systems | P.64 | | operating sites | |
| Goal 9 Industry, Innovation | | Development of technologies for the recycling of cinder | P.54 | | | |
| and Infrastructure | 10/1/01, | Development of technologies for the recycling of fly ash | P.54 | | | |

Operation

Processing

Development

4 in 2 countries

1 in 1 countries

6 in 5 countries

9

Business Areas G4-4 G4-9



Overview of Domestic Power Plants

EWP's electric power facilities include coal-fired plants fueled largely by bituminous coal, combined-cycle power plants fueled by LNG, oil power plants, and various plants powered by new and renewable energy. The total facility capacity of EWP stands at 9,139.4MW with coal-fired power generation accounting for 53.6% (4,900MW), LNG power generation constituting 32.5% (2,971.9MW), heavy oil power generation amounting to 13.1% (1,200MW), and power generation fueled by new and renewable energy such as wind power, photovoltaic power and small hydro power occupying a ratio of 0.8% (67.5MW).

Ilsan Combined Heat & Power Plant

Location: Goyang, Gyeonggi LNG: 900MW Fuel cells: 8MW



DangJin Coal Fired Power Complex

Location: Dangjin, Chungnam Bituminous Coal: 4,000MW Solar energy: 4MW Small hydro power: 8.2MW



Location: Yeosu, Jeonnam Bituminous Coal: 500MW Solar energy: 0.1MW





Ulsan Oil Fired & C.C Power Complex

Location: Nam-gu, Ulsan Heavy oil: 1,200MW LNG: 2,071.9MW Solar energy: 0.5MW Fuel cells: 2.8MW



| Share(%) | _ | | Name | Total Facility Capacity(MW) |
|----------|------|---|--------|-----------------------------|
| | EWP | • | EWP | 9,139.4 |
| 25 | 9 10 | • | KOEN | 9,980.9 |
| 20 | | • | KOMIPO | 8,306.4 |
| | 8 | • | KOWEPO | 9,321.4 |
| 28 | 9 | • | KOSPO | 9,161.9 |
| 20 | 9 | • | KHNP | 27,038.9 |
| | | • | Other | 25,240.9 |
| | | | | |

Donghae Biomass & Coal Fired Power Complex

Location: Donghae, Gangwon Domestic/Foreign Coal: 400MW Biomass: 30MW Solar energy: 1MW







The Total Facility Capacity by Fuels

| Fuel | Ratio | Plant Name | Capacity(MW) |
|--------------------|--------|--|--------------|
| | | DangJin Coal Fired Power Complex | 4,000.0 |
| Bituminous Coal | 53.6% | Honam Coal Fired Power Complex | 500.0 |
| | | Donghae Biomass & Coal Fired Power Complex | 400.0 |
| ING 32.5% | 32.5% | Ulsan Oil Fired & C.C Power Complex | 2,071.9 |
| LING | 02.070 | Ilsan Combined Heat & Power Plant | 900.0 |
| Heavy Oil | 13.1% | Ulsan Oil Fired & C.C Power Complex | 1,200.0 |
| New and | | Small Hydro Power | 8.2 |
| Renewable | 0.8% | Photovoltaic | 10.5 |
| Energy | | Others | 48.8 |
| Total | | | 9139.4 |

Overview of Overseas Power Plants

Project Type: BOOT

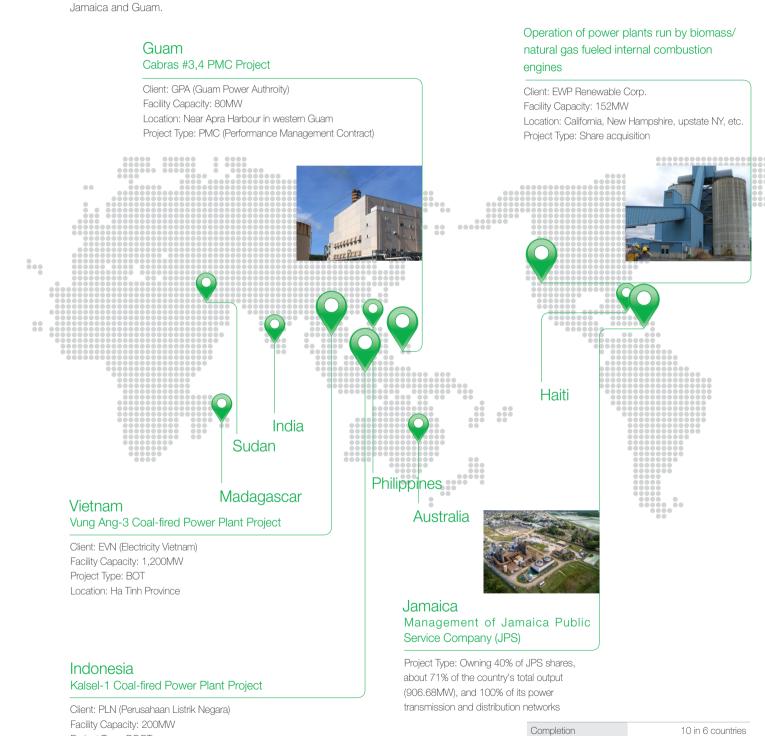
Location: Tanjung, South Kalimantan

Project Period: 25 years after completion

EWP has successfully carried out a number of overseas power plant projects including the trial operation of Nueva Ventanas Coal-Fueled Power Plant, Chile in 2008 and O&M of CFBC in Cebu, Philippines in 2009. Since 2015, the company has been carrying out self-financing development projects in Indonesia and Vietnam and is currently engaged in overseas power plant operation business in the United States,

Economic Performance

G4-6 G4-9



About EWP

Development of New Energy in Korea

EWP is involved in the development of new energy in Korea as a way of securing sustainable corporate growth while contributing to an increase of stable energy supply. Through strategic alliances with domestic independent power producers (IPPs), EWP is carrying out Bukpyeong Thermal Power Project and Dangjin Eco Power Project, while taking part in the Seokmun and Chuncheon Group Energy Projects.

Strategic alliances with domestic IPPs



Bukpyeong Thermal SPC Composition Power Project

Facility Capacity: 595MW x 2 Construction Period: Nov. 2012 - Dec. 2016

Location: Bukpyeong Industrial Complex, Donghae, Gangwon Province

Samtan

Co., Ltd.

GS E&R

EWP



Dangjin Eco Power Project

SPC Composition SK Gas Korea Development Facility Capacity: 580MW x 2

Construction Period: Mar. 2018 - Mar. 2022 Location: Gyoro-ri, Seokmun-myeon, Dangjin-si, Chungnam

Participation in Integrated Energy Supply Project



Seokmun Group **Energy Project**

SPC Composition Kookin Ind. Financial EWP Co., Ltd. Investors

Capacity: 38MW Construction Period: Jan. 2015 - Jan. 2017

Location: Seokmun National Industrial Complex, Dangjin-si, Chungnam



Chuncheon Group **Energy Project**

SPC Composition

Financial Hanjin Heavy EWP Investors Industries & Construction

Capacity: 470MW Construction Period: Mar. 2015 - Apr. 2017 Location: Dongsan-myeon, Chuncheon-si, Gangwon Province

New and Renewable Energy



Fuel Cell Power Generation Facilities

Ilsan
Ulsan

EWP has completed building fuel cells in its Ilsan and Ulsan Thermal Power Plant Complexes. The company recovers heat generated from the cells and supplies it to nearby residents at low prices while using part of the heat for its combined cycle plants, contributing to the efficient use of energy.



Construction of Wind Farms

GyeongjuYeonggwang

EWP is focused on the development of onshore wind farms in an effort to attain grid parity. In 2012, it completed 1st phase of Gyeongju Wind Farm, Yeonggwang Jisan Wind Farm and Honam and Baeksu Wind Farm, currently in operation. Since then, it has completed construction of more 80MW wind farms at Yeonggwang.



Photovoltaic Power Stations

Dangjin
Busan

EWP has built various types of photovoltaic power stations such as roof-top facilities installed in parking lots and waste landfill facilities of its power plants, offshore facilities, and large-scale facilities constructed on idle space, effectively contributing to the company's fulfillment of RPS supply obligations.



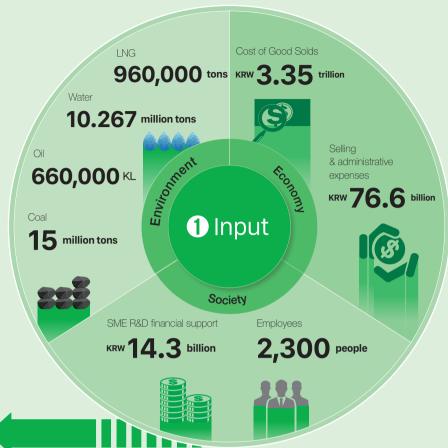
Biomass and Small Hydro Power Generation

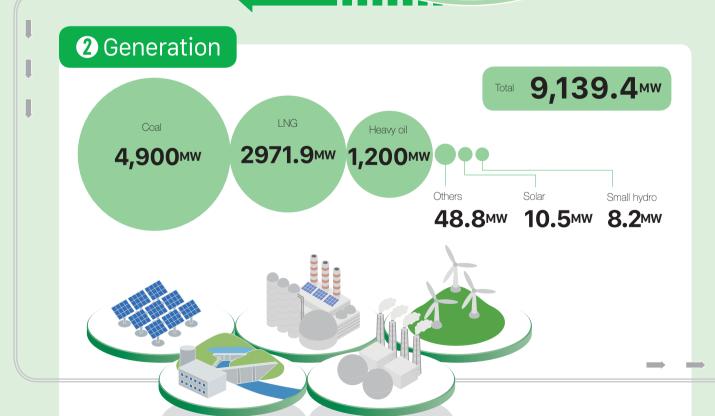
Donghae Biomass
 Dangjin Small Hydro

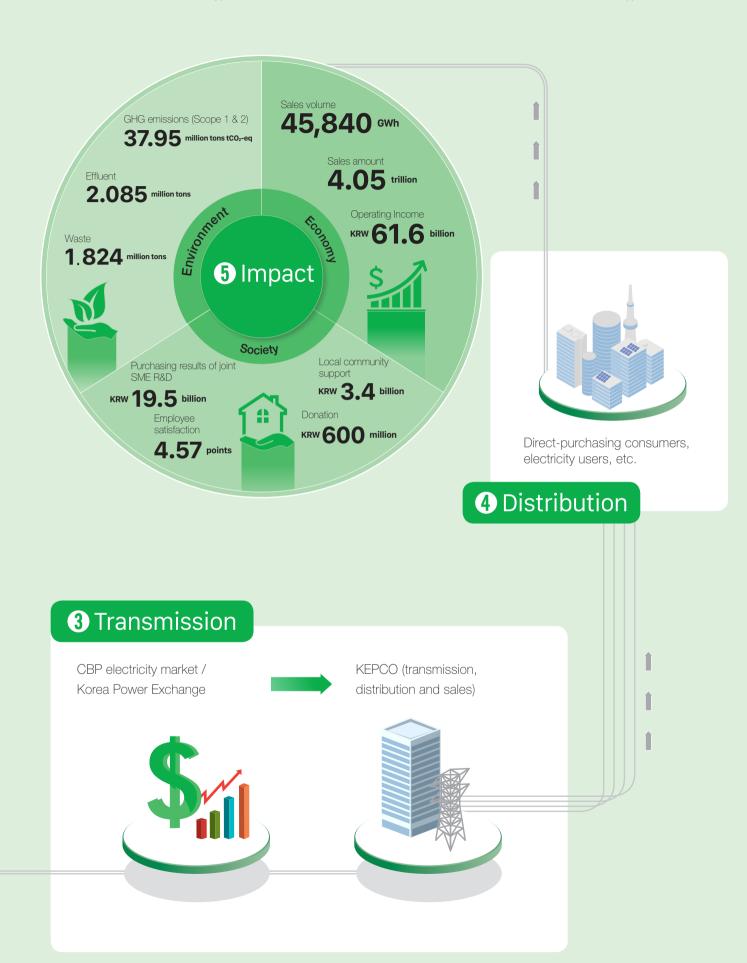
EWP completed Donghae Woody Biomass Power Plant, the largest in Korea, in July 2013. It completed construction of a small hydro power plant at the Dangjin Thermal Plant Complex that uses thermal effluents and operates it as a renewable marine energy power plant.

nnondiv



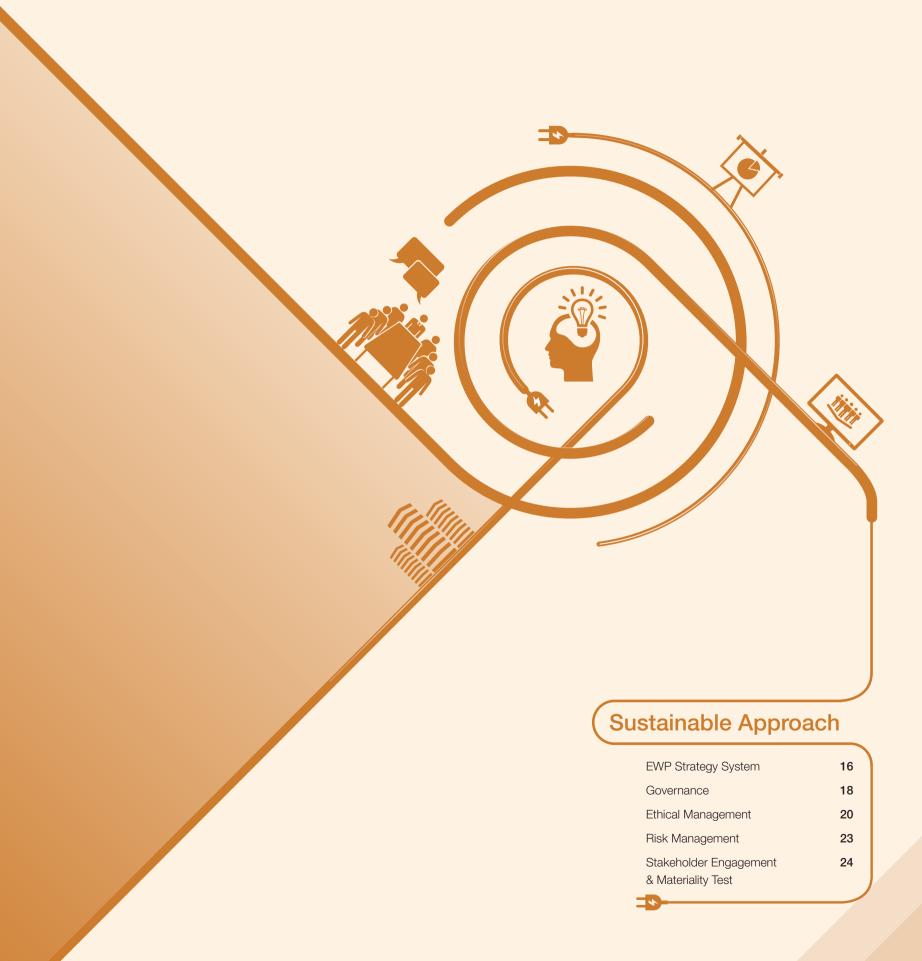






We make energy for happiness

EWP challenges and exercise a function to become the best company, based on Stakeholder's trust. The Company creates the best energy value for a happy life of people.



EWP Strategy System

EWP has created its mission and vision based on the company's purposes of establishment. It has also established the 2030 vision, a mid- to long-term management target. EWP's strategic directions and detailed performance goals based on its core values are implemented through the CEO's strong commitment and employees' concerted efforts.

| Mission | | We Make Energ | y for Happiness | |
|-------------------------|--|--|--|--|
| Vision | | 2030 Most Valuable | e Power Company | |
| Goals | Power generation technology solutions provider Maintenance of forced outage rate below 0.1% | Facility capacity 22,800MW (New renewable energy share 20%) Sales: KRW 10 trillion | Operating profit: KRW 1 trillion Debt ratio: 123% | Corporate integrity level 1 KoBEX SM AAA |
| Core Values | Creation Creation pursuing sustainable growth | Passion and challenge Utmost passion and challenge | Cooperation and integrity Cooperation and integrity based on co-prosperity and trust | Respect for human beings Respect for human beings based on consideration and safety |
| Strategic Directions | Enhancement of competitiveness of the power generation business | Creation of future growth business | Enhancement of core competencies | Realization of sustainability management |
| Strategic Tasks | Facility Enhancement of the efficiency of power generation facilities Operation Sophistication of power generation operational technologies Fuel Enhancement of competitiveness of fuel supply | New & renewable Expansion of new & renewable energy business New business Leadership in the development of new energy business New growth Expansion of new business at home and abroad | New technologies Enhancement of competitiveness of future technologies Talents Cultivation of global core talents System Sophistication of management system | Security & safety Upgrade of security & safety management Win-win cooperation Creation of win-win cooperative corporate ecosystem Corporate culture Realization of actively responsible management |

^{*}KoBEX SM: A survey on sustainability management (Korea Business Ethics Index Sustainability Management)

EWP Sustainability Context

The energy industry is faced with a number of challenges such as changes in the local government's policies including the restructuring of the power generation industry and the full-fledged domestic implementation of emissions trading scheme coupled with the increasing volatility of the international energy market and rising international demand for eco-friendly energy, indicating a rapid paradigm shift in the industry. To cope with this paradigm shift, EWP has restructured its organization and modified its vision, goals and strategic directions. The company now deals with changes in the industry and seeks to achieve sustainable growth and development most effectively.

Sustainability Management Vision & Value System

EWP has defined 'We Make Energy for Happiness' as its mission and '2030 Most Valuable Power Company' as its vision. In keeping up with changes in its management environments such as the launch of a new climate regime on the world stage, the country's 7th Basic Electricity Supply Plan and 2030 New Energy Industry Expansion Strategy in Korea, EWP has set its new goals: become a power generation technology solutions provider, attain a facility capacity of 22,800MW, realize operating profits of KRW 1 trillion, and achieve organizational integrity level 1. It has established four strategic directions and 12 strategic tasks aligned with the new goals. EWP has implemented them faithfully to fulfill its establishment purposes such as stable power supply, economical power supply, and eco-friendly power supply.

ntroduction Sustainable Approach Economic Performance Environmental Performance Social Performance Appendix

17

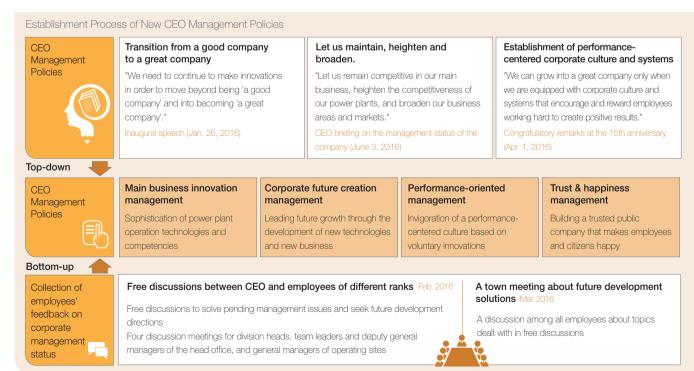
Achievement Rate of Goals per Strategic Direction

EWP has established companywide management goals for each of its visions. To meet its management goals, the company has set short- to long-term goals in each of its three values such as 'growth values,' 'financial values' and 'customer values.' It has also established key performance indicators and goals for each value following an environmental analysis through scenario management.

| Companywio | de | 2030 Goals | 2014 Performance | | 2015 | | |
|------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|------|
| Managemen | t Goals | | / | Goals | Performance | Achievement Ratio | |
| Growth | Facility capacity | 22,800MW | 10,928MW | 11,979MW | 11,087MW | → High | 93% |
| Values | Sales | KRW 10 trillion | KRW 4.6 trillion | KRW 4.1 trillion | KRW 4.1 trillion | Achieved | 100% |
| Financial | Operating profits | KRW 1 trillion | KRW 285.8 billion | KRW 1,247 billion | KRW 619.9 billion | Achieved | 497% |
| Values | Debt ratio | 123% | 136.1% | 143.6% | 121.8% | Achieved | 118% |
| Customer | Integrity level | Level 1 | 5th (Level 2) | Level 1 | 1st (Level 2) | Achieved | 100% |
| Values | KoBEX SM AAA | AAA | AAA | AAA | AAA | Achieved | 100% |

New CEO's Management Policies

EWP has reflected the new CEO's management philosophies and the employees' feedback on the company's current management status in its new CEO's four major management policies including main business innovation management, corporate future creation management, performance-oriented management, and trust & happiness management.



Sustainable Approach

Governance

EWP operates a specialist-centered BOD to invigorate BOD activities while enhancing its executive competency. It has reinforced the BOD's management oversight and counseling roles. EWP has expanded non-executive directors' management counseling and assistance functions in consideration of the company's social responsibilities and corporate sustainability.

Composition of the Board of Directors



The board of Directors consists of 4 executive directors and 5 non-executive directors. To guarantee the independence of the BOD, the senior non-executive director presides over the board meetings as a chairperson. For efficient operations, the BOD operates a secretariat, specialized subcommittees designed to secure expertise and expediency in decision-making, audit committee that makes reports on corporate audit results, and executive recommendation committee designed to guarantee transparency in the selection of CEO, non-executive directors and executive auditor.



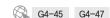


Setting the BOD's Operational Goal

EWP has established boosting profitability in corporate management through the BOD's timely management counseling as its operational goal through an analysis of management environments. The company then set its three promotional goals as follows along with its implementation tasks.

| Management environments | In need of the establishment of a BOD system that works most efficiently in a market economy | In need of improved management efficiency through the normalization of the public company's operations and the reduction of its debts | ů v |
|-------------------------|--|---|--|
| Operational goals | Boosting profitability in corpo | rate management through the BOD's ti | imely management counseling |
| Promotional goals | Boosting management efficiency through timely decision-making | Invigorating BOD's management propositions | Invigorating non-executive directors' management participation |
| Implementation tasks | Enhancement of prior deliberation of BOD agenda | Enhancement of management proposition follow-up | Invigoration of specialized subcommittees |
| Performance indices | Over 95% in the prior deliberation rate | Achievement of the company's goal in the national normalization of public company operation campaign | Over 90% attendance in subcommittee meetings |

BOD Operations and Performance Records



EWP held a total of 11 BOD meetings in 2015. To invigorate BOD operations, the company ran discussion-centered BOD meetings offering directors brainstorming opportunities and encouraging nonexecutive directors to actively participate in the process. The BOD deals with and resolves not only management issues including the sales of its shares in the Philippines Wind Farm Project and the Dangjin Eco Power Project but also CSR issues such as equity investment in photovoltaic power station projects in Miryang and Gwangju Eco-friendly Energy Town.



Present condition of non-executive director's participation

Non-executive directors' management counseling

Non-executive directors' management proposition

Reflected management propositions



Enhancement of Non-executive Director's Participation in Management

To reinforce its non-executive directors' contributions, EWP has systemized their active participation in corporate management through the public hiring of non-executive directors and on/offline provision of management information around the clock. EWP reflects their expertise-based management proposals in corporation management. It strives to further systemize their management counseling roles on a regular basis.

Non-executive Directors' Management Counseling Counseling Results Enhance competitiveness through active monitoring and participation in new & Participation in the Gveonaiu wind farm and photovoltaic power renewable energy business at home and abroad station project Reconsider problems involved in the purchase of the fuel oil stock of Yeongnam Deliberation of the modification of the agenda item (the 2nd and Thermal Power Plant and the economic feasibility of the action 3rd BOD meetings) Enhancement of information security Establishment of Cyber Disaster & Safety Center (Nov.) Establishment of the management crisis monitoring system and boosting efforts Continuous promotion of debt reduction and public company to overcome financial difficulties faced by energy companies management normalization efforts Work-level reviews of the matters relating to the promotion Continuous engagement in business feasibility study of new and renewable energy projects of the Asan Bay Tidal Wave Project

Enhancement of On-site Management

The BOD members of EWP visited Ilsan Combined Heat & Power Plant, New Dangjin Thermal Power Construction Complex, and Honam Coal Fired Power Plant and emphasized their commitment to sitecentered management and integrity in business management. At the Ilsan plant, they discussed pending issues relating to the declining demand and solutions to the situation. They carefully looked into the construction progress of New Dangjin Power Construction Complex 9 & 10. At the Honam plant, they reviewed the progress of the New Honam Project and complimented the hard work of those involved in the project. Their insight into the company's operating sites and construction projects greatly contributes to efficient decision-making.



Visit to New Dangjin construction complex 9 & 10

EWP contributes the national development by conducting business efficiently based on ethical and legal corporate management activity. With the pride, the company will become a reliable global power generation company by carring out our ethical responsibility.

Ethical Vision and Promotion System

To help realize its ethical vision, EWP set 'the establishment of an ethical corporate culture through the stabilization of a pleasant ethical culture' among employees as its target for 2015. As the three promotional goals, the company chose 'prevention of corruption, promotion of participatory ethical activities, and establishment of ethical culture'.

*Prestige Maintenance Level: The highest level among the five ethical management levels set by the FKI (Federation of Korean Industries) manual, a level deserving responsible, ethical business management

Ethical Management Promotion System

| Company vision | 2030 Most Valuable Power Company | | | | | | | |
|------------------------------|---|--|---|--|--|--|--|--|
| Ethical vision | Realization of an ethical company that grows and earns respect on the basis of integrity and ethics | | | | | | | |
| Mid- to long-term strategies | A leading company in ethical management | Establishment of a pleasant ethical culture | Enhancement of ethical competence | | | | | |
| Norms | Charter of ethics (basic norms) | Codes of conduct (criteria for actions) | Guidelines of conduct (implementation rules) | | | | | |
| 2015 goal | The establishment of an ethical corporate culture through the stabilization of a pleasant ethical culture | | | | | | | |
| Promotion tasks | Prevention of corruption Removal of causes of corruption Preemptive reflection of the Improper Solicitation and Graft Act | Promotion of participatory ethical activities Expansion of participatory programs Internalization of ethical awareness Enhancement of the system effectiveness Invigoration of employee-initiated activities | Establishment of ethical culture Internalization of ethical awareness Enhancement of the system effectiveness | | | | | |
| Performance indices | Level 1 in anti-corruption policy evaluation | Level 1 in integrity | Ethical level: *prestige maintenance level | | | | | |

Enhancement of Ethical Norms

EWP modified its ethical norms in 2015 to establish criteria for employees' job performance and behavior in association with the enactment of the Improper Solicitation and Graft Act and occurrence of violation of ethical codes by public companies in the country. EWP enhanced its codes of conduct, guidelines on disciplinary actions, and rules on crime reporting. It established bidding rules to prevent irregularities in the bidding process. Moreover, EWP expanded the application of its ethical norms to include its suppliers and dispatched and transferred employees in an effort to further prevent ethical risks.

Enhancement of Ethical Management Implementation Organizations

EWP strengthened its ethical management implementation organizations to establish and promote efficient ethical management strategies. In 2015, the company instituted the attendance of its executive auditors in the meetings of the Integrity & Ethics Committee. It upgraded the exclusive organization Ethics & Compliance Team to Ethics & Compliance Team with five deputy general managers instead of three. Also, the company increased the number of integrity audit collaboration agencies from two to five that offered company assistance in the development of jobs for those eligible for a wage-peak system, knowhow on integrity, and exemplary cases of ethical management, among others.

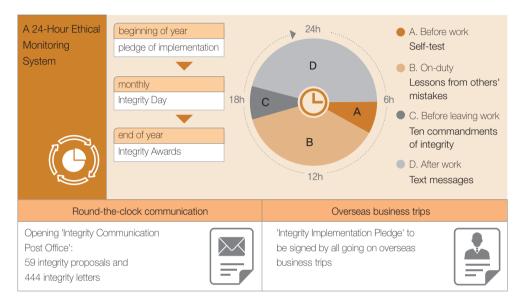
Implementation and Results of Ethical Management

Sustainable Approach

Prevention of Corruption

EWP continues to enhance its prevention of corruption through the implementation of ethical standards throughout the entire range of its operations. The company operates a 24-hour ethical monitoring system and relevant communication programs with the purpose of achieving a zero-irregularity business operations and promoting an integrity culture to prevent any type of corruption.

Economic Performance





21

Ethics Cour



Game-based ethics education

Promotion of Participatory Ethical Activities

EWP expands opportunities for employees to get involved with integrity activities through the operation of employee-initiated cultural programs. On Ethics Day of June 2015, EWP held a free discussion forum. The company produced a drama on the subject of ethics and screened it companywide, raising employees' awareness of the issue in the most effective way. In October 2015, EWP held 'a mock trial contest' with employees' active participation. EWP filmed it and posted it online.

Establishment of a Pleasant Ethical Culture

EWP has raised employees' awareness of corporate ethics and significantly consolidated the company's ethical culture through systematic ethics educational programs. In 2015, the company increased the employees' mandatory ethical education hours. It has succeeded in having all its employees internalize ethical awareness through continuous ethical education. Furthermore, EWP has introduced a game-based ethics educational program reflecting the employees' feedback about its ethical management monitoring process. For the first time among local public companies, EWP has also introduced a game-based psychological test designed to measure the actual ethical level of the entire organization, identifying matters to be improved in terms of ethical corporate culture while verifying the reliability and practicality of EMDEX*.

Ethical Management Monitoring & Feedback

EWP carries out an ethical management monitoring process for the evaluation of its implementation level and feedback through continuous monitoring. In recognition of its employees-initiated ethical activities and anti-corruption efforts including institutional improvements, EWP received a higher score in the evaluation from the Anti-Corruption and Civil Rights Commission in terms of anti-corruption corporate policies. Regarding internal integrity whose score went down slightly, EWP has carried out analysis and implemented education on ethical activities accordingly.

*EMDEX (Ethic Management InDEX): The ethical diagnosis indices developed by EWP on the basis of global standards such as ISO 26000 and GRI sustainability reporting guidelines.)



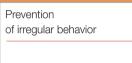
Improvement of Internal Audit Competencies

In keeping with the need of systemizing the audit system with the assistance of external experts, EWP has reinforced the role of its audit advisory group. It has reinforced auditors' independence in organization, personnel management and budget allocation by ensuring the independence of the group in organization and prohibiting unfair treatment of individuals in personnel management, among others. To further improve its internal audit competencies, EWP has hired outstanding auditors, mandated the completion of specialized education, improved individual on-the-job performance, and enhanced professional competence with the assistance of outside experts.

Operation Efforts of Internal Checks and Balances System

In a bid to manage its internal checks and balances system effectively, EWP undertakes preemptive audits, management of bribery risks, and management of new business risks. According to the scrutiny results and improvement recommendations of its internal system of checks and balances, EWP carries out preemptive audits and operates inspection systems to prevent irregular behavior from taking place.









Increased reporting largely due to improved access to reporting

Disciplinary actions Warnings to 3 individuals



Major Result of Audit Activities

In 2015, EWP undertook a variety of audit. The company reduced its annual budget by 23% and made a 14% improvement in corrective measures over the previous year. The Board of Audit and Inspection of Korea evaluated EWP to rank one level higher than in 2014 in its 2015 EWP audit.

| Major audit | Daily audits | Special reviews | Continuous monitoring | Performance audits | Financial audits | Designated audits | Labor audits | Comprehensive audits |
|--------------------------|---|-----------------|--|--------------------|---------------------------------------|-------------------|--|----------------------|
| records | 874 cases | 11,340 cases | 2,938 cases | 3 cases | 1 cases | 17 cases | 4 cases | 3 cases |
| Major accomplishments | KRW 47.2 in reduced budg spending | | 143 cases of improvement recommendations | | 150 cases of personnel measures | | One-level in the evaluation of Audit and Insp of Korea | of the Board |



Need to enhance the effectiveness of its ethical management system

Choi Yun-seok. Deputy General Manager, Ethics and Compliance Team

I think that the ethical awareness of EWP employees is extremely high. This fact is verified by their response to the company's initiatives for various integrity and ethics promotion activities. For instance, EWP received a total of 54 entries for its 'Ethics Trial' scenario contest in 2015. Meanwhile, the company introduced a game-based ethics education program in partnership with Department of Counseling Psychology of Handong Global University in 2015. It is a form of psychological test designed to measure individuals' integrity and ethics. It determines whether an individual tends to respond falsely to surveys when it comes to questions about his/her degree of integrity. Interestingly, the test results have demonstrated no discrepancy between survey results and test results. EWP plans to further enhance the effectiveness of its integrity and ethics related systems through various participatory ethics

Risk Management @ G4-14

Sustainable Approach

EWP makes all-out efforts to prevent its stakeholders from becoming involved in any financial and non-financial risks as part of a commitment to fulfill its social responsibilities. To manage stakeholders' major risks effectively, it has established a risk management system and run an Integrated Crisis Response Center.

Economic Performance

Establishment of Integrated Risk Management System

In a bid to deal preemptively with changes in its business management environments, EWP has established an integrated risk management system that addresses both its financial and operational risks. It has determined its KRIs (Key Risk Indicators) through an analysis of risk factors. It manages the core risk factors of its risk management system, per indicator, to effectively prepare for its operational and financial risks.

Integrated Risk Management System

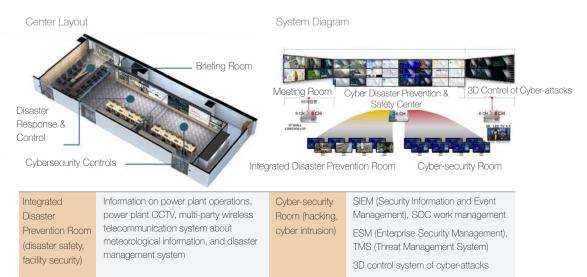
| Risks | | | Financial risks | | Operational risks | | |
|-------------------------------------|--|--------------|-------------------------|--------------------|---|---|--|
| HISKS | | Market risks | | Liquidity risks | Power generation operational risks | Fuel supply risks | |
| Key risk indicators (KRIs) | NEWC bondinterest | | Cash on hand | Forced outage rate | Fuel inventory (days) | | |
| Monitoring system | External: Bloomberg, Infomax Internal: F/X daily report, fuel account settlement system, management information system | | fuel account settlement | | Power generation performance management system Management information system | Supply and stock management system Management information system | |
| Monitoring organizations & meetings | Financial Risk Management Committee Management Strategy Meeting Purchase Record Review Meeting | | | | Management Strategy Meeting | Financial Risk Management Committee | |

*GCLNEWC:

Global Coal Index Newcastle

Operation of Integrated Risk Response Center

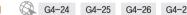
For the first time among local power generators, EWP operates a Cyber & Disaster Safety Center security in its cyber and facility operations. The center is divided into the Integrated Disaster Prevention Section and Cyber Security Section to efficiently cope with disaster prevention, facility security, hacking attempts and cyber intrusions. EWP has established a round-the-clock response system to deal with multiple types of disasters.



Sustainable Approach

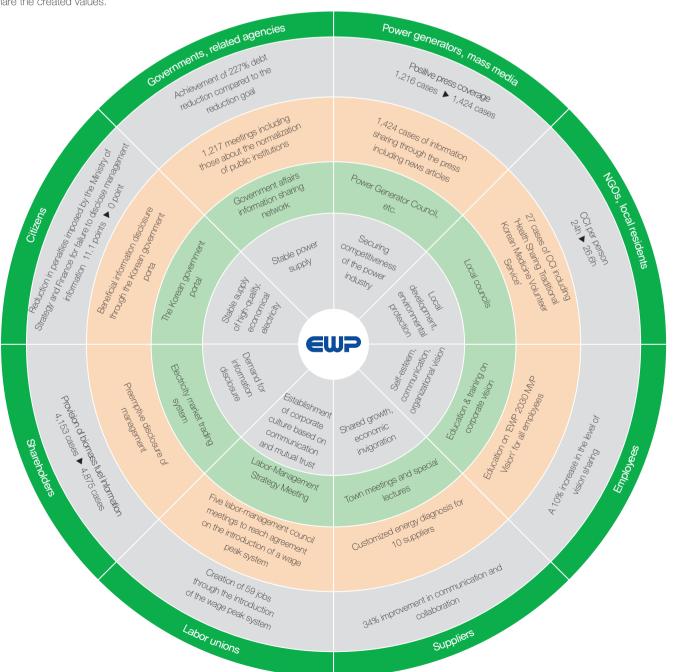
Stakeholder Engagement & Materiality Test

It is critical for EWP to communicate with its stakeholders and identify their expectations with the purpose of making people's lives happier through its sustainable growth. The company operates a number of communication channels to identify major stakeholders' interests and expectations.



In association with its value creation process, EWP divides its stakeholders into three groups such as value impact, value production and value consumption and carries out communication activities customized to the groups, respectively. The value impact group affects value creation. The value production group refers to employees who create values. The value consumption group constitute external customers who directly share the created values.

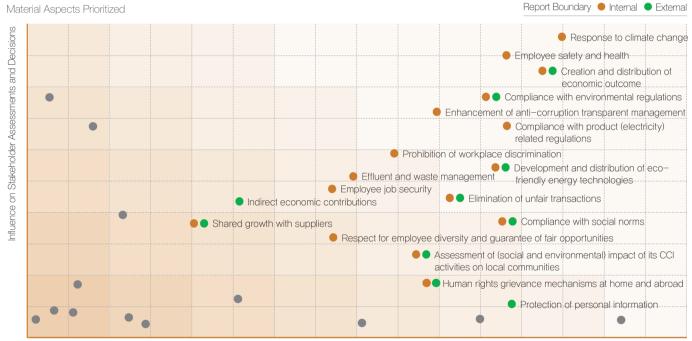




To identify sustainability management issues that internal and external stakeholders find most important, EWP carried out a materiality assessment with THE CSR, a professional sustainability management agency. The company selected 31 issues including its major issues widely covered by the mass media in 2015 according to the international standards of corporate social responsibilities. To determine their priority, EWP conducted a questionnaire survey among 272 internal and external stakeholders of the company. The company's Sustainability Management Task Force Team selected 18 issues in accordance with GRI G4 Guidelines. It sought external experts' opinions at the validation stage of the reporting contents.







Significance of Economic, Environmental, and Social Impacts

Reporting for Result of Materiality Test



Sustainable Approach

Interviews with Stakeholders



Increase the proportion of its renewable energy

Ahn, Byung-ok Director, Institute for Climate Change Action



26

Through stable power supply, EWP has improved people's quality of life and contributed to the nation's economic development in a significant way. However, it is also true that the company is faced with a number of challenges that are hard to overcome with past paradigms. In January 2016, the World Economic Forum in Davos pointed to climate change as the most serious threat to the world economy. It has been some time that new investments in new and renewable energy surpassed those in coal and nuclear energy combined. Moreover, the Paris Agreement on Climate Change was concluded in December 2015, with the launch of new climate change measures beginning to emerge around the world. Pressure will continue to mount in the international community for virtual elimination of fossil fuel consumption. Given the situation, it is time for EWP to cut down on its consumption of coal and increase the proportion of its renewable energy power generation from a long-term perspective.



Thanks for the supports on SMEs

Hwang, Keai-yoon CEO, Kwangsung CO., LTD

My company was facing a hard time due to a protracted recession in the shipbuilding industry when I happened to find out about the test bed system through EWP's Shared Growth Center. As my company had never supplied goods to a power company before, partnership with EWP was hard to expect. However, we were able to complete an SCR NOx analyzer test bed opportunity successfully over six months at Honam Thermal Power Plant Complex through the test bed system, and thus we were allowed to supply analyzers to Honam and Ulsan Thermal Power Plant Complexes. We have acquired New Technology Certification and Performance Certificate from the Small and Medium Business Administration, so that we are now able to execute sole source contracts with the five power companies in Korea. As a participant in the SME export support project, we receive financial support from EWP in terms of tariffs and export documentation fees, which we greatly appreciate.





Win-Win Partnership

Cho, Jeong-kyu General Manager, KEPCO KPS



KEPCO KPS is in charge of EWP's regular maintenance and periodic preventive maintenance work. Coal-fired power generation is becoming a subject of challenges worldwide while fine dust has become an emerging issue domestically. Thus I think that the most compelling sustainability issues facing EWP are its carbon emissions and dust generation. In Europe, including Germany, it has been some time since GHG emission and fine dust generation emerged as key issues. Outdated or less efficient power stations are being phased out. I think EWP could benchmark the experiences of European power companies. In partnership with EWP, our company focuses on the prevention of industrial disasters and the provision of high-quality maintenance service for stable power supply. KEPCO KPS hopes that the partnership between our two companies will continue to result in EWP's sustainable growth and our shared growth down the road.



Execute Truthful Social Contribution

Bae, Jeong-hee Director, Senior Welfare Center, Jung-gu, Ulsan Metropolitan City



I think that EWP gives a great deal of thought to the interrelationship between social welfare projects and its line of business and makes wholehearted efforts for the implementation of the welfare programs it has chosen. For instance, the Forest Experience Program designed for seniors in local communities was proposed by EWP. It capably matches with EWP's vision, "We will make stable, economical and eco-friendly energy that brings happiness to humanity." EWP employees regularly visit our facility and reach out to us. Most impressively, its CEO and staff come to our facility to prepare and serve rice cake soup for the residents of this facility every Lunar New Year. As a welfare facility, we would like to make a humble request that information be provided to relevant welfare facilities including ours as soon as your quarterly or annual welfare programs are set so that our diverse welfare programs can be implemented much more effectively.



It is crucial to supply energy in a stable, economical way.

Jung, Se-woo CEO, THE CSR

Korea is heavily dependent on imported energy, where the fluctuations in oil price have a significant impact on the national economy, which in turn makes stable energy supply extremely important in the country. EWP is an important public company that is responsible for the stable supply of electricity to not only the general public but also key industries. Therefore, it could impact the wellbeing of the entire country whenever it suffers disruption in its stable electric power supply due to forced outage. As such, I believe that the company's most important social responsibility is to secure stable, economically-friendly, and economical power supply to help the nation improve the quality of life for all its citizens. I also believe that EWP must continue to expand its capacity to produce eco-friendly energy to respond effectively to the Paris Agreement on Climate Change and the paradigm shift of energy about fine dust pollution, among others.



Employees' Opinions in a Nutshell



Economy I think that excessive budget cuts may lead to occupational it would be quite useful for EWP to accidents or forced outages and adequate budgets should therefore

Environment I find it crucial to build power plants taking into account their economic and environmental impact within the framework of rapidly changing environmental regulations. I by encouraging its employees to am sure that if it finds a solution to this reinforce their loyalty to the company challenging situation, EWP will have a through systematic support and bright future.

Local Communities | suppose that enhance its cooperation with local communities and related agencies be requested and used in proper ways. and discover business and tasks that will allow all the parties involved to achieve win-win situations.

> Employees I believe that EWP can fulfill its social responsibilities educational programs.

External Stakeholder's Opinions in a Nutshell



Governments & Related

Organizations Invest in the development of new energy sources and the foundation for eco-friendly lifestyles in the midst of global warmina.

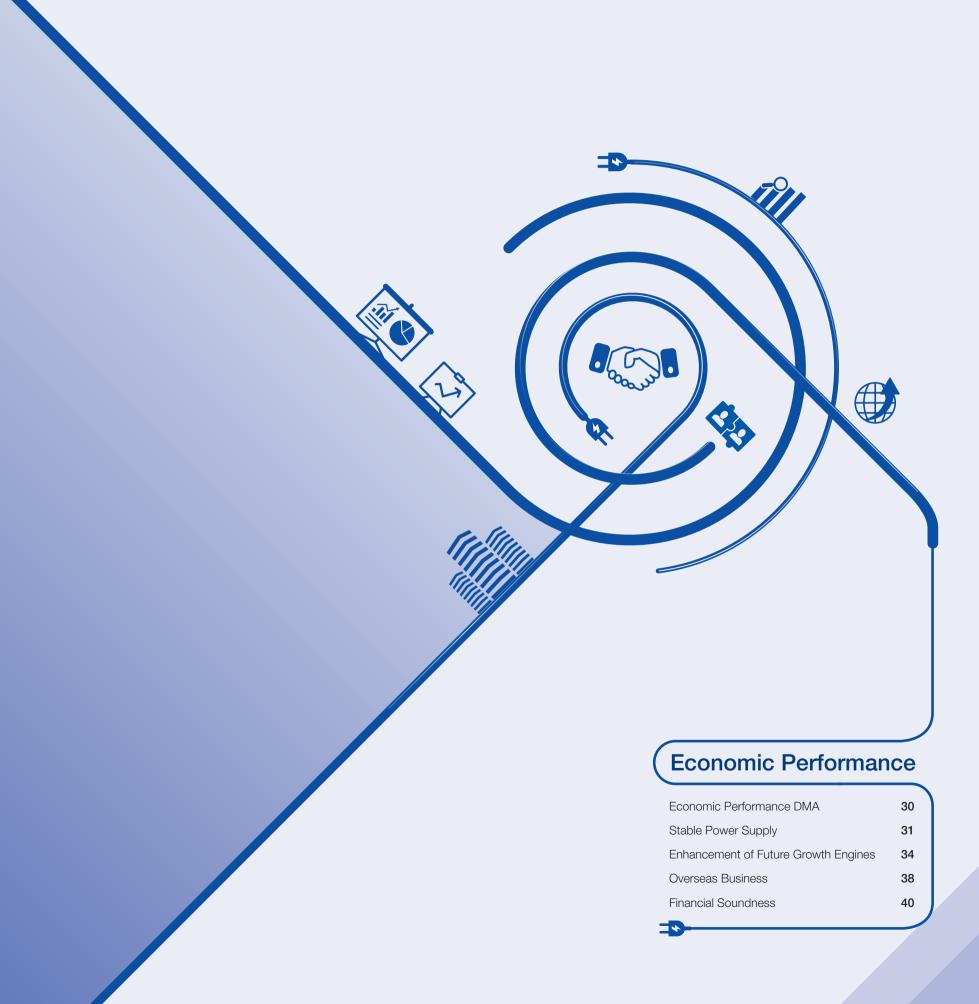
Local Communities Strengthen cooperative relations with local communities and related agencies. I suppose it would be useful to discover business and tasks that will allow all the parties involved to achieve win-win situations.

Power Companies Heighten its level of morality and ethics as a public company so that EWP can maintain fairness in its dealings with the suppliers. Also, make its new labor-management culture take root.

General Public I don't think that the general public knows much about FWP Therefore I hope that FWP will boost its corporate marketing activities.

We walk with you

As a leader in the energy industry, EWP will strive to create a sharing, sustainable future with a devotion to the basics while exhibiting exceptional passion and a thirst for new challenges.





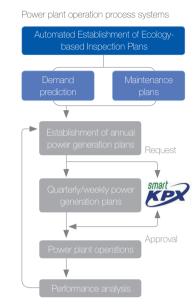


Stable electricity supply is the company's establishment purpose and the citizens' mandate. Korea experienced the seriousness of unstable electricity supply through rolling blackouts it had to implement in the past. EWP has established power generation operation processes for stable electricity supply. Furthermore, the company establishes annual power generation plans based on predictions of supply and demand for electricity. When external changes occur, it establishes additional weekly, monthly and quarterly plans.

Inspection and Maintenance of Power Generation Facilities

The importance of inspection and maintenance service for its power generation facilities is on the rise as the facility factor accounted for 66% of breakdowns in 2014. It has thus enacted four promotion directions to minimize the occurrence of the breakdown of power generators through the establishment of a sustainable breakdown-free operation system. As a result, EWP has achieved its second period of amassing 200 days free of forced outage and 563 days of zero forced outage in all the generators at Dangjin Coal Fired Power Complex

The Establishment of Sustainable Breakdown-free Operation System



Minimization of the occurrence of power generator breakdowns through the establishment of a sustainable breakdown-free operation system Virtuous cycle maintenance of Reinforcement of vulnerable Disclosure of operational information Promotion of technological prowess prevention, diagnosis, and solution to the public and introduction of new improvement programs customized to facilities reflecting the operational characteristics of each facility 3 step (prevention, facility diagnosis, Reinforcement of vulnerable facilities Establishment of double inspection Promotion of technological and solution for problem) actions for per life cycle (initial post-completion system of power generation facilities competency improvement programs preventive inspections and structural period, stabilization period, and wearcustomized to job characteristics Improvement of technological prowess and implementation of cost (shift work, regular work, professional improvement of maintenance service out period) reductions Achievement of the second period Over 300MW of electricity supply (EWP) Double check for abnormality Reducing overtime work by six hours of amassing 200 days free of forced from Ulsan Oil Fired & C.C Power symptoms in facilities per person a month (Manufacturer) Expanded disclosure Improvement of technological Surplus achievement in breakdown Operation of a minimum of three out taking into account operational prowess by 5% compared to the prevention competitiveness index of four power generators at Yeosu previous year (goal/performance: 1.320/1.492) National Industrial Complex Shortening maintenance periods Technical diagnosis for business and Achievement of amassing 637 days for households Reducing KRW 4.1 billion in costs free of forced outage at Honam

EWP has continued making efforts to carry out inspections and maintenance services for its power plants with the purpose of supplying electricity in a stable way. As a result, it has achieved 0.556% and 92.44% in forced outage rate and operating rate, respectively, figures higher than those disclosed by the *NERC (North American Electric Reliability Corporation).

Thermal Power Plant

Forced Outage Rate

■ EWP Unit: % 4.93 4.67 4.67 0.88 0.098 0.056 2013 2014 2015

Operating Rate



*NERC: North American Electric Reliability Corporation



Sustainability Context

Following the conclusion of the Paris Agreement on Climate Change in 2015, demands have been rising worldwide for the elimination of coal-fired power generation and the expansion of eco-friendly renewable energy. EWP has to enhance its business competitiveness through the diversification of its business areas and the development of new technologies.

Our Strategy & Commitment

EWP is expanding its business areas through the creation of new and renewable energy complexes and the diversification of biomass fuel while supplying electricity in a stable way through its domestic and overseas projects. To that end, EWP reinforces its future growth engines. Moreover, EWP maintains a sound financial structure and boosts fundamental competitiveness according to its mid- to long-term roadmap in order to become a globally competitive public company through sustainable corporate growth.

Our Progress & Next Step

EWP has secured a high level of stability in electricity supply by reinforcing the inspection and maintenance service of its power generation facilities and making efforts to reduce fuel costs, among others. To boost its profits, EWP carries out new business including the creation of domestic wind farms and the construction of biomass power plants. It has strengthened its debt reduction and risk management systems to secure financial soundness.

Issue 2 Creation and distribution of

economic outcome

Issue 16 Indirect economic contributions

Key Performance Indicator



JPS operation Business: achievement of net profit



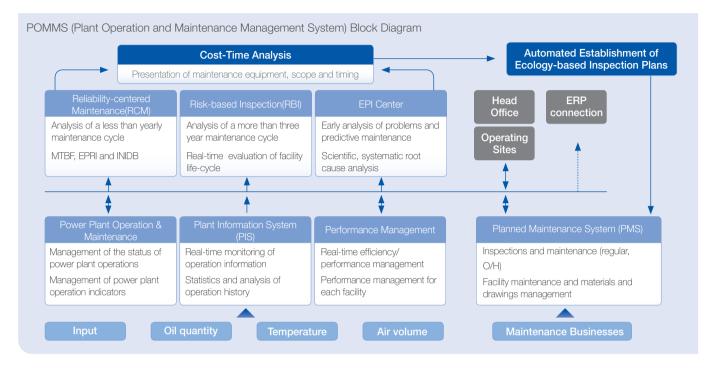


Economic Performance

Integrated Management of Power Generation Operation & Maintenance

EWP systematically manages the proactive maintenance and breakdown prevention of its power generation facilities through *POMMS. It carries out preemptive maintenance through a prediction & warning system in order to prevent forced outage and realize stable electricity supply.

*POMMS · Plant Operation and Maintenance Management System



Power Generation Facility Management System

Plant Information Monitoring of the operational status of power generation facilities including the analysis of major equipment operation trends, continuous System (PIS) monitoring of issues in question, and increased convenience of access to inspection items of power generation facilities Establishment of a database for all types of preventive inspections for each facility, maintenance items and frequency; establishment Reliability Centered of plans for preventive inspections and maintenance services based on reliability analysis results; and computerized monitoring of Maintenance (RCM) implementation results and facility status online Predictive Warning Early detection of abnormality in power generation facilities, implementation of prediction-based maintenance through cause analysis measures, and scientific and systematic analysis of breakdown causes Risk Based Inspection Analysis of facility breakdown rates and loss amounts due to breakdown; inspection of the capacity of facilities in operation and prediction of their remaining life span; and computerized management of maintenance plans based on the prediction results

Minimization of Transmission Restriction at Dangjin Coal Fired Power Complex

Following the determination of the construction of 345kV transmission lines in the Dangjin area, the output cutback operation of Dangjin power generators No. 3 - 8 has become inevitable. EWP has established plans to minimize its output cutback amounts and developed a simulation program designed to achieve optimal output distribution in the Dangjin Coal Fired Power Complex. As a result, EWP has achieved a 321GWh increase in power generation corresponding to KRW 1.6 billion in increased revenue.

Upgrade of the Management Guidelines for Usage of Complex Equipment

Following the completion of new large-capacity and high-efficiency power generation facilities, the usage of complex equipment has dropped, worsening the productivity. EWP upgraded the management guidelines for its usage of complex equipment. In 2015, EWP reduced the period of forced outage and increased the operation rate, which resulted in KRW 4 billion and KRW 12.2 billion in revenue and cost reduction, respectively.

*Output cutback: Operating power generation facilities at a lower output level automatically or manually as needed

Economical Power Supply through Fuel Cost Reductions SDG7



Fuel Purchase Process

It is necessary to cut back on fuel costs that account for 70-80% of the total power generation costs to enable a more economical power supply. To reduce fuel costs, it is crucial to secure economical procurement of power generation fuels. EWP establishes its fuel procurement plans based on a demand forecast for electricity and its power generation plans. EWP has developed a comprehensive valuation tool through in-house research. It operates a purchase process based on the tool.

| STEP 1 Prediction of Power Demand | STEP 2 Power Generation Plan | STEP 3 Supply Plan | STEP 4 Purchase Plan | STEP 5 Purchase Contract | STEP 6 Maritime Transport |
|---|---|---|--|---|---|
| Korea Power Exchange | Power Generation Division | | Fuel Reso | urce Team | · · |
| Prediction of power demand based on GNP, industrial growth, and recent trends | Building a power source portfolio based on demand for electricity Establishment of power generation plans per power plant and year | Establishment of a supply plan of a power supply source portfolio | Establishment of a purchase plan including purchase methods, quantities and shipping time considering market situations for each type of fuel(3-6 months in advance) | International competitive bids -In-kind bids -Long-term bids -Negotiations with long- term contractors | Shipping after finalizing a shipping schedule with a relevant shipping company according to the purchase contract |

Preemptive Purchasing Strategies Customized to Procurement Markets

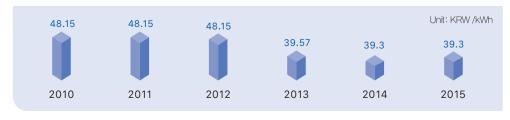
To maintain its economic superiority in the bituminous coal purchase process, EWP identifies costreduction factors in each procurement process and takes actions on the findings. As a result, EWP saved KRW 120 million in the purchase process and KRW 1.4 billion in demurrage in the unloading and storage processes in 2015 when compared to 2014.

| | Purchasing | Unloading | Storage |
|-------------------------------|--|--|---|
| Operation Status and Problems | Price risks when index rises from artificial stimulus | Decreased unloading efficiency due to aging wharf facilities at Dangjin Wharfs 1 & 2 Increased difficulty facing pilot boats at Wharf 3 | Low efficiency in coal storage due to the maintenance of distance between different types of coal |
| Improvements | Micro-analysis of index over 5 years - Prevention of price risks in the first quarter through postponing the introduction of the index link system | Increased usage of the new wharf (Wharf 3) and improved stevedoring efficiency - 3 Achievement of a 94% usage rate for Wharf 3 reducing demurrage at unloading wharves | Integrated storage of different types of coal through prior grouping of coal that can be stored together and subsequent improvement in the overall space usage - Contribution to reducing demurrage through securing storage space and improving storage efficiency |

Sophistication of Market Situation Analysis System for Bituminous Coal

Raw material prices keep falling largely due to the global economic recession. Major economies have changed their policies. EWP set up an analysis system enabling it to deal with global changes in a timely manner. As a result, the company has been able to make reasonable decisions on the purchase of bituminous coal through systematic management of internal and external factors, constant monitoring of price fluctuations of each type of coal, and micro-monitoring of future prices. The purchase frequency jumped from 32 to 40 times between 2014 and 2015. The advance purchase timing has also been shortened from 94 to 77 days between the same period. As a result, EWP ranked first in fuel costs for standard thermal power generation for six straight years, underscoring its most economical fuel procurement practices.

The Fuel Price of Bituminous Coal



Ranked 1st in fuel costs for standard coal-fired power generation for six straight years

Economic Performance

Enhancement of Future Growth Engines

Environmental demands for the power generation industry to respond to climate change are on the rise. Competition with private power generation companies is being accelerated. For EWP to successfully carry out its mid- to long-term strategies and grow into a sustainable company, the company must enhance its R&D competency and new business designed to secure stable profitability and equip itself with competitiveness in various future-oriented technologies.

Development of New Business

Domestic Business Development Process



Development of New Power Sources

In order to develop power sources in the domestic electric power market, the introduction of the new power sources should be reflected in the government's biennial Basic Electric Power Supply Plan. To submit a letter of intent to build a power plant that meets the requirements of the government about the operation of the local power industry and electricity market, EWP has secured land for new power plants including the replacement of New Honam Project and developed new and renewable energy as part of its all-out efforts to develop diverse types of new power sources.

Business Development based on Differentiation Strategies G4-EC7

EWP promotes the development of new business based on its differentiation strategies including the maximum consideration of local characteristics by regional development hubs. EWP acquired the power generation business license for its Yeonggwang Wind Farm in November 2015 whereby the company is building a '140MW class Wind Farm,' the largest in Korea. the company has signed an MoU with Hoengseong-gun for the construction of a new biomass power complex.

EWP is striving to develop a new energy industry through the combination of new & renewable energy sources and the creation of counties independent in energy, among others. The company's combined agriculture project using hot wastewater from its Dangjin Coal Fired Power Complex, which recycles waste heat to produce energy, has been selected by the Ministry of Agriculture and Forestry. EWP also carries out Dangjin Future Energy Town Creation Project taking advantage of the infrastructure of its Dangjin Coal Fired Power Complex. It has also executed an MoU with Goheung-gun about the construction of a biomass Power Complex in an effort to help the country become totally independent of fossil fuels for the first time in Korea.



34

Dangjin Thermal Power Plant Waste Heat Recycling Project

Securing Future Technological Competitiveness

EWP secures high value-added creation type core technologies and seeks to find profit creation type future growth engines through systematic and constant technological development. It has set its R&D vision, and established four major promotion strategies.

R&D Strategy System

| Vision | 2030 Most Valuable Power Company | | | | | | | |
|----------------------------|---|---|--|---|--|--|--|--|
| R&D Vision | Securing G | Securing Global Top 10 Power Generation Technologies | | | | | | |
| Implementation Strategy | Future-oriented investment Execution decisions | tion of large-scale steady Differentiated select tasks concentration | | | | | | |
| Business Area | Thermal Power | Dispersed electric source/power ICT | | New & renewable and GHG emission reduction | | | | |
| | Retrofit technologies Fuel & combustion technologies Cutting-edge power generation operation technologies | Dispersion type power generation technologies Energy storage technologies Electric power ICT technologies | | New & renewable energy technologies GHG emission reduction technologies Resource recycling technologies | | | | |
| Goal | Power generation efficiency: coal 45%, combined 61% | Development of USC CO ₂ original technologies, remote control, IoT, 3D printing | | New & Renewable Energy 3GW CO₂ reduction, 30-year BAU 20% | | | | |

Economic Performance Environmental Performance Social Performance

R&D Infrastructure and Cooperation Network

EWP boosts the efficiency of its R&D activities through outstanding infrastructure and a cooperation network. It exchanges information and research assistance with KEPCO Research Institute and other local power companies. It offers development funds and test-bed platforms to both big and small businesses in the country. The company provides ideas to colleges and local governments and promotes commercialization of R&D results. It has built mid- to long-term R&D cooperative relations with external R&D institutions.

*Test-Bed: a platform, including environments, systems and facilities, designed to test the performance and effectiveness of new technologies, products and services

Infrastructure and Cooperation Network



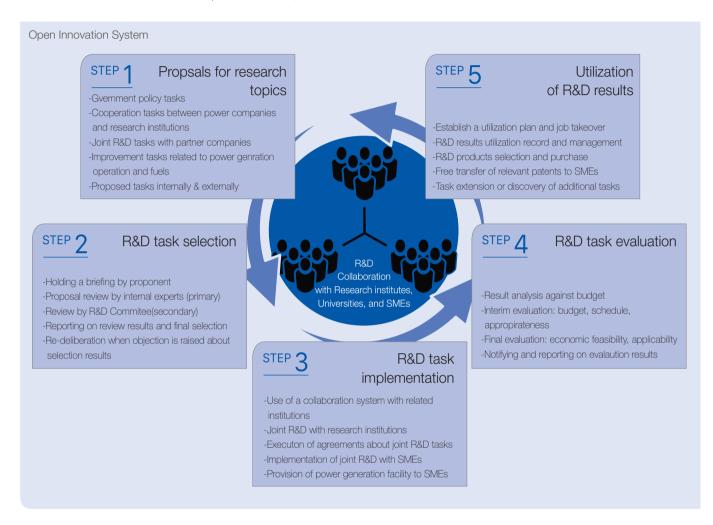
R&D Tasks and Promotion Results

| | 2013 | 2014 | 2015 | 2016 |
|--------------------|---|---|---|---|
| Major tasks | Engineering technology development for a 30MW class LC biomass power plant Securing design technologies required for a Donghae 30MW class LC biomass fluidized bed boiler | Development of a 5MW class biogas turbine combined heat & power generation system Completion of the development of the commercial product of a combined heat & power plant | Localization of the technology for 501F gas turbine blades and vanes Local development of WH type gas turbine blades, stages 1 & 2 and 2nd stage vane pumps | Development of high value- added chemicals manufacturing technologies through the integration of CO ₂ capture and bicarbonate of soda production |
| Performance record | | Localization of the technology for 501D5 gas turbine #1-3 blades Securing manufacturing technologies for gas turbine compressors and steam turbine HP, IP, LP rotary wings | Development of low temperature type SCR denitrification facilities for vertical type HRSG at combined power & heat power plants Operation of low temperature type SCR denitrification facilities and | technoloy (5MW) that can manufacture high value-added chemicals at the same time CO ₂ is eliminated |
| | | | registration of 6 relevant patents | |

Economic Performance

Operation of Open Innovation System

To achieve its vision - Securing Global Top 10 Power Generation Technologies, EWP runs an Open Innovation System designed to propose R&D tasks and promote joint R&D efforts. The system involves R&D collaboration with research institutes, universities and SMEs.



Implementation of Strategic R&D

To preempt superiority in technological competitiveness, EWP has devised a collective intellect based technology roadmap and implements strategic R&D. It has devised a strategic roadmap that includes manpower and investment plans together with the specification of technologies to be secured. It is a longterm plan spanning from 2015 to 2030. Most notably, the company launched its Technology Planning Team in 2015 to supplement its strategic R&D momentum, increasing the number of specialized staff from three to six and investing KRW 5.6 billion in strategic R&D efforts. It also increased the frequency of meetings of the R&D Committee along with the ratio of deliberation and resolution cases in 2015, dealing with four government R&D projects and seven R&D collaboration project.

Two-Track Operation of Exclusive R&D Departments

EWP carries out R&D activities efficiently through strategic R&D centered on government projects and exclusive management and operation of shared growth R&D with SMEs. Strategic R&D department is in charge of the strategic promotion of mid- to long-term government tasks. Shared Growth R&D Department is responsible for the maximization of Big and Small Business Matching Research of technologies. The company maximizes its R&D synergistic effects through the realization of two-track R&D operations.

Strategy R&D Investment



Joint R&D Promotion with SMEs

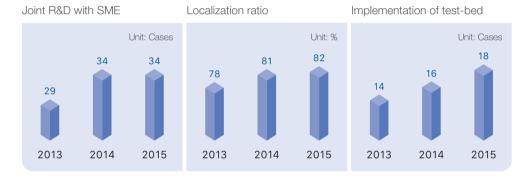
To build a sound supply network of power generation equipment and materials, EWP promotes joint R&D with its small- to mid-sized suppliers. The company has set two directions - the increase of the localization ratio for key components and commercialization-centered joint R&D. As a result, the company has won 'the SMBA Technology Cooperation Partner Discovery Award' for eight consecutive years for the first time among public companies.

Efforts to Enhance Localization of Power Generation Equipment & Materials

EWP actively promotes the localization R&D of power generation equipment & materials to reduce risks involved in securing foreign maintenance parts and components and establish an empirical virtuous circle system of domestic R&D products. The company localizes core components and parts that have been entirely imported from overseas through joint R&D with its small- to medium-sized suppliers. It supports reliability validation through the implementation of test-bed for SMEs' self-developed goods.



Task Discovery Award by SMBA



| Classification | STEP 1 (2009) | STEP 2 (2012) | STEP 3 (2014) | | | | |
|---|---|--|--|--|--|--|--|
| | Establishment of localization research strategies | Localization research strategy rolling | Localization research strategy rolling | | | | |
| Period | 2006.1~2008.12 | 2009.1~2011.12 | 2012. 1~2013.12 | | | | |
| Analysis objects | 5 operating sites including Dangjin Thermal Power Plant Complex | | | | | | |
| No. of foreign purchase items (KRW 100 million) | 1,492 cases (999.5) | 923 cases (513) | 628 cases (366) | | | | |
| No. of localization items | 249 cases | 116 cases 73 cases | | | | | |

Promotion of Joint R&D

EWP promotes commercialization-centered joint R&D. It provides domestic and international marketing opportunities through direct purchase of newly developed products. It discovers and cultivates globally competitive small- to medium-sized businesses and R&D intensive startup companies. Moreover, EWP expands the implementation of its profit-sharing scheme based on joint R&D.

Joint R&D Promotion Results



Sales of Direct Purchases



Economic Performance

Overseas Business

Outlook of the World Demand for Electric Power

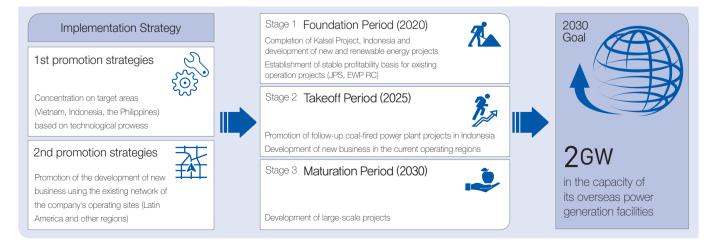
According to the IEA's forecast of the global demand for electric power, the demand of non-OECD countries for electric power is estimated to account for more than 80% of the total increase due to the economic growth and demographic increases in developing countries. As the Paris Agreement on Climate Change has gone into effect, it is predicted that investments in new and renewable energy power generation business will expand significantly. In keeping with the worldwide trends in response to climate change, EWP has made the best use of its technological prowess and local networks around the world to secure leadership in various developing countries' electricity markets.

Outlook of Increases in World Demand for Electric Power 2012-2014



Current Status of Overseas Projects

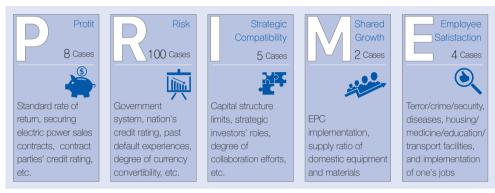
EWP has set up a mid- to long-term roadmap to preempt the electricity market of the developing world including Vietnam, Indonesia and the Philippines and expand its presence in areas where it is currently operating. It is striving to achieve its goal of 2GW in its overseas power generation facility capacity.



Overseas Project Development Process

EWP makes decisions on its overseas project development according to a thorough process including a feasibility review by the Overseas Business Selection Committee to secure objectivity in the review, the project risk review by Risk Management Committee, and the review of the companywide investment priority by the Investment Review Committee. For the successful promotion of overseas projects, it has set five major feasibility review principles (PRIME) in the areas of profit (P), risk (R), strategic compatibility (I), mutual growth (M) and employee satisfaction (E). It has established a 'Risk Management System' that presents a standard rate of return through quantitative risk evaluation.

Risk Management System



Overseas Project Development Process Collection of project information Feasibility studies Overseas Business Selection Committ Risk Management Committee Investment Deliberation Committee BOD Project commencement

J/V establishment

Current Status of Overseas Projects

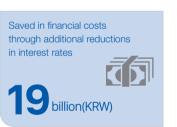
The Kalsel Indonesia Project

EWP is carrying out the Kalsel Indonesia Project that it won in 2012 through an open bid. In 2015, the company met the requirements of the credit group, EPC and local partners through the minimization of additional financial burdens and deposits promoted with the purpose of concluding the negotiation about the procurement of financial resources, and cost reductions based on the renegotiation of the industrial water fees. Moreover, the company saved KRW 19 billion in financial costs through additional reductions in interest rates following the company's systematic introduction of competition among financial institutions.

Jamaica JPS Operation Project and the US EWP RC

EWP has promoted improvements in mid- to long-term profitability of its core overseas projects such as Jamaica JPS and the US EWP RC. At JPS, the company accomplished fundamental improvements in profitability through more fundamental approaches like improvements in the electricity bill regulations. At EWP RC, EWP enhanced the competitiveness of the company through increases in the operation of the CPH power plant and the profitability of the biomass power complex. Through such efforts, the company has achieved a surplus for three consecutive years at both Jamaica's JPS operation project and the American EWP RC project.





Financial Soundness

EWP has devised a mid- to long-term financial plan after analyzing internal and external circumstances to achieve a sustainable and sound financial structure while making reasonable budget operations. In 2015, EWP endeavored to secure financial soundness in accordance with its mid- to long-term roadmap.

Establishment of Mid- to Long-term Financial Plan

EWP set a mid- to long-term financial plan designed to systematically implement its 2030 Mid- to Longterm Management Strategies. It has set its performance goal and secured its financial soundness by selecting implementation tasks aligned with its mid- to long-term roadmap.

| Mid- to | 2015 | ~2018 | ~2030 - Growth-oriented financial plans setting |
|------------------|---|--|---|
| long-term | -Boosting financial soundness | -Systemizing response to future challenges | - Upgrading companywide risk |
| roadmap | -Systemization of financial risk management | -Boosting financial structural soundness | management system |
| | -Efficient asset management | -Upgrade of asset management | - Improvements in productivity |
| Performance goal | A competitive public company that | t maintains a sound financial structure | and achieves sustainable growth |
| 2015 | Boosting financial soundness | Systemization of financial risk management | Efficient asset management |
| implementation | Establishment of sustainable, sound financial plans | | Preemptive response to carbon emission |
| tasks | Improvements in cash flow through increased | situation analysis | reduction technologies |
| | profitability | Preemptive financial risk management through the | Market expansion through collaboration with the |
| | Restructuring the business portfolio through the | implementation of debt reduction | private sector |
| | establishment of an optimal power source mix | Strategic fuel purchases and securing cost competitiveness | Profit management through the stabilization of the independent accounting of business units |
| | | Devising ways to improve profitability | Boosting usage rate |
| Monitoring | Strategic asset management system | Integrated risk management process | ERP (Enterprise Resources Planning) |
| | Debt Management Committee | Financial Risk Management Committee | Analysis of budgets, final accounts, and general |
| | Investment Review Committee | 'Monthly financial plan review meetings | management status |
| | | - | Budget Deliberation Committee |

Efforts to Secure Financial Soundness and their Outcomes

EWP carried out an analysis of the patterns of its past performances in stability and profitability in a bid to secure financial soundness. It turned out that the company needed to make improvements in its profitability while showing fairly good performance in stability. As a result, the company set improvements in its financial soundness as one of its implementation tasks in 2015. It chose the enhancement of profitability, debt reductions, and enhancement of the risk management system as its three major improvement tasks for the year. At the end of the year, EWP surpassed annual targets in all key areas such as stability, profitability and growth potential. It was presented with the 16th Financial Innovation Award hosted by the Ministry of Strategy and Finance, for the first time among public companies in the country.



Financial Innovation Award

Stability Debt ratio performance Unit: % goals 143.6 136.1 121.8 118 2013 2014 2015



Growth Potential Asset increase rate

2014 2015

Enhancement of Profitability

To make improvements in its cash flow through enhancement of its profitability, EWP has reduced costs and improved its power generator operation rate. Also, EWP achieved the highest rank in cost reductions for standard coal-fired power generation through the standardization of internal and external variable management including market prices and macroeconomic variables. It increased profits through value increases of assets denominated in foreign currency. As a result, the company achieved KRW 454.9 billion in net income in 2015, the largest since the company inception.

Debt Reductions

Through highly intensive self-help efforts, EWP reduced its overall debt in 2015 by KRW 588 billion compared to its goal KRW 329.5 billion. The company also reduced debt by an additional KRW 79.6 billion by discovering and implementing extra tasks in addition to its original debt reduction plan. With the additional resources, EWP expanded investments in its future. It has set an allowable limit on its debt ratio and carried out debt impact assessments according to a debt impact assessment process. It strives to prepare reasonable budgets through enhanced feasibility evaluation of project budgets and effective operation of Deliberation Committee.



Debt Management Committee



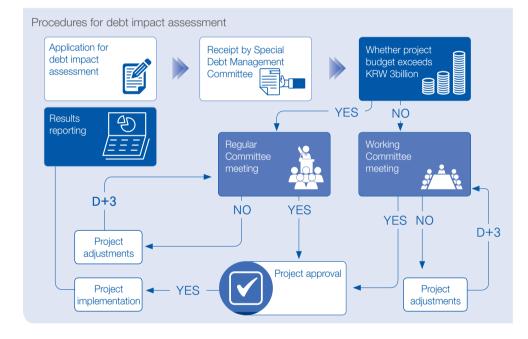
No. of deliberation 221 cases handled in

cases

25 meetings

Effects

Curbing debt increases by KRW 128.5 billion



Enhancement of Debt Reduction Monitoring Activities

| Management Efficiency Improvement Committee | Debt Management Committee | Financial Risk Management Committee | Sub-committees in various fields | |
|---|----------------------------------|--|----------------------------------|--|
| Finalization of debt reduction plans | Establishment and review of debt | Analysis of environmental changes | Establishment and review of | |
| Discovery and management of additional | reduction plans | Market and operational risk management | implementation tasks t | |
| tasks | Debt impact assessment | | Prior debt impact assessment | |

Enhancement of Risk Management System

To maintain the stability and soundness of its financial structure, EWP has established and managed an integrated risk management system including financial risks and operation risks. In 2015, EWP measured and managed foreign currency VaR to address its financial risks. It implements prediction of foreign currency fluctuations and adjustment of hedge ratios. Also, to cope with its operational risks, the company monitors its forced outage rate and detects and counters power generation operational risks. By monitoring fuel consumption fluctuations, it secures a stable supply of fuels.

*VaR (Value at Risk): the maximum amount of losses possible

We take on new challenges

We actively embrace new challenges
We will overcome new environments together.
EWP copes with energy issues including response to global climate change and create a co-existing future through the development of green energies.





Green Management

EWP has promoted eco-friendly management activities under the conviction that taking a series of its activities designed to reduce GHG emissions and environmental pollutants is its critical social responsibility.

Goal for Green Management

EWP has defined green management as incorporation of its traditional environmental management into sustainability management. It has built its own green management system. Most notably, it has set its green management goals aimed at taking preemptive measures to fight climate change.

Green Management System and Strategy

EWP continues to take all the necessary supervisory and preventive measures keeping in contact with its stakeholders. Through an environmental monitoring system, it discloses its power plants' data on air pollution, water pollution and emission concentrations. For the first time among local power plant operators, EWP runs its own green management system and discloses comparative data on the implementation of green life at the level of both operating sites and individuals.

Green Management Performance Evaluation G4-EN29

To build a consensus on green management among all its employees and enhance the organizational capacity to promote green management, EWP runs internal performance index designed for improvements in its green management. The evaluation results are reflected in its incentive program. It continues to upgrade the performance indices by taking into account internal and external environmental changes. In addition, to boost its employees' awareness of green management, it has developed its own green management system and green management performance evaluation indices, which has motivated its employees to take part in the companywide effort.

Green Management Evaluation and Performance

| Indices | Detailed indices | Evaluation Items | 2015 Performance |
|---|---|---|-------------------------------|
| Compliance with environmental regulations | Compliance with environmental regulations | Compliance with emissions allowances, compliance with permit and license conditions, proper management of emission and prevention facilities, and appropriate management of chemicals | Environmental accident "Zero" |
| | Green management | Designation as a green enterprise, ISO 14000/9001 certification | Qualification maintenance |
| | Purchase of Green Products | Over 90% in the purchase rate of green product | 97.9% |
| Improvements in green management | Improvements in green management | Decreases in pollutants and waste, and improvements in environmental facilities and relevant work | - |
| | Proper management | Efforts to recycle waste (goal: over 85%) | 90% |

Compliance with Environmental Regulations (34-EN29)

EWP manages and complies with domestic and international environmental regulations and other requirements that directly correspond or relate to the environmental aspects of all its activities, production and services. Most notably, EWP takes active approaches to environmental management through the application of emission allowances that have been voluntarily set above the standards for green enterprises.

Disclosures on Management Approach Gyeongju Wind Farm(Gyeongju, Korea

Environmental Performance

Sustainability Context

In line with the Paris Agreement on Climate Change adopted in 2015, major environmental issues have emerged as the most critical management issues. The government is tightening their own environmental regulations, and is adopting policies involved with restrictions on coal-fired power generation and expansion of environmentally-friendly power sources like green energy as well as GHG emission reduction. EWP has established green environment management strategies and worked to curb climate change.

Our Strategy & Commitment

With the goal of a 20% reduction in its GHG emissions by 2030, EWP has set up its green management strategy system with four specific strategic directions. To carry out the plan systematically, it has set up green management departments at its head office and all its operating sites, which continue to enhance their strategic implementation of their.

Our Progress & Next Step

EWP upgrades its green management performance indices through reflection of its internal and external environmental changes on an annual basis. It strongly motivates employees' voluntary participation in companywide efforts through the development and application of its own green management performance index. It will make all-out efforts to successfully realize its mid- to long-term goals: reduction of GHG emissions, green growth, and establishment of a green corporate culture.

Issue 1

Isuue 7

Response to climate change Development and distribution of

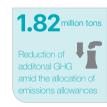
Issue 4

eco-friendly energy technologies

Compliance with environmental Issue 12

Effluent and waste management

Key Performance Indicator









*RPS (Renewable Portfolio Standard): a regulation that requires the increased production of energy from renewable energy sources, such as wind, solar and geothermal







stakeholders

Dept. in charge of green management



Chemistry Team (a place of businesses)

Environmental Performance

Coping with Climate Change SDG 13

Most notably, EWP strives to achieve its own GHG emission reduction goal by expanding of high efficiency low-carbon power sources, developing new & renewable energy, and R&D on GHG reduction technologies. As a result, EWP reduced 1.82 million tons of GHG emissions more than allocated by the government, and achieved the highest score in the power generation industry in the Competitiveness Index in Climate Change for five consecutive years.

Current Status of GHG Emissions and Energy Used G4-EN13 G4-EN16 G4-EN16

EWP's GHG emissions and energy consumption have continued to decline since 2013 through its efforts to cut down on its GHG emissions, including various GHG emission reduction businesses and GHG reduction technologies. Meanwhile, its facility capacity rose by 21.8% following the completion of Dangjin #9 and #10 in 2016. An increase is anticipated in its GHG emissions. It will strive to minimize its GHG emissions through active efforts to respond to climate change.

GHG Emissions(Scope 1+Scope 2)



Energy Consumption



Current Status of Other Relevant Indirect Q G4-EN17 **GHG Emissions**

Besides direct and indirect GHG emissions, EWP has voluntarily managed other relevant indirect GHG emissions (SCOPE 3) such as water for electricity, supplies purchase, GHG emissions from business trips and commuting since 2014. In 2015, it reduced other indirect GHG emissions by 5.6% over the previous year through the reduction of water for power generation and fuel consumption.

Other Relevant Indirect Greenhouse Gas Emissions (Scope 3)

| Other Indirect GHG Gas Emissions Scope 3 | Туре | 2014 | 2015 |
|---|---------|-----------|-----------|
| | tCO2-eq | 9,262,519 | 8,742,014 |

Successful Implementation of Emissions Trading Scheme

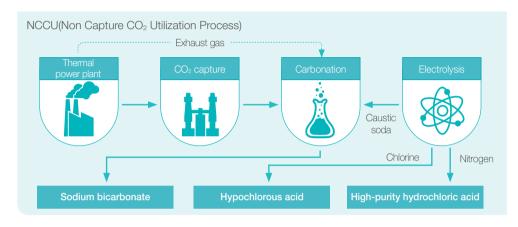
EWP has successfully implemented its emissions trading scheme. In 2015, it reduced 1.82 million tons more than allocated by the government. During the year, it emitted the least amount among power companies although it ranked 2nd in the country in terms of the proportion of coal-fired power generation. Through the development of technologies converting GHG into high value-added chemicals, EWP will expand high-efficiency low-carbon power sources and biomass and other new and renewable energybased power plants and minimize GHG emissions







EWP is striving to develop GHG high value-added technologies to secure profitable CO2 treatment technologies by directly reducing GHG emitted by thermal power plants. When EWP began to promote R&D on CCS*, it was challenging to secure storage space following CO2 capture. Thus, EWP invested KRW 1.9 billion in the development of technologies designed to manufacture sodium bicarbonate without the need to store CO2, NCCU(Non Capture CO2 Utilization Process) through the reaction between CO2 and NaOH in emissions.



*CCS(Carbon Capture & Storage: a technology that collects, compresses. transports more than 90% of CO₂ emitted from large-scale CO2 sources such as power generation and industrial processes and then stores it in oil fields, gas fields or saline aquifers.



Expansion of High-efficiency Low-carbon Power Sources

EWP actively promotes GHG emission reduction through improvements in its power generation efficiency. Specifically, it strives to not only upgrade the efficiency of its existing facilities but also expand low-carbon high-efficiency power generation facilities that will replace existing facilities, as a way to escalate the efficiency of its total power generation facilities, and make improvements in its emission reduction unit. It is building its Dangjin #9 and #10 into a 100MW class ultra-super critical power plant* respectively for the first time in Korea, which are expected to reduce GHG emissions by 9.7% compared to standard coal-fired power plants. *Ultra-Super Critical Power Plant: a power plant maintaining over 593 degrees Celsius of steam temperature while keeping its steam pressure above 246kg/cm2, higher than an existing super critical power plant

Expected GHG reduction of Dangjin Thermal Power Plant Units #9,10

EWP began to participate voluntarily in the CDP in 2012 with the aim of converting the global climate change crisis into an opportunity for itself in terms of its CSR efforts. Its climate competitiveness has been evaluated ever since. Most notably, it won a CDP Special Carbon Management Award in 2015 for two consecutive years for its efforts to manage its indirect emissions and enhance its reporting level.



No. 1 in the Competitiveness Index in Climate Change (the Minister of Trade, Industry and Energy Award)



CDP Special Carbon Management Award for the second straight year (Nov. 2015)



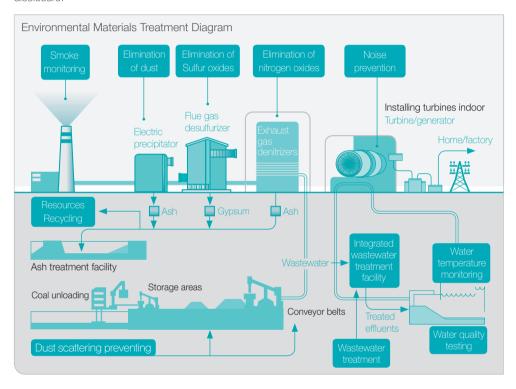
Environmental Performance

Environment Management

Power plants inevitably emit pollutants while generating electricity. EWP strives to minimize its emission of pollutants. It takes actions to help protect the environment and fulfill its environmental responsibilities.

Current Status of Environment Management

EWP minimizes its production of pollutants from power generation process. EWP is operating environmental facilities for managing air and water pollutant materials above the standards with real time disclosure.



2015 Status of FWP Plant Emissions

| Power generation | Generation (Renewable energy not included) | GWh | 49,239 |
|-------------------------------|---|----------------|--------|
| | Transmission | GWh | 45,840 |
| Fuel for | Coal | 10,000 tons | 1,500 |
| power generation | Oil | 1,000 kQ | 660 |
| 9-1 | LNG | 1,000 tons | 960 |
| Power generation water | Boiler water | 1,000 tons | 10,267 |
| Limestone | For desulfurization | 1,000 tons | 343 |
| Magnesium hydroxide | For desulfurization | 1,000 tons | 55 |
| Hazardous chemicals | For water treatment | 1,000 tons | 11 |
| | SOx | ton | 11,965 |
| Air | NOx | ton | 21,552 |
| pollutants | Dust | ton | 651 |
| | CO ₂ | 1,000 tons | 37,951 |
| | COD | ton | 27 |
| Water | SS | ton | 12 |
| pollutants | Total nitrogen | ton | 47 |
| | Total phosphorous | ton | 0.4 |
| Power | Fly ashes | 1,000 tons | 1,802 |
| generation by- products | Desulfurized gypsum | 1,000 tons | 495 |
| | | | |

For the management of its air pollutants, EWP has installed reduction facilities, set its goals higher than required for legal standards in Korea and met the goals. It fulfills its responsibility for environmental management in an active manner.

Air Pollutant Treatment Facilities as of 2015

| Units | | | | Dust Collector (to remove dust) | | |
|--|-----------------------|---|--|--|--|--|
| | Туре | Units | Type | Units | Туре | |
| 0 | Wet limestone-gypsum | 0 | SCD | 0 | Electric Precipitator | |
| 0 | Gypsum process | 0 | SOR | 0 | | |
| 3 | Wet limestone-gypsum | 5 | SCR | 9 | Electric Precipitator | |
| | Gypsum process | 3 | SNCR | | | |
| 0 | Magnagium budrovida | 0 | SCR | 0 | Electric Precipitator | |
| ۷ | iviagnesium nydroxide | | SNCR | ۷ | | |
| Donghae 2 Desulfurization in a dry furnace | | - | - | 2 | Electric Precipitator | |
| | 2 | Gypsum process Wet limestone-gypsum Gypsum process Magnesium hydroxide | Wet limestone-gypsum 5 Gypsum process 5 Gypsum process 3 Magnesium hydroxide 2 | 8 SCR Gypsum process 5 SCR 3 Gypsum process 3 SNCR 2 Magnesium hydroxide 2 SCR SNCR SNCR | 8 SCR 8 Gypsum process 5 SCR 3 3 Gypsum process 3 SNCR 3 2 Magnesium hydroxide 2 SCR 2 SNCR 2 SNCR 2 | |

Air Pollutants



2015 Air Pollutants Regulation and Emissions

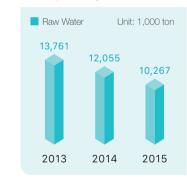
| | SC | Ох | No | Ох | Dust | |
|--------------------|------------------|--------------------|------------------|--------------------|---------------------|-----------------------|
| Power Plant | Regulation (ppm) | Emissions (ppm) | Regulation (ppm) | Emissions (ppm) | Regulation (mg/Sm³) | Emissions (mg/Sm³) |
| Dangjin Thermal | 100 | 24 | 140 | 73 | 25 | 5 |
| Ulsan Steam | 150 | 58 | 150 (#4~6) | 132 | 20 | 5 |
| Ulsan Combined | - | - | 80 | 35 | - | - |
| Honam Thermal | 100 | 70 | 140 | 116 | 25 | 3 |
| Donghae Thermal | 150 (#1~2) | 83 | 140 (#1~2) | 46 | 25 (#1~2) | 4 |
| Donghae Bio | 50 | - | 70 | 18 | 20 | 3 |
| Ilsan Thermal | = | - | 100 | 33 | - | - |

Usage of Service Water and Water Quality Management G4-EN22 SDG 11



EWP makes all-out efforts to reduce water pollution. In order to treat wastewater from power plants properly, it has built a comprehensive wastewater treatment facility and treated wastewater according to its management criteria that is stricter than legal requirements. It has also boosted the recycling of water and wastewater through the recycling of starting water from combined-cycle power plants and the reuse of thoroughly treated water as process water, among others. As a result of such efforts, EWP was able to recycle 1,227 tons of wastewater, or 36% of its total wastewater produced in 2015.

Quantity of usage of raw water and quantity of recycled wastewater







Emission Allowances and Concentrations for Water Pollutants

Unit: mg/l

| D | lower Plant | Area | C | OD | 9 | SS . | Total N | Vitrogen | Total Pho | osphorous |
|-------------|--|------------------------|------------|-----------|------------|-----------|------------|-----------|------------|-------------|
| Power Plant | | (type) | Regulation | Emissions | Regulation | Emissions | Regulation | Emissions | Regulation | Emissions |
| Danailla | Power generation | | 00 | 5 | 90 | 2 | 60 | 9 | 0 | Loop Hoop 1 |
| Dangjin | Dangjin ———————————————————————————————————— | Area B (Grade 1) | 90 | 21 | 80 | 21 | - 60 | 45 | 8 | Less than 1 |
| | Ulsan | B(Grade 1) | 90 | 7 | 80 | 2 | 60 | 10 | 8 | - |
| Honam | Power generation wastewater | | 40 | 6 | - 30 | 2 | 60 | 3 34 | - 8 | Less than 1 |
| Honam | Desulfurization wastewater | Special Area (Grade 1) | 40 | 19 | | 7 | 60 | | | |
| [| Donghae | Special Area (Grade 3) | 130 | 2 | 120 | 1 | 60 | 1 | 8 | Less than 1 |
| | llsan | Area B (Grade 1) | 40 | 6 | 10 | 3 | 60 | 11 | 8 | - |

Environmental Performance

Recycling of Waste and By-products G4-EN23 SDG 11

To boost its management efficiency, EWP has increased the recycling rate of the waste and by-products generated during its operations. Out of more than 30 kinds of waste produced at its power plants, EWP recycles coal ash, gypsum and waste oil, among others, and uses them as new sources of revenue creation. Those that are hard to recycle are handled by external licensed businesses. In a bid to continue to expand its recycling efforts and cut down on treatment costs, EWP will diversify the demand for its recycled resources, boost R&D in this regard, and discover ways to expand their usage.

Current status of Waste Production and Recycling

| Classification | Unit | 2013 | 2014 | 2015 |
|---|------------|--------|--------|--------|
| Power generation (except for new & renewable) | GWh | 56,611 | 50,699 | 49,239 |
| Waste production | 1,000 tons | 1,839 | 1,906 | 1,824 |
| Basic unit quantity | ton/GWh | 32 | 37 | 37 |
| Recycled Q'ty | 1,000 tons | 1,857 | 1,851 | 1,635 |
| Recycled Rate | % | 101 | 97 | 90 |

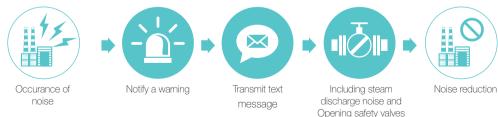
Recycling coal ash and desulfurized Gypsum

| Classi | fication | Unit | 2013 | 2014 | 2015 | | |
|----------|------------------|---|-------|-------|-------|--|--|
| | Recycled Q'ty | 1,000 tons | 557 | 459 | 480 | | |
| Gypsum | Recycled Rate | % | 97.6 | 98.3 | 97.0 | | |
| | Use | Gypsum board, raw material for cement, etc. | | | | | |
| | Recycled Q'ty | 1,000 tons | 1,829 | 1,844 | 1,615 | | |
| Coal ash | Recycled Rate | % | 101.2 | 89.6 | | | |
| | Use | Concrete admixtures, embankment materials, etc. | | | | | |

Noise Management

In an effort to minimize noise from its power plants and substations, it has installed noise monitoring systems in all the relevant areas and keeps track of the noise level there around the clock. The systems issue alarms and immediately send out text messages to the personnel in charge when an extraordinary level of noise occurs. Upon the request of the personnel, Control Center of each power plant takes immediate actions on noise sources, including steam discharge noise and opening safety valves.

Noise Management Process



Soil Management

As part of its efforts to prevent soil contamination, EWP carries out soil contamination inspections and leakage tests. Soil contamination inspections are focused on the inspection of soil contamination caused by oil due to failure in the storage and handling of fuel for power generation and heavy equipment. EWP's soil inspections intended to maintain sustainable soil environments are held at least once a year.

Management of Chemicals

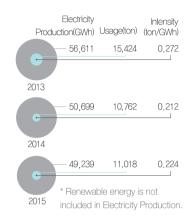
To prevent chemical disasters and provide the public with a safe living environment, EWP has established a chemical management system for the first time among public companies. It manages hazardous materials and non-hazardous materials for each operating site according to its standards. It enhances preventive measures through the safety inspection of chemical-handling facilities and the effective management of chemicals. It has also set up a response system for integrated management that includes post-response actions. In 2015, EWP experienced no chemical accidents.

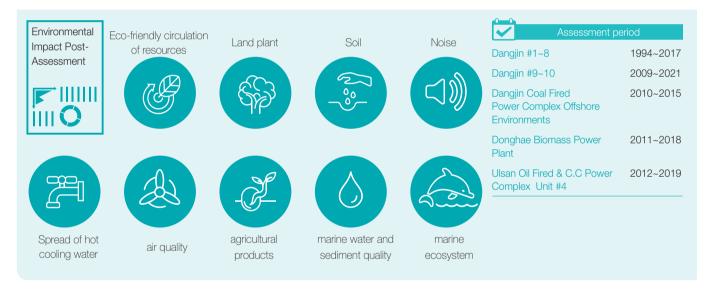
Implementation of Green Life

Environmental Impact Post-Assessment SDG 14

EWP monitors the impact of its power plant operations on the surrounding environments and analyzes the results. To secure accuracy in its monitoring, EWP has an external specialized institute carry out environmental impact assessment (water quality, air, noise, soil) in the areas surrounding its power plants. Most notably, when a negative impact is detected, countermeasures are set up based on the relevant data with the results notified to relevant government ministries (the Ministry of Trade, Industry & Energy, the Ministry of Environment, and the Ministry of Oceans and Fisheries) for thorough preventive measures against environmental contamination.

Current Status of Management of





Management of Environments Surrounding Power Plants SDG 14

In an efforts to minimize changes to the ecology surrounding its power plants and maintain the integrity of the surrounding natural environment, EWP carries out diverse environmental protection programs entitled '1-Company 1-Shore,' '1- Company 1-River,' '1-Company 1-Road' and '1-Company 1-Wetland'. In 2015, more than 40 EWP employees planted 300 Hinoki cypress seedlings at Hamwol Park in Ulsan and cleaned the surrounding areas.



Environmental Management Activity Costs



Environmental Performance

Establishing a basis for a new growth engine

In line with the UN Framework Convention on Climate Change and the changes in the power industry at home and abroad, EWP is concentrated on building the foundation for its future growth engines that can lead the government policies in its area. It strives to expand its new and renewable energy business and establish infrastructure required for green growth.

Expand New & Renewable Energy Business SDG 11

Establishing a New and Renewable Energy Promotion System

EWP has established a new and renewable energy promotion system with the goal of 'Top 1 Korean Green Energy Company by 2030.' To carry out its Renewable Portfolio Standards (RPS) most efficiently, EWP has set a new-renewable energy roadmap that calls for the reduction of the costs of renewable energy to around 20% of the costs of fossil fuel power generation by 2030. In addition, to secure future growth potential for new and renewable energy, it is focused on the expansion of its global business and secure business competency needed to create revenue sources.

Current Status and Outlook of New & Renewable energy Facilities



*Byungsan business: The way to produce fuel and raw materials at once.

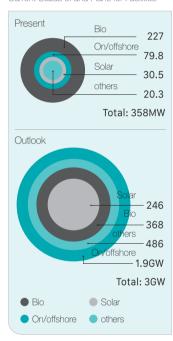
New & Renewable Energy Convergence Complex SDG7

EWP is building the country's largest new & renewable energy town that will serve as its strategic hub for new and renewable energy at a location where it can make the most of Dangjin Power Plant and its surrounding infrastructure. With the purpose of 'creating a new energy business model on top of the country's largest capacity coal-fired power plant (6,000MW), EWP has devised a master plan and is promoting the creation of an energy town centered around four energy themes. The town with a facility capacity of 174.5MW is scheduled to be completed in October 2019. Along with the huge new and renewable energy complex, which will seek win-win situations with local communities, a tourism belt will be created in the region to help with the invigoration of local economy.

Dangjin Future Energy Town (bird's-eye View)



Current Status of and Plans for Facilities



Plan for Facility Operations at 'Dangjin Energy Town'

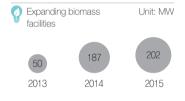
| Classifi- cation | New & | e Unit | Type of Energy | | | | | |
|---------------------|-----------------------------|--------|---------------------------------------|----|-----|----|-------|---------|
| | Renewable Energy | | New & Renewable Energy Convergence | | | | Total | |
| Facility capacity | Wind Power + ESS | MW | 20 | - | 8 | - | 28 | |
| | Photovoltaic Power | MW | 37 | - | 0.5 | - | 37.5 | 174.5MW |
| | Hydrogen fuel | MW | - | 50 | - | - | 50 | |
| | Seokmun Bio | MW | - | - | - | 39 | 39 | |
| | Power to Gas | MW | - | 20 | - | - | 20 | |
| | Spread of hot cooling water | Gcal | 15,000 | - | - | - | 15,00 | 0 Gcal |
| | Hydrogen charging stations | No. | - | 1 | - | - | | 1 |

Strategic Biomass Fuel Purchase and Facility Expansion

To maximize the recycling of waste resources and implement the country's RPS (Renewable Portfolio Standards), EWP has expanded its existing biomass facilities in a bid to increase its fuel co-firing. It has secure additional co-firing capacity by expanding the generators in use at Dangjin Coal Fired Power Complex, Ulsan Oil Fired & C.C Power Complex expanded the trial business period for bio-fuel oil by a year through negotiations with the Ministry of Trade, Industry and Energy. It also sought to secure price competitiveness in order to expand its co-firing of bio fuels. Most notably, Donghae Biomass Power Complex has secured an additional 20,000 tons of biomass fuels for co-firing at low open competitive bid prices.



Bio Fuels Purchased for Three Years



Sexpanding the co- Unit: 1,000 REC firing (No. of RECs* issued)



*REC (Renewable Energy Certificate): a certificate proving the production of electricity through new and renewable energy facilities

Regulation Improvements for the Onshore Wind Power

Promotion of the Creation of a Wind Farm through Improvements of Regulations

Regulatory guides on the environmental impact assessment of onshore wind power business have been upgraded, enabling previously restricted areas to embrace wind power complexes. Now, complexes can be constructed high in mountains and areas classified as Grade 1 in ecological naturalness. EWP is carrying out two wind farm projects in Dongdaesan Mountain, Ulsan and Yeomsubong Peak in Yangsan. It is awaiting a government license for its Taebaek Gadeoksan Project.

Creation of Korea's Biggest Wind Farm for Win-win with Local Communities

EWP has changed its business strategy from the supplier's profitability to profit-sharing with customers. It has developed additional wind farms in the neighborhood of its existing wind farms to implement its new strategy. In 2014-2015, it completed Honam Wind Farm (20MW) and Yeonggwang Baeksu Wind Farm (40MW). In November 2015, it obtained a power generation business license for Yeonggwang Wind Farm (80MW). EWP uses a part of its revenues from Yeonggwang Wind Farm for the support of those eligible for the National Basic Livelihood Security System and those in the next neediest classes.

Environmental Performance

Establishment of Green Infrastructure

The entire world pays keen attention to the issue of sustainable green growth through the realization of eco-friendly energy. EWP has worked hard to continue to develop eco-friendly technologies and eco-friendly energy sources to fulfill its responsibility as a public energy enterprise to supply clean energy to the public.

Development of Eco-friendly Technologies

EWP continues to develop eco-friendly technologies to achieve environmentally sound, sustainable growth Most notably, it has developed the recycling technologies for coal ash and heavy oil fly ash and solved the oversupply issue as a way to minimize environmental pollution and realize a resource circulation society.

Recycling of Coal Ash and Heavy Oil Fly Ash



Recycling to architectural



Recycling into fuel that can be deodorized



Display of coal ash recycling technologies (Feb, 2015)

Development of Coal Ash Recycling Technologies Q G4-EN19 G4-EN27 SDG 7





The supply of coal ash is anticipated to increase by 67% by 2022, while the demand for coal ash is expected to suffer a glut in supply owing to a slowdown in construction business, making it crucial to develop coal ash recycling technologies. EWP therefore carries out a project tasked with the production of architectural interior materials that can replace cement with coal ash. The project is expected to save KRW 2.6 billion in landfill costs due to the increased recycling of 300,000 tons of coal ash and KRW 1.1 billion in landfill charges and GHG emission reduction.

Plan for Coal Ash Recycling Business

| | nological 2015 elopment | Certification and Preparations | 2016 Comme Produc | |
|---|--|--|--|-----------------|
| Development of architectinterior materials, 70% of are made of coal ash weight 15% ▼ cost 30% Demonstration productions) and attribute evalual (strength, sound insulation resistance property) | on (40 market s foundation on, fire- f which commer Certificat Insurers I was foundation Display a presenta | on of certification for cial production on about fire resistance (Fire Laboratories of Korea) urveys and laying the on for production at architectural trade fairs and tions for commercial production | Horizontal member, soundproof w partitions Promotion of exportation of dryw | valls, valls |
| | E | xpected Outcomes | | |
| Increased coal ash recyc | ling Reduced | I landfill costs | Reduced GHG emissions | |
| 300,000 tons | | 2.6 billion landfill charges | about 110,000 tons /year worth KRW 1.1 billion | |

Development of Recycling Technologies for Heavy Oil Fly Ash & G4-EN27 % SDG7



EWP has developed recycling technologies for heavy oil fly ash by making the most of its heating value and deodorizing feature. EWP has developed heavy oil fly ash into high-energy fuel with biofuel deodorization in collaboration with Taehwa Environmental Research Institute, Ulsan Metropolitan Government, and Korea Industrial Complex Corp. It is using the product as deodorized fuel for organic solid fuel for Dangjin #3 and #4. Through the effort, EWP expects to save KRW 800 million a year in the treatment costs of heavy oil fly ash, KRW 150 million a year in fuel costs, and a certificate of the supply of new and renewable energy worth 10,000 REC a year.

FWP is promoting the construction of biomass power complex that recycle livestock manure as part of its efforts to secure new energy sources. In 2015, it developed combustion technologies required for the stable operation of a livestock power complex. It secured economic feasibility by drawing support from the Ministry of Environment, the Ministry of Agriculture, Food and Rural Affairs, and the Ministry of Trade, Industry and Energy. In addition, it signed a MoU about laying the foundation for the construction of a livestock manure power complex with Hoengseong-gun which is fully committed to building the plant in its area.

Promotion of the Construction of a Livestock Manure Biomass Power Complex



MoU with Hoengseong-gun(Mar, 2015)

Promotion of Asan Bay Tidal Power Plant Project

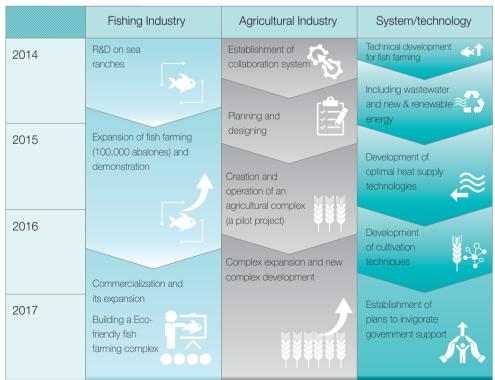
Development of Eco-friendly Energy Sources

As part of its efforts to secure new and renewable energy, EWP has promoted the Asan Bay Tidal Power Plant since 2015 which will make the most of the tidal range of the West Sea. To prevent conflicts with local communities, EWP had Korea Ocean Research Development Institute conduct technological, environmental and economic feasibility studies of the project and devised solutions to potential problems. In May 2015, EWP completed the review of the feasibility study results and submitted a letter of intent for the construction of the power plant to Asan City Hall. It has held town hall meetings to publicize the project and secure the consent of local residents with regards to it.

New Energy Business Using Waste Heat and Water SDG2

To recycle waste heat and water from its thermal power complexes, EWP is striving to expand its use not only in fish farms but also in agriculture. In 2013-2014, EWP succeeded in abalone fish farming using waste heat and water from its power plants, contributing to increased income and job creation in nearby fishing villages. However, most of the communities around its power plants are engaged in agriculture Therefore, in 2015, EWP established a plan for agricultural pilots projects using its waste heat and water in diverse agricultural sectors based on financial support from the Ministry of Agriculture, Food and Rural Affairs.





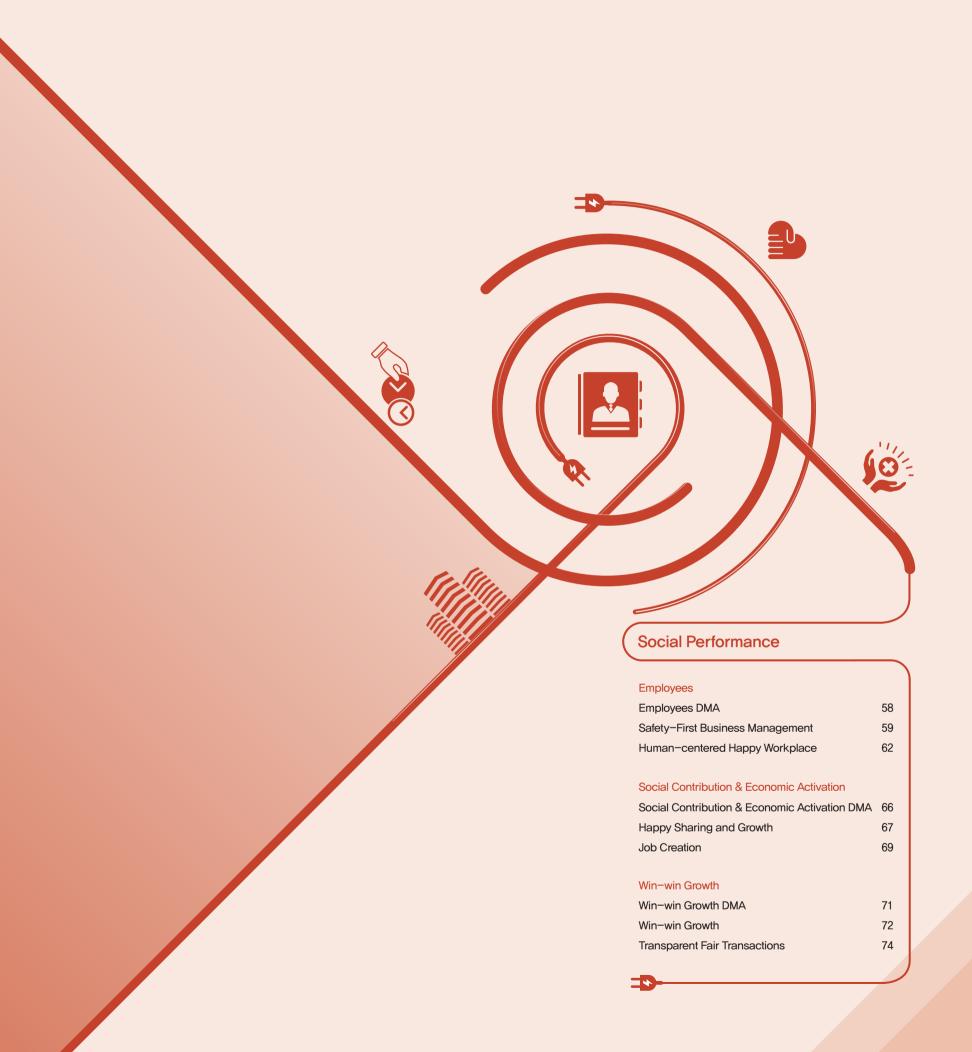


A fishing farm operated with waste heat

We build up your endless trust

We grow together through trust.

EWP will help create a sustainable future where it will grow together with its employees, suppliers and local communities based on trust.





Sustainability Context

EWP's stakeholders place a high value on the creation of a pleasant work environment for employees. Therefore, it has launched a safety culture movement, established a disaster response system, and implemented employee health programs. It is also crucial for EWP to strive to create a safe, pleasant and happy workplace for its employees who are motivated to continue to improve their competency.

Our Strategy & Commitment

EWP has built a disaster response system and launched a safety culture movement. It has boosted employees' safety and health through the establishment of a safety-first value system. It has helped them implement healthy lifestyles. It has narrowed the gap in perspectives between employees and management. It has strengthened its equitable business management practices through the operation of competency- and performance-centered evaluation and compensation systems as well as respect for diversity in the workplace.

Our Progress & Next Step

EWP will do its best to maintain the zero-mortality rate industrial accident record in its construction sites. In terms of employee education, EWP will continue to carry out competency assessment tests and surveys in order to promote employees' competency development. It will strive to settle any and all of its employees' grievances. EWP will continue to offer its employees with equal opportunities without gender discrimination. EWP will create a happy workplace for all its employees

Issue 3

Employee safety and health

Issue 10

Prohibition of workplace discrimination

Issue 13

Employee job security

Issue 17

Respect for employee diversity and guarantee of fair opportunities

3 consecutive years

he highest rank

Key Performance Indicator





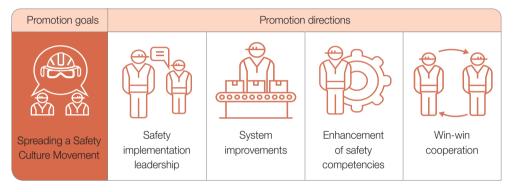
Won Outstanding Business Award

Safety-First Business Management

Internalizing its corporate safety culture is the top priority in the company's sustainability management efforts. EWP strives to guarantee its employees with safer work environments through the spread of its safety culture movement and the enhancement of its safety management competencies.

Spreading a Safety Culture Movement

To implement safety-first business management as a power company, it has recognized the necessity to share a safety-first value system and launched a safety culture movement. In 2015, it set the four promotion directions and promoted reforms in its safety culture.



Safety Implementation Leadership

Management of EWP makes all-out efforts to fulfill the company's social responsibilities for the prevention of industrial accidents. In 2015, management carried out On-Site Safety Management that involves safety inspections and impromptu disaster drills on Safety Inspection Day that is held each month in collaboration with representatives of the labor union and resident suppliers. Management also conducted 'Safety Contact' sessions prior to the start of Management Strategy Meeting held each month to meet increasing requests that businesses' upper management become involved in fulfilling their social responsibility for the prevention of industrial disasters.

Enhancement of Safety Guidelines and Systems G4-LA6



EWP has issued the 'ABC (Always Be Careful) Rule' composed of five core safety rules and urged all its workers to abide by them. As part of its efforts to enhance its safety process, EWP had its scaffolding installation plans approved by management in advance in a bid to prevent falls which account for 40% of its occupational accidents. In 2015, EWP achieved the zero-mortality rate in its operation and construction sites. As such, the company accomplished '0%' in the mortality rate per 10,000 employees.



'Safety ABC Rule' Compliance Campaign



Presentation on Successful Big Business Safety & Health Efforts



Management's on-site safety

Mortality rate per 10 000 people



Mortality Rate per 10,000 People: the mortality rate per 10,000 paid workers

Employees

Enhancement of Safety Management Competencies

EWP carries out professional safety education with the purpose of raising its employees' awareness of safety, altering their perception on safety issues, and creating a safety-friendly atmosphere. In June 2015, EWP joined forces with the Korea Occupational Safety & Health Agency to provide all its employees with 'Basic Safety Education' and 'Customized Safety Education' in order to equip them with fundamental safety knowledge and safety management competency in their respective areas. In addition, EWP provided 633 employees above Grade 3 companywide with safety leader education including safety policies, managers' roles, and emotion coaching techniques.

Win-win Cooperation to Build Safety Community

EWP has developed win-win cooperation programs to secure the safety of all its employees and help its clients and suppliers realize a zero-accident rate. It has boosted its own safety measures including improvements in the payment of its safety management fees and the operation of special conditions of its safety contracts. Furthermore, it has joined hands with the Korea Industrial Safety Association to build a companywide supplier system including support for safety diagnosis and provision of safety goods.

2015 Basic Safety Education for All Employees Education targets All employees No. of 12 Courses Y. No. of 2,120 trainees Completion 99.4%

| Classification | Contents |
|---|---|
| Improvements in the payment of safety management fees | Promotion of institutional improvements to completely prevent suppliers' accidents for the first time among power companies -Change of the payment of design safety management fees to 100% payment instead of its link to bidding success rates -Expanded application of safety management fees to all projects from those over KRW 40 million |
| Operation of special conditions for safety contract | Operation of 17 special conditions of the EWP safety contract, which specify suppliers' safety management responsibilities and roles -Application of the rules to 20 EWP contracts since August 2015 -Promotion of the enhancement of subcontract review standards and the acquisition of KOSHA 18001 by its regular maintenance contractors |
| Support for safety diagnosis | Use of disaster & safety professionals of various institutions like the Korea Industrial Safety Association as its safety supporters -14 incidences of safety inspections and diagnoses of its suppliers' operating sites in 2015 |
| Support for safety goods | Provision of safety goods (worth about KRW 20 million) for the development of its local communities and safety community when its resident suppliers have achieved zero accidents through collaboration with EWP -Support beneficiaries: local governments, neighboring related institutions, senior citizens' centers, local childcare centers, small suppliers, etcSupport of disaster prevention equipment and support of firefighting equipment for the safety vulnerable in areas surrounding EWP power plants |
| 2015 Safety Culture Movement results | Achievement of 0% in the mortality rate per 10,000 employees Ulsan Complex won the Excellence Award in 'Big Business Safety & Health Outstanding Cases' and 'Outstanding Cases in the No-accident Promotion Campaign (hosted by the Ministry of Employment and Labor) |

Disaster Response

Building Disruption-free Electricity Supply System

EWP has built BCM, a recovery plan designed to maintain the continuity of its work, for the head office and all its operating sites. It continues to analyze its potential disaster and crisis risks. In 2015, it made improvements in facilities vulnerable to fire risks in all its power plants on three occasions. The plants acquired Safety Zone certification from SAFETY ZONE - CERTI. In October 2015, EWP obtained ISO 22301, international business continuity standards, demonstrating its reliability in terms of disaster & safety management for the general public.



ISO 22301 Certificate (Oct, 2015)

Enhancement of Disaster Management Competencies

To beef up its expertise in disaster safety & health management, EWP has increased its pool of experts from 10 to 16 and introduced a disaster post-response system. It operates a TRS (Trunked Radio System) wireless telecommunication system to establish an integrated companywide disaster telecommunication system and build a rapid emergency situation alert and management system. To enhance the operability of the EDMS (Electronic Document Management System) disaster management system, EWP has continued to improve the system and maximize its effectiveness.





Safety and Health Management Programs

Work Environment Evaluation and Safety & Health Activities

To guarantee its employees' safety, EWP evaluates the work environment for those working in hazardous environments twice a year, analyzes the results, and makes improvements about the identified issues. It also provides education on emergency response and recovery competencies including CPR and defibrillation in a bid to respond to patients facing an emergency within its operating sites as early as possible.

Employee Health Management Program

To meet employees' increasing interest in health and the organizational need to create an atmosphere for the prevention of various diseases, EWP has introduced an employee health management program. To raise employees' health awareness, it emails health related data to all its employees once a month and motivates them to get involved in systematic health management. In addition, EWP provides healthcare counseling to those who have returned from sick leave. For those who cannot leave their workplace, onsite counseling service is also provided.

Creation of a 3ZERO Workplace

EWP has participated in the pilot project for the creation of a 3ZERO workplace launched in February 2015 for all the public agencies located in Ulsan Innovation City. 3ZERO refers to the non-existence of smoking, obesity and stress. To that end, EWP offers its employees with medical checkups, a stopsmoking clinic, support for fitness programs, and education on healthy lifestyles.



CPR education

Selection as an outstanding company in the 3ZERO movement

Employees

Human-centered Happy Workplace

EWP makes diverse efforts to provide its employees with a happy workplace. It helps them improve their quality of life through the elimination of extended hours of work. For their work-life balance, it implements flextime and childcare leave, among others.

Enhancement of Work-Life Balance Q G4-LA2 M SDG 8





Institutional Improvements to End Extended Hours of Work

With the purpose of bringing an end to its employees' extended hours of work, EWP has made improvements in its Multi-Engineer Shift system while invigorating its employee leave system. EWP has reduced employees' work hours by improving the operations of its existing alternative work team through the combination of the 4-team 3-shift system and the ME team shift system. EWP encourages its employees to use their vacation by allowing them to carry over their annual leave to the following year, hosting Family Love Day, reflecting managers' use of their vacation in their personnel evaluation, and publicizing each department's record in its employees' actual use of vacation. Through such efforts, EWP has reduced its employees' actual working hours and improved its employees' satisfaction with their time-off.

Pursuit of Work-Life Balance

EWP continues to improve its childcare leave system. It offers its employees a customized lifecycle support program. It effectively resolves the issue of employees' long-term absence from work due to childcare leave through the implementation of employees' prior notice and the use of the Substitute Manpower Bank. EWP has continued to expand the scope of childcare leave. Both the number of employees on leave and the period of their leave have increased. In 2015, it won the Family-friendly Workplace Certificate from the Ministry of Gender Equality & Family again particularly for its operation of a customized lifecycle support program in three stages such as the marriage/pregnancy period, the childbearing/childcare period, and the married couple/retirement preparation period.

EWP has made improvements in its flextime system to activate the to activate the system for the employees. Application for flextime is now possible online. Its approval procedures have been simplified as well. The minimum period has been shortened from a month to a week while the maximum period has been extended from 3 to 12 months. Most notably, eligibility has expanded from pregnancy to childcare, which has been well received by employees. As a result, the number of employees on flextime increased from 547 in 2014 to 595 in 2015, with employees' satisfaction rising from 77.5 to 88.8 points.

| Flextime Operation Results | Part-time | | Flextime | | | Telecommuting | | |
|----------------------------------|-----------|------|-----------------------------|---------------------------|----------------------------------|-----------------|------------|--|
| | Transfer | Hire | Flexible commute time | Flexible work hours | Compre- ssed work schedule | At-home work | Smart work | |
| 2013 | 8 | 4 | 85 | 74 | 4 | 37 | 26 | |
| 2014 | 13 | 7 | 134 | 332 | 5 | 44 | 12 | |
| 2015 | 23 | 8 | 357 | 163 | 2 | 27 | 15 | |

Improvements in Extended Hours of Work

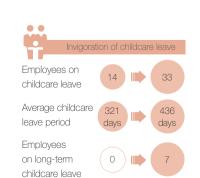


Annual Leave Used ner Person



GWP Index (Great Work Place on a scale of 1-5).

| | | Unit: points |
|------|------|--------------|
| 3.77 | 4.41 | 4.57 |
| | - | |
| | | |
| 2013 | 2014 | 2015 |
| | | |



Implementation of HRD Strategic Tasks

To achieve its companywide vision '2030 Most Valuable Power Company,' EWP implements its three major HRD strategies and enhances its employees' competencies.



Employees' competency development by their needs

EWP carries out employee education and training according to its talent cultivation policies and its employees' needs. Courses reflect the results of the employee competency assessment and the employee surveys conducted on an annual basis. The employee competency assessment is focused on the analysis of employees' individual needs to enhance their competency and the identification of necessary training contents to strengthen their job competencies.

Building a Sophisticated HRD Infrastructure System

For each course, EWP runs 'a two-track' evaluation system composed of Track 1 (educational satisfaction and learning accomplishment) and Track 2 (training effectiveness, contribution to management performance) so it can carry out quantitative evaluation of its education programs. EWP gets all in the organization to complete an online HRD Expert course, It had some of them attend the ATD International Conference & Exposition 2015 and HR Summit Brisbane 2015 to learn about the latest global HRD trends. It has also reinforced its internal job training evaluation index.

EWP Renaissance through Books

EWP is building a reading culture under the goal of 'EWP Renaissance that Begins with Books.' It has opened up book cafes (at seven locations with a total of 7,280 books) operated by an electronic book management system. The cafes are also available to local residents, in line with the government's reading culture promotion policy. The company's efforts in this area are instrumental in its drive to cultivate creative talents.



EWP has built a happy labor culture with the participation of all its employees. It has established effective communication channels between labor and management. It has promoted open communication with the purpose of sharing labor issues, deepening mutual understanding and immediately settling employees' grievances.

Systemization of Labor-Management Communication

EWP has set 'respect for human beings' as its top value in order to have allow for its happy management labor-management culture take root. The company continues to enhance open communication. It has established an open communication system participated by all its employees through the three major players in communication.

Outcomes of Labor-Management Communication

In 2015, EWP resolved diverse labor issues including the wage peak system, retirement age extension, and the 'ordinary wage' issue through the operations of its diverse communication channels. It measures labor-management cooperation index and uses the results in the analysis of the current status of its labormanagement and the establishment of strategies to boost labor-management cooperation

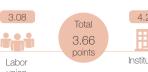


EWP book cafe

Open Communication System



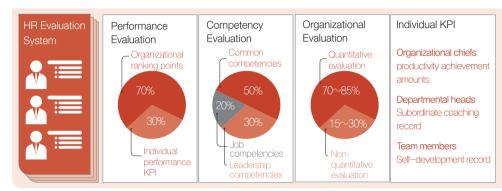
Labor-management cooperation index (on a scale of 1 to 5)



tainable Approach Economic Performance Environmental Performance Social Performance

Remuneration System & Welfare Benefits

EWP pursues reasonableness and fairness through the operation of a remuneration system centered on competency and performance. It implements a performance-based pay system through evaluation of performance, competency and organization. In addition, it applies the same remuneration and welfare benefits of high school graduates and irregular workers in a bid to prevent wage discrimination.



Performance Based Remuneration and Compensation System 🙀 SDG8

EWP has established a performance-oriented culture through the establishment performance-based remuneration system, job performance based pay system, and performance-based compensation system. It differentiates its pay to employees according to competency evaluation, MBO performance appraisal, and organizational evaluation. It enhances performance-based compensation reflecting individual employees' competencies and work values through a sharp pay difference that amounts to a KRW 30.46 million difference between the highest and the lowest within the same rank. It runs an award system that recognizes employees with outstanding performance in terms of productivity. It also offers them favors in incentives and promotion.

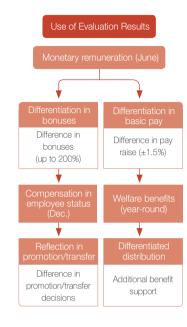
Organizational Unity

EWP applies the same remuneration system and welfare benefits to its high school graduates, indefinite period contract workers and irregular workers as its college graduates and regular workers, respectively. Furthermore, it helps its high school graduate employees attain college degrees at its regional in-house colleges. To help its irregular employees obtain regular worker stature, EWP has set three directions of action. EWP has reduced the number of its irregular workers year after year. As result, EWP has been able to hire eight senior citizens and females who had to experience a career disruption. It provides all of its irregular workers with reasonable compensation comparable to market situations in order to take the lead in resolving the issue of irregular workers in practical terms. To invigorate their transfer to regular workers, EWP has continued to improve its work environment so that anyone can continue to work for an extended period of time.

Establishment of three major directions for the transfer of irregular workers to regular workers and positive results

| 20142016 THORE OF A FEED THIS CONTROL OF A FEED AND A FEED A FEED AND A FEED AND A FEED A | | | | | | |
|--|--|--|--|--|--|--|
| Three Major Directions | 1 Employment | 2 Remuneration improvements | 3 Job | | | |
| Contents | Hiring through Substitute Manpower Bank | Payment of competitive wages | Regular continuous work → employment as regular workers | | | |
| Results | Hiring eight senior citizens and females who experienced a career disruption | Wage redesign Office workers: Wages comparable to Grade 6 Technicians: Wages comparable to entry level skilled technicians in relevant areas | 6 coal sample prescribers 1 forklift operator | | | |

Remuneration System based on Evaluation





Except for 8 persons substituting employees on childcare leave in 2015

Welfare G4-LA2 SDG 8

EWP has striven to normalize its welfare benefits in line with the government's policy of 'the normalization of lax management of public institutions.' In 2014, it completed the implementation of 31 normalization tasks earlier than scheduled. In 2015, it promoted the branding of its happy management model for continuous promotion of the normalization of lax business management and prevention of a return to previous practices. It restructured the Labor Welfare Team into the Happy Management Center that has sought to trigger a paradigm shift to non-financial welfare benefits. As a result, EWP has succeeded in boosting its employees' morale through increased non-financial welfare benefits.

Respect for Diversity

sity (= SDG 10

EWP has expanded employment in terms of special social considerations as part of CSR activities. It gives additional points in employment to those with disabilities and those eligible for the government's special protection in employment, who account for 3.4% and 9.1%, respectively, in the total number of current employees, surpassing the legal requirement in both areas. It substitutes those on childcare leave and others to be replaced for other reasons with females with a career disruption and senior citizens. In 2015, EWP eliminated the academic barrier in job applications and introduced NCS (National Competency standards)-based On-Spec employment in a bid to promote job competency-centered employment.

370 200 229 2013 2014 2015 Welfare Satisfaction Unit: points 82 2013 2014 2015

65

Unit: KRW 10 thousand

2.4% reduction (over 2013)

Welfare Benefits

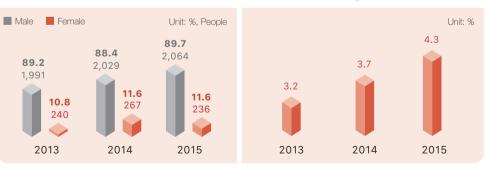
Current status of Special employment

| | Female | The handicapped | Local talents (non-capital area) | Local talents (non-capital area) | High School Graduates | Vocational school graduates | Engineering college graduates | Total recruits |
|------|--------|-----------------|----------------------------------|----------------------------------|--------------------------|-----------------------------|-------------------------------|----------------|
| 2013 | 48 | 10 | 92 | 5 | 48 | 44 | 145 | 206 |
| 2014 | 32 | 9 | 62 | 16 | 37 | 36 | 78 | 131 |
| 2015 | 0 | 0 | 9 | 1 | 5 | 0 | 7 | 16 |

There are 236 women workers in EWP, accounting for 10.7% of its employees. The ratio of female managers is 4.3% in 2015. EWP has set a plan to increase the ratio to 5% by 2017. EWP plans to continue to expand the ratio of female workers to over 15% at a minimum. To expand the ratio of female managers, it will reduce the minimum years of service for female candidates.

Gender Proportion in Employment

Status of Female Managers



Improvement of Personnel management system for Gender Equality G4-HR3 G SDG 5

As part of its gender equality policies, EWP reduced the minimum service years for female promotion candidates by 3.6 years compared to their male counterparts, promoting three female employees through such special arrangements. In addition, it made improvements in the employees' working conditions to expand the maximum period of childcare leave to three years and exempt female workers from night shifts, reinforcing the effectiveness of its female-friendly policies.



Sustainability Context

Power plants may unintentionally inflict negative environmental and social impacts on local communities in the construction and operation processes designed to provide citizens with critical resources. To minimize negative impacts and develop alongside local communities, EWP engages in diverse social contributions activities.

Our Strategy & Commitment

EWP aims at achieving its social contribution goal - happy growth with local communities through 'Happy Energy Dream' in three directions. It has established the EWP Volunteer Corps to promote its social contribution activities more effectively. It further promotes active corporate community involvement in partnership with some reliable external organizations.

Our Progress & Next Step

EWP undertakes its social contribution activities in three directions. It has devised diverse social contribution programs directly linked to its core capabilities with the purpose of contributing to eliminate the energy poverty of the underprivileged and save energy costs of SMEs. In addition, it strives to develop together with its local communities by spreading 'a sharing DNA' through the establishment of a welfare service system and the partnership with relevant organizations. EWP plans to stabilize its eco-friendly energy business according to its social contribution vision and offer active support the business designed to solve social issues.

Indirect economic contributions

Issue 15

Key Performance Indicator



Won the Minister of Health & Welfare Award National Sharing

Won 'Green Energy Citizen Award' in 2015



Happy Sharing and Growth EWP is committed to growing together with its local communities through sharing. To that end, it

has designed diverse sharing programs and engaged in continuous social continuous activities. EWP will realize genuine sharing on the basis of its own knowhow and collaboration with local communities and other relevant organizations and strive to realize economic invigoration.

Social Contribution

EWP intends to implement genuine sharing and become a companion for its local communities through social contribution activities reflecting its business competencies. To offset its social contribution activities becoming a one-time donation, EWP seeks the development of its local communities in a very real sense through strategic social contribution programs such as the enhancement of energy welfare, win-win development with local communities, and sharing DNA events.

Goal and Implementation System for Social Contribution

EWP seeks to achieve happy growth with its local communities through 'Happy Energy Dream.' In 2015, it set three directions of actions such as the enhancement of energy welfare, win-win development with local communities, and spread of a sharing DNA. It devised promotion systems, too.



Social Contribution Promotion Organization

For continuous promotion of its companywide social contribution activities, EWP launched its EWP Volunteer Corps in February 2004. As of 2015, a total of 2,060 employees are working as volunteers in 140 teams. They regularly engage in activities designed to help with the underprivileged in local communities, such as environmental protection activities, support for households headed by teenagers, and assistance of senior citizens without guardians. Moreover, it engages in active volunteer service activities through partnership with the External Private Council composed of local governments, government agencies, NGOs, public energy institutions and its suppliers.



Organizational Chart of EWP Volunteer Groups



Environmental Performance Social Performance



Energy Welfare Social Contributions linked to Core Capabilities

EWP's social contribution efforts have helped the disadvantaged to reduce their energy poverty and SMEs to cut down on their energy costs. It has promoted its social contribution programs in three categories experience, support and service. To solve the issue of energy poverty, EWP has launched diverse ecofriendly experience programs linked to electrical energy and provided energy support to the disadvantaged. Through collaboration with three public energy institutions, EWP offered the underprivileged with services in three areas such as inspection, repairs and insulation work in 2015. It provided 10 SMEs with energy efficiency and electrical safety diagnoses so that they could conserve energy worth KRW 200 million a year.

Social Contribution through Communication with Local Communities

EWP has promoted win-win development through the implementation of social issue solution type programs reflecting the needs of its local communities. EWP has also reflected conflicts related to the operation and construction of a large-scale power plant in the Dangjin area, for instance, in its social contribution activities to carry out practical activities. In addition, EWP implemented 'onnuri' vouchers worth KRW 740 million in 2015 and contributed to the increase of farm households' income worth KRW 120 million through the operation of an in-house market for regional agricultural goods and an online agricultural goods market. It has also bolstered its local communities' trust in itself through the invigoration of the local economy and the increase of consumption of local agricultural products.

2015 Social Contribution Programs





2,348 people million



235 Participated by KRW 210 households

Increased Voluntary Service Hours per





Increased Participation in Voluntary Services





| Status of Social Contributions that Contributed to Solving Conflicts in the Dangjin Area in 2015 | | | | | | | |
|--|---|--|--|--|--|--|--|
| Contents of conflicts | Warm water damage to local fishing industry | Environmental degradation in local communities | Flying dust in coal storage areas | Risk to human health | | | |
| Actions taken | Transfer of water heat energy: operation of abalone farms and creation of large-scale farms with warm water | Enhancement of monitoring: Installation of environmental information digital signage and development of non-recovery type CO ₂ treatment technology | Facility innovations: installation of complete hermetic type coal transfer facilities and completion of an indoor coal storage area at Dangjin Thermal Power Plant | Safety & health programs: safety experience sessions, transparent umbrellas for transportation safety, and installation of air purifiers at senior homes | | | |
| Outcomes | Saving KRW 2.2 billion in fishing costs | Additional reduction GHG emissions | Reduction of residents' grievances by 22% | Improved trust relationship | | | |

Spread of a Sharing DNA

EWP undertakes various social contribution businesses designed to establish a welfare service system and expand its employees' voluntary participation. It is striving to build a comprehensive welfare service system in collaboration with a host of relevant organizations such as local governments, suppliers, government institutions, energy companies and universities. To further increase its employees' voluntary participation in its social contribution activities, EWP has invigorated its employees' talent donation programs. EWP ensures that all its previous social contribution programs contribute to program improvements and participation increase through the feedback of the satisfaction survey results of the







Weekend farm (collaboration with a daycare center)

Improvement of lighting for single senior households

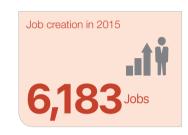
A tree planting event

Job Creation

EWP contributes to job creation in local communities through the launch of large investment projects and the implementation of win-win cooperation with the private sector. It helps its partner SMEs to achieve corporate growth and hire people by discovering additional tasks that it could outsource. Through the implementation of open employment, EWP strives to enhance social equitability.

Launch of Investment Projects and Win-win Cooperation

EWP has created jobs through large investment projects and joint investments with the private sector. In 2015, it created 6,183 jobs through joint investments. To make improvements in the quality of jobs it creates, EWP offers jobseekers with chances to acquire professional licensing through its 'EWP Training Center.' It endeavors to create job through collaboration with external research institutions, SMFs and local communities.



69

Status of Job Creation through Investment Projects in 2015

| Category | Projects | Investment cost | Jobs created |
|-------------------------------------|--|-------------------|--------------|
| Large-scale | Construction of Dangjin Thermal #9 & #10 | KRW 395.6 billion | 4,193 |
| investment projects | Introduction of new technologies and refurbishment of aging facilities | KRW 109.2 billion | 1,158 |
| | New & renewable energy projects to reduce carbon emissions | KRW 13 billion | 138 |
| WinJoint | Construction of Dangjin PPI Power Plant (joint investment with SK Gas) | KRW 20 billion | 212 |
| investments with the private sector | Investment in Chuncheon Energy Corp. (in connection with an industrial complex) | KRW 32.9 billion | 349 |
| | Photovoltaic Power Station Project to support residents along Miryang transmission lines | KRW 390 million | 4 |
| | Gyeongju Wind Farm Project, Phase 2, for RPS implementation | KRW 12.2 billion | 129 |

Expansion of Outsourcing and Fostering Partner SMEs

EWP has created jobs through additional discovery of the tasks that it can outsource and efforts to foster partner SMEs. In 2015, EWP discovered additional management jobs in relation to Dangjin #9 and Yeonggwang Baeksu Wind Farm construction projects, and trained new power plant mechanics for a private maintenance company that will serve to improve the productivity of the projects. In addition, it increased purchase from SMEs through support for the expansion of their markets, joint R&D, and improvements in relevant regulations, creating an additional 3,121 jobs in 2015.

Status of Job Creation for Partner SMEs in 2015

| Category | Contents | Sales (Purchase) | Jobs created |
|-----------------------|---|-----------------------|--------------|
| Support for market | Development of overseas markets: 48 companies | | |
| expansion | Operation of overseas office and export performance: an increase of US\$69.41 million | KRW 563.9 billion | 2.336 |
| Joint R&D | Accomplishment of localization of power generation equipment: 82% | 101110 000.9 | 2,000 |
| | Purchase of successful joint R&D products: KRW 16.1 billion | | |
| SMEs | Improvements in regulations through enhanced communication including CEO's on-site visits, etc. | - KRW 182.16 billion | 710 |
| | Holding meetings with buyers for products from outstanding SMEs | - N W 102.10 DIIIIOI1 | 710 |
| Businesses | Implementation of obligatory purchase of goods produced by companies owned by women | KRW 19.45 billion | 75 |
| owned by women | Holding workshops for the support of growth | KRVV 19.45 DIIIION | /5 |
| | Total | KRW 765.51 billion | 3,121 |

Social Contribution and the Activation of the Local Economy

Job Creation through Co-prosperity with Private Company

It created 694 jobs through joint investments with the private sector for Dangjin PPI Power Plant and Gyeongju Wind Farm, Phase 2. In addition, EWP created 1,012 jobs through collaboration with external R&D institutions, SMEs and local communities for coal ash recycling business and and startup

Summary of New Job Creation

Unit: People

| Year | The number of employees | Туре | Investment projects | Partnership with the private sector | Outsourcing | Others(Win-win Growth) | Total | |
|------|-------------------------|--------------------|---------------------|-------------------------------------|-------------|---------------------------|--------|--------|
| | | Regular Position | 11,882 | 644 | 138 | 3,739 | 16,403 | |
| 2013 | 2,201 | Temporary Position | 5,933 | 313 | 69 | 1,845 | 8,160 | |
| | | Total | 17,815 | 957 | 207 | 5,584 | 24,563 | |
| | | Regular Position | 10,096 | 1,001 | 162 | 3,407 | 14,666 | |
| 2014 | 2,295 | Temporary Position | 4,973 | 489 | 54 | 1,535 | 7,051 | |
| | | | Total | 15,069 | 1,490 | 216 | 4,942 | 21,717 |
| | 2,300 | Regular Position | 3,119 | 648 | 211 | 5,875 | 9,933 | |
| 2015 | | Temporary Position | 1,576 | 307 | 91 | 1,367 | 3,341 | |
| | | Total | 4,775 | 955 | 302 | 7,242 | 13,274 | |

Enhancement of Social Equity through the Promotion (=) SDG 10 of Open Employment



EWP has set the plan of promoting open employment based on the analysis of its past manpower hiring practices. EWP hired 99 interns in 2015 through career experience programs and expanded internship programs in a bid to help solve the aggravation of youth underemployment. It hired additional 59 persons through the wage peak system. EWP implements a mandatory local talent employment system for Ulsan. As a result, compared to the area's college graduates against the national total (1%), EWP has hired 6.3% of its new recruits from the Ulsan area.

Youth & Adolescents Career Experience and Job Competency Enhancement Program

Unit: People

| Objects | Objective | Trainees | Contents |
|---------------------|---|----------|--|
| Job seekers | Job competency verification and job experiences | 59 | Enhancement of employment opportunities through job competency verification and job experiences |
| College students | Job competency development | 99 | Operation of on-the-job internships for college students Cultivation of local talents through the selection of 30% of the students from local communities |
| | Career experiences | 249 | Operation of career experience programs for college students from across the country |
| Youth | Career experiences | 755 | Operation of career experience programs for elementary and secondary school students in collaboration with Ulsan Office of Education |

Offering Customized Part-time Jobs

EWP substitutes employees on childcare leave to be replaced with females with a career disruption and senior citizens, preventing job vacancy and contributing to job creation for second-class citizen. EWP carried out a job analysis with the purpose of identifying jobs suitable for a customized part-time job system allowing employees to maintain work-life balance. It uncovered 10 jobs eligible for the system in the areas of storage management, reading management, employee welfare and general affairs as a result of its job analysis by placing emphasis on continuous tasks, contribution to organizational productivity improvements, and jobs that will be applied for by a majority of potential applicants.



Sustainability Context

EWP is fully committing to making the world a happy place for all as declared in its mission, "We Make Energy for Happiness." As such, not only its growth but also shared growth with its suppliers is a material aspect as indicated in its materiality test.

Our Strategy & Commitment

For shared growth with its suppliers, EWP implements a profit-sharing system and supports the enhancement of their management and technology competencies. To help them improve their productivity, EWP also promotes joint R&D, manufacturing business innovation movement 3.0, and partnership support business. In addition, it enhances transparent fair transactions with them in a bid to protect the interests of SMEs and help invigorate the national economy.

Our Progress & Next Step

Through the implementation of a profit-sharing system, EWP recorded KRW 105 billion in sales and 318 persons in employment in 2015. It helped the participants in its manufacturing bylines innovation movement 3.0 to cut down on their manufacturing costs by KRW 790 million. It won a grand prize at the 2015 Big and Small Business Productivity Innovation Partnership Competition for the company's implementation of support for productivity innovation partnership with its suppliers. It also reinforced its fair transaction promotion system and principles and maximized the transparency in its contract execution and bidding processes.

Issue 11 Elimination of unfair transactions

Issue 18 Shared growth with suppliers

Key Performance Indicator









Partnership Competition' in 2015

Win-win Growth with Business Partners

Win-win Growth

EWP contributes to bolstering SMEs' enhancement of competitiveness through the implementation of various programs designed to achieve shared growth with its suppliers. It promotes a profit-sharing system with its small- to mid-sized suppliers. It also helps them increase sales and employment through support for the enhancement of management and technological competencies. To help them improve their productivity, EWP has implemented three innovation projects which has resulted in positive results in cost-cutting and sales increase.

Results of the MOTIE's shared growth evaluation





Implementation of a Profit-Sharing System

| Profit-sharing implementation | Task development | Establishment of profit-sharing models, Proposal of profit-sharing tasks |
|-------------------------------|---------------------|--|
| system | Task implementation | Planning and implementation, Implementation of mid-term evaluation |
| | Task evaluation | Evaluation of outcomes against goals, Task changes when necessary |
| | Profit-sharing | Profit-sharing cash distribution, Re-investments in SME suppliers' |

EWP has implemented a profit-sharing system to distribute the outcomes of the mutual cooperative efforts to reduce costs and improve productivity between itself and SMEs. It has set a four-stage promotion system and shared outcomes in five areas such as R&D, trial installation, competency enhancement, technology transfer and win-win finance. EWP provided its share - KRW 100 million - as a re-investment in the secondary and tertiary suppliers' improvements in productivity and technology competencies. As a result of its expanded implementation of the profit-sharing system to include secondary and tertiary suppliers in the scheme, the relevant supplier increased its sales by KRW 105 billion and its employment by 318 people in 2015. EWP reduced relevant costs by KRW 19 billion.

Outcomes of the EWP Profit-sharing System

| Profit-sharing types | Contents | Profit-sharing methods | Discovery efforts | | |
|-----------------------------|---|--|---|--|--|
| R&D type | R&D funds support Joint technological development | Preferential purchase of successful R&D products Collection of technology fees | Expansion of R&D investments KRW 14.2 billion in 2015 (▲ KRW 1 billion) | | |
| rial installation type | Support for site demonstration Self-development | Preferential purchase Sharing 1% of sales | Promotion of expansion of trail installation 18 cases in 2015 (▲2 cases) | | |
| Competency enhancement type | Technical mentoring Support for purchase and marketing Task discovery Sharing 1% of sales | | Support for productivity improvement programs KRW 330 million for 28 firms | | |
| Г/Т type | Support for commercialization Product development | Preferential purchase Collection of technology fees (a minimum of 2.5%) | T/T about patents in possession 71 cases in 2015 (▲ 2 cases) | | |
| Win-win finance type | Support for funds in need Improvement of productivity | Payment of 5% of interest earned for a 5% improvement in sales | Expanded loans from a KRW 10 billion fund Secondary & tertiary suppliers (previously primary only) | | |

Efforts and Outcomes of Support for SME Suppliers

Enhancement of Competitiveness through expanded Sales Routes

EWP has contributed to boosting SMEs' sales increases through preferential purchase and expanded sales routes. In 2015, EWP expanded its preferential purchase of SMEs' products through online purchase meetings - a first among local public institutions - purchase meetings held at its operating sites, and expansion of single source procurement from SMEs. To help the companies expand their sales network, EWP helped with their participation in trade fairs and export road shows, enabling them to open themselves up to the Chinese and Indonesian markets

Purchase of SMEs' Products



Efforts for Support Capability Reinforcement

EWP has provided diverse support to help SMEs to enhance their management competencies. With improvements in regulations and systems related to SMEs, EWP officially visited 12 companies in 2015 to listen to their difficulties and worked to eliminate barriers to SMEs' access to conduct business with itself. To help with their shortage in funds, EWP provided KRW 12.5 billion in loans in 2015. Due to such efforts, the sales of its partner SMEs rose by 6% in 2015 - from KRW 57.3 billion in 2014 to KRW 61 billion in 2015. Employment increased by 10% during the same period - from 320 persons in 2014 to 353 persons in 2015.

Promotion of Three Innovation Projects

Technological Innovation through the R&D Invigoration Support

EWP pursues SMEs' productivity improvement through its R&D invigoration support project. It has bolstered the implementation of the localization of power generation facilities and provided relevant information to its partner SMEs. It has succeeded in free transfer commercialization through the transfer of technologies in possession and the implementation of technological protection. In 2015, it carried out 18 test-bed cases leading to the increase of SME sales by KRW 5.687 billion.

Management Innovations through 'Industrial Innovation Movement 3.0'

To support SMEs' productivity improvement, EWP has promoted its 'Industrial Innovation Movement 3.0.' Compared to 2014, it increased participants to 8 companies in 2015. With an increased budget by KRW 68 million, EWP undertook diverse programs in 2015. The plant innovation activities enabled participating SMEs to cut down on their manufacturing costs by KRW 790 million.



Localization of power generation facilities



Protection of technologies (technical data







Productivity Innovation through Partnership

EWP has joined hands with the government to provide comprehensive support to its suppliers for their productivity improvements through 'the Productivity Innovation Partnership Support Project.' The program package is composed of a three-dimensional site diagnosis, creation of innovative environments, education on methods of manufacturing innovations, and education on productivity innovation, In 2015, EWP won a grand prize at the '2015 Big and Small Business Productivity Innovation Partnership Competition' for its efforts that are self-funded with KRW 114 million and participated by 5 suppliers.





Grand prize at 2015 Big and Small Business Productivity Innovation Partnership

Win-win Growth with Business Partners

Transparent Fair Transactions @ G4-507



EWP has actively made an institutional overhaul to promote fair transactions, prevent irregularities such as bid rigging, and protect the economically vulnerable. It also strives to upgrade its regulations with the purposes of protecting vulnerable companies and revitalizing the national economy.

Fair Transactions Promotion Systems and Principles

EWP's procurement ombudsman system serves as a window of cooperation with the company's suppliers. In 2015, it led the company to re-deliberate 10 proposals for regulation changes that were initially not accepted by the company out of the company's 2015 regulation improvement proposals made internally and externally. The system helps EWP secure fairness and momentum in its regulation changes. EWP implements the 'one strike, you're out' system about bid rigging. When a suspected case has been proven to be involved, EWP bans the relevant business from participating in its work through bids or otherwise for five years as an example of its principle of zero tolerance on bid rigging.



Transparency of Contract & Bid Information

EWP made reforms in its contract and bidding system to heighten the transparency of the system, among others. The obligation of pre-bidding information disclosure has expanded in addition to previously required goods purchase specification. The papers must be submitted prior to contract execution. The establishment of particular specifications is fundamentally blocked. The subcontractor selection methods and results have to be announced now in an effort to prevent a client's influence. In the event of negotiation-based contracts, the evaluation of subcontractor candidates has changed to an anonymous evaluation system to prevent any special favors from being given to a particular subcontractor or two.

Protection of Financially Vulnerable Companies





Unit: KRW 1 billion 25.32 29.97 2014 2015



EWP has taken active measures to protect financial vulnerable companies like small businesses and merchants and promote practical elimination of access barriers. It has added mandatory preferential purchasing from small businesses and merchants to its internal regulations. It has designated five items requiring the expansion of sales opportunities on the part of small businesses, leading small businesses to increase their contract awards for those items. Previously, regional limitation in bidding process was optional according to the department in charge. Now, regionally limited open bids have become mandatory at first. Local businesses' contract awards have also increased. Its Payment Monitoring System, which applied only to secondary and tertiary suppliers taking part in construction contracts, has been upgraded to include those involved in software related contracts, bolstering timely payment to its subcontractors.

Improvements in the evaluation of 2015 public institution external integrity

2014 **8.95** Points 2015 **8.98** Points

Evaluation of anticorruption policies 4 consecutive years



Special Issue

Developing Overseas Markets

Directions for Market Development at Home and Abroad

EWP has set the directions for the development of sales routes. It has broadened its overseas markets and increased the number of its partner companies as a way of implementing shared growth with its suppliers. In 2015, which was part of Stage 3 seeking the fortification of the company's footholds.

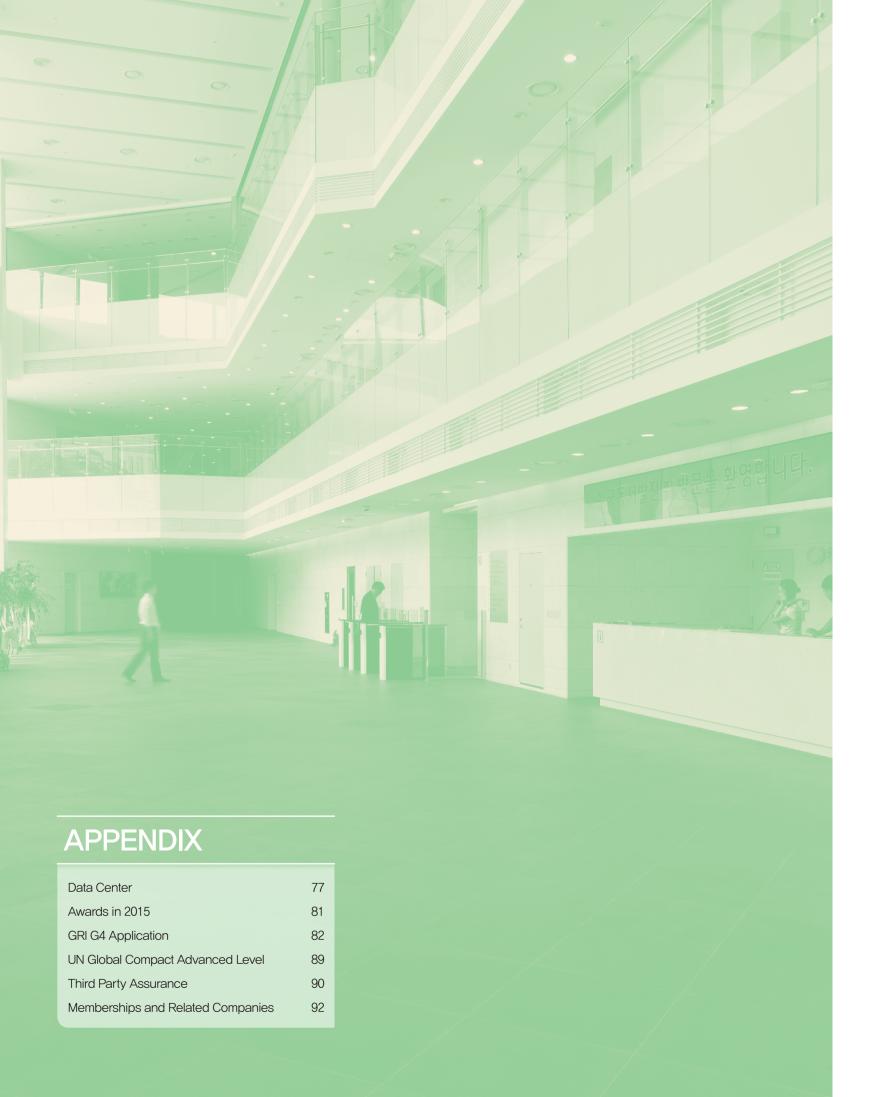
| Promotion Stages | | 2013 | 2014 | 2015 | | | |
|---------------------|----------------------------------|--|---|---|--|--|--|
| | | Laying the foundation for an Fortification of its footholds overseas market advance | | Expansion of its presence in global markets | | | |
| Overseas markets | Overseas regions to advance into | China, Southeast Asia, the Middle East | Americas, Eastern Europe, Russia | The EU, Africa | | | |
| | No. of companies | 40 | 60 | 100 | | | |
| | Core business to promote | - Expansion of EWP-MAP, the con Southeast countries ▶ four South | npany's overseas marketing model theast countries + China) | for SME products (Four | | | |
| | | Joint participation in 7 trade fairsExport roadshowsIncrease of overseas branch office | including WETEX with five other popels | ower companies | | | |
| | | - Korea-China Thermal Power Generation Partnering Plaza - Discovery and cultivation of hidden champion SMEs - Operation of overseas shared growth offices - Establishment of a mobile export exhibition hall | | | | | |
| | | - Promotion of overseas demonstrative installation business (three Southeast countries) - Upgrade of demand-centered tailored EWP-MAP (Southeast Asia ▶ global markets) | | | | | |

Differentiated Market Opening Efforts to Fortify Overseas Market Footholds

EWP takes strategic approaches in order to expand the markets for SMEs' products. It conducted surveys among the members of 83 councils and reflected the results in its MoU with an Indonesian power company for technological cooperation. EWP also owes the establishment of a solution provider strategy for the Indonesian project to the survey results. EWP intends to push forward with the project in directions. Most notably, for the overseas demonstrative installation of SME products, EWP has offered SMEs with opportunities to publicize their self-developed goods through meetings between EWP and the Indonesian counterpart and to use its test-beds installed in its power plants in operation. Aside from this, EWP has established various performance indices. It has continued to implement systematic monitoring to boost the effect of its strategies.

Strategic System to Expand the Sales Routes for SMF Products

| Otrategie bys | | 1000013 | | | | | | | |
|----------------------|---|---|--|--|--|--|--|--|--|
| Goal | Expansion of sales routes for S | Expansion of sales routes for SME products through strategic approaches to Indonesian power plant markets | | | | | | | |
| Promotion directions | Support for overseas demonstrative installation of SMEs' self-developed products | Holding conferences on Korea-Indonesia technology exchange | Product promotion and feature improvements | | | | | | |
| Actions taken | Indonesia (PT.PJB) - EWP ◀ ▶PJB Technical Meeting - Offering test-beds at power plants in operation - Providing chances to publicize SME products | EWP - Selection of SME goods optimized for Indonesian markets - EWP ◀ ▶PJB Technical Meeting - Technical advice about SME goods | SMEs - Product briefings to experts - Reflection of experts' advice on products - Presentation - Visit and presentation at Indonesian power plants | | | | | | |
| Performance indices | Increase of companies operating in Southeast Asia | Increase of exports to Southeast Asia | Increased employment by export businesses | | | | | | |
| Monitoring tools | Integrated performance management system | Management strategy meetings (weekly/monthly) | Internal evaluation system | | | | | | |



Data Center G4-EC1 G4-EC1





Financial Performance

Summary Statement of Financial Position

Unit: KRW 100 million

| Classification | 2013 | 2014 | 2015 |
|-------------------------|--------|--------|--------|
| Current asset | 8,677 | 8,279 | 9,380 |
| Non-current asset | 65,820 | 75,428 | 78,906 |
| Total asset | 74,497 | 83,707 | 88,286 |
| Current liabilities | 11,544 | 6,322 | 10,211 |
| Non-current liabilities | 28,601 | 41,731 | 38,158 |
| Total liabilities | 40,145 | 48,053 | 48,369 |
| Paid-in capital | 21,381 | 21,381 | 21,381 |
| Retained earnings | 13,794 | 15,324 | 19,539 |
| Total equity | 34,352 | 35,654 | 39,917 |

Summary of Income Statement

Unit: KRW 100 million

| Classification | 2013 | 2014 | 2015 |
|-------------------------------------|--------|--------|--------|
| Sales | 53,683 | 45,070 | 40,477 |
| Cost of sales | 52,067 | 41,710 | 33,548 |
| Gross profits | 1,616 | 3,360 | 6,928 |
| Selling and administrative expenses | 578 | 536 | 766 |
| Operating profit | 1,038 | 2,824 | 6,162 |
| Other gains | 125 | 93 | 297 |
| Other costs | 10 | 34 | 32 |
| Financial gains | 218 | 565 | 1,370 |
| Financial costs | 706 | 987 | 1,530 |
| Profit (loss) before income taxes | 314 | 2,104 | 6,096 |
| Corporate tax expense | 44 | 419 | 1,546 |
| Net Profit | 270 | 1,685 | 4,549 |

Trend in Asset Values

Unit: KRW 100 million 83,707 74,497 2013 2014 2015

Trend in Net Income



APPENDIX



| Category | Unit | Туре | | Туре | | Туре | | 2013 | 2014 | 2015 |
|--|-----------------|--------------------------|------------|--------|--------|---------|--|------|------|------|
| Facility capacity | MW | | | 9,343 | 9,138 | 9,139.4 | | | | |
| | | | Coal | 39,661 | 38,781 | 39,252 | | | | |
| | | Facall fivels | LNG | 10,114 | 9,225 | 6,873 | | | | |
| Dower generation | CMb | Fossil fuels | Oil | 6,836 | 2,693 | 3,114 | | | | |
| Power generation Sales GWh Sales price won/kWh Forced outage Unplanned losses Operating rate % Consumption rate % Thermal efficiency % | GWII | | Total | 56,611 | 50,699 | 49,239 | | | | |
| | | New-renewable | Total | 153 | 305 | 286 | | | | |
| | | Company | Total | 56,764 | 51,004 | 49,525 | | | | |
| Sales | GWh | - - | | 54,069 | 48,549 | 45,840 | | | | |
| Sales price | won/kWh | _ | | 98.04 | 91.19 | 85.09 | | | | |
| Forced outage | % | _ | | 0.88 | 0.098 | 0.556 | | | | |
| Unplanned losses | % | - | | 1.31 | 0.387 | 0.743 | | | | |
| Operating rate | % | - | | 91.36 | 99.88 | 91.44 | | | | |
| Consumption rate | % | _ | | 71.4 | 65.06 | 60.38 | | | | |
| Thermal efficiency | % | | | 38.96 | 39.65 | 39.5 | | | | |
| Service power rate | % | - | | 5.13 | 5.19 | 5.46 | | | | |
| Biz. Partners | KRW 100 million | Purchased products & | k services | 4,609 | 3,533 | 2,719 | | | | |
| Employees | KRW 100 million | Salary, Benefits | | 1,962 | 1,479 | 2,054 | | | | |
| Shareholders | KRW 100 million | Dividends | | 81 | 253 | 679 | | | | |
| Creditors | KRW 100 million | Interests | | 316 | 371 | 296 | | | | |
| Government | KRW 100 million | Corporate tax, Local tax | | 53 | 543 | 1,643 | | | | |
| Local Society | KRW 100 million | Social contribution, do | nation | 41 | 41 | 40 | | | | |
| Reinvestments | KRW 100 million | Surplus excluded from | n dividend | 259 | 1,502 | 3,957 | | | | |

Forced outage



Unplanned losses



- * Forced outage rate = outage hours/calendar
- * Unplanned loss rate = quantity of unplanned lost power/standard power quantity
- * Localization rate of power generation equipment = {domestic capital cases/ (domestic capital cases + foreign capital cases)} ×0.2 + {domestic capital amounts/ (domestic capital amounts + foreign capital amounts)} ×0.8



| Category | Unit | Classification | 2013 | 2014 | 2015 |
|---|----------------------|----------------------------------|---------|---------|---------|
| GHG | 1,000 ton | GHG emissions (Scope1+Scope2) | 42,666 | 38,230 | 37,951 |
| | tCO ₂ -eq | GHG emissions (Scope3) | - | 9,263 | 8,742 |
| Energy consumption | TJ | Energy consumption | 550,933 | 489,557 | 457,227 |
| Energy consumption | GJ/MWh | Energy basic unit | 9.85 | 9.76 | 9.232 |
| Fuel consumption | 10,000 tons | Coal | 1,603 | 1,542 | 1,500 |
| Fuel consumption | 1,000 KL | Oil | 1,616 | 628 | 660 |
| | 1,000 tons | LNG | 161 | 131 | 960 |
| | ton | SOx | 16,629 | 13,755 | 11,965 |
| Air pollutant emissions | ton | NOx | 31,994 | 24,799 | 21,552 |
| | ton | Dust | 723 | 687 | 651 |
| | | SOx | 0.294 | 0.271 | 0.243 |
| Air pollutant emissions relative to basic unit | ton/GWh | NOx | 0.565 | 0.489 | 0.437 |
| | | Dust | 0.013 | 0.014 | 0.013 |
| Wastewater discharged | ton | COD | 11 | 22 | 27 |
| | ton | SS | 62 | 52 | 12 |
| | ton | T-N | 1 | 1 | 47 |
| | ton | T-P | 0.58 | 0.62 | 0.4 |
| | | COD | 0.26 | 0.38 | 0.55 |
| Wastewater discharged Wastewater discharged relative to basic unit | 1/0//01//0 | SS | 1.49 | 1.03 | 0.24 |
| basic unit | Kg/GWh | T-N | 0.02 | 0.02 | 0.95 |
| | | Т-Р | 0.01 | 0.01 | 0.01 |
| Wastewater generated | 1,000 tons | - | 3,598 | 3,161 | 3,416 |
| Wastewater reuse quantity | 1,000 tons | - | 1,288 | 1,285 | 1,227 |
| Wastewater reuse rate | % | - | 36 | 41 | 36 |
| Waste quantity | 1,000 tons | - | 1,839 | 1,906 | 1,824 |
| Waste recycling quantity | 1,000 tons | - | 1,857 | 1,851 | 1,635 |
| Desulfurized gypsum generation | 1,000 tons | - | 571 | 467 | 495 |
| Desulfurized gypsum recycling rate | 1,000 tons | - | 557 | 459 | 480 |
| Coal ash generation quantity | 1,000 tons | - | 1,807 | 1,871 | 1,802 |
| Coal ash recycling quantity | 1,000 tons | - | 1,829 | 1,844 | 1,615 |

GHG emissions (Scope 1+ Scope2)



Energy consumption



APPENDIX

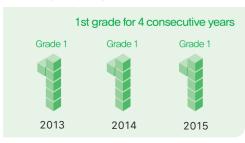
Social Performance Indicators

| Category | Unit | Classification | | 2013 | 2014 | 2015 |
|-----------------------------------|-----------------|--|--------------------------|---|--|--------|
| | | | Total | 2,231 | 2,296 | 2,300 |
| Employees | People | Regular positions | Male | 1,991 | 2,029 | 2,064 |
| | | | Female | 240 | 267 | 236 |
| | % | The handicapped | | 3.4 | 3.4 | 3.4 |
| Minorities | % | Females | | 10.5 | 11.5 | 10.7 |
| Minoriles | People | Female managers | | 18 | 22 | 28 |
| | % | Female managers(rate) | | 3.2 | 3.7 | 4.3 |
| lab accurity | Year | Average service years | | 15.1 | 16.0 | 15.7 |
| Job security | % | Turnover | | 0.54 | 2,296 2,029 267 3,4 11.5 22 3,7 | 0.78 |
| | | No. of recruits | | 2,231 2,296 2,300 1,991 2,029 2,064 240 267 236 3,4 3,4 3,4 10,5 11,5 10,7 18 22 28 3,2 3,7 4,3 15,1 16,0 15,7 0,54 0,93 0,78 206 131 16 97 78 10 10 11 0 48 37 5 10 9 0 48 32 0 14 14 33 100 100 100 3,77 4,41 4,57 110 124 188 3,512 2,680 2,540 77,3 58,2 58,4 8 6 6 47,644 55,588 58,482 22 24 26,6 8,53 8,56 8,8 | 16 | |
| | | Personnel from non-capital area | | 97 | 78 | 10 |
| Cacially acquitable ample mont | Doorlo | Individuals of national merit | | 10 | 2,296 2,029 267 3,4 11.5 22 3,7 16.0 0,93 131 78 11 37 9 32 14 100 4,41 124 2,680 58,2 6 55,588 24 8,56 1 2,87 164 158 | 0 |
| Socially equitable employment | People | High school graduates | | 48 | 37 | 5 |
| | | The handicapped | | 10 | 31 | 0 |
| | | Females | | 48 | 32 | 0 |
| Family, friendly, many and and at | People | Employees on childcare leave | | 14 | 14 | 33 |
| Family-friendly management | % | Post-childcare leave return rate | | 100 | 100 | 100 |
| Employee satisfaction | Points | GWP index (full score: 5) | | 3.77 | 4.41 | 4.57 |
| | Hours | Training hours per person | | 110 | 124 | 188 |
| Manpower Training | KRW 1 thousand | Education costs per person | | 3,512 | 2,680 | 2,540 |
| | KRW 100 million | Education budget | | 77.3 | 58.2 | 58.4 |
| | KRW 100 million | Donation | | 8 | 6 | 6 |
| Social Contribution | Hours | Volunteer service hours | | 47,644 | 55,588 | 58,482 |
| | Hours | Volunteer service hours per person | | 22 | 24 | 26.6 |
| Integrity Assessment | Points | Evaluation of Anti-corruption & Civil I | Right Commission | 8.53 | 8.56 | 8.80 |
| Anti-corruption policy assessment | Grade | Evaluation of Anti-corruption & Civil I | Right Commission | 1 | 1 | 1 |
| Employee safety | % | No. of deaths x 10,000 / total No. of | employees | 1.74 | 2.87 | 0 |
| Win win Crouth | KRW 100 million | Support of SME R&D Funds | | 93 | 164 | 143 |
| Win-win Growth | KRW 100 million | Purchase of successful joint R&D pro | oducts with SMEs | 194 | 158 | 195 |
| Local community support | KRW 100 million | According to the Act on Assistance to Neighboring Areas | o Electric Power Plants- | 33 | 35 | 34 |

Volunteer service hours per person



Anti-corruption policy assessment



* 2012 Anti-corruption policy assessment 1st grade

Awards in 2015







Award as an excellent institution in the Creation of 3ZERO Workplace Project

Won Carbon Management Special Award in Carbon Disclosure Project

for two consecutive years



Won the Minister of Health and Won th
Welfare Award at 2015 Korea & SME
National Sharing Awards Partner



Won the grand prize at '2015 Big & SME Productivity Innovation Partnership Competition'

(Dangjin Thermal Power Plant Complex) won an Excellent Award

at the 14th Korea Safety Awards (the Prime Minister Award)



Won 'SMBA Task Discovery Award' for 8 consecutive



GRI G4 Application

| GRI index | Index Description | | De | tails | | | Page | ISO 26000 | Verified |
|---|---|--|---|--------------------|------------|------------|---|---|----------|
| | | | Strategy and Analys | sis | | | | | |
| G4-1 | Statement from most senior decision- maker of the organization | EWP intends to establish its vision in terms of sustainability management and continue to make innovations in its business operations with the purpose of achieving continuous corporate growth by actively coping with the ongoing social and environmental paradigm shift throughout the world. | | | | | 2, 3 | 7.4.2 | V |
| | | | Organizational Profi | le | | | | - | |
| G4-3 | Name of the organization | Korea East-Wes | t Power Co., Ltd. | | | | 6 | - | V |
| G4-4 | Primary brands, products and services | Power generation | n and development of electric po | ower sources | | | 6 | - | V |
| G4-5 | Location of the organization's headquarters | | Jung-gu, Ulsan, Korea | | | | 6 | - | V |
| G4-6 | Number of countries where the organization operates, and names of countries where either the organization has significant operations or that are specifically relevant to the sustainability topics covered in the report | Honam Thermal Power Plant cor | Domestic power plant: Dangjin Thermal Power Plant complex, Ulsan Thermal Power Plant complex, Honam Thermal Power Plant complex, Donghae Bio Thermal Power Plant complex, Ilsan Thermal Power Plant complex Overseas power plant: Vietnam, Indonesia, Guam, Jamaica, USA | | | | | | V |
| G4-7 | Nature of ownership and legal form | • 100% owned by | / KEPCO | | | | 6, 7 | 6.2.1 | V |
| G4-8 | Markets served | Power plant oper | erations at home and abroad and | investments and de | evelopment | | 6 | - | V |
| G4-9 | Total number of employees, total number of operations, and net sales, Total capitalization broken down in terms of debt and equity, Quantity of products or services provided | No. of operation Net Profit: KRW Generated elect | No. of employees: 2,300 people No. of operations: 10 (5 at home, 5 overseas) Net Profit: KRW 454.9 billion, Debt: KRW 4.8369 trillion Generated electricity: 49,525GWh Sales: KRW 4.0477 trillion | | | | | | V |
| G4-10 | Total number of employees by employment contract and gender | Classi | fication (Unit : People) | 2013 | 2014 | 2015 | 65 | 6 - 6 - 6 - 6 - 7 - 6 - 7 - 7 - 6 - 2 - 1 - 6 - 7 - 9 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 | V |
| | employment contract and gender | | Total | 2,231 | 2,296 | 2,300 | | | |
| | b. Total number of permanent employees | Employees | Male | 1,991 | 2,029 | 2,064 | | | |
| | by employment type and gender | | Female | 240 | 267 | 236 | | | |
| | | Retired employe | es in 2015 | 40 | 37 | 56 | | | |
| | c. Total workforce by employees and | Voluntary retiree | s in 2015 | 5 | 3 | 3 | | | |
| | supervised workers and by gender | Non-fixed-term | employees | 0 - | 0 | 0 | | | |
| | d. Total workforce by region and gender | Irregular workers | (direct employment) | 29 | 12 | 12 | 2,3 7.4.2 6 - 6 - 9 - 6,7 6.2.1 6,7,9 - 82 6.4,6.4.3, 6.4.4, 6.4.5, | | |
| | a. rotal workered by region and genius | Korea East-We Power generati 395, Jongga-re Domestic power Honam Thermat Power Plant co Overseas power 100% owned be Power plant op No. of employee No. of operatio Net Profit: KRW Generated elect Sales: KRW 4.1 Class Employees Retired employ Voluntary retires Non-fixed-term Irregular worker Indirectly employee recruits (except for executives) 2015 irregular worker recruits Ratio of employees with special status Ratio of | yed workers | 250 | 284 | 326 | | | |
| | e. Whether a substantial portion of the | | Female | 48 | 32 | 0 | | | |
| | organization's work is performed by | | The handicapped | 10 | 11 | 0 | | | |
| | workers who are legally recognized as | 2015 regular | Local talents (non-capital area) | 92 | 62 | 9 | | | |
| | self-employed, or by individuals | | Local talents (Ulsan) | 5 | 16 | 1 | | 6.4, 6.4.3, 6.4.4, 6.4.5, | |
| | f. Any significant variations in employment members | (except for | Vocational high school | 45 44 | 37 36 | 5 0 | | | |
| | | executives) | Graduates of science & engineering colleges | 145 | 78 | 7 | | | |
| | | | Total recruits | 206 | 131 | 16 | | | |
| | | 0015: | Interns | 132 | 131 | 99 | | 6.4, 6.4.3, 6.4.4, 6.4.5, | |
| | | - | Part-time workers | | - | | | | |
| | | Worker recruits | Fixed-term workers | 51 | 2 | 13 | | | |
| | | Ratio of | Females (rate) | 240(10.5%) | 267(11.5%) | 236(10.7%) | | | |
| | | with special | Female managers (rate) Handicapped employee rate | 18(3.2%) - 3.4% | 22(3.7%) | 28(4.3%) | | | |
| G4-11 | Percentage of total | | mployees' union membership* | | | | 82 | | V |
| Indirectly employed workers 250 284 326 | | | | | | | | | |
| | | 97.5 | | | | | | | |

| GRI index | Index Description | | | Details | Page | ISO 26000 | Verified |
|-----------|---|------------------------------|---|---|-------|-----------|----------|
| G4-12 | Describe the organization's supply chain | sells it to KEPO | | power companies and regional electric operators and Exchange. KEPCO sells electricity to consumers through works. | 6, 12 | 6.6.6 | V |
| G4-13 | Significant changes during the reporting period regarding the organization's size, | | er plants: Dangjin Units 9 & 1 er plants: the Kalsel Indonesia | | 10 | - | V |
| | structure, ownership, or its supply chain, including | domestic IPPs • New & renewa | | o energy project through strategic alliance with nstruction of a new wind farm and preparing for Miryang | | | |
| G4-14 | Report whether and how the precautionary approach or principle is addressed by the organization | operational risk | ks as a precautionary approac grated Crisis Response Cente | agement system by integrating its financial and the changes in management environments. It has also rethat can immediately cope with any type of disaster | 23 | - | V |
| G4-15 | List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses | EWP endorses | s global CSR initiatives such a | 1, 7 | 7.8 | V | |
| G4-16 | Associations the organization has joined as a member | • EWP is a mem | lber of a total of 25 associatio | ns. | 92 | - | V |
| | | | Main issue and repor | t boundary | | | |
| G4-17 | All entities included in the organization's consolidated financial statements or equivalent documents | Please refer to | Please refer to the company's financial statements. | | | | V |
| G4-18 | The process for defining the report content and the Aspect Boundaries | | wed the Reporting Principles for decided on its report conten | 1, 25 | - | V | |
| G4-19 | List all the material Aspects identified in the process for defining report content | | the results of the materiality a s institute for Sustainable Dev | 25 | - | V | |
| G4-20 | The Aspect Boundary for each material Aspect within the organization | EWP has repo each chapter of | rted the Aspect Boundary for of this report. | 25 | - | V | |
| G4-21 | The Aspect boundary for each material Aspect outside the organization | Please refer to | each Aspect Boundary index | | 25 | - | V |
| G4-22 | The effect of any restatements of information provided in previous reports, and the reasons for such restatements | calculation me | | provided in previous reports due to changes in tition among employees, wastewater discharge quantity, | 83 | - | V |
| G4-23 | Significant changes from previous reporting periods in the Scope and Aspect Boundaries | No significant of | changes in the Scope and As | pect Boundaries | 83 | - | V |
| | | Stal | keholder Engagement Sta | keholders Participation | | | |
| G4-24 | List of stakeholder groups engaged by the organization | | and relevant institutions, Powe z. Partners, Labor Unions, Sh | er companies, Media, NGOs, Local community, areholders, People | 24 | - | V |
| G4-25 | Basis for identification and selection of stakeholders with whom to engage | | and selects its stakeholders in connection with its value cre | n terms of value impact, value production and value eation process. | 24 | - | V |
| G4-26 | The organization's approach to | | Stakeholders | Stakeholder engagement | 24 | 6.8.3 | V |
| | stakeholder engagement, including frequency of engagement, including | | Governments & relevant authorities | Government Communication Portal | | | |
| | frequency of engagement by type and by | Value impacts | Power companies, mass | Power Company Council, etc. | | | |
| | stakeholder group | | media | Newspaper articles, broadcast. | | | |
| | | | NGOs, Local communities | Local Council | | | |
| | | Value | Employees | Education to share the vision, management meetings, weekly meetings | | | |
| | | production | Biz. Partners | Town hall meetings, special lectures, SME Shared Growth Center, etc. | | | |
| | | | Labor union | Labor-Management Strategy Meeting | | | |
| | | Value | Shareholders | Electricity trading system, Management Information Allio | | | |
| | | consumption | | Korea information portals, the Open Management | | | |

| | | | General Standard | Disclosures | | | |
|-----------|--|--------------------------------|---|---|------|----------------------|----------|
| GRI index | Index Description | | | Details | Page | ISO 26000 | Verified |
| G4-27 | Key topics and concerns that have been raised through stakeholder engagement, | | Stakeholders | Key topics and concerns | 24 | - | V |
| | and how the organization has responded to those key topics and concerns, | | Governments & relevant authorities | Stable power supply | | | |
| | including through its reporting. Report the stakeholder groups that raised each of the | Value impacts | Power companies & mass media | Securing competitiveness in the power industry, interest in compelling issues, competitive cooperation | | | |
| | key topics and concerns | | NGOs, Local communities | Local power generation, environmental protection, economic invigoration in regions around power plants | | | |
| | | | Employees | Enhancement of corporate competitiveness, work-life balance, etc. | | | |
| | | Value production | Biz. Partners | Invigoration of shared growth and economic growth, establishment of fair and transparent transaction systems | | | |
| | | | Labor union | Establishment of corporate culture based on communication and trust | | | |
| | | Value | Shareholders | Requests for information disclosure | | | |
| | | consumption | People | Stable supply of high-quality economical electricity | | | |
| | | | Report Pro | ofile | | | |
| G4-28 | Reporting for information provided | • Jan. 1, 2015 | ~ Dec. 31, 2015 | | 1 | - | V |
| G4-29 | Date of most recent previous report | • Sept. 2015 | | | 1 | - | V |
| G4-30 | Reporting cycle | Reporting cycl | cle: 1 year | | 1 | | V |
| G4-31 | Contact point for questions regarding the report or its contents | | n charge: Climate & Environm 170-5000-1544 | ent Team, Power Generation Division | 1 | - | V |
| G4-32 | The 'in accordance' option the organization has chosen | • EWP reports | sen 'in accordance with GRI all indices in General Standar ecific Standard Disclosures. | G4 - Core' d Disclosures and at least one index for each material | 1 | - | V |
| G4-33 | Organization's policy and current practice with regard to seeking external assurance for the report | Organization' | s policy and current practice | with regard to seeking external assurance for the report | 1 | 7.5.3 | V |
| | | | Governar | ice | | | |
| G4-34 | Organization's policy and current practice with regard to seeking external assurance for the report | | OD composed of secretariat, ecommendation Committee. | professional subcommittees, Audit Committee and | 18 | 6.2 | V |
| G4-39 | Report whether the Chair of the highest governance body is also an executive officer | | ne BOD, the highest governal ependence of the board from | nce body, is the senior non-executive director and the company management. | 18 | - | V |
| G4-45 | The highest governance body's role in the identification and management of economic, environmental and social impacts, risks, and opportunities. Include | Participation of about the cor | of non-executive directors is a mpany's economic, environme | gs. Brainstorming opportunities are given to executives. ictively sought. BOD members have in-depth discussions ental and social impacts, risks and opportunities. ie company's business aspects but also its social | 19 | 7.4.3 | V |
| | the highest governance body's role in the implementation of due diligence processes | responsibilitie | S. | | | | |
| G4-47 | Report the frequency of the highest | | No. of BOD meetings | BOD resolutions | 19 | - | V |
| | governance body's review of economic, environmental and social impacts, risks, and opportunities | 2015 | 11 | 31 | | | |
| | | | Ethics and In | tearity | | | |
| G4-56 | Organization's values, principles, standards | • EWP has esta | ablished its own ethical vision | and mid- to long-term strategies to promote ethics and | 20 | 4.4 | V |
| | and norms of behavior such as codes of conduct and codes of ethics | rimes and co | of behavior such as codes of ntract execution. egrity & Ethics Committee. | conduct, guidelines on disciplinary actions, reporting on | | | |
| G4-58 | Internal and external mechanisms for reporting concerns about unethical or unlawful behavior, and matters related to organizational integrity, such as escalation through line management, whistleblowing mechanisms or hotlines | conduct, guid | delines on disciplinary actions | act execution as a way of strongly enforcing its codes of reporting on crime, and codes of ethics. The application of the norms to its employees who are zations. | 20 | 7.7.5, 4.4, 6.6.3 | V |

| GRI index | Index Description | | Details | | | Page | ISO 26000 | Verifie |
|------------------------------|--|---|-----------------------------|-----------------------|-----------------|-------|------------------|---------|
| Economic Perfor- mance | Disclosures on Management Approach(DMA) | Through domestic and overseas projections and its business scope to the diversification of biomass fuels. Aside from this, it bolsters it future grain prove its financial soundness through | 30 | | | | | |
| G4-EC1 | The direct economic value generated | Direct Economic Value | | Unit: ł | KRW 100 million | 77,78 | 6.8.1, | V |
| | and distributed (EVG&D) on an accruals basis, direct economic value generated, | Classification | 2013 | 2014 | 2015 | | 6.8.2, 6.8.3. | |
| | economic value distributed, and economic | Sales | 53,683 | 45,070 | 40,477 | | 6.8.7, | |
| | value retained | Cost of goods sold | 52,067 | 41,710 | 33,548 | | 6.8.9 | |
| | | Gross profit | 1,616 | 3,360 | 6,928 | | | |
| | | Selling and administrative expenses | | 536 | 766 | | | |
| | | Operating profit | 1,038 | 2,824 | 6,162 | | | |
| | | Other gains | | 93 | 297 | | | |
| | | Other costs | 10 | 34 | 32 | | | |
| | | Financial gains | 218 | 565 | (273) | | | |
| | | Financial costs | 706 | 987 | 1,530 | | | |
| | | Profit (loss) before income taxes | 314 | 2,104 | 6,096 | | | |
| | | Corporate tax expense | 44 | 419 | 1,546 | | | |
| | | Net Profit | 270 | 1,685 | 4,549 | | | |
| | | Distributed Economic Value Unit: KRW 100 million | | KRW 100 million | | | | |
| | | Classification | 2013 | 2014 | 2015 | | | |
| | | Biz. Partners | 4,609 | 3,533 | 2,719 | | | |
| | | Employees | 1,962 | 1,479 | 2,054 | | | |
| | | Shareholders | 81 | 253 | 679 | | | |
| | | Creditors | 316 | 371 | 296 | | | |
| | | Government | 53 | 543 | 1,643 | | | |
| | | Local society | 38 | 42 | 39 | | | |
| | | Reinvestments | 259 | 1,502 | 3,957 | | | |
| ndirect Economic mpact | Disclosures on Management Approach(DMA) | EWP is building infrastructure in variou terms of not only its economic gains in | | | - | 30,31 | | |
| 94-EC7 | The extent development of significant | EWP has installed 345kV transmission | n lines in the Dangjin area | a. It has developed a | simulation | 32,34 | 6.3.9, | V |
| | infrastructure investment and services | program intended for optimal output of | distribution of Dangjin The | ermal Power Plant. As | such, it has | | 6.8.1, | |
| | supported | increased its power generation by 32 | | | | | 6.8.2, | |
| | | It is now engaged in diverse infrastructure investments such as wind farms, biomass power plants and the creation of Future Energy Town. | | | | | 6.8.7, 6.8.9 | |

| | | Specific Standard | Disclosures_Environment | ntal Category | | | | | |
|-----------|--|---|--|---------------------------|----------------------|--|--|--|--|
| GRI index | Index Description | | Details | | | | | | |
| Energy | Disclosures on Management Approach(DMA) | 0, | • EWP realizes energy conservation through diverse efforts including technical development and the development of low-carbon power plants. | | | | | | |
| G4-EN3 | Energy consumption within the organization | Total energy consumption | otal energy consumption | | | | | | |
| | | Category | 2013 | 2014 | 2015 | | | | |
| | | Energy Usage (Unit: TJ) | 550,933 | 489,557 | 457,227 | | | | |
| | | There is a slight discrepancy be operating sites because the sites. | | ns and the total of the e | emissions of all its | | | | |

| | | Specific Sta | andard Disclosures_Envir | onmental Category | | | | |
|--|---|---|--|--|---|--------|-----------------|----------|
| GRI index | Index Description | | De | tails | | Page | ISO 26000 | Verified |
| Emission | Disclosures on Management Approach(DMA) | | | in diverse activities such as v ming GHG into high value-ac | * | 44,46 | | |
| G4-EN15 | Direct greenhouse gas(GHG) | Scope1+Scope2(GHG e | Scope1+Scope2(GHG emissions) Unit: tCO2-eq | | | | 6.5.5 | V |
| | emissions(SCOPE1) | 2013 | 2014 | 2015 | | | | |
| G4-EN16 | Energy indirect greenhouse gas(GHG) emissions(SCOPE2) | 42,665,921 | 38,229,795 | 37,950,777 | | 46,79 | 6.5.5 | V |
| G4-EN17 Other indirect greenhouse gas(GHG) emissions(SCOPE3) | | Scope3(Other relevant in | ndirect GHG emissions) | Unit: tCO2-eq | | 46,79 | 6.5.5 | V |
| | emissions(SCOPES) | 2013 | 2014 | 2015 | | | | |
| | | - | 9,262,519 | 8,742,014 | | | | |
| G4-EN21 | NOx, SOx and other significant air | Through the increased | recycling of coal ash by | l interior goods that replace c 800,000 tons a year, EWP ex narges and GHG emissions (| pects to reduce its | 48,79 | 6.5.3 | V |
| | emissions | | | Emissions | | | | |
| | | Classification | 2013 | 2014 | 2015 | | | |
| | | SOx | 16,6 | 29 13,755 | 11,965 | | | |
| | | NOx | 31,9 | 94 24,799 | 21,552 | | | |
| | | Dust | 7 | 23 687 | 651 | | | |
| Waste- water and waste | Disclosures on Management Approach(DMA) | EWP continues to implement on the impact of the impact on the impact on the impact on the impact on the impact of the impact on the impact of the impact on the impact of the impac | rove its efficiency in terms e environment. | gement to minimize its | 44, 48, 49, 50 | | | |
| G4-EN22 | Total water discharge by quality and destination | | mprehensive wastewater ter and wastewater recyc | reatment facility at each of its | power plants and thus | 49, 79 | 6.5.3, 6.5.4 | V |
| | | | service water | waste w | | | | |

| | service | water | | waste water | |
|-------------|--------------|-----------|--------|---------------|---------------|
| Power plant | Usage | Intensity | Output | Recycled Q'ty | Recycled Rate |
| | (1,000 tons) | (ton/GWh) | Output | (1,000 ton) | (%) |
| 2013 | 13,761 | 242 | 3,598 | 1,288 | 36 |
| 2014 | 12,055 | 237 | 3,161 | 1,285 | 41 |
| 2015 | 10,267 | 209 | 3,416 | 1,227 | 36 |

Emission Allowances and Concentrations for Water Pollutants(COD / SS)

Unit: mg/l

| | | | | | | 0 |
|-----------|----------------------------|---------------------------|------------|-----------|------------|-----------|
| Do | wer Plant | Area | CC | DD D | S | S |
| PO | OWEI I Idill | (type) | Regulation | Emissions | Regulation | Emissions |
| | ower generation | Area B | 90 | 5 | 80 | 2 |
| Dangjin — | Desulfurization | (Grade 1) | 90 | 21 | 00 | 21 |
| | Ulsan | B (Grade 1) | 90 | 7 | 80 | 2 |
| | ower generation wastewater | Special | 40 | 6 | 20 | 2 |
| Honam — | Desulfurization wastewater | Area (Grade 1) | 40 | 19 | 30 | 7 |
| D | onghae | Special Area (Grade 3) | 130 | 2 | 120 | 1 |
| | llsan | Area B (Grade 1) | 40 | 6 | 10 | 3 |

Emission Allowances and Concentrations for Water Pollutants(T-N / T-P)

Unit: mg/l

| | Dower Dlant | Area | Total N | itrogen | Total Pho | sphorous |
|--|-----------------------------|---------------------------|------------|-----------|------------|--------------|
| Dangjin Desulfurizati Ulsan Power genera wastewate Desulfurizati | Power Plant | (type) | Regulation | Emissions | Regulation | Emissions |
| Donaile | Power generation | Area B | 60 | 9 | 8 | Less than 1 |
| Dangjin Desulfi Ulsan Power g waste Honam Desulfi | Desulfurization | (Grade 1) | 00 | 45 | 0 | Less trair i |
| | Ulsan | B (Grade 1) | 60 | 10 | 8 | - |
| Power g Dangjin Desulf Ulsan Power g wast Desulf wast Dongha | Power generation wastewater | Special | 60 | 3 | 8 | Less than 1 |
| | Desulfurization wastewater | Area (Grade 1) | 60 | 34 | 0 | Less than i |
| | Donghae | Special Area (Grade 3) | 60 | 1 | 8 | Less than 1 |
| | llsan | Area B (Grade 1) | 60 | 11 | 8 | - |
| | | | | | | |

86

| GRI index | Index Description | | | С |)etails | | | Page | ISO 26000 | Verified |
|---------------------|---|---|---|---|--|--|---|--------|-------------------------------------|----------|
| G4-EN23 | Total weight of waste by type and disposal method | | uses coal ash, gypsu nat are difficult to reu | | | | nal profits. | 50, 79 | 6.5.3 | V |
| | | Cla | ssification | Unit | 2013 | 2014 | 2015 | | | |
| | | Power ge (except for renewable | | GWh | 56,611 | 50,699 | 49,239 | | | |
| | | Total weig | ht | 1,000 tons | 1,839 | 1,906 | 1,824 | | | |
| | | Waste ge basic unit | neration per | ton/GWh | 32 | 37 | 37 | | | |
| | | Recycled | Q'ty | 1,000 tons | 1,857 | 1,851 | 1,635 | | | |
| | | Recycling | Rate | % | 101 | 97 | 90 | | | |
| | | | Classification | Unit | 2013 | 2014 | 2015 | | | |
| | | | Recycled Q'ty | 1,000 tons | 557 | 459 | 480 | | | |
| | | Gypsum | Recycling Rate | - % | 97.6 | 98.3 | 97.0 | | | |
| | | | Usage | Gypsum board, raw material for cement, etc. | | | | | | |
| | | | Recycled Q'ty | 1,000 ton: | | 1,844 | 1,615 | | | |
| | | Coal | Recycling Rate Usage | Concrete adr | 6 101.2 nixtures, cement rav | 98.6 v materials, filling m | 89.6 aterials, etc. | | | |
| Product and service | Disclosures on Management Approach(DMA) | | y-product supply glut as enhanced its recy | | - | on of its power plan | t facilities, | 44, 54 | | |
| G4-EN27 | Extent of impact mitigation of environmental impacts of products and services | an incr landfill • It has d value a KRW 8 | sundertaking a project ease of 300,000 ton costs (KRW2.6 billion developed bio fuel de and deodorization pov 500 million/year) and certificates (10,000 | s in the annual coan) and landfill chargedorization and highwer of heavy oil fly a fuel costs (KRW 30 | I ash recycling volur es and GHG emissi th calorific fuel by tal sh, reducing treatme | ne, it is expected to ons (KRW 1.1 billion king advantage of the ent costs of heavy o | reduce its n). ne heating il fly ash (about | 54 | 6.5.3, 6.5.4, 6.5.5, 6.7.5 | V |
| Com- pliance | Disclosures on Management Approach(DMA) | EWP keeps track of, manages and complies with domestic and international environmental laws 44,45 and regulations and other requirements that are directly related or relevant in any other way in terms of the environmental aspects of its activities, business and services. | | | | | | | | |
| G4-EN29 | Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations | govern • In 2018 | nposes its own envir ment for green enter 5, it had two non-cor 1: KRW 3 million, Dor | prises, to meet all it mpliance cases. | ts environmental res | | ired by the | 45,87 | 4.6 | V |

| | | Specific Standard Disclosures_Sc | ocial Category | | | | | |
|-----------------|--|--|----------------|------|-------------|------|-----------|----------|
| GRI index | Index Description | Deta | ails | | | Page | ISO 26000 | Verified |
| | | Sub-Category: Labor Practice and | d Decent Work | | | | | |
| Employ- ment | Disclosures on Management Approach(DMA) | EWP expands the employment of socially vulnera applications with disabilities and people designate protection in employment. | * | 65 | | | | |
| G4-LA1 | Total number and rates of new employee | Employment of regular workers | | U | nit: people | 87 | 6.4.3 | V |
| hires ar | hires and employee turnover | Classification 2013 2014 2 | | 2015 | | | | |
| | | Female | 48 | 32 | 0 | | | |
| | | The handicapped | 10 | 9 | 0 | | | |
| | | Local talents (non-capital area) | 92 | 62 | 9 | | | |
| | | Local talents (non-capital area) | 5 | 16 | 1 | | | |
| | | High school graduates | 48 | 37 | 5 | | | |
| | | Vocational high school graduates | 44 | 36 | 0 | | | |
| | | Graduates of science and engineering colleges | 145 | 78 | 7 | | | |
| | | Total no. of recruits | 206 | 131 | 16 | | | |
| | | Amount of turnover | 12 | 17 | 18 | | | |
| | | Turnover rate | 0.54 | 0.93 | 0.78 | | | |

| GRI index | Index Description | | | Details | | | Page | ISO 26000 | Verifie |
|---|---|--|--------------------|------------------------|------------------------|--------------------|--------------|--|---------|
| | | Sub-Catego | orv: Labor Practi | ce and Decent Worl | k | | | | |
| G4-LA2 | Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of | Non-financial welfare bene infrastructure through the o government | 6.4.4, | V | | | | | |
| | operation | | 2013 | 2014 | 2015 | (Unit: KRV | V 1 million) | | |
| | | Welfare benefits per perso | on 3.7 | 2 | 2.3 | | | | |
| G4-LA3 | Return to work and retention rates after parental leave, by gender | No. of employees on parel | ntal 2014 2015 | | (Unit: peop | ble, days) | 62 | 6.4.4 | V |
| | | Average length of parental le | 2014 2015 | | | | | | |
| | | No. of employees on long-to- | 2014 2015 | | | | | | |
| Industrial Safety & Health | Disclosures on Management Approach(DMA) | EWP has set 5 detailed so major safety rules, achievi | | | | mposed of five | 58,59 | | |
| G4-LA6 | Type of injury and rates of injury, | Classification | 2013 | 2014 | 2015 | | 59 | 6.4.6, | V |
| | occupational diseases, lost days, and absenteeism, and total number of work- related fatalities, by region and by gender | Fatality rate per 10,000 persons | 1.74% | 2.87% | 0% | | | 6.8.8 | |
| Diversity and Equal Oppor-tunity | Disclosures on Management Approach(DMA) | For fair compensation, EW Furthermore, it respects d | | | | | 58,64,65 | | |
| G4-LA12 | Composition of governance bodies and breakdown of employees per employee category | No. of fema | ale employees | 240(10.5%) | 267(11.5%) | 236(10.7%) | 65,88 | 6.2.3, 6.3.7, 6.3.10, | V |
| | | employees with No. of femal special status Ratio of per | | 18(3.2%) | 22(3.7%) | 28(4.3%) | | 6.4.3 | |
| | | disabilities | | 3.4% | 3.4% | 3.4% | | | |
| | | S | Sub-Category: Hu | man Rights | | | | | |
| Non-discri- mination | Disclosures on Management Approach(DMA) | EWP promotes policies ac | dvocating gender | equality in all aspect | ts. | | 58,64,65 | | |
| G4-HR3 | Total number of incidents of discrimination and corrective actions taken | EWP had no incidents of antionality or social status | | | | cal opinion, | 65 | 6.3.6, 6.3.7, 6.3.10, 6.4.3 | V |
| Human rights grievance mecha- nisms | Disclosures on Management Approach(DMA) | EWP has established an oactions on human rights v | | tion system with its s | stakeholders and ta | kes immediate | 58,63 | | |
| G4-HR12 | Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms | EWP had 39 grievances a over transfer between open | - | ts and settled 20 of t | them in 2015 (inclu | ding grievances | 63,88 | 6.3.6 | V |
| | | | Sub-Category: | Society | | | | | |
| Local Society | Disclosures on Management Approach(DMA) | EWP realizes the value of | sharing through a | active implementation | n of its social contri | bution activities. | 66,67 | | |
| G4-S01 | Ratio of workplaces that are involved with the local community and implement on impact evaluation and development programs | EWP carries out diverse s linked to its core capabiliti and social contributions the | es, social contrib | utions through comn | nunication with loca | | 68 | 6.3.9, 6.5.1, 6.5.2, 6.5.3, 6.8 | V |
| Anti- compe-titive behavior | Disclosures on Management Approach(DMA) | EWP has been active in ir trade order, the prevention economically vulnerable in economy. | n of corporate ma | alfeasance such as b | id rigging, and the | protection of the | 71,74 | | |
| G4-S07 | Total number of legal actions for anti- competitive behavior, anti-trust, and monopoly practices and their outcomes | None | | | | | 74,88 | 6.6.1, 6.6.2, 6.6.5, 6.6.7 | V |

| | | Specific Standard Disclosures_Social Category | | | |
|---------------------|--|---|------|--------------------------------|----------|
| GRI index | Index Description | Details | Page | ISO 26000 | Verified |
| Com- pliance | Disclosures on Management Approach(DMA) | EWP enhances its ethical management and promotes transparent, fair transactions in order to prevent non-compliance with laws and regulations. | 74 | | |
| G4-S08 | Monetary value of significant fines and total number of non-monetary sanctions of non- compliance with laws and regulations | Seven lawsuits with EWP and the country's four other power companies as defendants are underway. | 89 | 4.6 | V |
| | | Sub-Category: Product Responsibility | | | |
| Customer privacy | Disclosures on Management Approach(DMA) | EWP complies with regulations on the protection of personal information in relevant laws including the Personal Information Protection Act. It has set 'Policies on Personal Information Handling' about the following items according to Article 30-1 of the same law and Article 31-1 of the enforcement decree. | 89 | | |
| G4-PR8 | Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data | None | 89 | 6.7.1, 6.7.2, 6.7.7 | V |
| Com- pliance | Disclosures on Management Approach(DMA) | EWP imposes strict ethical standards on its stakeholders to prevent them from becoming involved in any unethical incidents. | 89 | | |
| G4-PR9 | Monetary value of significant fines for non- compliance with laws and regulations concerning the provision and use of products and services | None | 89 | 4.6, 6.7.1, 6.7.2, 6.7.6 | V |

UN Global Compact Advanced Level



| | | | | 3,6 |
|-----|---------------------------------------|---|-----------------------------------|--------------------------------------|
| NO. | Category | Principle | Page | GRI G4 Index |
| 1 | Governance | This integrated report(the Report) describes the discussions at the level of the CEO and the BOD regarding the strategic aspects of the implementation of the UNGC. | 2, 3 | G4-1 |
| 2 | | The Report explains the company's decision-making processes and corporate governance to achieve its sustainability. | 18 | G4-34 |
| 3 | | The Report describes the engagement of all of the company's major stakeholders. | 24 | G4-24~27 |
| 4 | UN Goals and Issues | The Report describes activities designed to support comprehensive goals and issue of the United Nations. | 1, 7, 92 | G4-15,16 |
| 5 | | The Report describes the company's strong commitment, strategies and policies in the area of human rights. | 1, 7, 92 | G4-15,16 |
| 6 | Llurana Dielata | The Report describes and effective management system designed to integrate its human rights principles. | - | |
| 7 | Human Rights | The Report describes effective monitoring and evaluation mechanisms about human rights principles. | 63, 91 | G4-HR12 |
| 8 | | The Report applies standardized performance indices(including GRI) about human right. | 91 | G4-11 |
| 9 | | The Report describes the company's strong commitment, strategies and policies in the area of labor. | 62 | |
| 10 | | The Report describes an effective management system designed to integrate its labor principles. | 63 | |
| 11 | Labor | The Report describes effective monitoring and evaluation mechanisms about labor principles. | 63 | |
| 12 | | The Report applies standardized performance indices(including GRI)about labor. | 59, 62, 65, 92 | G4-10, G4-LA1, 3, 6, 12 |
| 13 | | The Report describes the company's strong commitment, strategies and policies in the area of environmental management. | 44, 45 | |
| 14 | Environment | The Report describe an effective management system designed to integrate its environmental principles. | 45 | |
| 15 | Environment | The Report describes effective monitoring and evaluation mechanisms about environmental management. | 45, 47 | |
| 16 | _ | The Report applies standardized performance indices about environmental management. | 45-50, 54, 79 | G4-EN3, 15 16, 17, 19, 21, 22, 23 |
| 17 | | The Report describes the company's strong commitment, strategies and policies in the area of anti-corruption efforts. | 20 | |
| 18 | Anti Comuntion | The Report describes an effective management system designed to integrate its anti-corruption principles. | 21 | |
| 19 | - Anti-Corruption | The Report describes effective monitoring and evaluation mechanisms in the area of anti-corruption efforts. | 21 | |
| 20 | | The Report applies standardized performance indices about anti-corruption efforts. | 22 | |
| 21 | Strategies, Governance and Engagement | The Reports explains about the implementation of Global Compact Principles within the company's value chain. | 6, 12 | G4-12 |
| 22 | External Assurance and | The Report offers information on the corporate profile and operational environments. | 1, 6, 7, 9, 10, 12, 23, 65, 92 | G4-3~16 |
| 23 | Transparency | The Report includes a high level of transparency and disclosure. | 1 | G4-28~33 |

Independent Assurance Statement

The Business Institute for Sustainable Development (BISD), led by the Korea Chamber of Commerce & Industry, was requested by Korea East-West Power Co., LTD (EWP) to serve as an independent 'third-party assurance institute' for the '2016 EWP Sustainable Management Report' (hereinafter 'Report'), and submits the assurance statement as follows.

Purpose

The purpose of this assurance report is to identify any major errors or biases in the Report, to conduct independent assurance procedures to determine whether the sustainable management issues of EWP were appropriately reported, and to present an assurance opinion.

Responsibilities and Independence

The Report contains matters on EWP's sustainable management efforts, achievements and future plans. All responsibility regarding the drafting of the Report lies with EWP.

In conducting assurance procedures on the Report and providing assurance opinions to the board of directors, BISD has no management-related interests in profits with EWP, aside from carrying out third-party assurance, in order to maintain independence and autonomy.

Assurance Standards and Restrictions

BISD performed the assurance evaluation in consideration of the three accountability principles (inclusivity, materiality and responsiveness) of AA1000AS (2008) and the principles for defining report content and report quality of the Global Reporting Initiative G4 guidelines.

The scope of the assurance evaluation was limited to only those performances stated in the Report and excludes data from previous years and data reported online. Furthermore, greenhouse gas data that has already been verified from another third-party organization was not subjected to the assurance evaluation.

Major Assurance Procedures

For the assurance process, EWP's employees were engaged in interviews. Results from the interviews and other relevant documents provided by EWP were examined. Major assurance procedures undertaken are as follows:

Review of application of company's internal sustainability report standards

Review of the Report contents and the information collection process

Review of the materiality test process, core issues and company policies

Opinions

BISD performed the assurance evaluation in accordance with the procedures identified above, and the Report was modified by EWP if and when deemed necessary. Based on the assurance evaluation, BISD is not aware of any significant errors in the Report and confirmed that the Report was written in accordance with GRI G4 guidelines (core option). The opinions of BISD produced as a result of its assurance evaluation and in consideration of the AA1000APS accountability standards are explained below.

91

Inclusivity: Does EWP adhere to the principle of stakeholder engagement in order to ensure a responsible and strategic response in advancing sustainability management?

- EWP gathered major concerns and opinions from core stakeholders, including its government and relevant institutions, power companies, the media, NGOs, local communities, employees, partners, shareholders, and the public through stakeholder communication channels.
- BISD is not aware of any significant stakeholder groups that were omitted from the process of gathering sustainability management issues through EWP's stakeholder communication channels.

Materiality: Does EWP include material issues that affect stakeholders in the entire spectrum of sustainability management in the Report?

- EWP identified major issues through the materiality test and compiled opinions through a survey from each stakeholder group in the process of the materiality test process.
- BISD is not aware of any significant issues that were omitted from the process.

Responsiveness: Does EWP respond appropriately to stakeholder issues?

- EWP has acknowledged the impact of its business decisions on stakeholders and responded properly with coherent actions. The Report presents related performances during the reporting period.
- BISD is not aware of any violations of the principle of responsiveness in EWP's response to major sustainability management issues or performances that are described in the Report from the perspective of materiality.

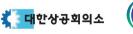
Recommendations

90

BISD makes the following recommendations within a scope that does not affect the assurance results

- Based on EWP's 10th Sustainability Report, the efforts that EWP has put into sustainability of the environmental and society is recognized. Some of the remarkable environmental achievements are the development of new low-carbon technology and the use of renewable energy. In addition, localization of technologies and consideration of local community's environmental effects are equally remarkable. Going forth, BISD recommends and expects EWP achieve sustainable management activities within EWP's sphere of influence and capabilities.
- EWP reports several different sustainable management activities. However, some of the listed activities and their project outcomes were reported repeatedly. For future reports BISD recommends EWP select different activities and create a table of contents according to EWP's activity characteristics. This will allow clear reporting of activities and their distinctive outcomes.
- The efforts of EWP for sustainable management activities and report such as dividing each aspect's boundary into interior and exterior in the process of materiality test and matching EWP's main sustainable management activities to UN SDGs published last year is remarkable. BISD recommends EWP continuously bring positive impact to the society as consider thoroughly about the global trends and stakeholders' interested issues and intensify sustainable management activities.

July 2016, President Chun, Subong





Association Memberships, Corporate Governance



| Membership Organization | Purpose | Time of Subscription |
|---|---|----------------------|
| The Korean Association of Small Business Studies | To ensure rapid policy response and exchange of academic information with active participation in the government's establishment of shared growth policies | 2011.07 |
| The Korea Electric Association | To establish and modify technical standards for the electrical industry designed to boost the credibility of power generation facilities and develop new codes | 2002.09 |
| The Korea Energy Foundation | To promote energy welfare programs like the support for low-income households together with scholarship programs | 2002.05 |
| World Energy Congress | To establish human and technical exchange networks with the member countries of an energy-related international body | 2007.01 |
| Korea Institute of Enterprise Architecture | To collect information on ways of upgrading the EA level | 2013.03 |
| Korea International Trade Association | To cooperate on the data and information related to international trade. | 2001.05 |
| KEPIC | To participate in KEPIC development directions and secure funds | 2002.05 |
| Korean Standards Association | To introduce advanced quality control techniques and spread quality management mind throughout the company | 2003.01 |
| Korea Suggestion System Association | To acquire information for the promotion of suggestions and small group activities in the company. | 2007.05 |
| The Electric Utility Cost Group (EUCG) | To collect information on overseas electric power supply and benchmarking | 2006.01 |
| The Business Institute for Sustainable Development | To exchange information on sustainability management | 2008.11 |
| The Korea Carbon Capture and Storage Association | To exchange information on carbon capture and storage | 2010.09 |
| Korea Smart Grid Association | To exchange information on smart grid and collect information on industrial trends | 2012.07 |
| United Nations Global Compact (UNGC) | To exchange information on sustainability management and engage in exchange at home and abroad | 2006.06 |
| Korean Green Business Association | To support the Big and SME GHG Mentoring Project | 2012.03 |
| The Korean Society of Mechanical Engineers | To identify domestic trends in mechanical engineering and exchange information | 2002.08 |
| The Korean Institute of Electrical Engineers | To identify domestic trends in electrical engineering and exchange information | 2002.06 |
| Korean Association of Power Generation Studies | To enhance the power industry and discover joint research topics | 2010.07 |
| Korea Project Management Association | To enhance the capabilities for project execution. | 2008.03 |
| KOREA Engineering & Consulting Association | To promote advance into new business at home and abroad in the areas of design and technical support through certification of corporate engineering performance | 2012.07 |
| Korea New & Renewable Energy Association | To exchange information in the area of new & renewable energy. | 2003.01 |
| EEI(Edison Electric Institute) | To obtain information to expand into overseas markets or increase its overseas presence | 2004.03 |
| Association of the Electricity Supply Industry of East Asia and Western Pacific (AESIEAP) | To obtain information to expand into overseas markets or increase its overseas presence | 2011.02 |
| Korea Electric Engineers Association | To promote R&D in electric engineering and boost training of electric engineers | 2008.03 |
| Maritime Resource & Salvage Association | To enhance cooperation between public and private sectors in order to prevent and respond to maritime disasters and accidents | 2013.05 |

Controlling Structure of the Related Companies

| Classification | Gyeongju Wind Power | Share |
|----------------|-----------------------------|-------|
| | Gyeongju Wind Power | 70% |
| | Green Biomass Energy | 34% |
| | Korea Offshore Wind Power | 12.5% |
| | GS Donghae Power | 34% |
| | Busan Sinho Solar Power | 25% |
| | Honam Wind Power | 29% |
| Domestic | Dangjin Eco Power | 33.1% |
| Domestic | Seokmun Energy | 34% |
| | Chuncheon Energy | 29.9% |
| | Yeonggwang Baeksu Wind Farm | 15% |
| | Hope-Light Power Generation | 8.33% |
| | Korea Power Exchange | 7.14% |
| | KEPCO-Uhde Inc. | 3% |
| | | |

| | Gyeongju Wind Power | Share |
|----------|--------------------------------|-------|
| | EWP Philippines Corporation | 100% |
| | EWP America. INC. | 100% |
| | EWP Renewable Corporation | 100% |
| | DG Fairhaven Power. LLC | 100% |
| | DG Kings Plaza. LLC | 100% |
| | DG Whitefield. LLC | 100% |
| Ouerees | Springfield Power. LLC | 100% |
| Overseas | California Power Holdings. LLC | 100% |
| | EWP RC Biomass Holdings. LLC | 100% |
| | EWP(Barbados)1 SRL | 99.9% |
| | PT. EWP Indonesia | 99.9% |
| | Jamaica Public Service Co.Ltd | 40% |
| | PT. Tanjung Power Indonesia | 35% |
| | Cockcatoo Coal Limited | 0.66% |
| | | |

EWP Sustainability Report 2016

Happy World with Hearty Energy We Make Energy for Happiness

EWP genertates high efficient energy through its technique and management innovation. We enrich lives of our people by supplying top quality of low priced energy with a stability.

EWP reflects attentively to the stakeholder opinion and makes a bright future by creating sustainable values for all business and society.

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