



Korea South-East Power Co. 32, Sadeul-ro 123beon-gil, Jinju-si, Gyeongsangnam-do, Republic of Korea (Chungmugong-dong) Tel 070-8898-1000 Fax 050-5027-1001 Homepage www.koenergy.kr



We are making the heart-beating lights of dream

Power to move the world, light to brighten the future KOEN

There is power to move the world with uncommon passion. There is light to brighten the future with ceaseless innovation.

Strengthening Global Competitiveness with World-class Technologies and Facilities - KOEN

KOEN has been striving to be a healthy and constantly growing company with changing and innovative minds and creates the future values for the better world.

contents

- Message from the CEO 04
 - Highlights 06
 - Organization 08
- KOEN WAY Value Creation 10
 - KOEN WAY Openness 12
- KOEN WAY A competitive spirit 14
- KOEN WAY Social Contribution 16
 - Management Policy 18
 - Vision **20**
 - Core Value 21
 - Business Sites 34

Welcome!

KOEN is a power generation company newly started on April 2, 2001, according to the government policy for restructuring the power generation industry.

The company operates five power generation facilities with a total capacity of 10,324 MW, including the Yeongheung Thermal Power Site Division, which has Korea's largest single unit thermal power facility, and the Samcheonpo and Bundang Thermal Power Site Divisions and the Yeongdong and Yeosu Thermal Power Plants, supplying 10% or more of the total national power stably.

As a driving force for the ever-increasing industries of the country and as a solid support for a happy living environment for the people, the company has steadily grown and has made its best efforts to become a role model that can be loved by the people by firmly fulfilling public responsibilities as a public energy company.

As a result of focusing on developing technologies to secure continuous growth by finding new growth engines for the future, KOEN becomes one of the best domestic power generation companies that stands comparison with global ones both in the Korean market and the overseas market, and has renewed itself as a global energy provider.

KOEN aims to become the vanguard in promoting shared growth with small and medium sized companies. Maintaining amicable, cooperative relationships with affiliated industries, it will develop a robust power generation industry ecosystem and contribute to sound national development. KOEN is ready to serve the country as a leading public company in the energy field while improving the welfare of the people of Korea.

About 2,200 employees of KOEN are committed to move forward to making KOEN a Clean & Smart Energy Leader. With the support of the people of Korea, KOEN will innovate continuously to devote itself to help the country become energy rich.

Thank you.

Lyu Hyang Reol, CEO of KOEN

柳向烈

We create energy for national development and welfare



Our energetic steps toward the future will continue

2004

- 03.02 Completion of the lifetime extended work for the Yeosu Thermal Power Plant
- 04.02 Inauguration of Hee-gab Park as the second president
- 09.15 Foundation of the Nanuum Voluntary Service Group
- 12.23 Completion of the construction of Generator #1 and Generator #22 of the Yeongheung Thermal Power Plant

2003

- 04. 10 Acquired Moody's A3 credit rating
- 05.15 Completion of the construction of the Muju pumped storage small hydropower plant
- 06. 18 Issuance of USD 150 million worth of Eurobonds

2002

- 01.09 Launching of a meeting for young executives
- 10.22 Commencement of the construction of Samcheonpo Thermal Power Plant's desulfurization facility
- 12.23 Certification on the safety and health management system (KOSHA 18001) of all business sites

2001

- 04.02 Establishment of KOSEP and inauguration of Haeng-soon Yoon as the first president
- 05. 24 Proclamation of the company's philosophy and vision
- 12. 12 Proclamation of the ethical charter and the code of conduct

2007

01. 25 Completion of the construction of the Bundang Hydrogen Fuel Cell Power Plant

- 04. 03 Inauguration of Young-wook Kwak as the third president
- 10. 11 Won the presidential award in the Public Institution Innovation Competition 11.23 Won the presidential award in the
- National Quality Management Awards

2006

- 02. 27 Signing of the UN Global Compact 11.02 Completion of the construction of a photovoltaic 1,000 kWp facility at Yeongheung 11.24 Completion of the construction of an
- oceanic small hydropower facility at Samcheonpo 12. 22 Consolidated certification for ISO
- 9001/14001 across the company

2005

•

- 04. 22 Commencement of the construction of the Yecheon Pumped Storage Power Plant
- 05. 25 Acquired Moody's A2 credit rating 10. 13 Completion of the construction of
- Samcheonpo Thermal Power Plant's desulfurization and denitrification facilities
- 11. 19 Completion of the construction of Samcheonpo Thermal Power Plant's photovoltaic power plant

2010

- 05.24 Commencement of the construction of the Samcheonpo Photovoltaic Power Plant
- 06.15 Ranked 1st place in the power company management evaluation
- 09.01 Issuance of the second sustainability report
- 11.23 Won the Gold Tower Order of Industrial Service Merit in the National Quality Management Competition and the presidential award in the Facility Management Awards

2009

- 01. 19 Proclamation of the vision of becoming a Global Power Leader 05.20 Commencement of the construction for
- improving Yeosu Thermal Power Plant's Generator #2 09.22 Won the grand prize in the Korea VE
- Awards 10.07 Won the grand prize in the Korea Green Energy Awards

2008

- 01. 23 Won the grand prize in the Transparent Management Awards 08. 26 Issuance of the first sustainability report
- 10. 28 Inauguration of Do-soo Jang as the
 - irth president 0 Won the presidential award in the National Task Team Competition Management Contest.

2013

- 03.06 Completion of the construction of the first-stage project of the photovoltaic power facility for expressways
- 05.09 Completion of the construction of the second-stage project of the complex fuel cell (3.08 mW) facility in Bundang
- 06.19 Achieved Grade A both for the institution and its head in the performance evaluation of public institutions for two years in a row
- 09.23 Inauguration of Yup Heo as the fifth president
- 11.28 Won the presidential citation in the National Quality Awards
- 12.13 Holding of the 2023 vision proclamation ceremony

2012

01.01 Completion of the construction of a 42 mW photovoltaic power plant in Bulgaria

- 06.13 Achieved Grade A in the performance evaluation of public institutions
- 07.19 Completion of the construction of the third photovoltaic power facility at Samcheonpo
- 09.26 Completion of the construction of the <u>'NOVUS I</u>" wind power plant in the
- 01.01 Restructuring of the power industry (transfer of the Muju and Yecheon Pumped Storage Power Plants to Korea Hydro and Nuclear Power) 01.25 Establishment of Korea South-East
- Power Technology Power Technology 06.27 Completion of the construction of a a presidential photovoltaic power plant at Tangjeong with merits 07.20 Completion of the construction of a wind power commercialization
 - a wind power commercialization proplex with domestic systems at

and the set of the set of the set of the

06 07

2015

- institutions

- Gyeongnam
- 2014

2025

Jumping up to a Clean & Smart Energy Leader

02.26 Won the grand prize in the Korea Social Contribution Companies Awards 03.05 Won the top prize in the shared growth management performance evaluation by the government for three years in a row 04.02 Selected as a Korea Global Leader 04.21 Selected as an excellent institution in the government 3.0 evaluation of public

06.02 Signing of the joint cooperation agreement for nurturing and supporting the power generation industry for activating the local economy in

11.16 Won the President's Prize of the Korea Safety Award

2018

- 02.13 Inauguration of Hyang-reol Lyu as the seventh president
- 04.23 Selected as The best and innovative governmental organization

2017

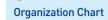
- 02.15 Won Korea Ethical Management Grandprix
- 03.07 Won the top prize in shared growth management performance evaluation by the government for five years in a row
- 06.30 Commercial operation of all biomass fueled Yeongdong Unit 1
- 09.25 Minister's Award for New & Renewable Energy in Korea
- 12.15 Received Grand Prize in Korea Education & Donation Awards
- at the innovative city in Gyeongnam 05.21 Won the grand prize in the Korea Bi Data Awards
 - Generator #5 of the Yeongheung
- 11.05 Completion of the construction of Generator #6 of the Yeongheung
- first time as a public institution / received a presidential prize as an organization

- 05.11 Good public institution by Government 3.0 Review
 08.31 Completion of Yeosu Unit 1
 09.29 Initiated Tamra Offshore Wind Power
- 11.01 The first public institution that won performance sharing 11.17 Inauguration of Je-won Jang as the sixth

Organization & M

Will become a global energy company that can create a future





Planning & Managemer Support Division Social Value & Innovation Office National Project & Innovation Team Job Creation Team Corporate Planning Department

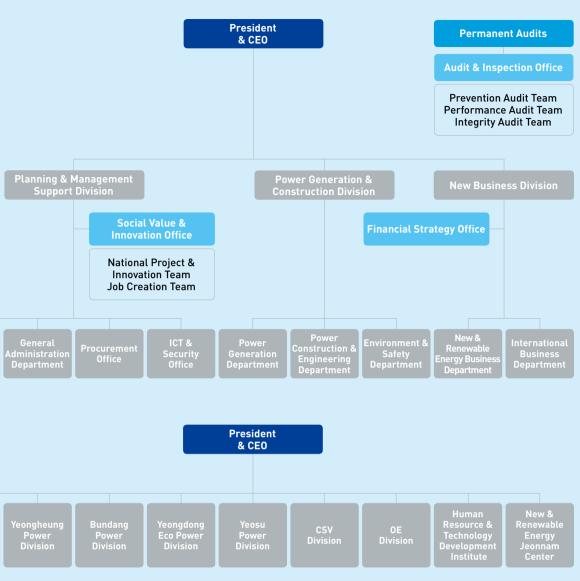
Power

Management

Lyu Hyang Reol, CEO



Bachelor's degree in public administration from University of Seoul MBA from Helsinki School of Economics Master's degree in business administration from Yonsei University President of KEPCO Ilijan Corporation, Philippines KEPCO Executive Vice President of Overseas Operations





center

- Leading large-scale government-supported national tasks according to the mid- and long-term road map
- Accelerating advancement of ten major technologies to achieve the vision and reinforcing R&D execution capability

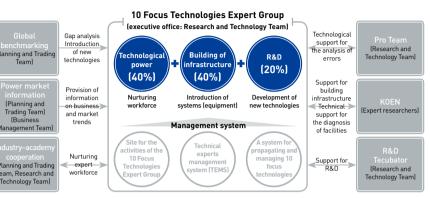
Handling works by taking into consideration the growth of profits and the reduction of costs

Value Creation

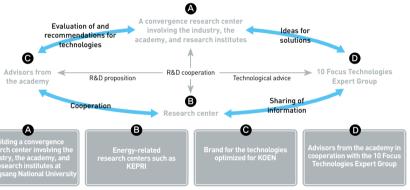
We adhere to a long-term and future-oriented attitude to increase corporate value in order to bring more value to customers and interested people.



Taking the growth of value for customers as the top priority in management activities Building a road map and an action plan for the 10 core technologies including power generation technology, new and renewable energy technology, and new business Enhancing the reliability of power generation facilities by advancing the facility management system Building the KOEN R&D Tecubator and an industry-academy convergence research



(An operating system for the 10 Focus Technologies Expert Group)



(KOEN R&D Tecubator Promotion Schematic Diagram)

KOEN open-type cooperation system between the industry and the academy

- Building a differentiated KOEN costs system (system analysis of pre-estimated cost \rightarrow actual $cost \rightarrow activity cost \rightarrow material cost flow)$
- ranked 1st for six consecutive years (2009–2014) in terms of the procurement unit price of flaming coal through the estimation of the market situation and the scenario-based procurement strategy building an integrated performance management system (u-BSC)
- realizing value management for maximizing corporate value through the KOEN-type independent business unit system (ND Com in Com)

Securing sustainable growth engines to create value for the future

- Building the world's best high-efficiency and eco-friendly power plants
- securing world-class operating technologies
- investing continuously in new and renewable energy
- playing the role of a national company that can attract affection from the people through an ethical and transparent management

Open Mind

With an open mind, we make efforts to realize a transparent company and a fair society by listening to customers and communicating with them continuously



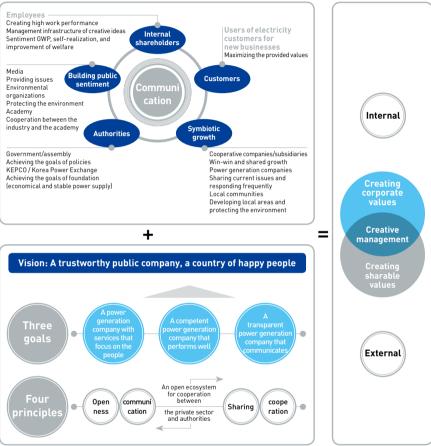
Media Providing issue Environmental organizations Protecting the environmer Academy Cooperation between the

communication in the workplace

labor an



Creating socially sharable values by realizing government 3.0 of "Opensharing.Communication.Cooperation"



Recognizing mutual difference and taking an open attitude for diverse cultures

- Recruiting new employees through an NCS-based recruitment scheme for practicing "recruitment centered on abilities"
- strengthening the scheme of recruiting based on social equity, such as employing high school graduates, those who come from non-metropolitan areas, those who have disabilities, and those who are recognized for records related to war veterans.
- The "In Someone Else's Shoes" campaign to break barriers among jobs and departments

Settling a cooperative relationship between labor and management through trust and

- Selected as an excellent company in terms of the labor-management culture and innovation
- fulfilling social responsibilities through the Union Corporate Committee (UCC)
- selected as one of the "100 Great Places to Work" in an event hosted by GWP Korea



Challenge & Innovation

Challenging new things with ownership and passion fearlessly,

- and leading change and innovation through
- flexible and creative thinking

Ownership by all the employees of KOEN

- Holding events (Go Together) for a sense of unity with
- the vision of including all employees
- executing autonomous and accountable management through a KOEN-type
- independent business unit system (ND Com in Com)
- realizing a value-based management for maximizing the corporate value through a
- self-financing system for the 12 invested companies
- The My-Machine scheme for all employees for taking care of facilities
- as if they are their own bodies

Setting challenging goals and plans

- 2015: Receive an "excellent" grade in the management evaluation by the government 2025: Clean & Smart Energy Leader
- Enhancing the competitiveness of core businesses
- Securing growth engines for the future and expanding the capacity for global business
 Building a GWP company culture

Settling a culture of change, innovation, and creative management

- Deploying Mind, Value, Process (MVP) innovative activities for creation and innovation 3.0 nurturing competent workforce, capable of leading change and innovation,
- through an innovation academy
- settling a creative culture (a creative workplace) of creating, communicating, cooperating, and sharing
- built a global quality management system and received the grand prize
- (presidential citation) in the National Quality Awards



consecutive years errors

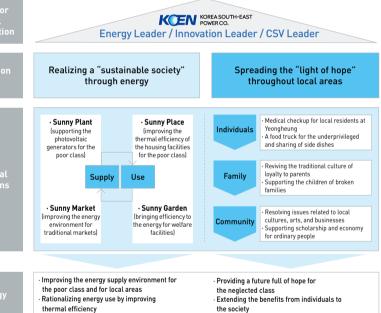
green company



Social contribution activities for creating a sharing society

"KOEN The Sunny Project" for the improvement of the energy welfare for the poor class the "Hopes Up" program for win-win growth together with local communities "planting trees of hope" and supporting medical costs for children with cancer operating an export agency (G-Tops) that specializes in the products of middle-sized companies for the first time as a power generation company supporting the workforce for small- and medium-sized companies by utilizing

workforce retired from the navy and air force



Complying with laws and ethics toward becoming a clean company

- Achieving the highest grade (AAA) in KoBEX SM's Excellent Company ratings for seven
- advancing the Kemco Ethical Management Index (KEMDEX) and strengthening the promotion organization
- reducing corruption down to zero by operating a system for eradicating the cause of

Making efforts to produce clean energy

- Minimizing environmental load by operating high-tech environmental facilities optimally certified for the environmental management system (ISO 14001) and designated as a
- measuring exhaust gas in real time and sending the data to local governments and the Korea Environment Corporation, providing transparent environment information publicly

Life Switch

A switch of change for the future life

With empathic trust, forward-thinking coupled with added value, and our pride, KOEN will become an energy company that brings a more promising and happier future.

Real; ationship **Building genuine**

relationships

Add;vanced

More than simply

Deep;erence

Delivering one and only

advancing

value

- Obtains intellectual property rights and tacit knowledge
- Seeks new opportunities by cooperating with partners

- Retires from the competition among the five major
- power generation companies
- Understands the global energy environment and policy

Investigates and removes the cause of the barriers

- Seeks quality growth by sharing value
- Communicates actively to achieve common goals
- Builds trust with transparent and fair work procedures
- Solidifies cooperative relationships based on respect and thoughtfulness
- Focuses on preemptive measures, not reactive response

A company that brings a big change through small changes of actions

Turns resolutions into action

- Focuses on the possibility of success rather than fear for failure
- Establishes and executes "S.M.A.R.T" goals for change
- Sets a common goal to be achieved in the short period of time

A company with deep roots that proposes new energy frames

- Applies a global market focused-competitive framework and proposes global standards
- Makes creative destruction into a habit, beyond organic growth
- Avoids solving new issues with the existing method
- Finds hidden opportunities out of uncertainty

• To increase the ratio of eco-friendly equipment

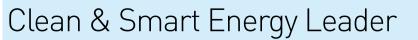
• To ensure the world's best ecofriendly technology and skills

Business area

 To achieve and maintain the world's highest level of profitability

• To establish and maintain the world's best sustainable management practice

Function area



Vision

Vision	Statement	How
VISIOII	Jiatement	TIOW
Clean	Innovation of business structure to focus on eco-friendly energy	 Innovating the business structure by expanding the ratio of eco-friendly energy equipment and facilities Strengthening leadership to overcome the scarcity of resources and climate change
Smart	Obtaining competitiveness edge in eco-friendly technology	 Advancing thermal power plant operation skills and technology to reduce GHG emissions Developing new and renewable energy technology using photovoltaic and wind power Expanding technology-centered business and areas (new and renewable energy or power generation related businesses, development of overseas business)
Energy Leader	Creation of future-oriented public interest value	 Supplying quality energy to customers with qualitative growth Reinforcing its public interest role in contributing national development and welfare Building knowledge-based management system

Strategies for Vision Achievement

	Mission	Contribute to the development of the country and the welfare of the people by supplying energy economically and stably and leading sustainable growth for the future					
Value framework	Vision	Vision 2025 Clean & Smart Energy Leader (An eco-friendly energy leader that creates future with technology) Global Top Class 「Ensuring new energy business」, 「Securing technology and skills」, 「Assuring profitability」					
		Core value Management Principles					
	Shared value	Real;ationship Add;vanced Deep;erence Value and creation growth communication and trust					
	Business strategy	Future growth Internal stability growth Obtaining competitiveness edge in new business sectors improving internal stability of power generation business					
Execution	Strategic goals	To increase the ratio of new and renewable energy facility to 35% To ensure technologies for fossil fuel alternatives 1)(new and renewable energy)					
	Task (HW)	Facility Improvement Increasing new and renewable energy power generation facility and optimizing portfolios (photovoltaic energy and more) Facility improvement Optimizing portfolios of thermal power generation resources (combined thermal power plant and more) Verticat expansion Duersifying power generation related businesses (D/E, O&M, fuel trading and more) Optimizing facility operation efficiency facility maggement, asset management and more) Horizontat expansion Developing profit-oriented new business sales and more) Improving the level of eco-friendly quality of power generation facility (DCS, mixed					
	사업과제 (SW)	Technology Ensuring core technologies for future energy [new and renewable energy, ESS and more] Technology Ensuring core technologies for thermal power generation [thermat power operation/construction/facility and more] Competence Reinforcing the competence to execute promising business models (both home and overseas) Competence Reinforcing the competence to construct and operate thermal power businesses					
	Base Task	Increasing public interest Social contribution Social contribution Social contribution Pioneering win-win relationships social value Pioneering win-win relationships in the power generation industry Settling a cooperative company culture					
		Infrastructural Building advanced management Advancing the competence of employees Safety and security Maintaining the optimized safety and security system					

Yeosu Generator #1

Purchasing at 5% lower prices compared with the global market situation, thanks to the advancement of the procurement system

20 21

Expanding the profit basis

Construction and operation of economical power plants

Contributing to the stable power supply of the Yeosu National Industrial Complex #1 (350 mW): Completed by August 31, 2016

Reinforcing old facilities

Improving the facilities of Yeongdong Generator #1 and Generator #2 Improving the facilities of Bundang Block 1

Procuring economical fuel

Advancement of the quality of contracts

Realizing high-quality contract work by strengthening the competence of responsible workers - Enhancing kindness, promptness, cleanliness,

- and transparency by operating a contract work response guideline for contract works
- Reducing the purchase budget by 15% by promoting contracts strategically

Construction and operation of economical power plants



Execution of new and renewable energy Vision 2025 - Becoming a leading green energy company by generating 35% of power with new and renewable energy by 2025

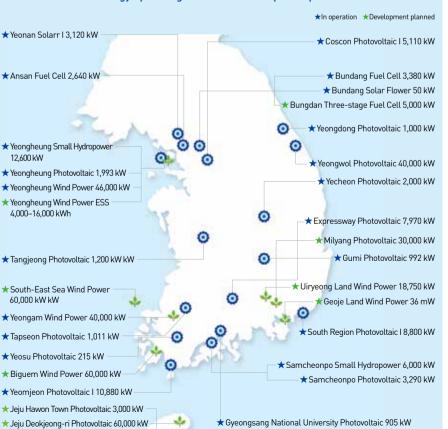
- Proactive development and commercialization of new and renewable energy
- Developing a 4,740 kW-grade ocean small hydropower system by using the coolant of a power plant for the first time in the world
- * Received the presidential prize in a management innovation competition fair managed by the Ministry of Strategy and Finance in 2007
- Operating the Bundang Fuel Cell Power Plant, which is the first grid-connected plant in Korea
- Operating the Samcheonpo Photovoltaic Plant, which is the first grid-connected plant run by a power generation company
- * Received the grand prize in the awards for the installation of new and renewable energy hosted by the Korea Energy Agency in 2008 (Yeongheung photovoltaic power plant)
- * Received the grand prize in the Korea Green Energy Awards (Ministry of Knowledge Economy) in 2009

★ Tamla Sea Wind Power 30.000 kW

Preparing Korea's first and largest domestic wind power system commercialization complex (government)

- Preparing a 46 mW-grade wind power complex with domestic systems
- Enhancing the competitiveness of wind power plants with domestic systems and building a basis for entry into the global market

New & Renewable Energy operating states and development plan









#2 completed





• Goals

To replace 35% of the current resources to generate power with new and renewable energy by 2025



22 + 23

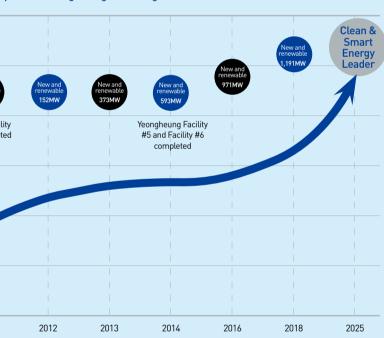
Nurturing core workforce

Assigning core workforce to businesses for securing new growth engines, such as new and renewable energy business and new businesses, and nurturing them



Building a portfolio for new and renewable energy business

Progressing business restructuring to build a new business portfolio that consists of new and renewable energy business, Independent Power Producer (IPP), and resource development business while reducing the ratio of power generation business down to 50%



A road map for securing new growth engines



New business development status

• Overseas power generation, and operation and maintenance (0 & M) • Overseas technology services • Resource development • IPP



Overseas business development status

Progressing systematic commercialization, including the construction of overseas power plants, operation business, and overseas performance recovery business, based on the technologies for constructing and operating large-scale generators such as the 800 MW supercritical coal-fired facility owned by KOEN

Overseas technology services business

Progressing the service business of pilot operation in Turkey, Bahrain, and India based on the experience of building 24 power plants, including domestic large-scale power generation facilities (800 MW), and facility operation technology and experience in various areas (coal, pumped storage, heavy oil, combined, and fluidized bed)

- Main services of pilot operation: Performing OJT at sites and supporting the diagnosis of facilities at sites / suggesting for the improvement of facilities / participating in public hearings for pilot operation and reviewing the pilot operation schedule / practicing trainings for local employees
- Effects: Creating new profits by exporting technology
- building a foothold for overseas business by executing the service business in the
- pilot operation of power generation facilities
- enhancing the company's brand name



Maharashtra

0 & M businesses

• Service business of pilot-operating the Bahrain Al Dur Desalination Combined Thermal Power Facility (completed)

- Capacity: 1,245 MW - Location: 40 km to the south of Manama - Client: Hyundai Heavy Industries - Period: November 2009 to October 2011 - Workforce assigned: 6

Service business of pilot-operating the India Mundra Coal-Fired Thermal Power Facility (completed)

- Capacity: 4,000 MW - Location: Mundra - Client: India CGPL (Tata Power) - Period: April 2010 - May 2012 - Workforce assigned: 6

Service business of pilot-operating the Turkey Tutan Valley Coal-Fired Thermal Power (fluidized bed) Facility (in operation) - Capacity: 450 MW (150 MW × 3 units), CFBC - Location: 350 km to the southeast of Ankara - Client: SK E&C - Period: November 2014 – May 2016 (19 months) - Workforce assigned: 9

Overseas power generation business (equity participation, EPC, 0 & M)

KOEN has created new growth engines and has helped domestic companies (creation of materials and equipment, and construction service) launch together in overseas markets through the accumulated technologies of constructing and operating power plants. It has been developing a coal-fired thermal power business with Maharashtra of India, and hydroelectric power businesses with Nepal and Pakistan. It operates wind power and photovoltaic power facilities in the United States and Bulgaria, respectively. In addition, it has diversified the profit structure by expanding the business scope in countries with high potential for growth.

- Effects: Advancing toward becoming a global power company through the diversification of overseas businesses and regions

developing future profit sources by promoting high value-added IPP and



O USA Novus I and II (in operation)

Located in Oklahoma in the midwest of the United States, the Novus wind power complex generates a total of 120 MW, following the completion of Novus I in September 2012 and Novus II in December 2012. The Novus wind power complex means a lot because it was constructed in United States, one of the most developed countries in terms of new and renewable energy, through cooperation between the domestic company and finance. It can be said to be one of the exemplar cases because the project secured business feasibility by acquiring cash investment from the US Department of the Treasury for the amount of 28% of the total project cost by utilizing the Cash Grant scheme, which is for the US government to support new and renewable energy, and because, in the project, small- and mediumsized domestic companies that produce parts for wind power generators were supported in launching together overseas, contributing, as an exemplar case, to the government policy of nurturing the industry of exporting domestic wind power generators.

Project name	Novus	Novus II
Facility capacity	80 MW (2 MW × 40 units)	40 MW (2 MW × 20 units)
Location	Texas County, Oklahoma (mid-	-south of the United States)
Total project cost	KRW 174.5 billion	KRW 84.2 billion
Commercial operation	Sep. 2012	Dec. 2012
Participants	KOEN / DeWind	KOEN / DeWind / SPECO
Equity ratio	50% / 50%	49% / 48% / 3%



• Bulgaria Solar Photovoltaic Power Generation (in operation)

It was Korea's first new and renewable project for East Europe and is the world's 15th-ranked project in terms of scale. The project was designed to construct and operate, for 20 years, a photovoltaic power generation complex of 42 MW based on the Build-Own-Operate (BOO) method. In this project, two photovoltaic power generation plants of 21 MW are constructed in Valleycozelitarizza and Samovozen, respectively, 200 km to the east of Sofia, the capital. After being completed on March 8, 2010, the power plants are now in full-scale operation. The project was progressed by utilizing our company's knowledge and experience in the operation of power plants as well as the technologies of small- and medium-sized companies in the photovoltaic sector. For progressing this project, the Korea Development Bank and the Korea Trade Insurance provided policy-based finance. The project is an exemplar case in which a public company and small- and medium-sized companies advanced and launched together in overseas markets for new and renewable markets.

SPC	ASM	RES
Location	Veliko Tarnov	o, Bulgaria
Project capacity	20.14MW	21.48MW
Total project cost	KRW 109.9 billion	KRW 110.7 billion
Period	Dec. 2011 to Dec. 2031 (20 yrs)	Mar. 2012 to Mar. 2032 (20 yrs)
Participants	KOEN (50%),	SDN (50%)









It is a project based on the Build-Own-Operate-Transfer (BOOT) method, and designed to construct and operate a hydroelectric power plant of 100 mW in Poonch River's water system about 167 km to the southeast of Islamabad, the capital of Pakistan.

- Contents of the project: Construction, operation, and O & M - Facility capacity: 100 MW (33 MW × 3 units) - Contractors: Daelim, Sambu, and Lotte - Total project amount: KRW 353.7 billion

India Maharashtra Coal-fired Power Plant (under development)

It is a project based on the BOO method and designed to construct and operate a coalfired thermal power plant of 600 MW in Yavatmal of Maharashtra in the middle of India. The company owns 40% equity and is responsible for operating and maintaining (Q & M) the power plant.

- Contents of the project: Equity investment, 0 & M - Facility capacity: 600 MW (300 MW × 2 units) - Contractors: Jinbhuvish - Total project amount: KRW 690.0 billion

This project is designed to carry out construction, pilot-operation and 0&M of a mine mouth coal-fired thermal power plant that uses lignite with ultra-low calorific value in the Afsin-Elbistan region. This is a large-scale project in which starting from development of mines and completion of the C plant by 2022, the D and E plants will be completed in order. The project is currently under development aiming to conclude an agreement (IGA) with the Turkey government in Nov 2015.



• Nepal Upper Trishuli-1 Hydro Power Plant (under development)

The project is designed to construct and operate a hydroelectric power plant of 216 MW in the Trishuli river about 70 km from Kathmandu, the capital of Nepal. As the company's first power generation project in Southwest Asia, it means securing a foothold in the local region. Moreover, it is highly significant, taking into consideration that it is the first project for the International Finance Corporation (IFC) to progress jointly with a Korean company for the first time in a developing country.

- Contents of the project: Construction, operation, and 0 & M - Facility capacity: 216 MW (72 MW × 3 units) - Contractors: Daelim, Gyeryong, IFC, and Jade Power - Total project amount: KRW 606.1 billion

• Pakistan Gulpur Hydro Power Plant (construction to be started)

• Turkey Afsin Coal-fired Plant (under development)

- Contents of project: Equity investment and O&M (including development of mines) - Facility capacity: 4,320 MW (1,440 MW x 3 units) - Starting/Ending: Nov 2017 / Dec 2022 (expected, based on the C plant) - Total project amount: About USD 12 billion (about KRW 12 trillion, KOEN: KRW 180.0 billion)





Overseas resource development

Promoting the development of overseas resources to respond to the drastic increase of prices of flaming coal and the instability in its supply and demand, and to secure flaming coal stably in a long-term duration. Currently, we secured a priority purchase right for flaming coal of 6.62 million tons per year as a result of launching coal resource development projects involving the Adaro mine in Indonesia and the Moolarben flaming coal mine in Australia.

- Effects: Securing fuel for power generation and generating investment profits including dividends and sales commission making efforts to substantialize overseas power generation and resources projects
- by developing a package for investing in and owning mines, and linking them to power generation
- Indonesia Adaro Mine Development
- Reserve amount: 3.5 billion tons
- Secured amount: 3 million tons per year
- Location: Near Kalimantan Baniarmasin
- Participants: Adaro Energy / KEPCO / KOEN
- Total investment: KRW 14.3 billion
- Period: 2009–2023 (14 vears)
- Calorific value: 4,920 kcal, NAR

• Australia Moolarben Mine Resource Development

- Reserve amount: 600 million tons
- Secured amount: 625,000 tons per year
- Location: New South Wales, Australia
- Participants: Yancoal / Sojitz / Korea Consortium
- Total investment: KRW 12.8 billion
- Period: 2008–2028 (20 years)
- Calorific value: 6,000 kcal, NAR











This is a consolidated energy project for supplying processing steam to the companies residing in industrial complexes and selling electricity to Korea Power Exchange by utilizing the coal-fired thermal power facility operation technology owned by the company. Its capacity is 48.42 MW (24.2 MW × 2 units) for electricity and 700 t/h (350 t/h × 2 units) for steam. The facility was constructed and has been operated in the Yeosu Thermal Power Site Division. The total project cost is KRW 603.5 billion, and KOEN has 30.7% equity investment (a total of KRW 47.1 billion) and is responsible for 0 & M. Started to be constructed in December 2009 and commenced its commercial operation in January 2013, the facility supplies steam at low prices to seven companies near industrial complexes, contributing to the strengthening of national competitiveness and the activation of the local economy.

This project is designed to construct and operate a coal-fired thermal power plant of 2,080 MW (1,080 MW × 2 units) in an area of Deokho-ri, Goseong-gun, Gyeongnam. KOEN has 29% equity participation and is responsible for carrying out the 0 & M of the plant for 30 years. In addition to the Gangreung thermal power plant project, this project is one of our first 1,000 MW-grade plants and is an opportunity for our company to advance in technological power. It is also an exemplar case of contributing to the government's policy of boosting power generation through the private sector.

This project is designed to construct and operate a coal-fired thermal power plant of 2,080 MW (1,080 MW × 2 units) in an area of Aninri, Gangdong-myeon, Gangrung-si. KOEN has 29% equity participation and is responsible for carrying out the 0 & M of the plant for 30 years. This project is expected to contribute significantly to resolving the national shortage of electric power and vitalizing the local economy such as creating and expanding jobs by developing a power generation complex in the Gangwon area.



Domestic power generation business (equity participation, EPC, and 0 & M)

Yeosu Hyundai Energy (in operation)

Goseong Green Power (under development)

- Contents of the project: Equity investment and 0 & M - Facility capacity: 2,080 MW (1,080 MW × 2 units) - Contractors: SK E&C and SK Gas - Total project amount: KRW 3.9 trillion

Gangreung Eco Power (under development)

- Contents of the project: Equity participation and 0 & M - Facility capacity: 2,080 MW (1,080 MW × 2 units) - Contractors: Samsung C&T - Total project amount: KRW 4.1 trillion

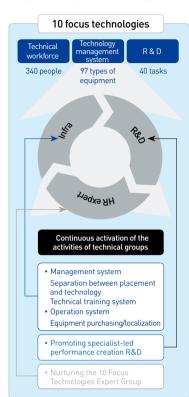
Ansan Combined Thermal Power (in operation)

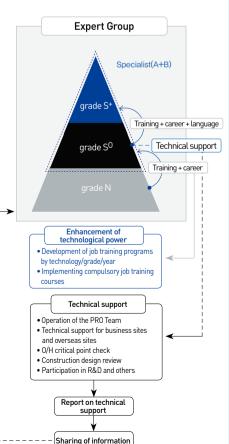
This project is designed to construct an LNG combined thermal power plant of 835 MW in Shiwha MTV, Ansan-si, Gyeonggi-do, and operate it for 30 years. Its total project cost is KRW 887.1 billion, and its operation period is 30 years. The plant was constructed in December 2014. KOEN is responsible for construction management and 0 & M, and Samchully and Posco E&C is responsible for the management of S Power (SPC) and for EPC. The electricity and heat to be generated are expected to be sold to Korea Power Exchange and Ansan Urban Development, respectively.

30

31

Strategies for securing and using technological powerstrategy





Strengthening core technologies and competencies

Advancing 10 focus technologies

To respond proactively to the drastically changing business environment, including the continuation of low-growth trends in the domestic demand for power, the competition among domestic power generation companies, the ever-increasing competition in the power generation industry due to the expanded participation in markets by private power generation companies and new and renewable energy companies, the strengthening of environment restrictions, and the increase in the cost of raw materials. KOEN has established mid- and long-term road maps for 10 focus technologies for launching in the businesses of new combustion technologies, predictive maintenance technologies (boilers, turbines, generators, and controls), new and renewable energies, and new businesses; has prepared detailed action plans; and has promoted the systematic nurturing of workforce and the development of technologies.

Nurturing of core workforce

By operating the PRO Team, which consists of people with a master's or doctorate degree, and expertise in individual sectors, through cooperation between the industry and the academy, KOEN has focused on investing on enhancing technological power by accumulating knowledge and experience through technical support in Korea and overseas, providing customized trainings on weekends, and practicing specialized and working-level trainings for the makers to nurture core workforce.

Development of technologies

KOEN has provided technical advice through the R&D Tecubator for securing source technologies, and has led large-scale government-initiated tasks. It has secured technologies and has enhanced technological power by establishing a convergence research center through cooperation between the industry and the academy.

Top 10 Focus

Technologies

10 focus technologies

Boiler fault prevention technologies Boiler tube fault prediction technology Boiler tube damage prevention technology Steam pipe damage prevention technology Air vent system damage prevention technology

Turbine diagnosis technologies Turbine maintenance and diagnosis technology

 Turbine and pump soundness evaluation technology Gas turbine compressor maintenance and diagnosis technology

Electric facility predictive maintenance technologies Generator fault analysis technology Generator soundness diagnosis technology Insulation diagnosis/operation technologies • Exciter system operation technology

Control facility operation/engineering technologies ontrol facility fault analysis tecl Control tuning and modeling technologies DCS design technology · Control facility operation technology

> Green environment technologies Eco-friendly facility development and handling technologies Climate change response technology Resource reuse

New combustion / performance evaluation technologies Coal optimal combustion technology
 Low-grade coal, mixed firing trouble minimization technology NO2 reduction technology Combustion tuning technology Performance measurement and diagnosis technology
 Clean coal technology

> Renovation and Modernization (R & M) technologies Facility diagnosis technolog Facility operation technology Predictive maintenance technology

> > Engineering technologies Energy generation facility design techn ology Environment facility and system design technology Power facility design technology Construction management technology

New and renewable energy

technologies · Wind power system operation and diagnosis technology Operation technologies for tidal current / ocean temperature difference power generation Photovoltaic system construction / efficiency optimization technology - Fuel cell efficiency optimization technology

PD & M technologies

roject selection techno Project acquiring technology Project managing technology

Environmental management system

 Becoming a Clean & Smart Energy Leader that creates a sustainable environmental future

- Practice continuous improvement of the environment Preserve the Earth's environment voluntarily
- Realize win-win and transparent management

Build an advanced environmental

environment preservation activities

Strengthen fellowship with local

communities and manage with

Minimize environmental load Take proactive measures in Earth's

management system

transparency

Nine items

eneray facilities

Securing and utilizing carbon Reducing greenhouse gas emission rights Building a reduction road map Developing CDM projects Improving efficiency and reducing Developing greenhouse gas power in stations reduction projects Developing new and renewable Analyzing emission rights trading markets Improving the performance of old Participating in the inside and outside trading of emission rights Strengthening relationship with Building infrastructure the public Building an integrated greenhouse Promoting the policies recommended by the government gas information system Introducing and operating a carbon Participating in the power generation industry's Greenhouse Gas management system Reduction Research Group Nurturing emission trading experts Developing technologies for capturing Participating in the climate change and reusing carbon forum of the assembly Participating in Korea CCS Securing greenhouse gas reduction projects and securing emission rights

Environmental Management System environmental future"

Exhaust gas, filtered out by advanced environment facilities at individual business sites, will be measured automatically through stacks. Thus, measured real-time data will be sent to the remote stack monitoring center of individual local governments and regions to be made public promptly and accurately.

Resource recycle system An eco-friendly resource recycle system has been built and operated to reuse waste resources such as coal ashes, desulfurization gypsum, process waste water, and hot waste water from the power generation process.

Green management

Establishment of four environmental goals and nine environmental indicators; designing execution framework for life cycle assessment, environmental performance evaluation, and environmental accounting with ISO 14001 system; fulfilling its social role as a green company to become a "Clean & Smart Energy Leader that creates a sustainable

Company-wide integrated environment monitoring system

Responding to the convention on climate change

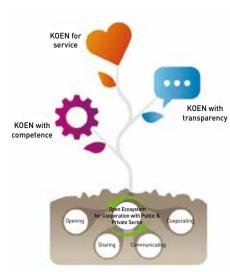
4 strategies and 16 focus tasks to be promoted

Securing greenhouse gas reduction projects and registering the Samcheonpo and Yeongheung ocean small hydropower CDM projects to secure carbon emission rights

Developing capturing, using, and storing carbon (CCUS) technologies Promoting continuously the research tasks of core technologies to preempt source technologies such as capturing and using carbon dioxide

Building an infrastructure for greenhouse gas

Building and operating an integrated greenhouse information system, nurturing experts on the trading of emission rights, and enhancing the competence of employees to establish a carbon management system



KCEN

With openness, sharing, communication, and cooperation, KOEN is committed to become a company with trust that serves Korea with transparency and brings happiness to the people.

A transparent power generation company that communicates

bening perfori Iblic data

Opening public data

asparent opening of information

technology data

Status of SOx. NOx. and Dust emissions

Making public 3,854 cases related to the information on quality management, work promotion expenditures, and anti-

corruption and uprightness activities Construction process data / construction

2014: 50% > 2017: 90% pening da nd orderi Free-of-charge transfer of owned patents, notice prior to ordering, 245 patents, 156 cases related to ordered

construction, and 307 cases related to

to the environment and emissions

Including power generation performance

fuel information, and performance related

participation system

Online public

Making public information on the environment, uprightness, and management

A competent power generation company that performs well

material purchasing

32

33

Selected as an excellent institution in the government 3.0 evaluation of public institutions consecutively in 2014 and 2015

KOEN as an excellent case of government 3.0

Area	Cases
Innovation of working methods	Creating common values through the development of new and renewable energy participated in by the public
Opening and utilizing public data	Opening fuel data and an integrated fuel procurement information system, and activating its utilization through the private sector
Performance in sharing information among institutions	Optimally utilizing the surplus stone, which is generated from preparing the power plant site, through the sharing of information and cooperation among institutions
Customized	Advancing customized one- stop support services for small- and medium-sized companies
services	Providing locally customized support services by life cycle and type (the case of the

Yeongheung Division)

Energy welfare customized for users

Providing services, such as supporting revenue-making projects, providing cultural performance, and nurturing talents, by analyzing the needs of local residents

Sunny Place: Improving the energy efficiency of buildings

Sunny Plant: Supplying photovoltaic nerators Sunny Garden: Vegetating the rooftops Sunny Market: Improving the energy environment for markets

Activating the culture of video conference and broadcasting conferences in real time

A people-oriented power generation company for service

Supporting small- and medium-sized companies

e-stop support for bu R&D

 $Planning \rightarrow Product development \rightarrow$ Verification \rightarrow Promotion \rightarrow Overseas sales Exporting the products of small- and medium-sized companies through exporting agencies

USD 1 million in 2014 USD 3 million in 2017

KOEN + KAIST + professional research institutes + experts on small- and medium sized companies for mentoring (cooperation among the private sector, the govern the industry, and the academy)

Supporting vulnerable social

groups

Check whether payment is made to the workers of final-stage subcontractors

Developing Web services customized

for people with disabilities and the

elderly

errors, and maintenance

Scientific and data-based management

Fuel information system Fuel supply network, fuel information, climate information, conditions of a power generation facility, and conditions for fuel mixed firing Predictive facility diagnosis system Analyzing facility status data including the operation of a facility, performance

Shared growth

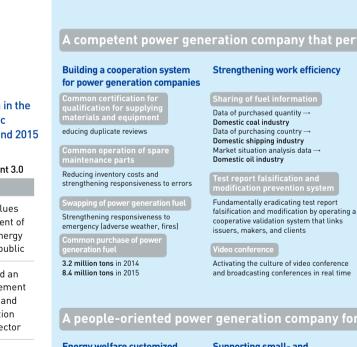
Mid- and longterm tasks

Performance goal

Focus tasks

information infrastructure Shared growth schemes

products infrastructure



To comply with the government-promoted policy of shared growth among small-, medium- and large-sized companies, KOEN has played a leading role of shared growth through win-win cooperation such as preparing and operating various customized support programs for small- and medium-sized companies

Mid- and long-term strategy system for shared growth

Clean & Smart Energy Leader that grows together with small and medium sized companies Ensuring the foundation for sustainable growth by supporting the global Securing leading novating and streng-**Pursuing market** Building a culture of ower in technolog thening productivity diversification shared growth Promoting the expansion · Cooperative small- and · Pioneering overseas Smoothing communication of R&D Activating benefit-sharing medium-sized companies markets · Expanding support for · Cooperative small- and systems strengthen management strategic medium-sized companies competence, reduce costs, promotion Improving unreasonable secure technological · Expanding public systems and improve productivity competitiveness and core purchasing Nurturing cooperative technologies · Strengthening cooperation small- and medium-sized with KOTRA companies Number of common R&D · G-TOPS export Productivity improvement ratio Number of companies nurtured to become global ones cases amount 38^{'13 Achieved} 40^{'14} 50 40^{'13Achieved} 500^{'14} USD 10 0^{'13 Achieved} O 50^{'14} O 60 cases^{'23} 0'13 Achieved C 3'14 C 30 cases'23 cases^{'23} million²³ Expanding domestic and overseas sales routes, Strengthening the implementation of a and strengthening promotion "technology commercialization platform" Expanding purchasing, for example, Newly promoting the by improving unreasonable schemes "management supporters scheme" () Activating benefit sharing schemes through Newly promoting the "KWC-30^{1]} Project" R&D income

¹⁾ KOSEP World Class 30: Finding and nurturing 30 domestic companies with the best technologies to become global ones by 2023

Kinds of shared growth support programs

Innovation of management

- Fostering the core power generation facility companies Supporting the Inno-Biz certification of small- and medium-sized companies
- Supporting the building of technical security and
- Supporting the certification for quality and environmental management systems
- Supporting the certification for industrial intellectual
- property rights and new technologies
- Supporting the certification for overseas standards
- Supporting the certification for venture business

Supporting Small and Medium Business

- Associations in each industry
- Project of substantiating researched and developed
- Project of supporting the building of an R&D
- Project of cooperative R&D for supporting
- small- and medium-sized companies
- New product development with conditional purchase option and private-public mutual investment
- Utilizing technical data escrow schemes
- Operating cooperative research centers at sites

Pioneering of sales routes

- Dispatching market pioneering groups (export road shows)
- Pilot project of exporting power facilities
- Circular presentations at business sites for products with developed technologies
- Supporting participation in domestic and overseas professional exhibitions
- Financial support services (Power Energy Loan)
- Supporting online overseas marketing
- Supporting the creation of promotional materials

Trainings for small- and medium-sized companies through industry-academy cooperation

- Nurturing customized technical workforce by linking the industry, the academy, and research institutes
- Project of supporting the utilization of the export experts of KOTRA
- Project of nurturing the technical workforce of private maintenance companies
- Project of supporting small- and medium-sized companies by utilizing the retired expert workforce from the navy and air force
- Trainings for small- and medium-sized companies through the use of training centers
- Practical trainings for the research workforce of small- and medium-sized companies on the operation for power generation

Creating differentiated competitiveness

KOEN creates differentiated competiveness with forward-thinking and technology Pursuing both public interest and profitability, KOEN is committed to become a company trusted by the people and generate low-priced, sustainable electricity. With its world-class technology

and competiveness's, KOEN will become a Clean & Smart Energy Leader that proudly competes in the global market.



34 + 35



A power plant loves A power plant loves environment and people _ Samcheonpo Power Division

Samcheonpo Power Division is the first 500MW coal-fire power plant in large scale thermal power plant complex in southern Korea, with total capacity of 3,240 MW. In order to protect the environment and produce energy at low price, the plant not only focuses on developing environmental friendly combustion technology but it has also installed and operates the cutting edge environmental facilities for desulfurization and denitrification.

Especially, it operates a refinery plant for recycling of bottom ash produced in the process of generating electricity. And it spares no efforts to develop renewable energy facilities including the first photovoltaic power facility set up in Korea. As these efforts have been recognized, Samcheonpo power station has received the Grand Prize in Environment Management Awards, showing its leading role in the nation for environment-friendly management system.

Plus, by developing and operating a small hydro power plant(4,740kW), the first of its kind in the world using discharged cooling water, it also leads the government's policy for low carbon green growth through development of new green energy.

2,210,000 m² Site

• Construction year Generator #1: August 16, 1983 / Generator #2: February 28, 1984 Generator #3: April 30, 1993 / Generator #4: March 31, 1994 Generator #5: July 1, 1997 / Generator #6: January 1, 1998

• Facility capacity 3,240 MW



The no.1 eco-friendly & cutting-edge power plant _ Yeongheung Power Division

national gross electricity produced. energy business.

As part of its effort to fulfill corporate social responsibility, Yeonghueng division designed and built Energy Park, a cultural and information hall opened in 2007. At the Energy Park, through various activities students could learn about electric energy, also local residents could enjoy various cultural events including movie, musical performances, etc. It has not only become tourist attraction but it has certainly become the pride of local area.

 Site • Facility capacity 5,080 MW

Known for its 800MW-class coal-fired unit introduced for the first time in Korea, Yeongheung division plays a critical role for stably supplying electricity to metropolitan area where itself consumes 23% of

Yeounghueng division is also well known for its highly efficient and advanced environmental facilities. Despite the strict environmental regulations, Yeonghueng power station is being operated hardly creating any pollution. Meanwhile, by setting up photovoltaic power facility(8MW), marine hydro power facility(12.6MW), wind power facilities(46MW), Yeoungheung is also growing into a hub for renewable

5,958,153 m²

• Construction year Generator #1: July 12, 2004 / Generator #2: November 30, 2004 Generator #3: June 1, 2008 / Generator #4: December 1, 2008 Generator #5: June 10, 2014 / Generator #6: November 5, 2014



a power plant as clean as a park - Bundang Power Division

Being located in a highly populated residential area, Bundang power station operates gas combined cycle units with using clean and safe fuel, LNG, to provide electricity and heat to metropolitan areas while it hardly produces any air pollutants. The division continues its effort to make comfortable and eco-friendly park of a power station by enhancing environmental facility and noise control, as well as keeping utmost safety in workplaces.

Meanwhile, starting with 300kW fuel cells first installed in 2006, Bundang power station has been expanding fuel cell facilities by adding 3MW fuel cells in 2013, a 6MW plant in 2016, and a 6MW plant in 2018 as 2nd, 3rd, and 5th phase of the construction project, followed by a 17MW plant and an 8MW plant as 4th and 6th phase. In addition, it has also set up renewable energy facility such as 50 kW photovoltaic power facility.

Based on its management policy, 'basic and principles, communication and consideration, value creation', Bundang division endeavors to create a promising society caring for people's well-being and happiness.

Site 215,016 m²
 Construction year First stage: September 16, 1993
 June 30, 2017 (Completion of fuel conversion to wood pellets)
 Second stage: March 31, 1997

• Facility capacity 922 MW



The ECO power plant for environment and local community _

Power Division has more than 40 years of economic growth in Gangwon Area by mixin The 1st unit adopted wood pellet as its envito provide stable and eco-friendly power improving environmental facilities. Yeongd clean and environment-friendly way. Also, Yeongdong Eco Power Division is mak social responsibility with sharing activities.

 • Site
 1,359,018 m²

 • Construction year
 Generator #1: May 23, 1973

 Generator #2: October 31, 1979

 • Facility capacity
 325 MW

Yeongdong Eco Power Division

Since the establishment of its 1st power plant unit in 1972 and the 2nd unit in 1979, Yeongdong Eco Power Division has more than 40 years of history and tradition. Yeongdong Eco Power leads the economic growth in Gangwon Area by mixing the local coal to its fuel.

The 1st unit adopted wood pellet as its environmental friendly fuel for the first time in Korea, as a way to provide stable and eco-friendly power generation for the region with its continuing effort for improving environmental facilities. Yeongdong Eco Power Division is striving to operate the plant in clean and environment-friendly way.

Also, Yeongdong Eco Power Division is making an effort to co-exist with the local community by taking social responsibility with sharing activities.



Eco-friendly power plant, leading the green management _ Yeosu Power Division Eco-friendly power plant,

Initially constructed as oil-fueled power plant in 1997, Yeosu Power Division has converted its facilities to fluidized-bed power plant that consumes affordable and more diverse fuels, in order to respond to the changing environment of power generation and operate the facility more efficiently.

The unit2[300MW] converted its oil-fueled facilities to fluidized-bed boilers[328.6M] in September 2011, and added Oil-fueled unit1[200MW] in August 2016, for the reliable power distribution in the surrounding area and Yeosu National Industrial Complex.

Yeosu Power Division also leads green management as the safe and eco-friendly power station, by reducing greenhouse gases with eco-friendly mixed fuels and developing new & renewable energy. The effort was rewarded by Green Management Award by the prime minister in 2016, Leader of Recycling Companies Award by the president in 2013, as well as the Safety Management Awards in 2014 and KOSHA/OHSAS 18001 certificates.

 Site 309,173.5 m² • Construction year Generator #1: August 31, 2016 Generator #2: September 28, 2011 668.6 MW Facility capacity

Plants in operation

Load type	Site	Used fuels	Installed capacity	Remarks	
	Samcheonpo	Bituminous	3,240MW		
	Yeongheung	Bituminous	5,080MW		
	Yeosu	Bituminous	668.6MW		
Base load	Yeongdong	Anthracites	200MW	9,188.6(88.8%)	
Peak load	Bundang	LNG	922.1MW	922.1(8.9%)	
	Biomass				
	(Yeongdong #1)				
Renewable	Yeongheung wind	-	233.8MW	233.7(2.3%)	
	power, small hydro				
	power, etc.				
Total			10,344MW	10,344(100%)	

Market share of Korean Gencos

Classification
Installed capacity(MW)
Share (%)
Generated capacity(Gwh)
Share (%)

KOEN (10,344MW) 8.9%

KHNP (27,857MW) 23.9%

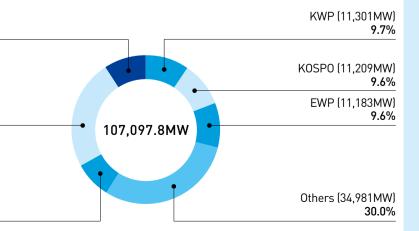
KOMIPO (9,553MW) 8.2%

Clean & Smart Energy Leader KOEN

(As of Jan. 2018)

(Facility capacity: as of Jan. 2018 / Power generation: as of Dec. 2017)

KOEN	KHNP	KOMIPO	KWP	K0SP0	EWP	Others	Total
10,344	27,857	9,553	11,301	11,209	11,183	34,981	116,428
8.9	23.9	8.2	9.7	9.6	9.6	30.0	MW
70,632	155,407	52,954	47,936	49,014	51,103	126,859	553,905
12.8	28.1	9.6	8.7	8.8	9.2	22.8	Gwh



+ 41

We are building trust with a solid foundation.

Facilities owned In operation: 10,344 MW

Only in KOEN

-Among power generation companies, it realized the lowest power generation cost because it owns flaming coal facilities (88.8%) at a maximum level.

-It has the experience and technology of constructing a large 800 MW-grade flaming coal power plant, which is the first one in Korea.

-It owns the largest power generation site where 12 generators can be built (approximately 3,100,000 m² in Yeongheung).

Achieved the highest net profit since the foundation (in 2015)

KOEN achieved the highest net profit of KRW 601.2 billion since its foundation and ranked top in terms of capital productivity and labor productivity (based on the value added). KOEN has also ranked top among power generation companies in terms of key financial statements indices by offering the lowest unit price on power generation and flaming coal procurement.

Main financial status

2015 2016 2017 Assets 93,268 97,737 98,796 Liabilities 48,598 47,943 48,442 Capital 44,670 49,794 50,354 Debt ratio 108.8% 96.3% 96.2% Sales revenue 49,617 50,935 53,879	Main Infancial Status			(Unit: KRW million)
Liabilities 48,598 47,943 48,442 Capital 44,670 49,794 50,354 Debt ratio 108.8% 96.3% 96.2% Sales revenue 49,617 50,935 53,879		2015	2016	2017
Capital 44,670 49,794 50,354 Debt ratio 108.8% 96.3% 96.2% Sales revenue 49,617 50,935 53,879	Assets	93,268	97,737	98,796
Debt ratio 108.8% 96.3% 96.2% Sales revenue 49,617 50,935 53,879	Liabilities	48,598	47,943	48,442
Sales revenue 49,617 50,935 53,879	Capital	44,670	49,794	50,354
	Debt ratio	108.8%	96.3%	96.2%
	Sales revenue	49,617	50,935	53,879
Net income 6,012 5,310 1,304	Net income	6,012	5,310	1,304

ENERGY를 CHANGE

자연을 에너지로 건강한 환경을 생각합니다. 안전한 에너지로 인류의 미래를 생각합니다.

환경과 인류를 지키는 ENERGY CHANGE! 한국남동발전이 에너지 전환을 선도합니다.

Clean & Smart Energy Leader!

