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# Korea Electric Power Industrial Development

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Adding Value to Growth



Identity

Innovation

Focus

Value

Technology

 Korea Electric Power Industrial Development Co., Ltd.



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Address | 115 Seosomun-ro, Jung-gu, Seoul 04515 (6th Floor, Hansan Building, Seosomun-dong)

# KEPID's History

1990  
—  
2016

**February 1996**

Changed the company name to Korea Electric Power Industrial Development.

**January 1998**

Launched flue gas desulfurization system operations at Boryeong Thermal Power plant, the first in Korea.

**August 1998**

Commenced operations of the Taeon Thermal Power refining plant.

**March 2003**

Privatized (Korea Freedom Federation 51%, Korea Electric Power 49%).



**September 2012**

Initiated commercial operations at the Korail Daejeon Solar Power Plant.

**May 2014**

Began O&M for the Indonesian Coal Terminal.

**November 2017**

Won the Presidential Gold Prize at the 43rd National Quality Management Convention.

**January 2018**

Commenced commercial operations of the floating solar power plants, Myeogu and Deokwoo (Hwaseong, Gyeonggi Province).

**December 2018**

Selected as an 'Excellent Leisure-Friendly Company' by the Ministry of Culture, Sports and Tourism.

**December 2019**

Received the Minister of SMEs and Startups Award at the 7th 'Beloved Company of Korea' event.



**January 2020**

Began the operation service for the environmental systems at Goseong Hai Thermal Power Plant.



**February 2020**

Initiated O&M for the environmental systems at Seocheon Thermal Power Plant.



**March 2023**

Commenced maintenance construction and operational services for environmental systems of GS Donghae Electric Power Units 1 and 2.



**July 2023**

Secured a contract for maintenance of turbine boiler systems in the electrical sector for Hyundai Green Power Units 1-8.

'90-'95



**April 1990**

Established Hansung Industrial Co., Ltd.



**August 1992**

Initiated operations of the coal handling systems at Boryeong Thermal Power plant.

**October 1994**

Commenced the electric meter reading and electricity bill delivery services.



**February 1995**

Started maintenance services for the coal handling systems at Taeon Thermal Power plant.

'96-'03

**September 2006**

Began commercial operations at Gangjin Solar Power Plant.

**February 2008**

Entered the overseas power plant O&M commissioning sector (in Jalsuguda, India).

**September 2008**

Launched the internet billing service (kepidbill).

**November 2010**

Started O&M services for nuclear power water treatment systems.



**December 2010**

Listed on the Korea Exchange (KOSPI).

**March 2011**

Launched the Energy Saving Company (ESCO) business.

'12-'16



**October 2015**

Secured a contract for maintenance of main systems for private power producers (GS Donghae Electric Power).

**February 2016**

Secured contracts for maintenance of main systems for public power corporations (Dangjin and Taeon Thermal Power plants).

**July 2016**

Secured a contract for O&M of overseas nuclear power water treatment systems (UAE BNPP Units).

**December 2016**

Designated as an 'Excellent Family-Friendly Company' by the Ministry of Gender Equality and Family.

'17-'19

2017  
—  
2023

'20-'22

**April 2020**

Designated as an 'Outstanding Company for Job Invention Compensation' (Korean Intellectual Property Office).



**July 2020**

Secured a contract to regularly maintain the main systems at combined cycle power plants. (Hyundai Green Power)

**July 2021**

Participated in the commissioning project for environmental systems at Gangneung Anin Power Plant.



**December 2022**

Awarded the '2022 Safety Culture Award' Prime Minister's Commendation (Ministry of the Interior and Safety).

'23



**August 2023**

Secured a contract for the operation service of the Ulsan liquefied carbon dioxide facilities.



**November 2023**

Won three categories at the '2023 Korea Volunteer Award.'

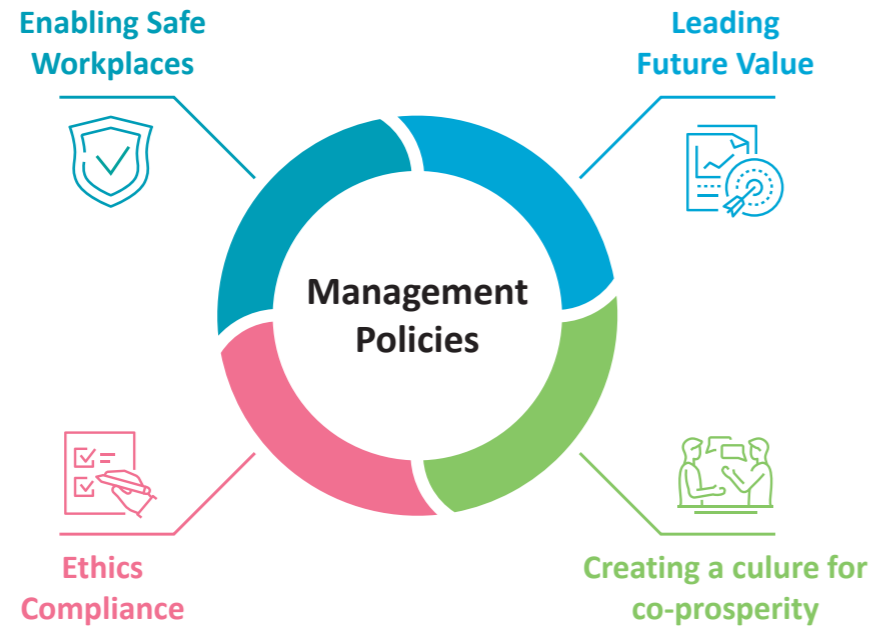


**December 2023**

Received the \$3 Million Export Tower Award on the 60th Trade Day (Ministry of Trade, Industry and Energy).

Slogan & Management policies

Adding Value to Growth  
Korea Electric Power  
Industrial Development



Since the establishment of the company in 1990 and the initiation of coal handling facility operations in 1992, Korea Electric Power Industrial Development has sustained growth even amidst challenging business conditions for over three decades. Now is the time for bold changes and challenges. Upon my appointment, I proposed five key initiatives to strengthen new business capabilities and advance towards the future, including the concentrated cultivation of advanced power technology businesses and the expansion of eco-friendly operations. We plan to train specialized personnel and invest in these areas as we transform into a comprehensive energy company that proactively responds to changes in the energy market with a courageous and active approach. We appreciate your continued interest and support as we progress.

CEO of Korea Electric Power Industrial Development

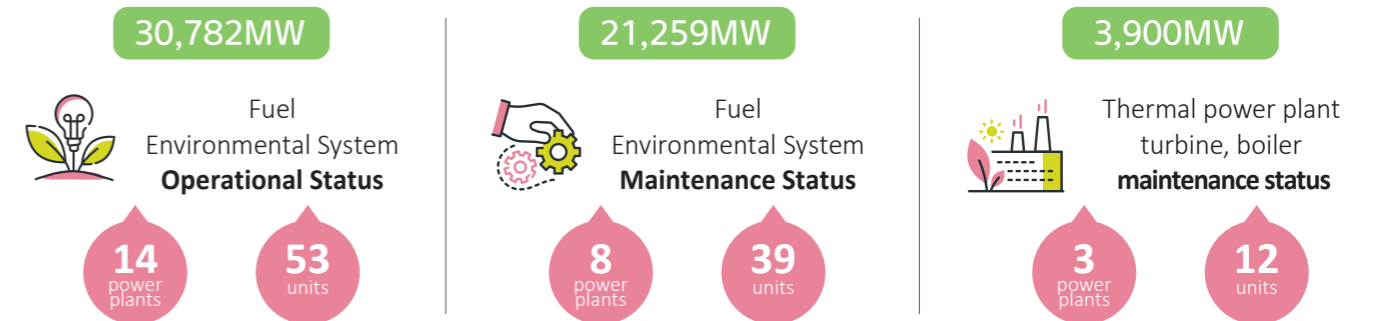
Ham Heung-kyu



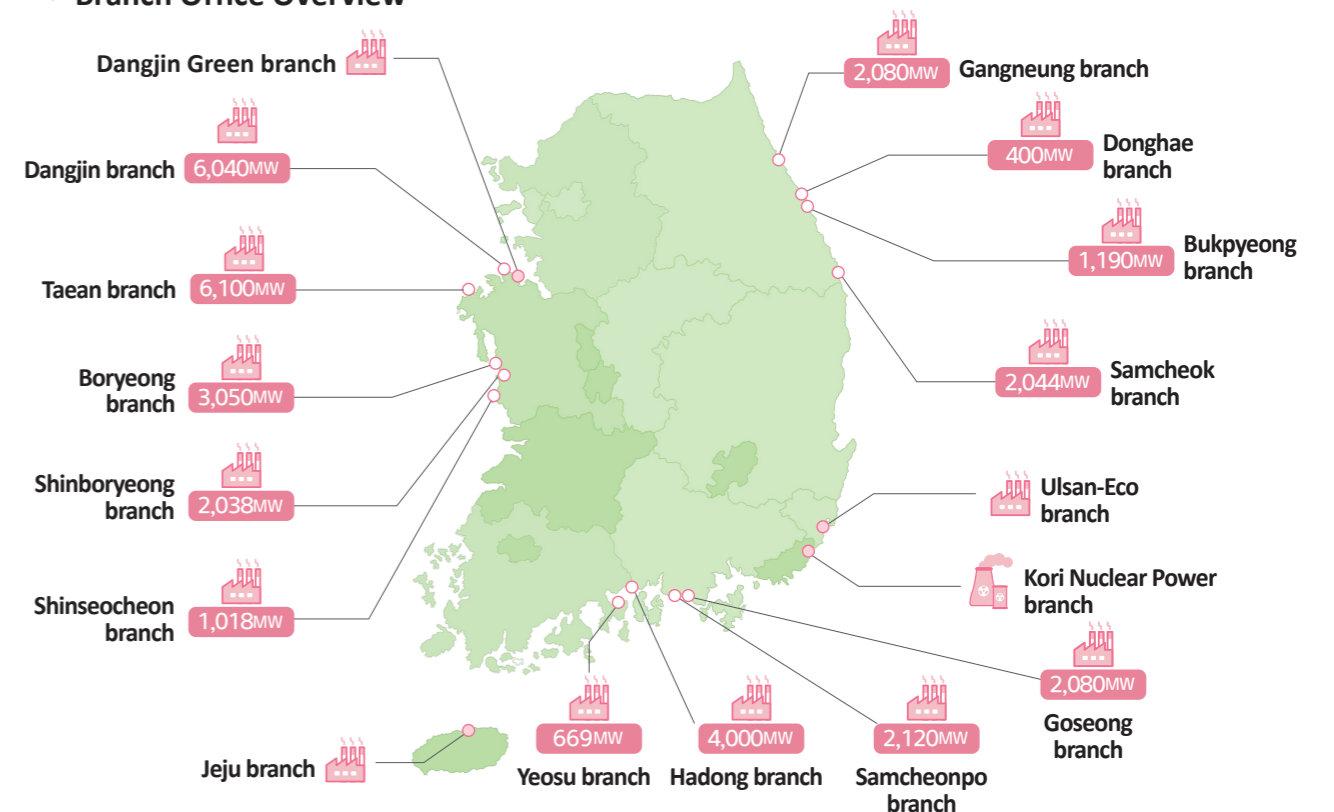
KEPID's Identity

Leading the future energy business with environmentally conscious power plant O&M

Since beginning fuel operations at thermal power plants in 1992, Korea Electric Power Industrial Development has expanded its business scope into power plants' O&M (Operation & Maintenance), including thermal and nuclear facilities. Notably, since 1998, we have operated the first domestic flue-gas desulfurization system at thermal power plants and managed coal ash refining plants, thus protecting the atmospheric environment from the impacts of fossil fuels and recycling waste into industrial resources. This commitment has been a part of our practice of sustainable management. Additionally, through the O&M of water treatment for nuclear plants, air treatment, and desulfurization equipment, we play a crucial role in enhancing the value of our planet. Korea Electric Power Industrial Development will actively pursue advanced power technology businesses (gas turbines and steam turbines) to lead future energy endeavors.



Branch Office Overview





### Operation of Fuel Environmental System

Since initiating fuel facility operations at Boryeong Thermal Power plant in 1992, Korea Electric Power Industrial Development has expanded its business scope to include ash handling and flue-gas desulfurization system. It now manages over 77% of domestic thermal power fuel environmental system operations.



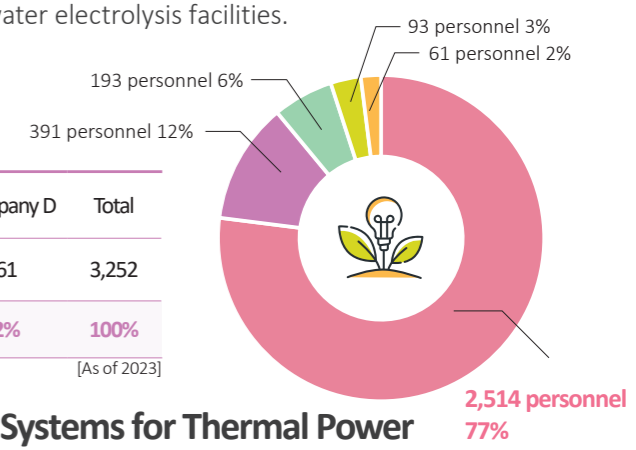
### Holds approximately 77% of the skilled workforce in the operation of fuel environmental systems at domestic thermal power plants.

► **Detailed Services:** Coal handling facilities, ash handling facilities, desulfurization facilities, water treatment facilities, wastewater treatment facilities, ammonia injection facilities, wood pellet facilities, and seawater electrolysis facilities.

#### Fuel Environmental Systems

Category	Korea Electric Power Industrial Development	Company A	Company B	Company C	Company D	Total
Personnel (number)	2,514	391	193	93	61	3,252
Market Share (%)	77%	12%	6%	3%	2%	100%

[As of 2023]



### Performance in Operating Fuel Environmental Systems for Thermal Power

Category	Operational Equipment	Performance Period	Capacity (MW)	Client
Samcheonpo	Fuel, Desulfurization, Ash Handling Facilities	2017 - Present	2,120	Korea South-East Power
Yeosu	Fuel, Desulfurization, Ash Handling Facilities	2015 - Present	680	Korea South-East Power
Goseong	Fuel, Desulfurization, Ash Handling, Refining, Water Treatment Facilities	2020 - Present	2,080	Korea South-East Power
Gangneung	Fuel, Desulfurization, Ash Handling, Refining, Water Treatment Facilities	2021 - Present	2,080	Korea South-East Power
Boryeong	Fuel, Desulfurization, Ash Handling Facilities	2017 - Present	3,050	Korea Midland Power
Jeju	Wastewater Treatment Facilities	2015 - Present	80	Korea Midland Power
Shinboryeong	Fuel, Desulfurization, Ash Handling Facilities	2015 - Present	2,000	Korea Midland Power
Shinseocheon	Fuel, Desulfurization, Ash Handling Facilities	2020 - Present	1,018	Korea Midland Power
Taeon	Fuel, Desulfurization, Ash Handling Facilities	2017 - Present	4,000	Korea Western Power
Hadong	Fuel, Desulfurization, Ash Handling Facilities	2017 - Present	4,000	Korea Western Power
Samcheok	Fuel, Ash Handling Facilities	2014 - Present	2,044	Korea Western Power
Dangjin	Fuel, Desulfurization, Ash Handling Facilities	2017 - Present	6,040	Korea East-West Power
Donghae	Fuel, Ash Handling Facilities	2017 - Present	400	Korea East-West Power
Bukpyeong	Ash Handling, Desulfurization, Wastewater, Small Hydropower Facilities	2023 - Present	1,190	GS Donghae Electric Power

※ Contributes to operating 53 thermal power units, totaling 30,782 MW of power production.

### Nuclear power plant water treatment O&M performance

Category	Operating Facilities	Duration of Performance	Client
Wolsong Headquarters	Nuclear Water Treatment Facilities O&M	2011 - 2014	Korea Hydro & Nuclear Power
Hanbit Headquarters	Nuclear Water Treatment Facilities O&M	2014 - 2019	Korea Hydro & Nuclear Power
Kori Headquarters	Nuclear Water Treatment Facilities O&M	2022 - 2025	Korea Hydro & Nuclear Power

※ Qualified Credentials: Water Treatment Facilities, Lighting Equipment



### Operation of Chemical Systems for Power Generation

In addition to O&M of fuel environmental Systems, Korea Electric Power Industrial Development also reliably operates chemical Systems (such as multi-stage desalination units) for water treatment technology in power Systems. The company is also enhancing its gas-related technical capabilities by operating ammonia facilities.

### Nuclear Power Plant Water treatment O&M

Korea Electric Power Industrial Development performs water resource supply and post-use treatment in the nuclear power generation process and maintenance for stable facility operation for domestic and international nuclear power plants. Through these activities, we contribute to showcasing the Republic of Korea's energy competitiveness on the global stage.





### Thermal Power O&M

Korea Electric Power Industrial Development has been a pillar of the power industry, operating and maintaining thermal power system. Since beginning coal handling operations in 1992, we have managed over 77% of the domestic thermal power plant fuel environmental system operations, including ash handling and operating the nation's first flue-gas desulfurization system. We also perform comprehensive maintenance of thermal power plants, including boiler and turbine maintenance, desulfurization, and coal handling facilities, playing a significant role in developing vital national industries.

### Power Turbine and Boiler Maintenance

Since beginning routine maintenance of turbines and boilers at Dangjin Units 7 and 8 in 2016, we have continued these services at Taean Units 9 and 10, GS Donghae Electric Power, and Hyundai Green Power. Additionally, we perform over ten annual overhaul (OH) projects targeting combined cycle power plants for gas turbines (G/T) and steam turbines (S/T), delivering high-quality maintenance and premier service to our clients.



### Fuel and Environmental System Maintenance

Starting with coal handling System maintenance in 1995, Korea Electric Power Industrial Development conducts routine and planned preventive maintenance in the fuel and environmental sectors. We offer top-quality maintenance services across all areas of thermal power plants, including desulfurization and coal-handling equipment maintenance.

### Refining Plant Operations and Coal Ash Sales

Since assuming recycling operations from Korea Electric Power in 1990, Korea Electric Power Industrial Development has been operating the Taean Thermal Power refining plant, completed in 1998. We are committed to enhancing the value of resources by recycling coal ash produced after combustion, striving for a cleaner environment.



### Maintenance Performance for Turbine/Boiler Facilities

Project Name	Construction Period	Capacity (MW)	Client
Dangjin Units 7 and 8 Turbine/Boiler Maintenance	April 1, 2016 - Present	1,000	Korea East-West Power
Taeon Units 9 and 10 Boiler Facility Maintenance	April 1, 2016 - Present	2,100	Korea Western Power
Hyundai Green Power Units 1-8 Maintenance	July 1, 2020 - Present	800	Hyundai Green Power
Bukpyeong Unit 2 Boiler, Turbine, and Auxiliary Facility Maintenance	May 16, 2016 - February 28, 2023	595	GS Donghae Electric Power

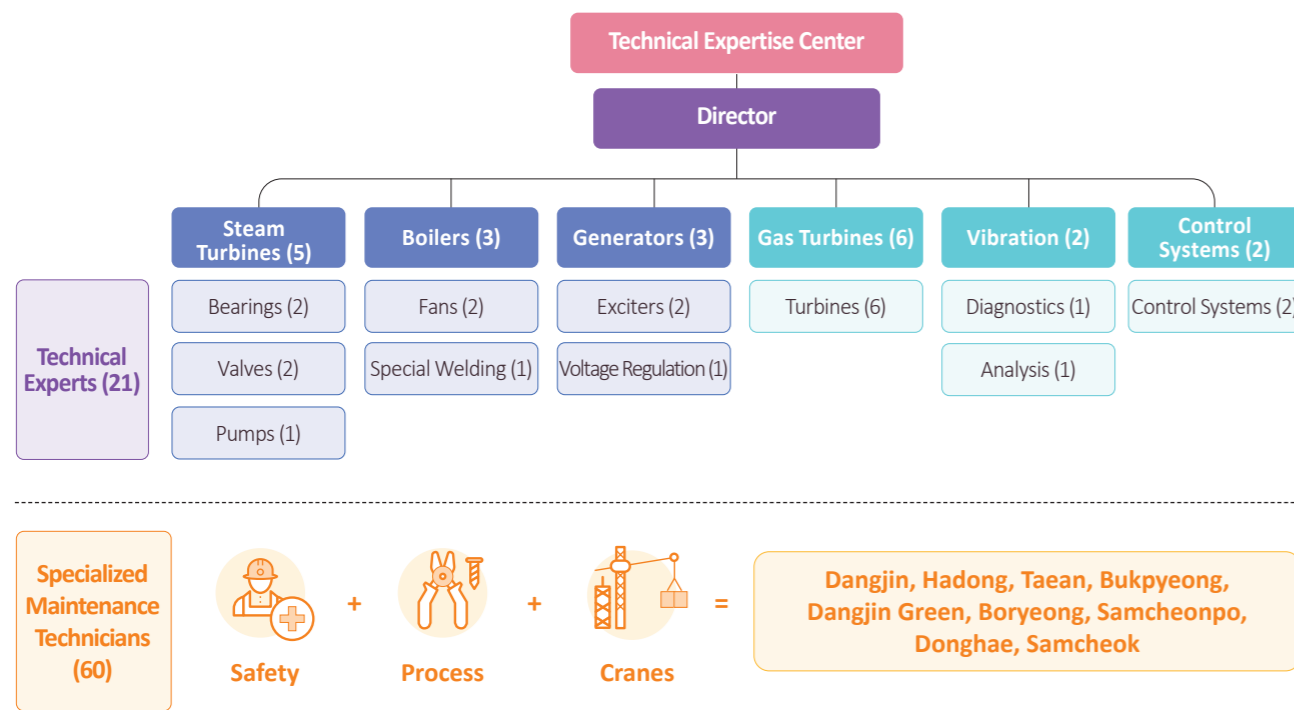
### Planned Preventative Maintenance Performance for Turbine/Boiler Facilities

Year	Details	Manufacturer	Client
2023	Taeon #10 Boiler Facility Planned Preventative Maintenance		Korea Western Power Co.
	Hyundai Green Power S/T #5, #6 Disassembly Inspection	SIEMENS	Hyundai Green Power
	Halla Cement #5 Turbine Turning Gear		Halla Cement
	Busan E&E S/T Turbine Disassembly Maintenance		Busan E&E
	Busan E&E	MHPS	Daeryun Power
	Lotte Chemical Small Turbine Disassembly Maintenance, etc.		Lotte Chemical
Yangju Okjeong G/T #2 (MI Grade)			
2022	Dangjin Units #7, #8 Turbine/Boiler Planned Preventative Maintenance		Korea East-West Power Co., Ltd.
	Taeon #9 Boiler Facility Planned Preventative Maintenance		Korea Western Power Co., Ltd.
	Hyundai Green Power S/T Units #3, #4 Planned Preventative Maintenance	SIEMENS	Hyundai Green Power
	Yangju Okjeong G/T #2 Planned Preventative Maintenance	MHPS	Daeryun Power
	Halla Cement S/T Disassembly Maintenance		Halla Cement
	Sejong Power Headquarters G/T #1 Disassembly Maintenance	Doosan	Korea Midland Power Co., Ltd.
2021	Tanjung Jati Unit #4 Turbine/Boiler Planned Preventative Maintenance	Toshiba	Korea Midland Power Co., Ltd.
	Hyundai Green Power S/T Units #2, #6, #8 Planned Preventative Maintenance	SIEMENS	Hyundai Green Power
2020	Dangjin Unit #8 Turbine/Boiler Planned Preventative Maintenance		Korea East-West Power Co., Ltd.
	Taeon #9 Boiler Facility Planned Preventative Maintenance		Korea Western Power Co., Ltd.
	Hyundai Green Power S/T Units #1, #5 Planned Preventative Maintenance	SIEMENS	Hyundai Green Power
2019	Tanjung Jati Unit #3 Turbine/Boiler Planned Preventative Maintenance	Toshiba	Korea Midland Power Co., Ltd.
	GS Donghae Power Unit #2 Turbine/Boiler Planned Preventative Maintenance		GS Donghae Power
2017 ~ 2018	Dangjin Units #7, #8 Turbine/Boiler Planned Preventative Maintenance		Korea East-West Power Co., Ltd.
	Taeon Units #9, #10 Boiler Facility Planned Preventative Maintenance		Korea Western Power Co., Ltd.
2016	Tanjung Jati Units #3, #4 Turbine/Boiler Planned Preventative Maintenance	Toshiba	Korea Midland Power Co., Ltd.
	Dangjin Unit #7 Turbine/Boiler Planned Preventative Maintenance		Korea East-West Power Co., Ltd.

### Technical Expertise Center Operations & Turbine/Boiler Solutions

Korea Electric Power Industrial Development is committed to enhancing technical competitiveness as it strives to become a leading plant operation and maintenance company. We provide solutions for issues arising in leading power plant equipment such as steam turbines, gas turbines, and small turbines and compressors used in various industries. To deliver top-tier services, including planned preventative maintenance, various repair works, and equipment diagnostics, we have placed specialized maintenance personnel (Technical Assistants, Technical Experts) at our Technical Expertise Center. Additionally, the center conducts technical support, diagnostics, and specialized training for turbine/boiler maintenance personnel.

► **Location:** Dangjin-si, Chungcheongnam-do



### ► Specialized Maintenance Technicians by Expertise and Level

Categories	Turbines			Boilers		Generators		Vibration	Other		
	Bearings	Valves	Pumps	Fans	Special Welding	Exciters	Voltage Regulation	Diagnostic Analysis	Safety	Process Management	Cranes
Expert	2	1	1	1	1	1	1	1	0	0	0
Superior	3	2	1	3	1	2	2	1	0	0	0
Senior	8	5	2	6	3	2	2	2	2	2	2
Number of Personnel	25			15		10		4	6		

### ► Construction Business License Management

License Name	Registration Number	Construction Capability Evaluation Amount (in thousand KRW)	National Ranking
Industrial Environmental Facility Construction Business	01-0096	44,242,000	168/399
Mechanical Facility Construction Business	Jung-gu 00-12-02	36,277,101	158/9,163
Electrical Construction Business	Seoul-00429	93,552,554	63/19,809
Specialized Fire Safety Facility Construction Business	Jejungbu 2006-3	2,143,400	1,840/6,443
Gas Heating Construction Business	Jung-gu-22-Ha-01	-	-

### International Operations

Since 2008, Korea Electric Power Industrial Development has been expanding its international operations, managing 41 projects across 14 countries. We play a pivotal role in overseas power plants, including coal-fired, combined cycle, and nuclear power, and we plan to diversify our business into clean gas, renewable energy, and energy-from-waste sectors.

### ► Key International Projects



### ► International Business Areas \* Key Achievements

#### Power Plant Commissioning

Comprehensive commissioning of primary and Balance of Plant (BOP) equipment for thermal power generation, including coal-fired and combined cycle plants.

- Coal-fired Power Plants (CFPP, CFBC)**
  - Gheco One Power Plant, Thailand (660MW, 2011)
  - Safi Power Plant, Morocco (1,386MW, 2017)
  - Jimah East Power Plant, Malaysia (2,000MW, 2018)
  - Cirebon II Power Plant, Indonesia (1,000MW, 2020)
- Heavy Oil Power Generation (HOPP)**
  - Rabigh Power Plant, Saudi Arabia (2,800MW, 2012)
  - Jeddah South Power Plant, Saudi Arabia (2,640MW, 2016)
- Nuclear Power Plants (NPP)**
  - Barakah Nuclear Power Water Treatment, UAE (5,600MW, 2016)
- Combined Cycle Power Plants (CCPP)**
  - Mirfa Power Plant, UAE (1,600MW, 2017)
  - Takhiatash Power Plant, Uzbekistan (560MW, 2019)
  - Malacca Power Plant, Malaysia (2,242MW, 2020)

#### Technical Advisory

Providing diagnostics and solutions for fuel environmental systems and water treatment areas.

- \* Jorf Lasfar Power Plant, Morocco (700MW, 2018)
- \* Cirebon II Power Plant, Indonesia (1,000MW, 2019)
- \* Safi Power Plant, Morocco (1,200MW, 2023)

#### Power Plant Overhaul

Leveraging domestic achievements to perform overhauls at international power stations.

- \* Tanjung Jati Power Plant, Indonesia (1,320MW, 2016-2021)

#### Power Plant Operation and Maintenance (O&M)

Utilizing 30 years of operational expertise in coal handling and a multinational workforce to expand into international O&M services.

- \* Matbari Power Plant, Bangladesh (1,200MW, 2024)

## Adding 'Eco-Friendly' to Energy: Green Energy Plants, Solar Power, and Small-Scale Power brokerage Business, Energy Storage Systems (ESS) and Energy Service Companies (ESCO)

As the traditional energy industry using fossil fuels faces a global paradigm shift towards carbon neutrality to preserve clean atmospheric conditions, Korea Electric Power Industrial Development is actively pushing forward with eco-friendly energy projects to contribute to the transition to safe and clean energy. Based on our unique approach and technological prowess in energy, we aim to become a leader in the future energy industry, enhancing convenience of the people. We appreciate your continued interest and support.

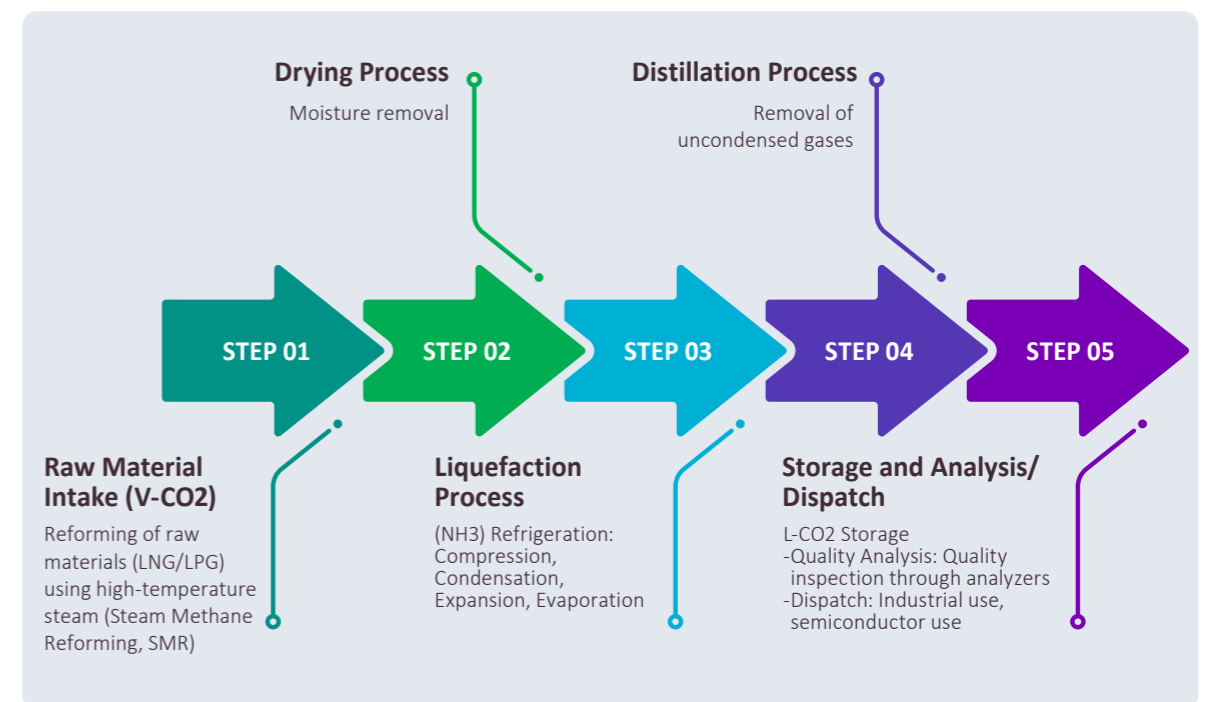
### Carbon-Free New Energy Sources

Korea Electric Power Industrial Development is expanding its business to carbon-free new energy sources to ensure sustainable growth. Since 2023, we have been performing commissioning of a hydrogen liquefaction plant and managing the operation of a liquefied carbon dioxide production plant, aligning with the transformative shifts in the energy industry paradigm.

### Green Energy Plant (Hydrogen/Ammonia) O&M Business

#### ► Commissioning and management services for carbon production facilities

- **Main tasks:** Operation of liquefied carbon dioxide production facilities (including routine maintenance), storage, dispatch, and management
- **Operating facilities:** Ulsan P5 Liquefied Carbon Dioxide Plant (located in Nam-gu, Ulsan) L-CO2 Manufacturing Process



## Solar Power Generation: Put 'Eco-Friendly' on Energy

Korea Electric Power Industrial Development is leveraging solar energy, an infinite resource, to provide eco-friendly energy solutions and contribute to the transition towards a carbon-neutral society. We are accelerating the deployment of clean energy through land and floating solar power distribution projects that efficiently utilize the nation's idle land and water surfaces.



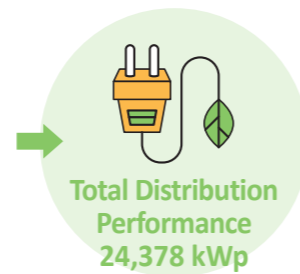
### Land-Based Solar Power Plants

Since constructing a 200 kW solar power plant in Gangjin County, Jeollanam-do in 2006, Korea Electric Power Industrial Development has built and operated its solar power plants, including the Korail Daejeon Solar (2,356 kW) and Haam Solar (999 kW). Leveraging the technical skills and construction capabilities gained from these projects, we actively contribute to expanding renewable energy across Korea by establishing various-sized solar power complexes nationwide.



### Floating solar power plants

Korea Electric Power Industrial Development is also actively engaged in floating solar power plants, utilizing idle water surfaces like reservoirs and dams. The floating solar power facilities we promote are approximately 20% more efficient than land-based solar installations and contribute to water quality improvement by reducing algae with their rotational motion.



### OUR PERFORMANCE Self-Operated Solar Power Plant Construction and Management

✔ Korail Daejeon Solar - 2,356kWp



✔ Haam Solar - 999kWp



✔ Gangjin Solar - 203kWp



### OUR PERFORMANCE Solar Power Plant Construction (Including Floating Solar Plants)

✔ Myeogu Floating Rotating Solar Power Plant - 2,995kWp



✔ Deokwoo Floating Rotating Solar Power Plant - 2,656kWp



✔ Onnuri Solar - 1,800kWp



✔ Baekyang SP Solar - 2,889kWp



✔ Gagok Solar - 591kWp



✔ Banhak Solar - 689kWp



✔ Urideul Solar - 496kWp



## Yeosu Industrial Complex Energy Self-Sufficiency Infrastructure Construction and Management Project

### Project Overview

- **Joint project Organizer:** Korea Industrial Complex Corporation (Overall: Ministry of Trade, Industry and Energy)
- **Joint project Content:** Creation of a Net-Zero Representative Industrial Complex, Construction of an Energy and Resource Recycling Platform
- **Project Details:** Construction and operation of a 7MW solar power facility

### Self-Consumption Type(Rooftop) Solar power plant: 4 MW



### Ground-mounted Solar power plant: 3 MW



## Enhancing Energy Efficiency with ESS, ESCO and Pioneering New Growth Sector

### OUR PERFORMANCE Key Performance of ESS

- ✓ Goseong Solar Power Plant, Gangwon Province
- ✓ Korea Hydro & Nuclear Power Headquarters, Gyeongju, North Gyeongsang
- ✓ Korea Environment Corporation, Yeongdeungpo, Seoul

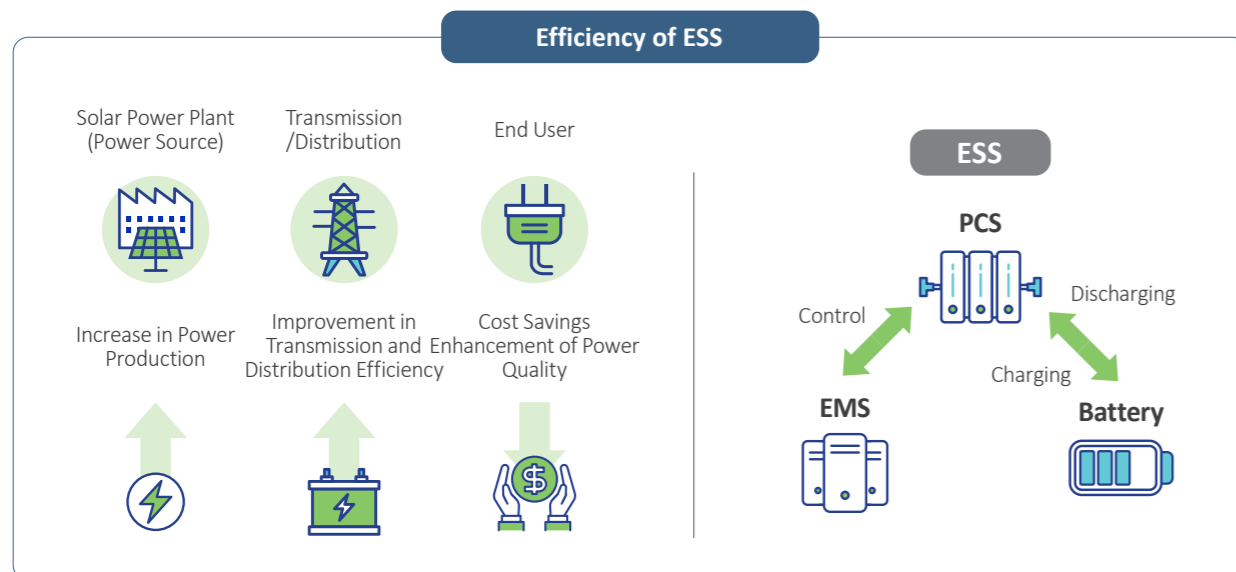


### Energy Storage Systems (ESS)

Since initiating the Gwangju Technopark ESS distribution project in 2012, Korea Electric Power Industrial Development has installed 176 MWh of ESS in public and private sectors, opening new horizons in the domestic energy industry. In 2017, we pioneered the first solar-linked ESS in Korea, providing customized solutions according to the scale of solar power facilities and enhancing the economic value of renewable energy.

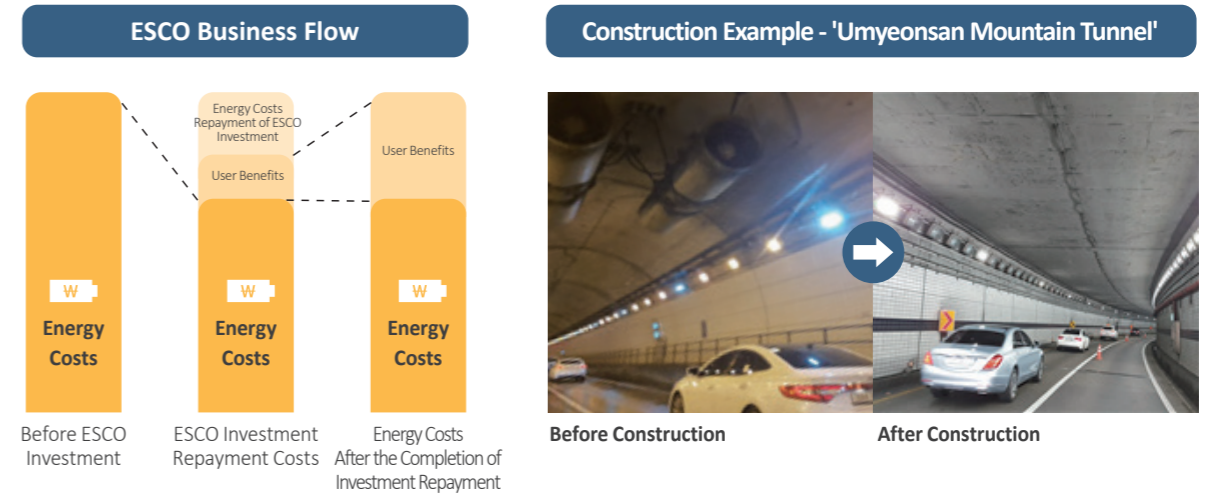
### Integrated ESS (KEPID-ESS-200)

The KEPID-ESS-200 integrates a battery, a PCS (Power Conversion System), and an EMS (Energy Management System) suitable for solar power installations under 100 kW. It stores and utilizes energy efficiently, featuring a transformerless PCS with over 97% efficiency to minimize power loss. Its unique insulation design maintains optimal operational conditions even in extreme weather. Additionally, it allows real-time management of the ESS system's charging and discharging data, operational status, and system health via mobile and PC.



### Energy Service Company (ESCO)

Korea Electric Power Industrial Development offers ESCO solutions for customers who want to save energy in residential and commercial settings but are concerned about high costs. We provide the expertise and initial capital, and the investment is recouped through energy savings generated by the upgraded facilities, allowing for efficient energy-saving equipment upgrades without significant financial burden.



### Maintenance of Solar and ESS Facilities

### OUR PERFORMANCE 7 locations, 20,326 MW (Solar), 825 MW (ESS)

- ✓ Routine Maintenance Inspections of Solar Facilities
- ✓ Boryeong Intake Channel Solar Facilities
- ✓ Solar-linked ESS Facilities

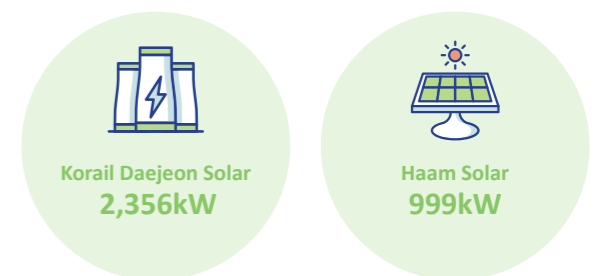


### Small-Scale Power brokerage business



This system facilitates the aggregation and market trading of electricity produced or stored from small-scale power resources, targeting facilities such as solar and wind installations, ESS, and electric vehicles, all under 20MW.

### OUR PERFORMANCE Entrusted Capacity:



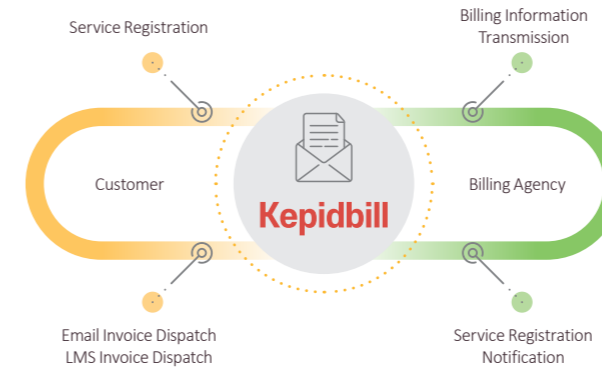
## Energy Meets Advanced Technology Internet Billing, Voice Apps, and Road Lighting Management Systems

### Operating a Corporate-affiliated Research Institute Specializing in High-tech Energy Industry

Korea Electric Power Industrial Development is at the forefront of integrating information and communication technology with the traditional energy sector through internet billing and voice app services. Through the operation of our corporate research institute, which serves as a hub for future knowledge industries, we are developing new technologies to create a more convenient energy world.

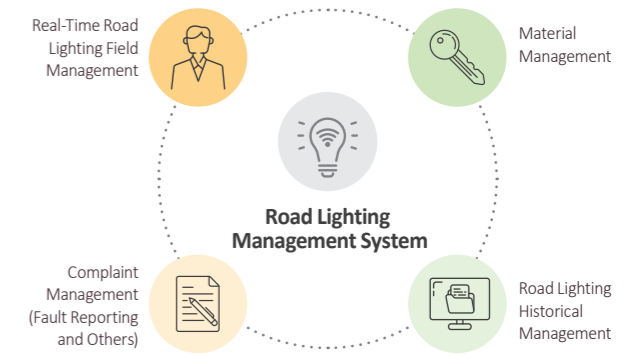
#### Internet Billing (Kepidbill) Business

We operate the Kepidbill internet billing service, which consolidates customer billing statements. This service allows customers to receive their electricity bills via email or text, enabling convenient payment without needing to visit a bank.



#### Local Government Road Lighting Management System

We employ an online system that integrates road lighting management data with a map server, transforming traditional offline maintenance tasks such as fault reporting, processing and work orders into more efficient and faster online processes.



#### Voice App (Voice Application) Business

Starting with voice-guided electric bill services for the elderly and visually impaired, Korea Electric Power Industrial Development is expanding its reach to various public information voice services. We currently provide voice guidance for crucial information from local governments via smartphone apps. This initiative helps bridge the information gap between generations and between disabled and non-disabled individuals, actively contributing to the prevention of social issues arising from information disparities.

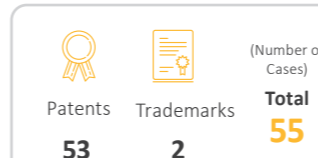


#### Operating a Corporate Research Institute

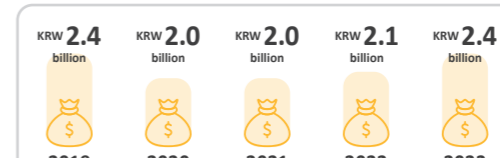
We operate a corporate research institute and technical training center to accumulate knowledge in our technical fields and derive new applications, securing high-value technological capabilities. We are involved in discovering various industry-centered intellectual properties and participating in government and private research and development projects.



#### Intellectual Property Holdings



#### R&D Investment Performance



#### R&D Achievements

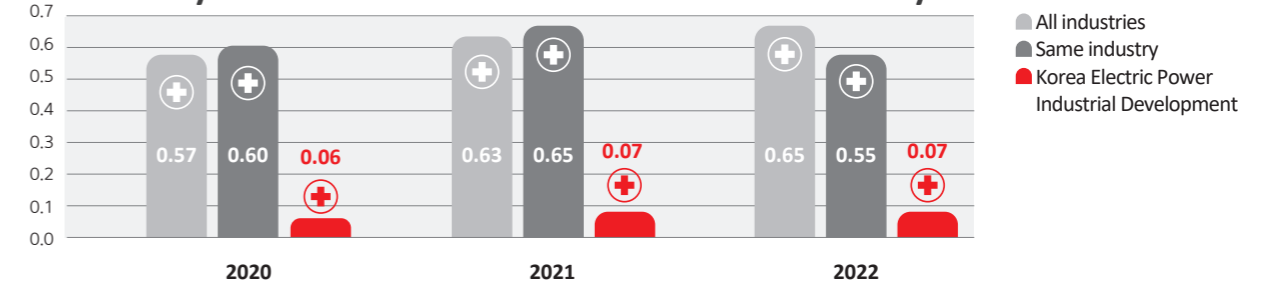


## Safety First

"Proactive Safety Management" involves seeking out the authentic voices of those on-site. Conducting the pre-task safety meeting, also known as toolbox meeting, is a critical step in ensuring the safety and well-being of workers

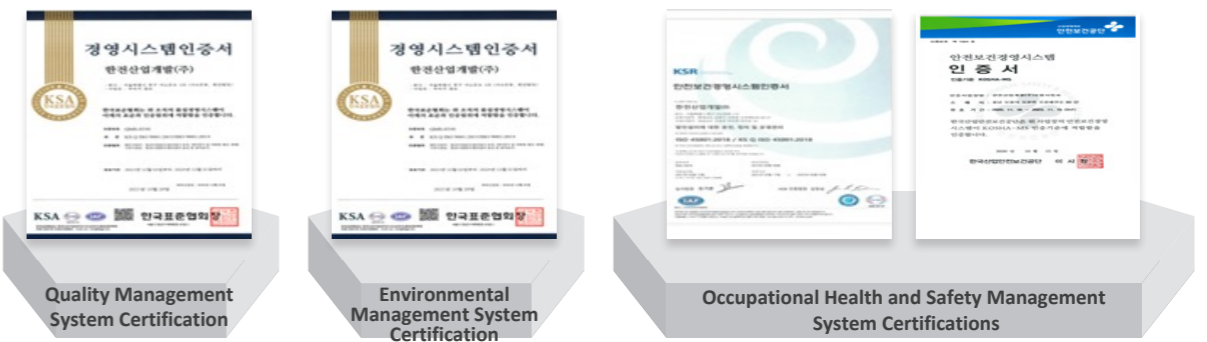


### Maintains a significantly lower industrial accident rate compared to the same industry - Industrial accident rates over the last three years



### First in the Domestic Power O&M Industry to Achieve Triple International Standard Certification

Simultaneously received certifications for ISO9001 (Quality Management), ISO14001 (Environmental Management), and ISO45001 (Occupational Health and Safety)



### Winner of the Excellent Activity Award in Pre-Task Safety Meetings (TBM)



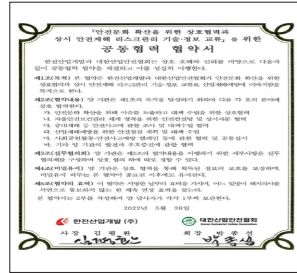
- Sponsor: The Ministry of Employment and Labor and the Korea Occupational Safety and Health Agency
- Content: This award recognizes outstanding pre-task safety meetings based on risk assessments at construction sites.

### Recipient of the Prime Minister's Commendation at the Safety Culture Awards in 2022

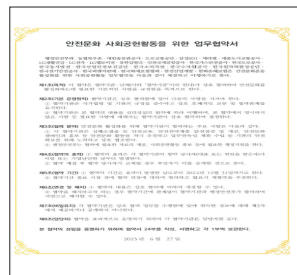


- Sponsor: The Ministry of Interior and Safety
- Content: This award honors our proactive efforts in promoting safety culture-related activities and contributing to the spread of safety culture. (Major achievements include establishing a safety-first corporate culture, creating a safe workplace, actively participating in government disaster and safety policies, and contributing to the community for the safety of local residents.)

### Efforts to Expand Safety Culture



- ▶ Memorandum of Understanding (MOU) for Cooperation in Spreading Safety Culture and Preventing Industrial Accidents
  - Partner: Korea Industrial Safety Association
  - Purpose: To contribute to the prevention of industrial accidents through mutual cooperation for the spread of safety culture. Continuous exchange of risk management techniques and information related to safety accidents.



- ▶ MOU for expanding safety culture and social contribution activity
  - Partner: The Ministry of the Interior and Safety
  - Purpose: To establish an organic collaboration system for joint safety culture activities and efficiently promote safety culture movements.



- ▶ Inked strengthened partnership with welfare centers to promote positive mental health for our employees
  - Partner: Regional Mental Health Welfare Centers
  - Purpose: To provide consultation and education on mental health and mental illnesses, refer screening candidates, and support medical expenses.

### Internal Safety Culture Enhancement Activities

- ▶ KEPID Safety & Health Award
  - Purpose: To reward achievements in safety activities and foster a company-wide voluntary participation and a safety-first atmosphere.
- ▶ Conference on excellence in process safety and hazard awareness (Education and Sharing)
- ▶ KEPID Occupational Health and Safety Exhibition and Quiz Contest
- ▶ Expansion of TBM Culture (Tool Box Meeting: Pre-task Safety Meetings)



TBM



Safety Pledge Meeting



Proactive Safety Management



Safety Commitment Rally

## Korea Electric Power Industrial Development is spearheading the future of the energy industry as a pioneering company in ESG management.

Our commitment to transparent corporate management ensures sustainable growth. Today's Korea Electric Power Industrial Development, recognized as a reliable partner in the energy industry, is a precious achievement made by all our 3,000 employees.



Since joining the United Nations Global Compact in 2007, Korea Electric Power Industrial Development has been adhering to the ten principles of corporate social responsibility based on international agreements in four areas: human rights, labor, environment, and anti-corruption. We publish annual reports on these activities and register them with the UNGC headquarters in New York, sharing them with various stakeholders.

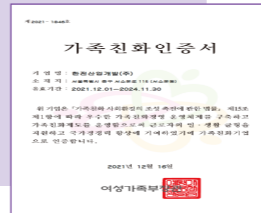


#### 2022 Korea CEO Hall of Fame Award

**Organized by:** The Institute for Industrial Policy Studies  
**Sponsored by:** The Ministry of Trade, Industry and Energy, The Ministry of SMEs and Startups, aSSIST, JoongAng Ilbo  
**Award Category:** ESG-Environmental Management

#### 2023 Mid-sized Business ESG Management Expansion Declaration Ceremony (Hosted by the Federation of Middle Market Enterprises of Korea)

**Declaration Highlights**  
 (Environmental) Realization of Carbon Neutrality  
 (Social Responsibility) Creation of Social Value  
 (Governance) Practice of Fair and Transparent Ethical Management



#### Family-Friendly Company Certification

**Organized by:** The Ministry of Gender Equality and Family  
**Renewed twice (2016 to present)**

#### 2023 Korea Sharing Volunteer Awards

**Hosted/Organized by:** UN Volunteers Association Korea / Korea Volunteer Award Organizing Committee  
**Award Categories:** Korea Volunteer Award, Mayor of Seoul Award, Beautiful Great Korean Award



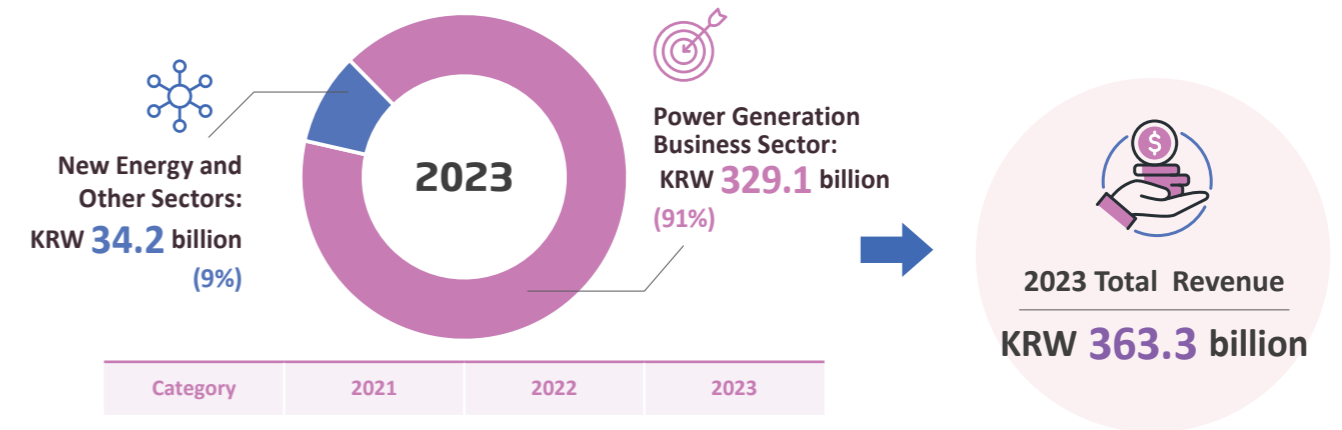
## Korea Electric Power Industrial Development is committed to ethical management and fulfilling its social responsibilities.



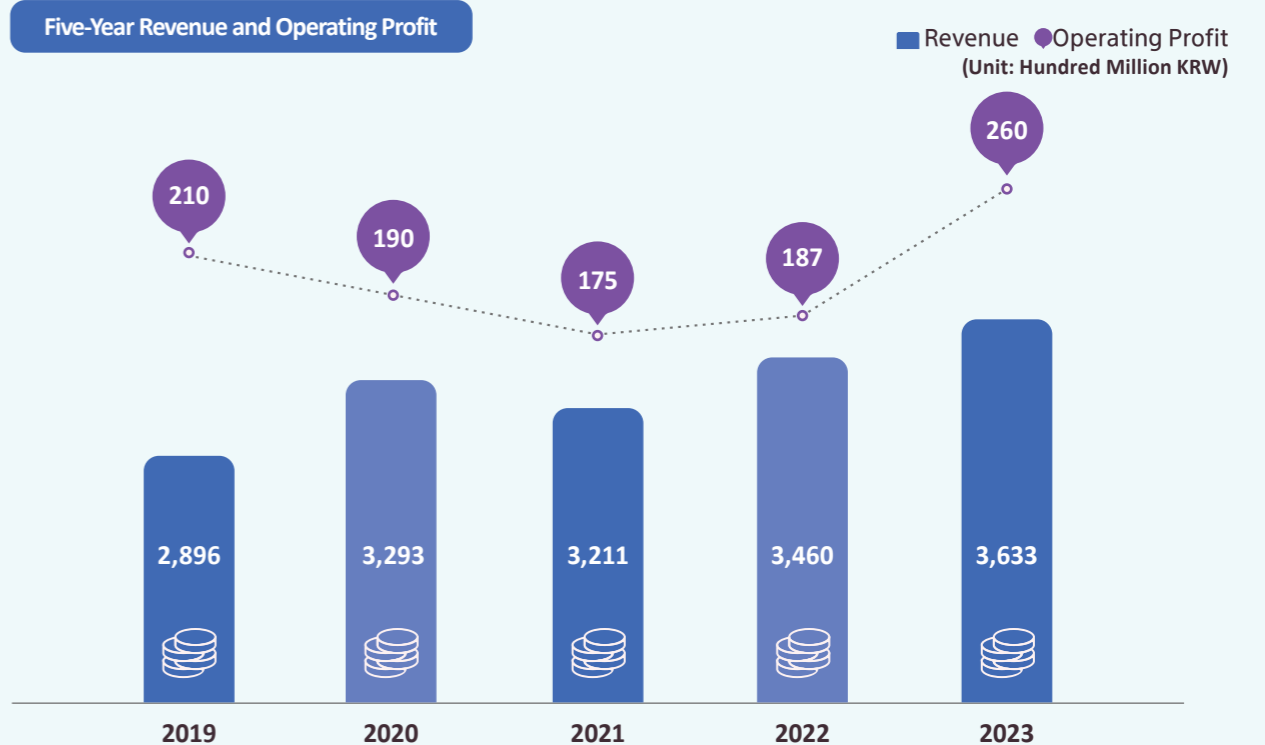
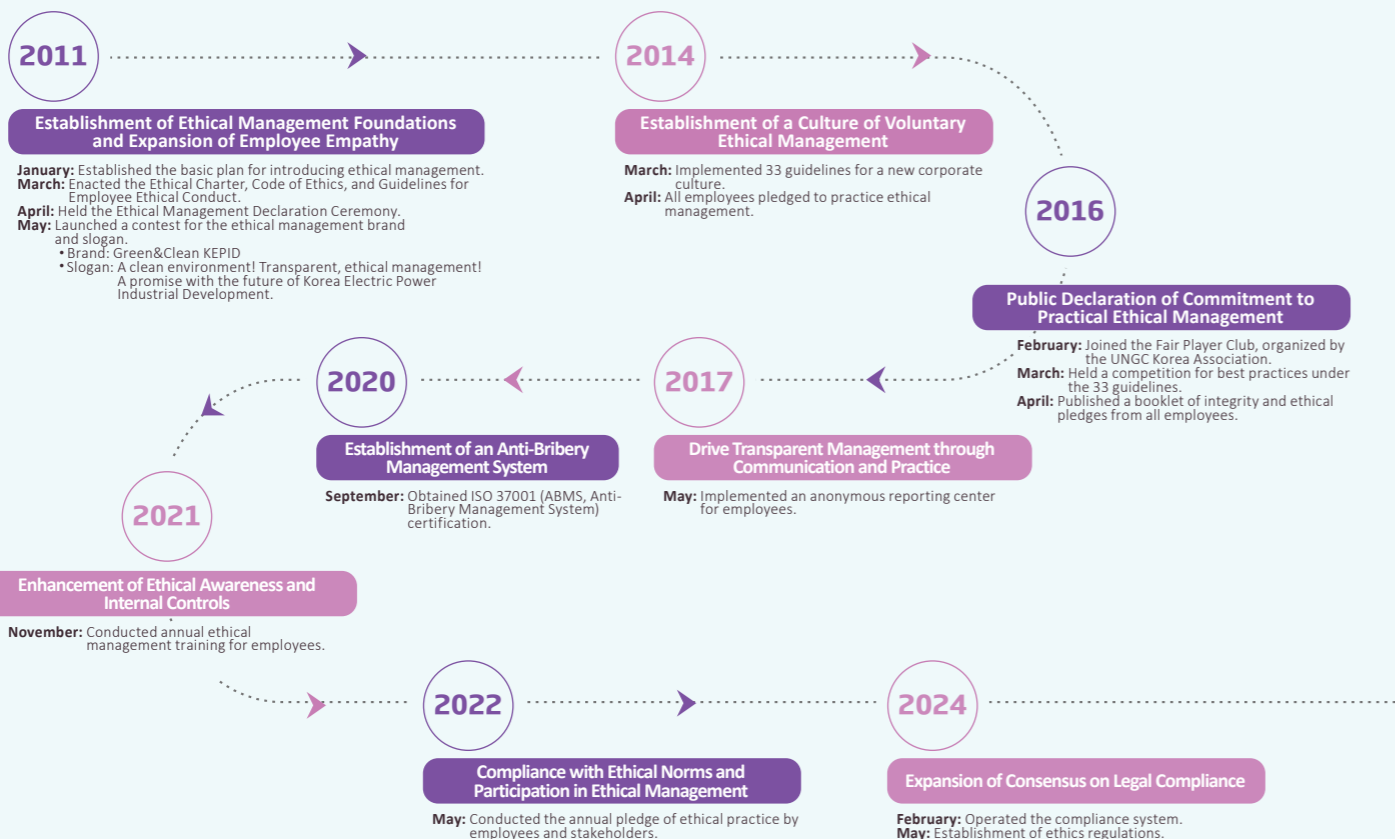
## Korea Electric Power Industrial Development commits to transparent corporate management.

- Publicly listed on the Korea Stock Exchange (KOSPI) through an Initial Public Offering (IPO).
- Complies with Korean-adopted International Financial Reporting Standards (K-IFRS).
- Achieved a corporate rating of AA- for ten consecutive years by ECREDIBLE
- Pursues financial stability based on a stable revenue structure.

**AA-**



Category	2021	2022	2023
Current Ratio (%)	167.52	174.29	161.09
Debt Ratio (%)	91.68	64.45	96.81



**Resource Recycling-Linked Social Contribution Activities**

**-Activity Details:** Engaging in resource recycling activities using eco-friendly plant kits made from coffee grounds (produced by severely disabled individuals), fostering carbon neutrality practices, and supporting job creation and income security for disabled people (utilizing the Love Fund and matching grants).



**'Love Food Car' Volunteering**

**-Target:** 300 solitary senior citizens living in cramped housing in Namdaemun  
**-Content:** Helped with meal prep, packaging, and delivery to neighborhoods in need. Donated to the sponsorship fund as well.



**Year-End Heart-Sharing Social Contribution Activities**

**-Target:** About 100 individuals, including 30 from Yaksoo Senior Welfare Center, 20 from Jung-gu Dementia Care Center, and 50 from Sindang Dream Community Children's Center.  
**-Content:** Donated food and sowed seeds indoors as growing plants becomes a joint activity that fosters companionship and has a positive impact on their mental health.



**Family-Friendly Workplace Education**

**-Target:** Head office employees  
**-Content:** Education on expressing negative emotions appropriately and responding correctly.  
**-Institution:** Seoul-Junggu Healthy Family Support Center



**Mental Health Promotion Program**

**-Target:** Head office employees  
**-Content:** Education on stress management for workers and effective coping methods. Self-assessment for stress, depression, and anxiety.  
**-Institution:** Jung-gu Seoul Mental Health Welfare Center



**Creating a New History at Korea Electric Power Industrial Development**

Reflecting on the illuminating journey of Korea Electric Power Industrial Development towards building a happy society. Tirelessly advancing, we now stride toward our new dream of becoming 'the protagonist in the future energy sector.'

April 1990	Established Hansung Industrial Co., Ltd. (100% funded by Korea Electric Power Corporation).
August 1992	Began operations of coal handling systems in power plants.
October 1994	Launched an electric metering business.
February 1996	Changed the company name to Korea Electric Power Industrial Development Co., Ltd.
January 1998	Started operation and maintenance of desulfurization system and ash handling system.
March 2003	Conducted privatization (Korea Freedom Federation 51%, Korea Electric Power Corporation 49%).
November 2005	Registered as a renewable energy specialist company (Ministry of Trade, Industry and Energy, 2005-12).
February 2008	Secured the first overseas power plant commissioning project in Jalsuguda, India.
November 2010	Commenced operation and maintenance of nuclear power water treatment system.
December 2010	Listed on the Korea Exchange (KOSPI).
October 2015	Received the first order for maintenance of turbine and boiler system at GS Donghae Electric Power.
July 2016	Entered the overseas nuclear power water treatment commissioning business (UAE BNPP Units 1 and 2).
December 2016	Awarded the project to construct ESS-linked solar power plants for the first time in the industry.
November 2018	Distributed the integrated ESS (KEPID-ESS-200) in the industry.
April 2019	Concluded the electric metering business (contracted in 2015, 2016).
October 2019	Received Health and Welfare Minister's commendation at the "2019 Korea Sharing National Award."
December 2019	Awarded SMEs and Startups Minister's commendation at the "7th Beloved Company of Korea"
January 2020	Concluded the electric metering business (2017 contract).
January 2020	Won the contract to operate the environmental system at Goseong Hai Thermal Power Plant.
April 2020	First in the domestic thermal power O&M industry to receive 'Outstanding Invention Reward Enterprise Certification.'
February 2021	Awarded Trade, Industry and Energy Minister's commendation for Contributions to the Development of the Engineering Industry.
November 2021	Selected as a "2021 Leisure-friendly Excellent Enterprise" (Ministry of Culture, Sports and Tourism).
December 2021	Re-accredited as a "Family-Friendly Excellent Enterprise" (Ministry of Gender Equality and Family).
March 2022	Secured the O&M project for the Kori Nuclear Power water treatment systems.
April 2022	Selected again as an 'Outstanding Invention Reward Enterprise' (Korean Intellectual Property Office).
November 2022	Awarded in the Environmental Management Section of the "Korea CEO Hall of Fame" (Institute for Industrial Policy Studies).
December 2022	Received the Prime Minister's Award at the "2022 Safety Culture Awards" (Ministry of the Interior and Safety).
March 2023	Secured the contract for operation and maintenance environmental system at GS Donghae Electric Power.
July 2023	Awarded the maintenance work contract for Hyundai Green Power Units 1-8 (electrical sector).
August 2023	Secured the contract for the operation services of the Ulsan P5 Liquefied Carbon Dioxide Plant.
December 2023	Awarded the \$3 million Export Tower on the "60th Trade Day" (Ministry of Trade, Industry and Energy).
December 2023	Signed a technical agreement with Doosan Enerbility Co., Ltd. in the power generation sector.