

## KOREA HYDRO &amp; NUCLEAR POWER CO.,LTD



KHNP is Korea's largest power generation company, producing about 30% of Korea's electricity supply through hydro power generation, pumped-storage power generation, and renewable energy as well as nuclear power generation. As the global top 3 nuclear power company in the world, KHNP has been continuously building 34 units of nuclear power plants in Korea and abroad since the 1970s. Currently, KHNP is operating 24 units of nuclear power plants in Korea and diversifying our energy portfolio through pumped storage and renewables such as solar, wind and fuel cell.

## Major Role & Business Area



### Global Top3 Nuclear Power Company

KHNP is currently operating 24 nuclear power units, producing over 21,642MWe of power. The total installed capacity of nuclear power plants is about 23,250MW, serving as the engine for domestic power generation. KHNP is currently leading the projects of constructing 6 units of nuclear power plants in Korea and the UAE. Barakah Unit 2 in the UAE successfully entered commercial operation in March 2022 on time and within budget. In addition, KHNP is responsible for the procurement of all components (e.g. pumps, valves, transformers) excluding major equipment.

### Expected Partnership

- ▶ Suppliers in the Middle Europe who want to provide their services and products to KHNP
- ▶ All companies who are interested in cooperation with KHNP
- ▶ Manufacturers and service providers who want to participate in the NPP projects

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## KHNP-KNP CO.,LTD



KHNP-KNP is a company that was jointly developed by Korea Hydro & Nuclear Power Co., Ltd. (KHNP) and 41 Korean power plant equipment industry to cooperate with global nuclear energy partners with the Korean power plant equipment, inspection and maintenance services suppliers which have 40-year-old competitive edge to overseas nuclear industry. We serve at once as a connector that links the solid supply chain of Korea and global nuclear partners and as a coordinator that maximizes value by coordinating mutual needs.

## Major Role & Business Area



### Role of Bridge between Korean Power Industry Supply Chain and Overseas Nuclear Industry Partners

#### Main Business Areas

- Represent of Korean supply chain including mechanical, electrical, I&C manufacturers of nuclear industry so that we support and connect between Korean Small and medium-sized enterprises and overseas nuclear industry
- Support for JV establishment, technology cooperation and localization with Korean companies for the NPP project in the Middle Europe

### Expected Partnership

- ▶ Companies who are interested in cooperation with Korean supply chain especially small and medium-sized enterprises for the Polish NPP construction project
- ▶ Reliable partners for power plant equipment industry in the Middle Europe

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# KEPCO ENGINEERING & CONSTRUCTION Co.,Inc.

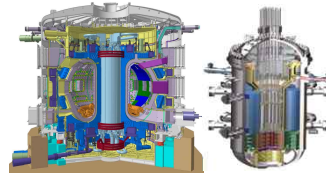
KEPCO E&C has Architect Engineering (AE) and Nuclear Steam Supply System (NSSS) design technology and developed Korean standard nuclear power plant OPR1000 (Optimized Power Reactor) and APR1400 (Advanced Power Reactor). APR1400 for the Polish new NPP is based on the proven technology reflecting the operating and construction experiences. The competitive landscape of the energy mark is changing rapidly due to the transition of a new climate system and KEPCO E&C strives to keep up the trends by developing new technologies and renewable energy sources.

## Major Role & Business Area



### Nuclear Power

- Nuclear Steam Supply System (NSSS)
- Architect Engineering (AE)
- Life-cycle Solution (O&M)
- Decommissioning
- Configuration Management



### New

- Small Modular Reactor (SMR)
- International Thermal-nuclear Experimental Reactor (ITER)
- Cyber Security
- Digital Power Plant
- Spent Fuel Interim Storage



### Renewable

- Wind Power EPCM
- Solar Power EPCM
- Fuel Cell Power Plant
- Power to Gas Tech Integrated with Renewable Energy
- Offshore Wind Farm

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### Expected Partnership

- ▶ Partners in the Middle Europe who are interested in KEPCO E&C's business area
- ▶ Cooperation in the field of NPP engineering (e.g. software development for I&C systems, etc.)
- ▶ Cooperation to develop NPP decommissioning technology or implement projects
- ▶ Cooperation in the field of spent fuel facility (e.g. interim spent fuel facility engineering)

# DOOSAN ENERBILITY CO.,LTD.

**DOOSAN**

Doosan Enerbility's vision, "Global Leader in Power & Water", expresses the company's willpower to become an enterprise that leads the global power generation and water markets. Founded in 1962, Doosan secured global top-tier competitiveness and continued to achieve sustainable growth in the fields on nuclear power plants. With the Infrastructure Support Business (ISB), Doosan constantly pursues change and innovation, and improve the quality of life for people and communities around the world.

## Major Role & Business Area



### Major Equipment Supplier for Nuclear Power Plants

Doosan Enerbility supplies the major equipment of Nuclear Island (NI) and Turbine Island (TI), and will jointly participate in the construction of nuclear power plant with Daewoo E&C.

Major equipment supplied by Doosan is largely classified into Nuclear Island's Nuclear Steam Supply System (NSSS), Man Machine Interface System (MMIS) and Turbine Island's Turbine and Generator.

### Expected Partnership

- ▶ All companies who are interested in cooperation with Doosan
- ▶ Mechanical and I&C component manufacturers who want to participate in the NPP projects
- ▶ Mechanical and I&C service providers who want to participate in the NPP projects
- ▶ Cooperation for major equipment of NI and TI in the nuclear industry

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## DAEWOO ENGINEERING & CONSTRUCTION CO.,LTD



Since its establishment in 1973, Daewoo E&C has taken on challenges with the vision of adding new values to our lives. As a company pursuing a better future for all, we will expand our businesses bringing changes to more regions throughout the world. Starting with the construction of heavy water reactor in 1992 to the recent construction of OPR1000, a Korean standard nuclear reactor, Daewoo E&C has been a driving force for the national development by leading the progress of nuclear power plants in Korea.

### Major Role & Business Area



#### Total Solution Provider for Nuclear Power Plant Construction

Daewoo E&C is the first Korean construction company that exported its construction technology of NPPs to China and Taiwan. By the completion of the Jordan Research and Training Reactor on October, 2018 in terms of EPC construction, Daewoo E&C successfully exported a nuclear power system on turnkey basis for the first time in 50 years of history of the Korean nuclear industry and has well recognized for its technical skills by the world.

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#### Expected Partnership

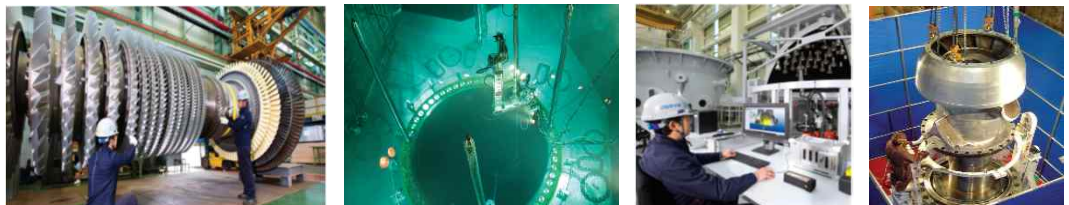
- ▶ All companies who are interested in cooperation with Daewoo E&C
- ▶ Competitive companies for power plant construction in the Middle Europe
- ▶ Cooperation for construction work labor, material and equipment

## KEPCO PLANT SERVICE & ENGINEERING CO.,LTD



KEPCO KPS, Global No.1 Grand Platform Corporation in Power Facility Maintenance Industry, is responsible for providing the maintenance service for South Korea's electric power industry, a core engine of national economic development. KEPCO KPS provides total plant solutions for the diagnosis and maintenance of domestic and international power generating systems, improvement of power plant performance, promotion of the new and renewable energy business, and the supply of power transmission systems.

### Major Role & Business Area



#### Total Plant Maintenance Service Provider

Business Areas for Nuclear, Thermal and Hydro Power Plants

- Commissioning Services
- Routine Maintenance (Preventive, Predictive and Corrective Maintenance)
- Planned Outage Services

Business Areas for Nuclear Power Plants

- Refueling Service / Diagnosis and Maintenance of Nuclear Fuel Assemblies
- Inspection and Repair of NSSS(Reactor, Steam Generator, Pressurizer, etc.)
- Turbine Generator Overhaul / Electrical and I&C Equipment Check

#### Expected Partnership

- ▶ Reliable partners for power plant maintenance services in the Middle Europe
- ▶ Cooperation for maintenance work and commissioning service in the nuclear industry

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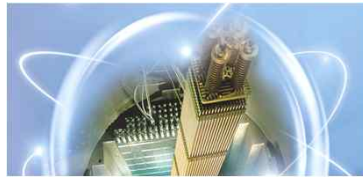
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Founded in 1982 with a goal of nuclear fuel technology self-reliance and localization of the technology, KEPCO NF began to produce PWR fuel in 1989 for the first time in Korea. Presently, KEPCO NF supplies advanced nuclear fuel with high performance required for all nuclear power plants in Korea and the UAE, and it has maintained 100% on-time delivery performance with sufficient production capacity for customers.

## Major Role & Business Area



### Global Leading Nuclear Energy Partner

KEPCO NF supplies nuclear fuels for PWR and PHWR to 25 units operating in Korea and UAE, and KEPCO NF is contracted to supply nuclear fuels to 7 units under construction. Besides, KEPCO NF performs the reactor core design & safety analysis for initial & reload core and fuel maintenance & service. All out efforts are put into R&D to advance its own patented technologies for development of high performance fuel and code system for core design & safety analysis, thus enhancing operational performance and economic efficiency of nuclear power plants.

### Expected Partnership

- ▶ Suppliers interested in nuclear fuel components / Radioactive Work / Transportation
- ▶ Establishment of a nuclear fuel fabrication plant in Poland
- ▶ Periodic Technical Information Exchange Meeting for Nuclear Fuel Technology
- ▶ Cooperation on the development of joint market related to fuel engineering and service

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