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Ministry of Climate, Energy and Environment to Hold “2025 Power System Policy Sharing Meeting”

- Commitment to fully push forward power system innovation toward achieving 100 GW of renewable energy

The Ministry of Climate, Energy and Environment (MCEE, Minister Kim Sunghwan) announced that it will hold the “2025 Power System Policy Sharing Meeting” on December 23 at the KEPCO Art Center (Seocho-gu, Seoul) to review progress in implementing “Building Energy Expressways, the Arteries of Economic Growth,” a key national policy task for responding to the climate crisis.

Approximately 50 people will attend the event, including representatives from Korea Electric Power Corporation (KEPCO), the Korea Power Exchange (KPX), local governments, and individuals recognized for their contributions to the power system sector.

The MCEE and KEPCO have pursued measures such as expanding the disclosure of power system information and improving connection procedures to address capacity shortages raised during the rollout and expansion of renewable energy, and have also established operating systems and an integrated control framework to ensure stable power system operation.

To achieve the goal of 100 GW of renewable energy by 2030, KEPCO has expanded the disclosure of power system capacity margin information from two years (the current year and six years ahead) to seven years (the current year and one to six years ahead), thereby encouraging new power generation facilities to enter areas with available capacity.

In addition, by strengthening oversight of speculative project developers that secure grid capacity without proceeding with power generation projects, approximately 5 GW of available power system connection capacity has been secured, and there are plans to continue supporting additional renewable energy connections through the expansion of the flexible connection system.*

In addition, to respond to the climate crisis and the expansion of renewable energy, plans are in place to enhance the stability and efficiency of the power system by fully rolling out initiatives such as the operation of a “next-generation distribution network management system*” to improve grid operation efficiency and a “real-time integrated control system**” to build an AI-based intelligent power grid.

In addition, steps are being taken to promote the expansion of necessary infrastructure, such as the construction of a West Coast subsea high-voltage direct current (HVDC***) transmission line, by leveraging the National Power Grid Act (effective September 2025) and by making efforts to secure public acceptance.

* (Next-generation distribution network management system) A system that monitors and controls power flows, generation output, and electricity demand across the distribution network in real time.

** (Real-time integrated control system) An integrated, real-time control of generation output information through interconnection of the power grid systems between the KPX (transmission) and KEPCO (distribution).

*** (HVDC) A technology that converts alternating current to direct current to reduce transmission losses over long distances.

Meanwhile, the event will also include an awards ceremony recognizing individuals who have made significant contributions to the development of the power system.

Lee Won-ju, Deputy Minister for Energy Transition Policy Office at the MCEE, stated, “Responding to the climate crisis is a core national priority of the government, and innovation of the power system to expand renewable energy connections is no longer a choice but a necessity.” He added, “We will transition to a renewable energy-tailored power grid system and establish a stable and sustainable foundation for electricity supply.”