

보도시점 2026. 2. 23.(월) 12:00 (화요일 조간) 배포 2026. 2. 20.(금)

Power Grid Innovation Task Force Launched to Power the 100 GW Renewable Energy Era

- Pursuing the identification of innovation tasks across all areas, including power grid systems, to enhance renewable energy accommodation capacity

A comprehensive power grid innovation plan to accommodate 100 GW of renewable energy by 2030 will be established by the first half of 2026.

The Ministry of Climate, Energy and Environment (MCEE, Minister Kim Sunghwan) announced that it will hold the launch meeting of the “Power Grid Innovation Task Force (TF)” on February 24 at Seoul Biz Center Branch No. 5 (located in Yongsan-gu, Seoul) to usher in the era of 100 GW of renewable energy.

The government is pursuing various policies to accelerate the deployment of renewable energy, including building locally produced and locally consumed distributed power grids and reinforcing interregional transmission lines. However, as the construction of new transmission lines requires a considerable amount of time, innovative measures across all areas of the power grid system, institutions, operations, and construction, are necessary to pave the way for the era of 100 GW of renewable energy by 2030.

First, in the institutional area, the government plans to prepare: △ grid maps to facilitate region-specific deployment of renewable energy in

consideration of grid conditions; measures to revitalize the planned siting system for the rapid deployment of renewable energy in grid-available areas such as the Seoul metropolitan area; improvements to the current first-come, first-served grid connection system; utilization of connection lines from decommissioned coal-fired power plants; and strategies for establishing shared offshore wind grid connection infrastructure.

In the operational area, the government will prepare measures to enhance the utilization of the existing power grid. These will focus on expanding flexible connections while maintaining grid stability, and promoting “Non-Wires Alternatives (NWAs)*,” which can increase the grid’s capacity to accommodate renewable energy such as solar power without constructing new transmission infrastructure.

* Non-Wires Alternatives (NWAs): power grid investments that utilize non-traditional transmission and distribution solutions (such as energy storage systems (ESS)) to defer or avoid expansion of transmission and distribution networks.

Lastly, in the construction sector, the government plans to prepare measures to ensure the timely development of the power grid. These measures include diversifying construction methods to respond to the recent surge in grid construction volume; and enhancing community acceptance, such as supporting solar power projects for residents along national backbone transmission routes.

To this end, the MCEE will establish a “Power Grid Innovation Task Force (TF),” comprising Korea Electric Power Corporation, the Korea Power Exchange, and external experts, to identify key initiatives for the structural innovation of the power grid.

Lee Jae-sik, Director General for Power Grid System Policy Bureau at the MCEE, stated, “Expanding renewable energy capacity to 100 GW by 2030 is a key government priority that supports carbon neutrality and the

competitiveness of advanced industries.” He added, “We will swiftly establish innovative power grid systems to support the stable expansion of renewable energy.”

붙임 전력계통 혁신대책 전담반(TF) 출범회의 계획. 끝.

담당 부서	기후에너지환경부 전력망정책과	책임자	과 장	강경택 (044-203-5120)
		담당자	사무관	장수연 (044-203-5118)



붙임

전력계통 혁신대책 전담반(TF) 출범회의 계획

☐ 일 시 : '26. 2. 24.(화) 14:00~15:30

☐ 장 소 : 서울 비즈센터 5호점

☐ 참석대상

- 기후부 : 전력망정책관, 전력망정책과장, 담당사무관 등
- 한 전 : 전력계통부사장, 송변전건설단장, 계통기획처장, 배전계획처장, 송변전운영처장, 신송전개발처장, 계통기술실장 등
- 거래소 : 계통부이사장, 계통혁신처장 등
- 전문가 : 인하대 원동준 교수, 광운대 송승호 교수, 건국대 박종배 교수

☐ 논의내용

- 국내 전력계통의 현황 및 한계점 진단
- 제도개선 필요사항 등 전문가 의견 수렴
- 향후 추진 방향 논의 및 중점 핵심과제 선정

□ 회의일정

시 간	내 용	비 고
14:00 ~ 14:05	· 인사말씀	전력망정책관
14:05 ~ 14:20	· 전력계통 혁신대책 안내 및 운영계획 · 국내 전력계통의 현황 및 한계점 발표	담당 사무관
14:20 ~ 15:00	· 제도개선 필요사항 등 전문가 의견 수렴	전문가
15:00 ~ 15:30	· 향후 추진 방향 논의 및 중점 핵심과제 선정 · 추가 검토사항 및 향후 일정 논의	참석자 전원