KEPCO News

Grid Connection Succeeded on Barakah Nuclear Power Plant Unit 2

- Contributing to the stable clean electricity supply in the UAE together with Unit 1 being in commercial operation

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□ Barakah NPP Unit 2 has been successfully connected to the UAE grid, as announced on 14 September 2021 by Korea Electric Power Corporation (KEPCO), the prime contractor and joint venture partner, and Emirates Nuclear Energy Corporation (ENEC), the project owner.

○ Connecting to the grid means delivering electricity produced from the nuclear power plants to households and businesses. This connection to the grid made possible for Unit 2, along with Unit 1 that started its commercial operation last April, to supply sustainable electricity to the UAE.

○ The Unit 2 grid connection was achieved just over two weeks after reaching initial criticality, utilizing the lessons learned from Unit 1, and the Shin Kori 3 & 4 plants in Korea, the reference plants for Barakah.

○ Barakah NPP Unit 2 is scheduled to commence commercial operation in the coming months, after going through commissioning steps such as Power Ascension Test and Performance Test.

□ A week before achieving the milestone, Seung-il Cheong, CEO of KEPCO, visited the Barakah NPP site with other Team Korea leaders from KEPCO E&C, KEPCO KPS, KEPCO NF, and KEPCO KDN to support the successful power ascension test of Unit 2 and commissioning of Units 3&4, making a commitment to continue cooperating closely with the owner and the subcontractors towards Substantial Completion of the subsequent units.

□ Unit 3 is now undergoing remaining commissioning tests to complete system turnover for operations. Unit 4 is currently preparing for the Hot Functional Test.

- Thanks to the Unit 2 grid connection, the UAE was able to take a step forward towards achieving its goal of expanding clean energy nation-wide through the simultaneous operation of the two units. This also has served as an opportunity for Korea and the UAE to build on the strong foundation for bilateral cooperation in the energy sector.