

## South Korea bess units

Why is South Korea implementing a Bess frequency regulation project?

South Korea is in the midst of the world's largest BESS frequency regulation project. The target is to install 500MW by 2017. In addition to enhancing the efficiency of the grid, installing BESS capacity will reduce KEPCO's need for readily available spinning reserve capacity.

What is the largest Bess system in the world?

At 24MW/9MWh, one is the largest such system installed in the world to date. A second 16MW/6MWh BESS is up and running as well, while a third 16MW/5MWh lithium titanate oxide (LTO) system was deployed last August, bringing KEPCO's installed BESS capacity to 56MW.

How much money will Kokam Bess save?

Estimated annual savings for the three Kokam BESS come in at around \$13 million. Over their life, they're expected to save three times more than the total purchase price. Also of significance, substituting BESS for fossil fuel power will reduce KEPCO's greenhouse gas emissions.

BESS (Battery energy storage system) o Korea Hydro & Nuclear Power, a subsidiary of KEPCO, owns all PSH plants, Utility-scale storage option o Larger role in providing power system flexibility

The Uiryeong Substation - BESS is a 24,000kW energy storage project located in Daeui-Myoen, Uiryeong-Gun, South Gyeongsang, South Korea. The electro-chemical battery energy storage project uses lithium-ion as its storage technology.

The solicitation will seek battery energy storage system (BESS) resources totalling 65MW output and 260MWh. Projects eligible for bids will be of 4-hours or more duration, and will receive 15-year long-term contracts.

South Korean battery company Kokam has been selected to provide photovoltaic-connected battery energy storage systems for two projects in the country. Kokam will deploy its high energy lithium nickel manganese cobalt oxide (HE NMC) battery technology for the projects, which total 40 megawatt-hours (MWh) of BESS capacity.

The South Korean Battery Energy Storage System (BESS) market is anticipated to expand significantly between 2022 and 2027, with a compound annual growth rate (CAGR) of 29.6%.

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