

The Energy Storage System produced by NEC Energy Solutions

Recently renewable energy power generation is growing and spreading as part of efforts to protect the environment and realize a low-carbon society. Since power generated from renewable energy sources fluctuates significantly depending on weather conditions, there has been an issue with making energy use efficient and stabilizing the electricity grid. NEC is meeting this challenge by introducing an energy storage system manufactured by its energy-related US subsidiary, NEC Energy Solutions, Inc. The system adjusts the demand and supply balance of electric power and maintains electricity quality such as frequency and voltage across the grid.

[Main installations in FY2019/03]

- We installed a 9 MW energy storage system at the Port of Tilbury, a major port in London. The installation is integrated with an existing renewable generation system to help increase the efficiency of electricity usage by the Port of Tilbury, which is the sole consumer.

- NEC Energy Solutions supplied a medium-size energy storage system to Brazil's largest energy distributor, Neoenergia S.A. The system was installed on the island of Fernando de Noronha, a world heritage site located in Brazil. It has enabled stable and highly efficient supply of energy generated by solar power, which generates a fluctuating supply according to weather conditions. As the system replaces existing diesel powered generation, it will contribute to environmental preservation.



Fernando de Noronha island

In February 2019, NEC released a medium-size energy store battery system for self-contained installations. The system aims to optimize the demand and supply balance in factories and industrial facilities and provide value in "adaptation" countermeasures against earthquakes, flooding, and other natural disasters, which have been increasing in recent years.

Looking ahead, we will continue to contribute to reducing CO2 emissions through the energy storage system business, and promote initiatives to deal with climate change.



Medium-size self-contained energy storage battery system