

# Oslo distributed power station energy storage configuration





## Overview

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How does a distribution network use energy storage devices?

Case4: The distribution network invests in the energy storage device, which is configured in the DER node to assist in improving the level of renewable energy consumption. The energy storage device can only obtain power from the DER and supply power to the distribution network but cannot purchase power from it.

How does a distributed energy storage service work?

The energy storage service is charged based on the power consumed. Following the use of the service, the distributed energy storage unit provides some of the power as stipulated in the contract, while the remaining power is procured from the DNO. 
$$(8) \min C_2 = \sum_{i \in N} n_i \beta_{sale} P_{EC, i}(t) + c_{grid} (P_{load, i}(t) - P_{EC, i}(t))$$
 3.4.

What is the rational planning of energy storage system?

The rational planning of an energy storage system can realize full utilization of energy and reduce the reserve capacity of a distribution network, bringing the large-scale convergence effect of distributed energy storage and improving the power supply security and operation efficiency of a renewable energy power system [11, 12, 13].

What are the application scenarios of distributed energy storage?

As mentioned above, distributed energy storage has its corresponding application scenarios in each part of a power system, including source, network and load. In different application scenarios, the capacity determination, location selection and coordinated operation of energy storage have different technical indicators or economic considerations.



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