

# South Ossetia Liquid Flow Energy Storage Peaking Power Station





## Overview

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What time does the energy storage power station operate?

During the three time periods of 03:00–08:00, 15:00–17:00, and 21:00–24:00, the loads are supplied by the renewable energy, and the excess renewable energy is stored in the FESPS or/and transferred to the other buses. Table 1. Energy storage power station.

How is the load supplied by the superior power grid?

The load is supplied by the superior power grid separately from 01:00 to 05:00. During the period from 06:00 to 08:00, the load is transferred by the power flow. Period of 09:00 and during the period 18:00–19:00, the load is jointly supplied by the renewable energy, energy storage or/and power flow transfer.

What is a flexible energy storage powers system (fesps)?

In view of the aforementioned shortcomings, a flexible energy storage powers system (FESPS), featuring dual functions of power flow regulation and energy storage on the basis of the energy-sharing concept, has been proposed in this paper.

What is the operation process of power flow regulation and shared energy storage?

The operation process of power flow regulation and shared energy storage of bus 1 after obtaining the solution to the bilevel optimization operation model is depicted in Fig. 9. During the periods of 01:00–05:00 and 23:00–24:00, the load is jointly supplied by the power flow transfer and the superior power grid.



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South Ossetia energy storage export factory is in operation

The station, covering approximately 2,100 square meters, incorporates a 630kW/618kWh liquid-cooled energy storage system and a 400kW-412kWh liquid-cooled energy storage system.

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