

SolarInvert Energy Solutions

Greek energy storage power supply customization



Overview

Should Greece invest in energy storage facilities?

Currently there is a growing interest for investments in storage facilities in Greece. Licensed projects mostly consist of Li-ion battery energy storage systems (BESS), either stand-alone or integrated in PVs, as well as PHS facilities .

How long should energy storage be in a Greek power system?

Considering the energy arbitrage and flexibility needs of the Greek power system, a mix of short (~2 MWh/MW) and longer (>6 MWh/MW) duration storages has been identified as optimal. In the short run, storage is primarily needed for balancing services and to a smaller degree for limited energy arbitrage.

Why is Greece focusing on energy storage?

Greece has been actively focusing on energy storage since the emergence of the RES “boom” in 2020. The country recognised the pivotal role of energy storage in the energy transition and emphasised its importance in the first iteration of the country’s National Energy and Climate Plan in 2019.

What is the res penetration target for the power system of Greece?

The power system of Greece is used as a case study, adopting a RES penetration target of around 60%, as foreseen in the National Energy and Climate Plan (NECP) for 2030, . The generation portfolio of the Greek system in the mid-term horizon to 2030 is well-defined in the NECP, with storage being the main asset yet to be identified.

Will Greece install 900 MW of storage by 2030?

According to the Greek National Energy and Climate Plan (NECP), the nation aims to install 4.3 GW of storage by 2030. Thus far, 900 MW has been allocated via the Greek Regulatory Authority for Energy, Waste, and Water

(RAAEY) tenders. Therefore, the remaining share would be delivered under the new plan but without any subsidy support.

What are the cost assumptions for the Greek power system?

Thermal and hydro unit capacities assumed for the Greek power system. Table B.4. Variable cost assumptions for thermal units and demand response services. Includes fuel costs and CO₂ emissions rights. The investment cost assumptions for BESS, PHS and OCGT investments are presented in the following Table B.5, Table B.7.

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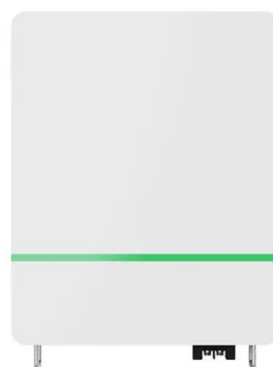


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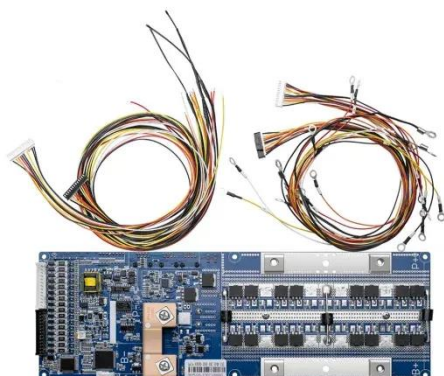
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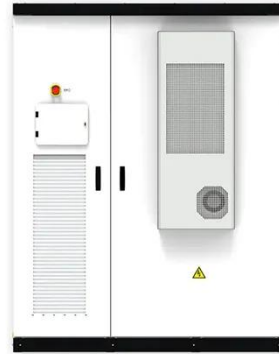

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available PHS power is allocated for reserves provision, leaving only a fraction of the power capacity available to perform energy arbitrage. Therefore, storages of a higher power capacity

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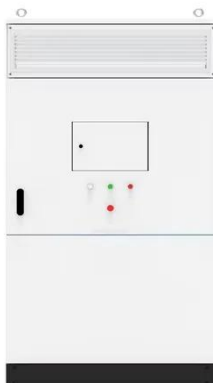


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