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Portuguese quality solar energy storage system



Overview

Can a solar photovoltaic system integrate energy storage in Portugal?

The configuration of a solar photovoltaic system integrating energy storage in Portugal is yet unclear in the technical, energetic and economic point of view. The energy management jointly with the battery operation have great influence in the system configuration's profitability value.

How many battery projects are being built in Portugal?

Portuguese energy giant GALP has announced construction of five battery projects, with a total capacity of 74 megawatts (MW), to store solar energy in Spain and Portugal.

Is self-consumption suitable for PV solar energy in Portugal?

All the configurations implemented self-consumption, considered to be the current most adequate context to implement PV solar energy in Portugal in the residential sector, regarding the Portuguese legislation.

Where in Portugal will a solar power plant be installed?

The main supplier and distributor of electricity in Portugal, EDP, has presented plans to install the first PV plant (3.8 MW) coupled with lead-acid batteries storage, focused on self-consumption, in Castanheira do Ribatejo and Azambuja .

How many PV power installations are there in Portugal?

Four PV power installations are studied, namely 0.50 kWp, 0.75 kWp, 1.50 kWp and 3.45 kWp, either off-grid or grid-connected, for three different Portuguese locations - Évora, Porto and the Azores archipelago.

Which PV power is most relevant in Portugal?

The chosen installed PV power (PV1 = 0.50 kW; PV2 = 0.75 kW; PV3 = 1.50

kW and PV4 = 3.45 kW) for the studied cases was considered the most relevant regarding the current legislation in Portugal (DL 153/2014).

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