

## Backup power portugal

Carlos from Portugal has installed a robust solar energy backup system featuring a Deye 12KW inverter and a POW-LIO48200-15S battery, providing a substantial 28.8KWH of backup power. This advanced setup ensures reliable energy storage and efficient power management, showcasing the integration of high-capacity components to support sustainable energy solutions.

POW-LIO48200-16S: Upgraded from POW-LIO48200-15S, with the capability for rapid 150A charging and discharging, this battery is the ideal solution for swift power needs. It's perfect for systems with high and daily power consumption demands.

It will be Oregon-headquartered Powin's first project in Europe, having to date mainly been deployed in the US, Asia, and Australia, and it recently set up an office in Madrid. VP Danny Liu talked to Energy-Storage.news a year ago about opportunities in the UK's BESS market but no announcements have been made as of yet.

Georgios Papadimitriou, Galp's executive director in charge of renewables, new business, and innovation, commented: "As Galp keeps growing its renewable energy capacity aiming to transform its industrial base to produce green fuels and sell renewable energy to its clients, storage solutions are key to ensure a steady supply of electrons to our businesses."

Large-scale energy storage projects in Portugal have been relatively small in number, although 2022 saw the inauguration of a 40GWh pumped hydro energy storage (PHES) project by utility Iberdrola.

On the BESS side, system integrator Fluence deployed a 15MWh project in Terceira and a 16.4MWh one in Madeira, two of Portugal's islands, while developer and IPP Greenvolt is in the midst of commissioning a 5MWh one at a biomass plant in Coimbra, on the mainland.

Energy-Storage.news publisher Solar Media will host the 9th annual Energy Storage Summit EU in London, 20-21 February 2024. This year it is moving to a larger venue, bringing together Europe's leading investors, policymakers, developers, utilities, energy buyers and service providers all in one place. Visit the official site for more info.

EDP completed the installation of a 5MW floating solar array at a hydropower dam in Alqueva. The FPV facility occupies around 4 hectares of space - equivalent to less than 0.02% of the reservoir area - and the solar aspect of the power station is expected to produce around 7.5GWh of power each year.

Now having completed the installation, which involved a total investment of EUR6 million (US\$6.07 million), EDP is to next add a 1MW/2MWh battery energy storage system. Once complete, all three technologies will



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share a single grid connection point, which EDP said would promote "asset optimisation and efficiency while reducing environmental impacts".

Miguel Stilwell d'Andrade, CEO at EDP, labelled the project an "example of innovation and sustainability" and hailed floating solar as a "landmark leap" in the expansion of renewables.

"[The] bet on hybridisation, by combining electricity produced from water, sun, wind and storage, is a logical path of growth in which EDP will continue to invest - it allows us to produce cheaper energy, optimises resources and with minimal environmental impact."

The Alqueva project uses floats made from recycled plastic combined with cork composites, a method of producing floats for FPV which is being trialled for the first time. They have been produced in partnership with composites firm Corticeira Amorim and Spanish engineering business Isigenere.

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