

# Portugal grid edge technologies



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### Smart Grids

The smart grid makes Portugal a more efficient and sustainable country, by optimizing energy systems, reducing CO2 emissions and lower utilization of fossil resources. The smart grid has numerous sensors installed along its extension.

### Portuguese grid operator targets EUR900m investment to enable ...

Portuguese grid operator Redes Energéticas Nacionais has said it will invest more than EUR900 million (US\$1.1 billion) by 2024 in technologies and improvements to the electricity network to



### Financing smart grids & electric mobility (Madeira, Portugal)

On three different islands - Samsø (Denmark), Orkney Islands (UK) and Madeira (Portugal), the project will demonstrate nine different smart grid technologies. On Madeira, an intelligent ...

### Small country, big plans: Portugal's response to grid evolution

Home to 10.2 million people, Portugal has become a recognised champion of renewable energy technology for electricity production with its basket of onshore wind farms, hydropower



plants, biomass initiatives and solar energy applications.



### Madeira Utility Contracts Battery Storage Plant to be ...

"Grid edge technologies such as energy storage play a key role in the decarbonization of islands and remote communities. They not only enable the integration of intermittent renewable energy sources, but also increase grid flexibility and resilience.



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### Grid Edge Overview

We help utilities increase safety, stability and reliability, engage consumers and promote sustainability through our grid edge intelligence portfolio that unlocks the power of your data to provide more visibility and control than ever before.



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Energy storage(KWh)

**102.4kWh**

Nominal voltage(Vdc)

**512V**

Outdoor All-in-one ESS cabinet



## How innovation is driving the energy revolution at EDP

"We don't focus on technologies: we focus on solving problems of the energy transition," says António Coutinho, innovation chief executive of EDP. The Portuguese utility aims to be coal free by 2025, zero emissions by 2030, and carbon neutral by 2040 and Coutinho explains how it is looking to innovation to get it there.

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## Spain, Portugal Power Cost Edge Seen Fueling AI Data Center Boom

Spain and Portugal's low-cost renewable energy is fueling investments in artificial intelligence infrastructure that will increase data center power consumption more than ...



## Financing smart grids & electric mobility (Madeira, Portugal)

On three different islands - Samsø (Denmark), Orkney Islands (UK) and Madeira (Portugal), the project will demonstrate nine different smart grid technologies. On Madeira, an intelligent control and automation system is currently being implemented in the existing grid to provide better management of the distribution network and ensure grid



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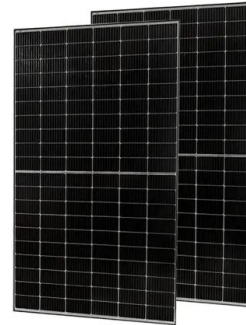
## Spain, Portugal Power Cost Edge Seen Fueling AI Data Center Boom

Spain and Portugal's low-cost renewable energy is fueling investments in artificial intelligence infrastructure that will increase data center power consumption more than eightfold in a decade



## Madeira progresses clean energy transition with integrated microgrid

The Portuguese island of Madeira is working with Siemens Smart Infrastructure, in partnership with energy storage technology and services provider, Fluence, to achieve greater energy independence and grid resilience using renewable energy.



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