

Does Cape Verde have a wave energy potential?

In the case of Cape Verde, there is one study evaluating the wave energy potential which highlights the resource available, particularly for the northern islands, such as Santo Vicente. Unfortunately, the study identifies the wave resource to match that of the wind.

Is Cape Verde a developing state?

The archipelago of Cape Verde is a developing state in West Africa with extreme external energy dependency on refined oil imports despite their available solar and wind resources. Aligned with the global energy transition, the local government established goals in 2011 aiming at 50 and 100% RES.

How can Cape Verde meet its goal of 50% renewables?

Cape Verde can meet its goal of 50% renewables today by integrating energy storage. A 100% Renewable System is achieved from 2026, with a 20 year cost from 68 to 107 MEUR. Current paradigm doubles emissions in 20 years and costs range from 71 to 107 MEUR. The optimal configuration achieves 90% renewable shares with a cost from 50 to 75 MEUR.

Why is Cape Verde's energy grid falling out of scope?

Nevertheless, we discarded this due to the fact that the grid in Cape Verde is currently in expansion and this process is expected to continue during the foreseeable future following criteria related to energy access and political will, rather than techno-economical feasibility. Thus, falling out of scope.

Cape Verde has inaugurated a major expansion of its flagship Cabeolica Wind Farm, adding new wind capacity and one of Africa's most advanced battery energy storage systems ...

The wind plant adds significant renewable energy resources to a country which, according to the International Renewable Energy Agency (IRENA), added just 5MW of solar PV and ...

Cape Verde's wind-power surge sparks a new plan to export clean energy across West Africa, boosting jobs, sustainability, and long-term economic growth.

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The pivotal ceremony, which brought the world massive news, was held on 8 December 2025, signalling that Cape Verde was intent on getting to a flying start in 2026. In that meeting, the ...

In Cape Verde, despite the existence of an exceptional renewable potential, namely wind and solar photovoltaic, estimated, by Gesto (2011), at 258 MW and 315 MW respectively, in 2017 82.2% of the ...

This project increases the share of renewable energy in Santo Ant&o to over 25%, significantly reducing



Cape Verde Wind and Solar Power System

dependence on fossil fuels. The third project concerns the expansion of the Santiago Island Wind ...

Cape Verde's renewable energy leap is a testament to the power of vision, innovation, and commitment. From relying almost entirely on imported fossil fuels to embracing solar and wind ...

Wind farm production statistics, 2017 (Hove, 2018). An optimized mix for 100% renewable electricity. Adapted from Heck et al. (2013). Renewable energy sources for Cape Verde.

As part of its efforts to scale renewable energy, stabilise its grid and reduce carbon emissions, Cape Verde has inaugurated the expanded Cabeolica Wind Farm and a new Battery ...

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