

ContainerPower Energy Solutions

Wind and solar complementary supply for communication base stations in Morocco

System Layout



Overview

What is the technical potential of wind energy in Morocco?

The technical potential of wind energy in Morocco can be estimated of 26 GW . The introduction of the Moroccan Integrated Wind Program should provide an increase in the generated energy from wind turbines from 797 MW in 2015 to 2,000 MW by 2020 and up to 5,000 MW, or 20% of all installed capacity, by 2030 [6, 13].

How does Morocco use solar energy?

In addition to wind, Morocco leverages its significant solar potential through PV systems, CSP, and PTCs. These technologies help diversify the renewable energy mix and maximize the natural resources of the country for electricity generation. Table 4.

Will Morocco meet 52% of its energy requirements by 2030?

The Moroccan Government has set up an ambitious target of meeting 52% of its energy requirements using renewable resources by 2030. Morocco is investing heavily in developing its renewable energy sector, which will reduce its dependence on imported energy carriers to a great extent.

How has GIS impacted the energy sector in Morocco?

Morocco has successfully employed GIS to advance large-scale renewable energy projects, particularly in the power sector, by optimizing the siting and development of solar and wind energy installations.

How does Morocco support its energy transition goals?

Morocco has established public, private, and research-driven institutions that collectively support its ambitious energy transition goals. Public institutions are at the forefront of renewable energy governance and implementation.

What is Morocco's energy strategy?

As a result, Morocco's National Energy Strategy of 2009 intends an increase in installed capacity from renewable energy sources to 52% by 2030 . Today, the service sector of the economy in Morocco accounts for almost nearly 50% of the GDP and employs the 40.5% of workplaces.

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