

## SolarTech Power Solutions

# Comoros Communication Base Station Wind Power Energy Plant



## Overview

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Is the Comoros transitioning to res?

The Comoros, like Madagascar, Mauritius, and Reunion, has recently focused its efforts on the transition to renewable energy sources (RES) throughout its territory. This paper provides policymakers with a comprehensive overview of the energy situation in the Comoros.

How will the Comoros Islands be affected?

The Comoros Islands could be affected by the energy review through extreme events such as natural disasters, volatility of oil prices, socioeconomic energy risks, or geopolitical instability.

What is the cost of electricity in the Comoros?

The cost of electricity in the Comoros is 298 USD/MWh for the consumer, despite the high production cost of approximately 595 USD/MWh. The population is ready to pay for access to electricity.

Why does the Comoros have a low wind power density?

The Comoros has a relatively low wind power density, with values mainly distributed between 80 and 270 W/m<sup>2</sup>, as indicated by the Global Wind Atlas map [43]. This low potential is also attributed to the minor variability of the topography throughout the three islands of the Comoros archipelago.

What is the environmental impact of production in the Comoros?

The environmental impact of energy production in the Comoros is high, with a Global Warming Potential (GWP) of 0.930 kg CO<sub>2</sub> eq / kWh. At present, the level of production in the Comoros is small overall.

Should Comoros invest in solar energy?

The Comoros has significant potential for the development of photovoltaic

energy (\*\*should they invest in it\*\) given its economic situation. Recently, a French company signed a contract with SONELEC to purchase electricity from solar energy for 26 years.

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