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Tunisia s wind power and energy storage policy



Overview

Why is wind power important in Tunisia?

Wind power (WP) has the potential to impact the achievement of renewable energy targets due to the country's favorable geographic location. Furthermore, Tunisia has the potential to implement viable wind energy projects that satisfy fundamental economical profitability (Georgiou et al., 2008).

Can offshore wind power be used in Tunisia?

Offshore wind power has the potential to play a key role in achieving the future renewable energy targets due to the country's favorable geographic location and coastline. However, there are currently no offshore wind farm projects nor experiences in Tunisia.

Does Tunisia need electricity?

Tunisia relies on imported natural gas to meet the majority of its growing electricity needs, even though the country has a vast potential to generate renewable energy. Despite limited economic growth over the last decade, peak demand for electricity has continued to grow at a high rate, around 5% per year between 2010 and 2022.

How much wind power does Tunisia need?

Tunisia's wind power market will require a relatively constant installation rate throughout the modelling period, with an average of 223 MW installed/year until 2035 and an installation rate of 300 MW/year until 2050. Tunisia's renewable potential is exceptionally diverse, and not limited to solar and wind power.

How will the transition of the energy sector impact Tunisia?

The planned transition of the energy sector would also lead to more economic opportunities and private sector-led job creation. The Government of Tunisia

(GoT) has embarked on an ambitious path to increase its renewable energy production.

Are solar and wind power plants a viable option in Tunisia?

Consequently, renewables achieved a global market share of over 80% of all newly built power plants in 2021⁷⁹. Tunisia has high-quality and substantial solar and wind resources, with either solar or wind potential alone able to cover projected electrical demand by 2050 many times over, based on GIS mapping results (projected demand in 2050:

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