



# Tunisia s solar power generation can be equipped with energy storage





## Overview

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This article explores how battery storage, pumped hydro, and innovative technologies can transform Tunisia's power infrastructure while addressing challenges like solar intermittency. Summary: As Tunisia accelerates its renewable energy adoption, energy storage systems are becoming vital for grid stability. With solar irradiation levels hitting 5.3 kWh/m<sup>2</sup>/day and wind speeds reaching 9 m/s in coastal areas, this North African nation could power half the Mediterranean - if it can store that energy effectively. However, the recent launch of the country's first large-scale energy storage projects marks a significant milestone in overcoming barriers to BESS deployment. In fact, it can be a turning point towards a cleaner and more secure energy system, thanks to the unprecedented response from governments around the world, as registered by the IEA in the Stated Policies Scenario (SPS), the Announced Pledges. To meet increasing demand for electricity and promote energy conservation, the GOT allows private companies and households utilizing co-generation and renewable energy technologies to produce electricity for their own consumption and sell up to 30% of excess electricity exclusively to STEG at a. To address these challenges, Tunisia has set ambitious targets : Reducing carbon intensity by 45% by 2030 and increasing renewable energy's (RE) share to 35% of electricity production. The recent launch of the country's first large-scale energy storage projects marks a significant milestone in overcoming barriers to BESS deployment.



## Tunisia's solar power generation can be equipped with energy storage



### [Deploying Battery Energy Storage Solutions in Tunisia](#)

solar PV and wind together accounting for nearly 70%. The integration of these variable energy sources into national energy grids will largely depend on storage technologies, and among them especially ...

### [Tunisia Power Grid Energy Storage Systems: Key to Renewable ...](#)

This article explores how battery storage, pumped hydro, and innovative technologies can transform Tunisia's power infrastructure while addressing challenges like solar intermittency and peak demand ...



### **Tunisia**

In 2022, only 3% of Tunisia's electricity is generated from renewables, including hydroelectric, solar, and wind energy. While STEG continues to resist private investment in the ...

### **Tunisia promotes energy storage system**

Tunisia's energy storage power generation sector is transforming faster than a desert sunset. With solar irradiation levels hitting 5.3 kWh/m<sup>2</sup>/day and wind speeds reaching 9 m/s in coastal



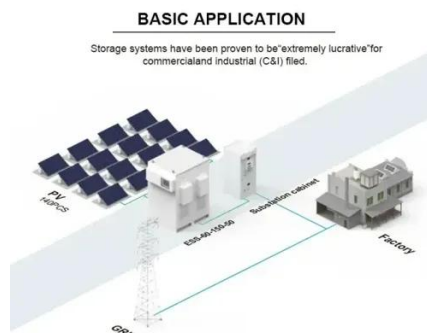
### Tunisia grid energy storage systems

Tunisian utility STEG is planning to build a 400-600MW pumped hydro energy storage plant, for a 2029 commissioning date. STEG, or the Sociéte tunisienne de l'électricité;



### Tunisia storage power plants

The scope of the project includes the installation of 5MW of solar power together with a battery energy storage system, integrated with existing gas turbines in an off-grid set-up.



### Tunisia Energy Storage Power Generation: Innovations Driving

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### Tunisia solar power with battery storage



Work has been completed on the largest battery energy storage system (BESS) to have been paired with solar PV to date, with utility Florida Power & Light (FPL) holding a ceremony earlier this week.



## Tunisia

The ELMED interconnection project, which will link Tunisia to Italy by 2028, will play a key role in stabilizing energy supply, while supporting the energy transition in Tunisia and Europe.

### [Renewable Energy: Tunisia should prepare for energy storage](#)

Tunisia is planning to embrace pumped storage, considered the most mature of the stationary energy storage technologies, but also the most expensive. A project has therefore been ...



## RENEWABLE ENERGIES:

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