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Tunisia factory energy storage power supply



Overview

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y crisis, brought about by the Russia-Ukraine crisis. Its impact is far-reaching, disrupting global energy supply and demand patterns, fracturing long-standing the world is struggling with too little clean energy. Faster clean energy transitions would have helped to moderate the impact of it is.

Tunisia's power sector is well developed, and nearly the entire population enjoys access to the national electricity grid. Tunisia has a current power production capacity of 5,944 megawatts (MW) installed in 25 power plants, which produced 19,520 gigawatt hours in 2022. State power utility company.

Tunisia has a current power production capacity of 5,944 megawatts (MW) installed in 25 power plants, which produced 19,520 gigawatt hours in 2022. Following the landmark agreement with Saudi Electricity Company (SEC) in early 2025 for the world's largest 12.5GWh grid-side energy storage project.

State power utility company STEG controls 92.1% of the country's installed power production capacity and produces 83.5% of the electricity. The remainder is imported from Algeria and Libya as well as produced by Tunisia's only independent power producer (IPP) Carthage Power Company (CPC), a 471-MW.

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 launched in Tabarka to create a pumped-storage energy transfer station (STEP) to generate hydroelectricity. [pdf].

Tunisia's energy storage power generation sector is transforming faster than a desert sunset. With solar irradiation levels hitting 5.3 kWh/m²/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.

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