#### What percentage of Tunisia's electricity is renewable?

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 sector,Parliament's 2015 energy law encourages IPPs in renewable energy technologies.

What is the Tunisian Solar Plan?

The Tunisian Solar Plan contains 40 projects aimed at promoting solar thermal and photovoltaic energies, wind energy, as well as energy efficiency measures. The plan also incorporates the ELMED project; a 400KV submarine cable interconnecting Tunisia and Italy.

What are Tunisia's energy projects?

One third of the projects will be for wind farms and two thirds for solar photovoltaics. Tunisia's national grid is connected to those of Algeria and Libya which together helped supply about 12% of Tunisia's power consumption in the first half of 2023.

Does Tunisia have solar power?

Tunisia has significant solar potential given the country's high irradiance, ranging from 1800 kWh/m2 per year in the North to 2600 kWh/m2 per year in the South. This equals approximately 1,980 sunshine hours per year.

Who produces electricity in Tunisia?

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 combined-cycle power plant.

What percentage of Tunisia's electricity is generated from natural gas?

In 2020,natural gas made up 86% of Tunisia's installed capacity and 95% of power generation,while renewable energy made up 13% of installed capacity and 5% of power generation. Fossil fuels represent the majority of Tunisia's electricity generation mix (approximately 97%),with natural gas being the primary fuel

## TUNISIA SOLAR TO ELECTRICAL ENERGY

#### source.

Solar water heating Tunisia and Italy. 

The applications of solar energy in Tunisia are diverse. Solar PV systems are increasingly installed in residential, commercial, and industrial settings to generate electricity. Large-scale solar farms, such as the Tozeur photovoltaic plant, feed into the national grid, enhancing energy availability[10]. Solar water heating

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## TUNISIA SOLAR TO ELECTRICAL ENERGY

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**SOLAR**°

The expansion of the market will not only help Tunisia meet its energy demands but also contribute to a greener and more sustainable future. With strategic planning and ongoing efforts, Tunisia has the potential to position itself as a regional leader in solar energy.

#### The Kairouan Solar Project, Tunisia's first large-scale solar initiative, significantly boosts the country's renewable energy capacity by providing 100 MW of solar power to the national grid. This initiative, part of Tunisia's broader goal to generate 35% of its electricity from renewables by 2030, directly supports the transition to

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# TUNISIA SOLAR TO ELECTRICAL ENERGY

Nonetheless, Tunisia has abundant solar and wind energy resources, with an estimated production potential of 320 gigawatts (GW) compared to the current peak national demand of approximately 5 GW. This vast potential would also allow to production and export of green hydrogen.

