

SolarTech Power Solutions

Tunisia container power generation low emissions



Overview

How can Tunisia decarbonise its energy resources?

New techniques and technologies will be needed to decarbonise these areas. Tunisia mostly relies on gas imports to meet its primary energy needs: almost 97% of its electricity generation came from gas in 2016. However, energy policy puts the emphasis on renewable energy.

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.

Can Tunisia build a reliable electricity supply?

We found that Tunisia can cost-effectively build a reliable electricity supply based on local power generation, with high proportions of solar and wind power. With an onshore wind potential greater than 30 times the projected 2050 demand and a solar potential greater than 100 times that demand, Tunisia has exceptional renewable energy potential.

Can Tunisia export green electricity?

Exploiting its renewable energy potential will also allow Tunisia to export green electricity, including green hydrogen, contributing to the GHG emission targets of the Maghreb and Europe.

Will synthetic fuels enter Tunisia's energy system before 2040?

Because renewable synthetic fuels require a (gas) pipeline infrastructure, this technology is not widely used in Tunisia's energy plan because the costs in the early development stages are relatively high. It is assumed that synthetic fuels and hydrogen will not enter Tunisia's energy system before 2040.

How much energy does Tunisia generate?

Source: IRENA. According to Global Energy Monitor, Tunisia has a generating capacity of 6,079 MW total, comprised of oil and natural gas (5,771 MW), solar (55 MW), and onshore wind (253 MW). In 2022, Tunisia increased its renewable energy target to 35% of total energy generation by 2030.

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