

Syria 3 million kilowatts of wind solar and storage





Overview

Damascus: The Ministry of Energy of the Syrian Arab Republic and ACWA Power, the world's largest private water desalination company, a leader in the global energy transition, and a first mover in green hydrogen, announced the signing of a Joint Development Agreement (JDA) to study develop approximately 2.5 GW of solar and wind capacity — alongside energy storage and a proposed national technical training centre — in the Syrian Arab Republic. How much solar energy will Syria have by 2030?

The Syrian Minister of Electricity unveiled an ambitious plan to introduce up to 2,500 megawatts of solar energy and 1,500 megawatts of wind power by 2030, alongside the installation of 1.2 million solar water heaters. However, Syria's complex economic conditions present a major obstacle to achieving these targets.

Is Syria's energy system in ruins?

Syria's energy system is in ruins. To rebuild energy security the country's new government faces two major challenges. The first, vital for Syria's swift recovery and political stability, is bringing reliable flows of electricity and fuel to its people.

Can Syria match all-purpose energy demand with wind-water-solar (WWS)?

This infographic summarizes results from simulations that demonstrate the ability of Syria to match all-purpose energy demand with wind-water-solar (WWS) electricity and heat supply, storage, and demand response continuously every 30 seconds for three years (2050-2052).

What if Syria doesn't have reliable energy supplies?

The lack of reliable energy supplies is a major concern for Syrian citizens and its new government, making it a key point of leverage. Qatar and Türkiye have stepped in to provide short-term assistance. The two states have provided two floating power stations, while Türkiye is also connecting its grid to Syria.



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[SCIO briefing on white paper 'China's Energy Transition'](#)

Aug 29, 2024 · By the end of July this year, China's installed capacity of wind power reached 471 million kilowatts, and that of solar power reached 735 million kilowatts, resulting in a combined ...

[Green energy development in NW China's Xinjiang](#)

Sep 10, 2024 · It comprises 800,000 kilowatts of wind power and 200,000 kilowatts of photovoltaics, along with two supporting energy storage stations. The project was connected ...



Syria, ACWA Power agree to explore 2.5 GW of solar and wind ...

Oct 9, 2025 · Under the deal, ACWA Power will work with the ministry to identify sites for approximately 1 GW of solar capacity and 1.5 GW of wind, with potential grid-scale storage to ...

[China emerging as energy storage powerhouse](#)

May 23, 2024 · The skyrocketing demand for energy storage solutions, driven by the need to integrate intermittent renewable energy sources such as ...



[East China's Shandong Province promotes ...](#)

Sep 22, 2023 · In order to help achieve China's double carbon goals, East China's Shandong Province plans to build an integrated base of wind and ...



[Energising Syria's future , European Union ...](#)

Mar 7, 2025 · The country has significant potential for renewable energy, lying within the solar belt with high levels of solar radiation and featuring ...



[Syria: Energy Transition Under Conflict ...](#)

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Renewable Energy - Syria's Onshore Wind Resources

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Renewable Energy Accounts for 56 pct of ...

Jan 29, 2025 · By the end of 2024, the cumulative installed capacity of the country's renewable energy reached 1.889 billion kilowatts, a 25 percent ...

Ministry of Energy of the Syrian Arab Republic and ACWA ...

Damascus: The Ministry of Energy of the Syrian Arab Republic and ACWA Power, the world's largest private water desalination company, a leader in the global energy transition, and a first ...



ENERGY PROFILE Syrian Arab Republic

Onshore wind: Potential wind power density (W/m²) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area ...



[Renewable Energy - Syria's Onshore Wind ...](#)

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[Xinjiang to further tap renewables](#)

Nov 25, 2022 · The newly installed capacity of the Xinjiang power grid during the first nine months has exceeded 3.04 million kilowatts, including 771,900 kW of wind power, 549,100 kW of solar ...

[Xinjiang standing tall in renewable projects](#)

Dec 3, 2025 · With large-scale investments in wind, solar and cutting-edge storage solutions, Xinjiang is rapidly expanding its energy storage infrastructure, which is expected to near 10 ...



[Syria's Energy Crossroads: How Storage Systems Could ...](#)

Why Syria's Energy Crisis Demands Immediate Action You know, Syria's been grappling with chronic electricity shortages for over a decade. With 60% of power infrastructure damaged ...



China's installed power generation capacity up 14.6 pct in 2024

Jan 21, 2025 · Investment in power grid projects rose by 15.3 percent, reaching 608.3 billion yuan. In 2024, China's solar power generation capacity surged 45.2 percent to about 890 million ...



21-WWS-Syria

Oct 27, 2022 · By Mark Z. Jacobson, Stanford University, October 22, 2021 This infographic summarizes results from simulations that demonstrate the ability of Syria to match all-purpose ...

Energising Syria's future , European Union Institute for ...

Mar 7, 2025 · The country has significant potential for renewable energy, lying within the solar belt with high levels of solar radiation and featuring several areas where wind speeds exceed 6 ...



Syria: Energy Transition Under Conflict Conditions

Oct 24, 2024 · The Syrian Minister of Electricity unveiled an ambitious plan to introduce up to 2,500 megawatts of solar energy and 1,500 megawatts of wind power by 2030, alongside the ...



China leads global clean energy shift with wind, solar power ...

Sep 6, 2023 · BEIJING, Sept. 5 -- China is leading global efforts to shift to cleaner energy sources, with robust development in its wind and photovoltaic power industries supported by ...



[Syria and ACWA Power sign deal to develop 2.5 GW of ...](#)

Sep 5, 2025 · Under the agreement, ACWA Power will collaborate with Syria's government to identify suitable locations for the planned projects, which aim to deliver around 1 GW of solar ...

[Syria: Solar electricity capacity](#)

Syria: Solar electricity capacity, million kilowatts: The latest value from 2023 is 0.06 million kilowatts, unchanged from 0.06 million kilowatts in 2022. In comparison, the world average is ...



[Syria and ACWA Power sign deal to develop ...](#)

Sep 5, 2025 · Under the agreement, ACWA Power will collaborate with Syria's government to identify suitable locations for the planned projects, ...



[New wind and solar power capacity hits](#)

...

Feb 14, 2023 · China's newly installed combined wind and solar power capacity reached a record 125 million kilowatts last year, bringing the tally

...



[China's largest concentrated solar-thermal ...](#)

Dec 22, 2024 · The demonstration project currently under construction has a total installed capacity of 1-million kilowatts, featuring a 100,000-kilowatt ...

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