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Title: Solar power generation in the Republic of South Africa

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How much solar power will South Africa have by 2039?

Image: South African government via Flickr. South Africa plans to add 28.7GW of new solar PV generation capacity by 2039, en route to generating more than half of its domestic electricity with renewable sources by 2042.

How much solar power does South Africa have?

South Africa's cumulative solar capacity surpassed 9.4 GW by mid-2025, according to figures from the South African Photovoltaic Industry Association (SAPVIA). The country also has a solar project pipeline in excess of 10 GW. South Africa added approximately 928 MW of solar during the first quarter of this year, according to estimates from SAPVIA.

Is solar PV a key component of South Africa's future electricity supply?

Frank Spencer, the spokesperson for Sapvia, said the association sees the solar PV industry in South Africa as the most important component of future electricity supply. "Solar PV is already being deployed at all scales in South Africa, from small home rooftop systems to large solar farms spanning many hundreds of hectares.

Are solar power costs increasing in South Africa?

Renewable energy installed capacity and energy production are increasing in South Africa, but still constitute a small portion of the total capacity and energy mix. Concentrating solar power (CSP) costs are high and have more variability than wind and solar PV costs, which are both on a stable downward trend.

South African Photovoltaic Industry Association (Sapvia) in an interview with Business Report said that they believe there is still a big future for the Solar PV industry despite a significant ...

Non-dispatchable electricity in South Africa is generated mainly by solar photovoltaic (PV) and wind technologies. Most wind and around a quarter of the solar PV plants in South Africa have been ...

Find out the full story behind South Africa's 12% growth in solar power, including how they achieved it and what the future of solar looks like for S.A.

The 928 MW figure represents strong growth in South Africa's solar market and suggests that this year, the



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country is on course to outperform the 1.1 GW of solar added across 2024.

South Africa plans to add 28.7GW of new solar PV generation capacity by 2039, en route to generating more than half of its domestic electricity with renewable sources by 2042.

DMRE Energy Resources / Energy Sources / Renewable & Alternative Fuels / Solar-Power

South Africa's IRP 2025 prioritizes solar with 25 GW capacity and wind with 34 GW planned by 2039. (Photo Credit: Department of Electricity and Energy, Republic of South Africa)

The South African Photovoltaic Industry Association (SAPVIA) is a non-profit industry association established in 2010 and officially registered in 2013: To promote, develop and grow the ...

PVTIME - The Republic of South Africa has unveiled its latest Integrated Resource Plan (IRP) under the auspices of the Minister of Electricity and Energy, Dr Kgosientsho Ramokgopa. The ...

Africa's solar energy market continues to grow significantly. In 2025, the continent added more than 5,000 MW solar power capacity. In this article, we breakdown countries leading this drive.

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