

# Australian rooftop solar power generation system





## Overview

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Are rooftop solar systems reshaping Australia's energy landscape?

The rise of rooftop solar is rapidly reshaping Australia's energy landscape with a new report revealing that PV systems mounted atop the nation's buildings contributed 14.7% of the National Electricity Market's total generation in the first quarter of 2025.

How much energy does rooftop solar generate in Australia?

Rooftop solar contributed 12.8%, or 15,463 GWh, of Australia's total energy generation in the first six months of the year, up from 11.5% in the same period 12 months prior.

How many rooftop solar panels are there in Australia?

From pv magazine Australia A new report from the Clean Energy Council (CEC) shows that at the end of June there was a combined 26.8 GW of rooftop solar capacity deployed across 4.2 million homes and small businesses in Australia.

How many rooftop PV systems are installed in Australia?

Queensland and New South Wales hold over half of all rooftop PV installations across Australia. Battery attachments to rooftop PV systems continues to trend upwards, with 185,798 units now installed across Australia. The second half of 2024 saw 45,233 units sold - 55 per cent more than the same time 12 months ago.



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### [42.5GW! Australia's Rooftop Solar Enters "Opportunity Phase"](#)

3 days ago · Recently, the Australian Energy Market Operator (AEMO) released its 2025 System Security Transition Plan, highlighting that Australia's National Electricity Market (NEM) is ...

### [Rooftop solar reshaping Australia's energy mix](#)

Aug 27, 2025 · The rise of rooftop solar is rapidly reshaping Australia's energy landscape with a new report revealing that PV systems mounted ...



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### **Report: rooftop solar provides 11 per cent of total generation**

Sep 25, 2024 · Rooftop PV contributed 11.3 per cent, or 13,479GWh of Australia's total energy generation for the first half of 2024. With 454MW of new rooftop solar systems installed in the ...



### [Rooftop solar generates over 10 per cent of Australia's ...](#)

16 Apr 2024 Rooftop solar now accounts for 11.2 per cent of Australia's electricity supply, according to the Clean Energy Council's new Rooftop Solar and Storage Report, published today.

### [Rooftop solar and storage report](#)

Apr 3, 2025 · About this report This is the third edition of the Clean Energy Council's (CEC) half-yearly report monitoring the progress of the deployment of rooftop solar and behind-the-meter ...



### **Australia rooftop solar hits 26.8 GW as home battery uptake ...**

Sep 15, 2025 · Rooftop solar contributed 12.8%, or 15,463 GWh, of Australia's total energy generation in the first six months of the year, up from 11.5% in the same period 12 months prior.



### [Australia hits rooftop solar milestone](#)

Nov 14, 2024 · Rooftop solar in Australia has reached new heights hitting 4 million installations across the country. With Australians installing about 300,000 rooftop systems a year, 1 in 3 ...



### **Household solar electricity generation in the Australian ...**

Dec 3, 2025 · To encourage households to install rooftop solar systems, the Australian Government introduced its first rebate program in 2000. Rebates continued over the years and ...

### [Australia rooftop solar: Impressive 12% Power by 2025](#)

Sep 30, 2025 · The ESOO projects that total solar generation -- including both rooftop and utility-scale solar -- will surpass black coal generation in 2025, with an estimated 65.1 TWh of solar ...



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Sep 25, 2024 · Rooftop PV contributed 11.3 per cent, or 13,479GWh of ...



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Jun 5, 2025 · Figure 1: Share of rooftop PV generation in the NEM grid Source: Australian Energy Council analysis In the first quarter of 2025, the capacity of rooftop solar installations for ...



### [Rooftop solar reshaping Australia's energy mix](#)

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