

Solar power in Australia. Solar PV generated approximately 10 per cent of Australia's electricity in 2020-21, and is the fastest growing generation type in Australia. More than 30 per cent of Australian households now have rooftop solar PV, with a combined capacity exceeding 11 GW.

Solar panels capture the energy of sunlight which is converted into electricity. This is known as a solar photovoltaic (PV) system, usually called solar PV. Solar PV technology is a source of price-competitive, zero greenhouse gas emission energy for homes and businesses across Australia.

The Australian Government through ARENA is supporting Australian research and development in solar photovoltaic and solar thermal technologies as part of its commitment to making renewable energy technologies more affordable and increasing the amount of renewable energy used in Australia.

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Australian solar PV research and development is already world leading. A key solar panel technology, the PERC solar cell, was invented and developed in the University of New South Wales. PERC technology is core to more than 80 per cent of solar PV cells manufactured today.

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The Australian Government's Solar Consumer Guide provides free and expert guidance on rooftop solar and batteries for your home or small business. This step-by-step guide provides information to help you choose, use and maintain ...

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Over the past three decades, the solar PV market in Australia has moved from off-grid to residential grid to commercial systems, with strong growth now in the large-scale utility and industrial markets.

As a major source of renewable energy in Australia, even small improvements to the technology in solar photovoltaic (PV) cells can translate into large gains as more and more solar panels are installed on rooftops and in solar farms across the nation.

CSIRO's printed flexible solar cell research is the latest innovation in thin-film solar technology, following the development of "paper-thin" solar cells by MIT in December 2022.

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