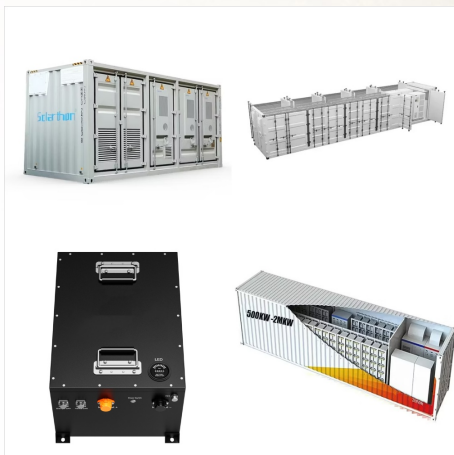




In 2016, when the Australian Renewable Energy Agency (ARENA) launched the \$100 million Large-scale Solar funding round, renewable energy constituted a very small fraction of the energy mix. ARENA is making the benefits of solar available to more Australian energy consumers. It is anticipated that the Project which features over 50,000 PV



At ARENA's Board strategy day last year, I asked each of my Board members to predict what Australia's emissions would be in 2050. At the time, Australia's domestic greenhouse gas emissions were approximately 500 Mt of CO2 equivalent, and my Board's predictions for 2050 ranged from 250 Mt remaining (so only a 50% reduction on current emissions), all the way ???

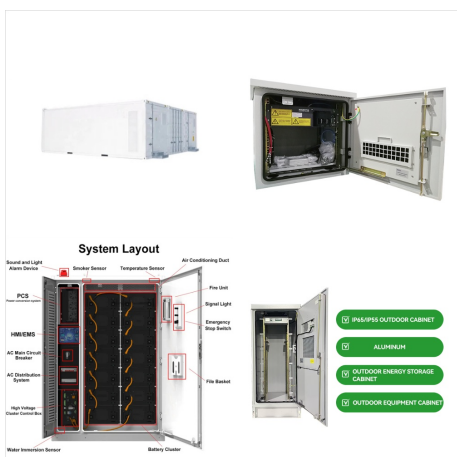


Solar PV research and development in Australia. As a major source of renewable energy in Australia, even small improvements to the technology in solar photovoltaic (PV) cells can translate into large gains as more and more solar panels are installed on rooftops and in ???

# ARENA GOV AU ABOUT-RENEWABLE-ENERGY SOLAR-ENERGY



Susan has worked in the energy and infrastructure sectors for over 30 years across Australia, the Middle East, Indonesia and North America. She has held leadership, commercial, advisory, technical and operational roles in renewable energy, upstream oil & gas, project development, power generation, electricity transmission and distribution.



Alex Campbell tells us why long duration energy storage is an important foundation to Australia's clean energy transition. About ARENA We support the global transition to net zero emissions by accelerating the pace of pre-commercial innovation, to the benefit of Australian consumers, businesses and workers.



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.. Large scale solar farms are also on the rise in Australia, with almost 7 GW of generation ???

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## ABOUT-RENEWABLE-ENERGY

### SOLAR-ENERGY



We support the global transition to net zero emissions by accelerating the pace of pre-commercial innovation, to the benefit of Australian consumers, businesses and workers. Seek Funding. We fund projects that can help accelerate ???



However, renewable energy mining projects face early-mover costs and barriers due to the limited number of projects globally from which to draw knowledge, experience and confidence. Project innovation. Renewable energy firm juwi partnered with construction firm OTOC to construct the project, which is owned by the French renewable energy firm Neoen.

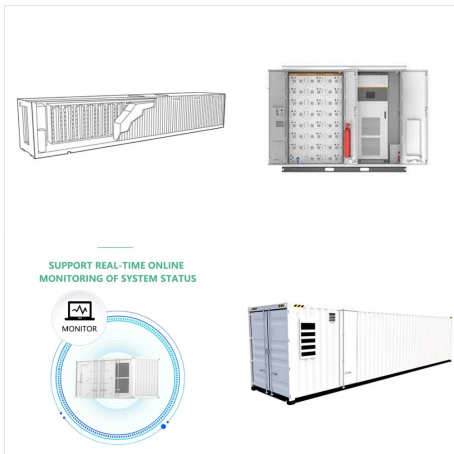


ARENA is the Australian Renewable Energy Agency. We were established by the Australian Government on 1 July 2012. We support the global transition to net zero emissions by accelerating the pace of pre-commercial innovation, to the benefit of Australian consumers, businesses and workers.

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## ABOUT-RENEWABLE-ENERGY

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ARENA has allocated \$500 million to Round 1A: Solar PV Manufacturing Innovation. Round 1 A focuses on modules, inputs to modules (e.g. solar glass and frames) as well as deployment systems (e.g. innovative solar racking). Round 1B ARENA has allocated \$50 million to Round 1B: Solar PV Manufacturing Studies: feasibility studies and FEED. How it works



The Australian Renewable Energy Agency (ARENA) has today welcomed \$1 billion in new funding to help unlock domestic solar photovoltaic (PV) manufacturing across the entire supply chain. The Australian Government announced the establishment of the Solar Sunshot program to grow solar PV manufacturing in Australia and provide a pathway for the



One step closer to an ultra low cost solar future. Projects funded by ARENA are bringing the nation closer to a future where ultra low cost solar will be the backbone of the clean energy transition. Innovation Bay and ARENA are now taking applications for the Innovation Bay Renewables Start-Up Showcase 2024. Australian Renewable Energy



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## ABOUT-RENEWABLE-ENERGY

### SOLAR-ENERGY



In 2016, when the Australian Renewable Energy Agency (ARENA) launched the \$100 million Large-scale Solar funding round, renewable energy constituted a very small fraction of the energy mix. Area of innovation. At the time of funding, the large-scale solar PV industry in Australia was in its infancy. The 12 new large-scale projects will change



ARENA sees ultra low-cost solar as a key factor in Australia becoming a renewable energy superpower. While the currently available solar PV technology is sufficient for domestic energy use, ultra low-cost solar will be needed to significantly reduce the cost of renewable electricity for heavy industrial processes including enabling the



Wind energy in Australia. This energy type is one of Australia's main sources of renewable energy, generating enough electricity to meet 7.1 per cent of the nation's total electricity demand. At the end of 2018, there were 94 wind farms in Australia, delivering nearly 16 GW of wind generation capacity.

# ARENA GOV AU ABOUT-RENEWABLE-ENERGY SOLAR-ENERGY



The Australian Renewable Energy Agency (ARENA) welcomes expanded funding and new budget programs announced in the 2024-25 Federal Budget. "The Solar Sunshot program will enable Australia to take a first step in establishing a local solar PV manufacturing industry and supply chain. Playing a meaningful role in the solar PV supply chain is



By connecting investment, knowledge and people to deliver energy innovation, we are helping to build the foundation of a renewable energy ecosystem in Australia. Cost competitive CST has the potential to contribute over the longer term to an overall reliable, affordable electricity system with a high share of renewable energy.



Solar and wind supplied more electricity than the demands of all households in 2021-22, new data has revealed. The Australian Bureau of Statistics (ABS) has published the latest update to the Energy Account, which counts the total energy resources produced, consumed and exported by Australia.. The 2021-22 financial year is more than a year ago, but ???

# ARENA GOV AU ABOUT-RENEWABLE-ENERGY SOLAR-ENERGY



? The Australian Renewable Energy Agency (ARENA) has announced the six startups it has selected to present at the fifth annual Innovation Bay and ARENA Renewables Startup Showcase. The event is returning for the fifth ???



An industry roadmap for domestic solar PV manufacturing supported by the Australian Renewable Energy Agency (ARENA) outlines a credible pathway for Australia to build domestic supply chains from raw material processing to module manufacturing. At the forefront of the white paper is ARENA's 30-30-30 vision for ultra low-cost solar in



? First, Australia's National Electricity Market (NEM) is set to undergo a major transformation, with new data from Cornwall Insight projecting an increase in solar, wind and storage capacity by over 150 GW by 2043 to 208 ???

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## ABOUT-RENEWABLE-ENERGY

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The Mars Petcare Wodonga Solar Thermal Plant will meet approximately 50% of the process steam demand at the factory and reduce greenhouse gas emissions up to 4, 0 00 t CO<sub>2</sub>-e per annum, demonstrating a clean energy pathway to generate renewable steam for Australian food and beverage manufacturers and broader industry.



The Australian Renewable Energy Agency (ARENA) has today opened the first phase of the \$1 billion Solar Sunshot program to support innovation in Australia's solar photovoltaic (PV) manufacturing industry. Solar Sunshot was announced by the Australian Government in March and the Program Guide!



The ARENA board sets the investment strategies and priorities, oversees the running of our agency, and approves funding for projects up to \$50 million. Appointed members have experience and knowledge in either renewable energy, technology, commercialisation, business investment or corporate governance.



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## ABOUT-RENEWABLE-ENERGY

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Department of Resources, Energy and Tourism .  
ARENA assumed responsibility for projects under the following programs managed by the former Department of Resources, Energy and Tourism.  
Status: Past; Australian Solar Institute . The Australian Solar Institute (ASI) operated from August 2009 before being merged into ARENA on 31 December 2012.



RayGen has developed a new approach to solar generation and long-duration energy storage.  
Today, the National Electricity Market energy grid is comprised of ~25% variable renewable energy generation through solar and wind. These generation sources are an important step for the country's decarbo



Deliver the targeted programs in the 2024-25 Federal Budget. In addition to delivering the above strategic priorities, we are also recognised for our expertise in providing grant funding on behalf of the Australian Government to improve the competitiveness and supply of renewable energy in Australia. Since October 2020, ARENA has received funding totalling ???

# ARENA GOV AU

## ABOUT-RENEWABLE-ENERGY

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On behalf of the Australian Government, The Australian Renewable Energy Agency (ARENA) has today announced \$11 million in funding to innovative Australian solar technology company SunDrive Solar to expand its novel solar cell metallisation technology from prototype scale (1.5 MW/yr) to commercial capacity (>100 MW/yr).



On behalf of the Australian Government, the Australian Renewable Energy Agency (ARENA) has today announced it has awarded \$41.5 million in funding across 13 research projects to support research and development (R&D) and commercialisation activities that aims to significantly reduce the cost of solar.