



Solar thermal power generation in Australia

How is solar energy used in Australia?

Australia is well placed to harness solar thermal energy. Solar thermal energy is used in three main ways: solar hot water heating, production of steam for electricity generation and space heating through building design. 85% of electricity in Australia is generated by coal-fired power stations.

Can solar thermal be a cost-effective energy solution in Australia?

Given Australia's exceptional solar resources, Solar Thermal has the potential to be a cost-effective technology solution for the provision of multiple hours of renewable power and/or heat. In 2022, the Australian Solar Thermal Research Institute (ASTRI) has continued to highlight the role of Solar Thermal in Australia's future energy systems.

Is solar a reliable power source for Australia's Energy Future?

We're making solar a reliable, stable power source for Australia's energy future. Our Solar Technologies team in Newcastle works on new technologies for power generation and energy storage. We are leading the way in next-generation solar cells, and concentrated solar thermal (CST) research, specialising in high-temperature central receiver systems.

Does Australia have a solar hot water industry?

Australia has a small but long established solar hot water industry. Liddell Power Station had a concentrating solar thermal adjunct to the coal-fired power station. It was designed by Solar Heat & Power, now part of Areva Solar.

How can Australia become a global leader in concentrated solar thermal technology?

By transitioning to this advanced solar thermal technology, industries can achieve greater efficiency and lower operational costs, contributing to a more sustainable future. ASTRI is an international collaboration transforming Australia into a global leader in concentrated solar thermal technologies.

How does solar PV work in Australia?

It uses a field of mirrors to reflect sunlight onto a device called a receiver, which transfers the heat to a thermal energy storage system. Energy can then be released from storage as required. Solar PV generated approximately 10 per cent of Australia's electricity in 2020-21, and is the fastest growing generation type in Australia.

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OverviewCommercial applicationsEnvironmental importanceSolar resources of AustraliaResearchDevelopmentSee alsoExternal linksAustralia has a small but long established solar hot water industry. Liddell Power Station had a concentrating solar thermal adjunct to the coal-fired power station. It was designed by Solar Heat & Power, now part of Areva Solar. Cloncurry, Queensland is to be the site of a 10 MW power station using 8,000 mirrors to reflect sunlight onto graphite blocks. Water pumped through the blocks will be turned into steam to powe...

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