Solar energy research and development australia

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Solar PV Research Guidelines. ARENA is currently calling for applications for its ...

Application Outcome October 2017 Successful applicants will be notified by in late-October 2017.

We present knowledge sharing from experts in energy technology, innovation and business.

Stay up to date with this valuable knowledge by following us on social, or by signing up to ARENAWIRE or the ARENA Insights newsletter.

We are leading the way in concentrated solar thermal research, specialising in high-temperature central receiver systems.

Our Energy Centre in Newcastle contains the only high-temperature solar thermal research facility of its type in Australia, home to the largest high-concentration solar array in the Southern Hemisphere.

Our challenge is how to make this solar a reliable, stable part of Australia"s energy future.

[Music plays and text appears: Supercritical solar steam: the new frontier for power generation]

[Image changes to show an array of mirrors reflecting sunlight onto a solar tower and then moves to show moving solar panels]

[Image changes to show Mike Collins, Research Projects Officer, CSIRO Energy Technology]

Mike Collins: Solar thermal energy works by concentrating sunlight using mirrors. The light is then shone up on top of the tower where there’s a solar receiver and in that receiver there’s a panel of tubes which steam is flowing inside. That steam is heated to high temperatures and then it flows back down the tower to a turbine at the bottom of the tower, a steam turbine. The steam flowing through that turbine spins the generator to generate electricity.

[Image changes to show Robbie McNaughton, Research Projects Officer, CSIRO Energy Technology]

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