

# New breakthrough in solar thermal power generation

What is the future of solar energy?

The Future of Solar Energy considers only the two widely recognized classes of technologies for converting solar energy into electricity -- photovoltaics (PV) and concentrated solar power (CSP), sometimes called solar thermal) -- in their current and plausible future forms.

Could a new solar technology make solar panels more efficient?

Solar cells that combine traditional silicon with cutting-edge perovskites could push the efficiency of solar panels to new heights. Beyond Silicon, Caelux, First Solar, Hanwha Q Cells, Oxford PV, Swift Solar, Tandem PV 3 to 5 years In November 2023, a buzzy solar technology broke yet another world record for efficiency.

Can solar energy deliver heat at high temperatures?

Using solar radiation,they have engineered a device that can deliver heatat the high temperatures needed for the production processes. The team led by Emiliano Casati,a scientist in the Energy and Process Systems Engineering Group,and Aldo Steinfeld,Professor of Renewable Energy Carriers,has developed a thermal trap.

Is swift experimenting with next-generation solar technology?

Swift,which operates this facility in a quiet industrial neighborhood in Silicon Valley,is one of a growing group of companies experimenting with next-generation solar technology. The startup is racing to produce commercially viable solar cells that layer the traditional silicon with materials called perovskites.

Is concentrating solar power the future of electricity generation?

(Getty Images: John Moore) There was a time, not long ago, when the future of electricity generation looked something like the opening scene of Blade Runner 2049, with endless arrays of mirrors in concentric circles. Concentrated solar power (CSP) uses mirrors to focus heat from the Sun to drive a steam turbine and generate electricity.

Is concentrated solar power making a comeback?

Concentrated solar power is an old technology making a comeback. Here's how it works The 100MW Cerro Dominador CSP plant in the Atacama Desert,Chile. (Getty Images: John Moore)

A new energy storage breakthrough could pave the way for low cost thermal systems based on solar energy -- without any need for specialized hardware or rare-earth materials. ... power generation ...

Large-scale solar concentrating technologies are already established at an industrial scale for solar power generation, for example in Spain, the US, and in China. These plants typically operate at up to 600 ...

Australia"s science agency CSIRO announced that its concentrated solar thermal research facility in

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Newcastle, New South Wales had a breakthrough as part of research investigating the potential ...

May 4, 2023 -- Perovskite solar cells (PVSCs) are a promising alternative to traditional silicon-based solar cells because of their high power-conversion efficiency and low ...

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Making solar thermal power generation in India a reality - Overview of technologies, opportunities and challenges Shirish Garud, Fellow and Ishan Purohit, Research Associate ... 14500 MW by ...

Researchers from the University of New South Wales's School of Photovoltaic and Renewable Energy Engineering have now successfully tested a device that can convert infrared heat into electrical power. The team, which ...

A new thermal trap developed by researchers at ETH Zurich uses sunlight to reach a temperature of over thousand degrees Celsius. The new technology minimises heat losses and thus makes it possible to generate this ...

Current commercially available solar panels convert about 20-22% of sunlight into electrical power. However, new research published in Nature has shown that future solar panels could reach ...

Instead of burning fossil fuels to smelt steel and cook cement, researchers in Switzerland want to use heat from the sun. The proof-of-concept study uses synthetic quartz ...



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