

Advanced thermovoltaic systems France





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Earthshot winner receives \$1m to scale industrial heat into electricity

Advanced Thermovoltaic Systems has received \$1m funding from The Earthshot Prize to scale its technology which captures industrial waste heat and converts it into electricity. The winner of the 'Fix our Climate' category believes its technologies have the potential to save 'gigatonnes' of carbon dioxide (CO₂) and could be a 'game

2024 Earthshot Prize Winners Announced In Cape Town

Among this year's winning entries is Advanced Themovoltaic Systems, a Canadian company that has designed an industrial scale modular unit that produces electricity directly from waste heat and



Converting industrial waste heat into power

Initially investigating advanced materials the company could use for solar panels, the Advanced Thermovoltaic Systems (ATS) team realised that its panels could generate electricity without light, only requiring waste ambient heat.

Earthshot Prize honours sustainability game-changers

Canadian-based Advanced Thermovoltaic Systems (ATS) was recognised for its technology



to capture and convert industrial waste heat into sustainable electricity without the need for moving parts. It won the 'Fix Our Climate' Prize at this year's Earthshot Awards Ceremony, held last week in Cape Town, South Africa.



Advanced Thermovoltaic Systems

Advanced Thermovoltaic Systems (ATS) has developed a simple, safe, and scalable technology to capture waste heat and convert it into electricity, offering a game-changing solution for heavy industries like cement and steel production.

ATS, Advanced Thermovoltaics Systems , Waste heat to power

Advanced Thermovoltaics Systems, turning Industrial Waste Heat directly into Sustainable Electricity. Lower operating costs while reducing your carbon footprint. ats.energy.



Advanced Thermovoltaic Systems , Details , Darcy Partners

Founded in 2008, Advanced Thermovoltaic Systems, LLC (ATS) is developing a thermovoltaic device also known as a thermoelectric generator (TEG) to convert heat directly into electrical energy through the Seebeck effect. After more than 12 years of research, design, and development yield, ATS has patented its device.



The 2024 Earthshot Prize Winner

Presently, turbines are one of the industries interested in ATS's work. For example wind turbines and aircrafts using gas turbines engines creating huge amounts of heat, currently massive axial fans are used to cool down these systems but being particularly large and complex with lots of infrastructure required to surround them, and the advanced skillsets ...



Press

Advanced Thermovoltaic Systems (ATS) is revolutionizing the way industries manage waste heat, providing the world's first and only solid-state solution that converts industrial waste heat into clean, sustainable electricity without the need for turbines or moving parts.

ATS, Advanced Thermovoltaics Systems , Waste heat to ...

Advanced Thermovoltaics Systems, turning Industrial Waste Heat directly into Sustainable Electricity. Lower operating costs while reducing your carbon footprint. [ats.energy](https://www.ats.energy).



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