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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.

Advanced Thermovoltaic Systems" modular solid-state systems are not only more efficient than existing thermovoltaic solutions but offer higher density. The heat-to-power efficiency today is at 13 to 14%, with projections to get to 24% (1/3 of the use of the theoretical limit of waste heat).

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 offers a 99% circular, scalable, cost-effective, and revenue-positive ...

Advanced Thermovoltaic Systems, High Ambition Coalition for Nature and People, Keep IT Cool, Altyn Dala Conservation Initiative and Green Africa Youth Organization (GAYO) revealed as 2024 Earthshot Prize Winners during star-studded ceremony broadcast live across 50 African countries Each Winner to receive £1 million to accelerate and scale the ...

Advanced Thermovoltaic Systems specializes in the discovery of all temperature heat to power at a megawatt-scale. Its patented, disruptive, heat-to-value solution transforms previously rejected heat to enterprise competitive advantage.

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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.

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.

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enterprise competitive advantage. Products and Services. Powered by AI .

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 ...

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 ...

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.



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