

# Renewable Energy and Resources & Energy Materials and Fuel Cell Research

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## **Waste to energy generating: An innovative breakthrough technology for generating electricity from low-potential waste heat energy**

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Waste to Energy Inc., Canada

SME with a strong R&D background and capacity developed an innovative technology to generate electrical energy from low-potential renewable and sustainable waste heat energy sources. Our company is IP-rich, high-growth-potential business with extremely high demand around the world. Our goal is to develop the most innovative breakthrough thermodynamic cycle that will allow using low-potential waste heat energy in the range from 122 to 392 degrees Fahrenheit or from 50 to 200 degrees Celsius for the generation of electricity and cold with an efficiency of at least 30%. The technology's operation is based on an innovative thermodynamic cycle with an ecologically friendly mixture composition of a refrigerating agent and an absorbent; it includes, unlike the known ones, a regulating the working fluid composition system that allows to expand additionally the cycle's temperature range and to significantly improve the efficiency of the electricity generation due to the users use for such generation even negative temperatures below the ambient level.

**Expertise:** Governmental and private Companies, Research Centers, investors interested in the development and commercialization of innovative breakthrough solutions for power generation from low-potential waste heat energy around the world.

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