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INFERNO



SUSTAINABLE ENERGY HARVESTING FROM INDUSTRIAL WASTE HEAT






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INFERNO aims to develop a system to turn industrial waste heat into electricity with an innovative design strategy.

The project's ultimate goal is to create an efficient and easy-to-install system that helps reduce greenhouse gas emissions.

OBJECTIVES

-  Short-term Objective: Integrate commercially available thermophotovoltaic (TPV) cells, concentrators, and thermoelectric generators (TEG) in the first hybrid system demonstrator.
-  Mid-term Objective: Integrate the TPV cell with a reflector and TEG device using a liquid-based heat exchanger to individually test each component's performance and reliability.
-  Main Objective: Develop a compact energy conversion system to convert industrial waste heat into usable electricity.

