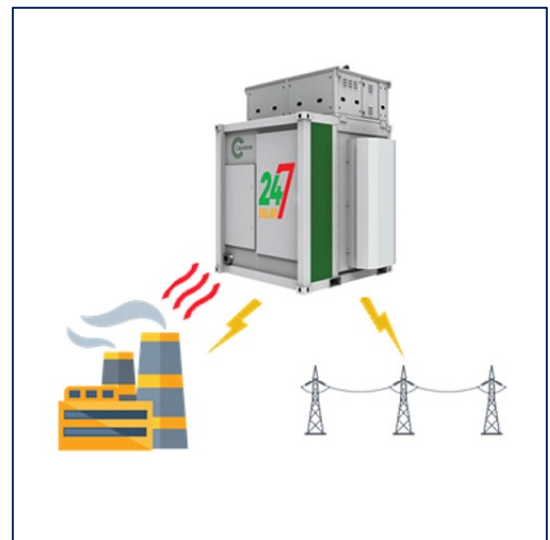


Heat2Power™ TURBINE

CONVERT WASTED HEAT TO ELECTRICITY

Harness high-temperature industrial waste heat to produce electricity with 247Solar's *Heat2Power™* turbine - the first-ever commercial turbine able to produce power directly from ambient-pressure hot air without combustion or emissions. Now, facilities that produce air above 850°C (1550°F) can convert this otherwise-wasted resource into electricity to help power operations or to sell as an additional revenue stream.

Our *Heat2Power* turbine is a simple, profitable solution. The 200 kWe turbine, made by Capstone® Turbine Corporation and modified to 247Solar specifications, is the most reliable and bestselling in its class. It has a compact design and is delivered to the site for easy, low-cost installation and operation.



***Heat2Power* TURBINE FEATURES**

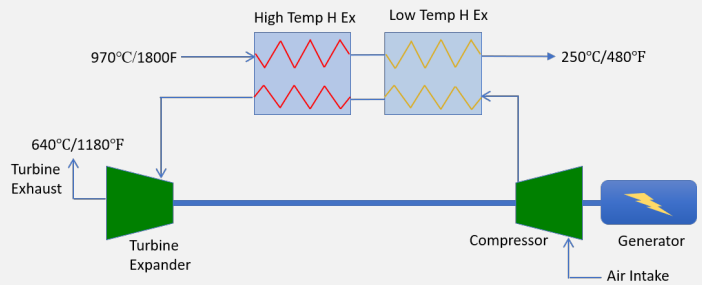
- Powered directly by ambient-pressure hot air – not steam
- Offers two exhaust streams: 250°C/480°F and 640°C/1180°F for other processes requiring heat
- For time-of-day load shifting up to 10 hours, e.g., to avoid demand charges, 247Solar offers its HeatStorE™ thermal battery as an option
- Proven technology with tens of millions of operating hours
- One moving part – minimal maintenance and downtime
- Remote monitoring and diagnostic capabilities
- Optionally, the turbine can burn fuel, including hydrogen, for 24/7 dispatchability



The 247Solar *Heat2Power*™ Turbine — part of 247Solar's *Ultra-High Temperature Technology Platform*.

HOW IT WORKS

High-temperature industrial exhaust gas (min. 900°C) is supplied to the turbine at ambient pressure, where it passes through a proprietary high-temperature heat exchanger. This transfers the heat to the turbine's compressed air, which enters the turbine's expander at the required pressure and temperature to drive the turbine. No fuel is required, and no emissions are produced by this process.



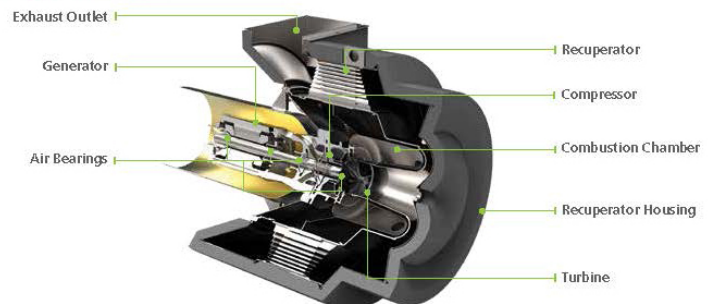
SUMMARY SPECIFICATIONS

- Rating: 200 kWe Electrical
- Hot Air/Gas Flow, 850-1000°C: 1.3 kg/s (2.9 lbm/s)
- Electrical Conversion Efficiency: 30%
- Combined Heat and Power Efficiency: Up to 90%
- Exhaust Temperature 1: 640°C (1200°F)
- Exhaust Temperature 2: 280°C (535°F)
- Voltage: 400-480 VAC
- Frequency: 50/60 Hz, Grid Connect
- Electrical Service: 3-Phase, 4-Wire Wye
- Compatible Fuels: With external combustor, can be configured to burn a wide variety of fuels, including biomass and 100% hydrogen



Note: Nominal full power performance at ISO conditions: 15 °C/59 °F, 14.696 psia, 60% RH

Specifications are not warranted and are subject to change without notice.



Cross-section of a standard Capstone C200 turbine