



tech

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608-238-6001 [ TEL ]

greg@infinityturbine.com [ Email ]

**Infinity Turbine  
LLC**

**Technology of Infinity Turbine LLC**

**Structured Data**

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Product: Waste Heat to Energy Systems and Technology
Working Fluid: Refrigerants, water, and CO2
Machine: ORC and ROT Radial Outflow Turbine System
Industry: Energy
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Applications: Waste heat to power, utilities, server farms, bitcoin mining, hot geothermal.

Machine Features: One moving part and solid state turbine technology.

High Technology Uses: Converting waste heat to power starting at 30C.

Other Technology: Tribo effect power, hydrodynamic cavitation hot water power and extraction. Modular block technology. Gas leverage turbine for production of fuels from liquid CO2."

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**PDF Version of the webpage (first 10 pages)**

This webpage QR code

## **Introducing the Infinity Turbine Radial Outflow Turbine Generator - Organic Rankine Cycle - ORC Turbine**

Infinity Turbine develops and builds systems for making power from waste heat. These include Organic Rankine Cycle and CO<sub>2</sub> Rankine Cycle. The ROT (radial outflow turbine) operates on a single rotor with multiple stages to direct drive a 50/60 hz AC generator, no gearbox required, and is optimal for Organic Rankine Cycle (ORC) applications.

- Producing The World's Smallest CO<sub>2</sub> Rankine Cycle Demonstrator
- Use 95 Percent Of The Worlds Available Waste Heat For Fuel Source
- Turbine and Maker Plans Download
- Developing EFA Electrostatic Turbine
- Developing TriboElectric Power - No Moving Parts



## Introducing the IT Micro CO2 Rankine Cycle Demonstrator

Phase Change Generator. Electrostatics Generator Using Tribo-Tube:

Testing and Development Platform

Available as a prototype testing platform, Infinity has developed a micro-sized CO2 system which demonstrates CO2 Rankine Cycle (phase change flow cycle). The high pressure filter housing (off-the-shelf) used as the expander vessel, can also be used with TriboGen, or a combination of a turbine (not included since we don't have millions to develop it) and static electricity harvesting system.

Our hybrid food-grade plastic elements can also be used, for electrostatic precipitation (ESP), if you have particulates entrained in the gas flow. This is to demonstrate the potential of the CO2 Rankine Cycle as a point-of-use distributed power generation technology using low grade heat via CO2.

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