



Published on *Ormat Technologies Inc.* (<http://www.ormat.com>)

[Home](#) > Printer-friendly PDF

---

# Organic Rankine Cycle

The ORMAT<sup>®</sup>ENERGY CONVERTER (OEC), [1] is a proprietary implementation of Organic Rankine Cycle technology. The Organic Rankine Cycle is a thermodynamic process where heat is transferred to a fluid at a constant pressure. The fluid is vaporized and then expanded in a vapor turbine that drives a generator, producing electricity. The spent vapor is condensed to liquid and recycled back through the cycle.

The Organic Rankine Cycle makes use of an organic fluid with a boiling point lower than water. The fluid enables recovery of heat from lower temperature sources such as industrial waste [2] and geothermal heat. The low temperature heat is used to drive a turbine and create electricity.

Ormat technology involves original designs of turbines, pumps and heat exchangers, as well as formulation of the organic motive fluids.

0



[Technology](#) [3]

Copyright © 2017 Ormat. All Rights Reserved.

- [Site Map](#)
- [Terms of Use](#)
- [Careers](#)
- [Geothermal Power](#)
- [Organic Rankine Cycle](#)
- [Privacy Policy](#)

---

**Source URL:** <http://www.ormat.com/organic-rankine-cycle>

**Links:**

[1] <http://www.ormat.com/oec>

[2] <http://www.ormat.com/recovered-energy>

[3] <http://www.ormat.com/technology>