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Organic Rankine Cycle

The ORMAT[®]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.

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