



ORMAT[®]

For more information about Ormat
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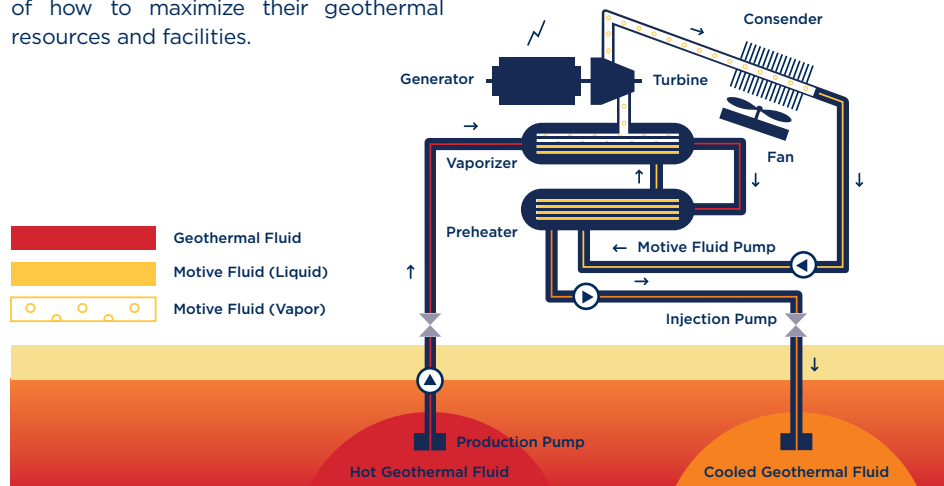
**LEADING RENEWABLE
ENERGY PROVIDER**



GEOTHERMAL BINARY POWER TECHNOLOGY

Ormat leads the global geothermal sector: exploring, designing, developing, building, owning and operating geothermal power plants around the world. We're passionate about advancing geothermal technology, providing choice, flexibility and optimum, customized solutions. When it comes to earth's energy, Ormat excels in harnessing it. With experience gained in more than 25 countries, and from working on dozens of different geothermal development scenarios, Ormat empowers clients with world-class, comprehensive understanding of how to maximize their geothermal resources and facilities.

Binary plants are ideal for geothermal reservoirs to maximize sustainability and return on investment. Binary plants maximize sustainability by reinjecting 100% of the geothermal fluid, maintaining reservoir pressures. Binary technology can be utilized on a wide range of resources from low enthalpy to high. Multiple high enthalpy binary facilities are in service around the world.



HOW IT WORKS

The fluid is extracted from an underground reservoir and flows from the wellhead through pipelines to heat exchangers in the Ormat Energy Converter (OEC).

Inside the heat exchangers, the geothermal fluid heats and vaporizes a secondary working fluid which is organic, with a low boiling point.

The organic vapors drive the turbine and then are condensed in a condenser, which is cooled by either air or water.

The turbine rotates the generator. Condensed fluid is recycled back into the heat exchangers by a pump, completing the cycle in a closed system.

