Delivering cleantech energy solutions for a sustainable future, now

GEOTHERMAL ENERGY UTILIZATION ASSOCIATED WITH OIL & GAS DEVELOPMENT
ElectraTherm’s twin screw expander replaces turbine technology with major benefits
ElectraTherm Green Machine

- Condenser
- Water
- Condenser
- Refrigerant Pump
- ET Patented Expander & Generator
- Refrigerant Vaporizer
- Receiver Tank
- Electrical Control Panel
- Refrigerant Pre-Heater
- Water Outlet
- Hot Water Inlet

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The vapor is cooled and condensed back into a liquid in the condenser.

Surplus heat captured by the evaporator is used to “boil” the working fluid into a vapor.

Under pressure, the vapor is forced through the screw expander, turning it to spin an electric generator.

The working fluid is pumped to higher pressure and returned to the evaporator to repeat the process.

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Twin Screw Rotors in Casing
Product Validation

2005 James Clayton Prize Winners

2007 Best of Show Technology

2007 Best Scientific Paper

1st Commercial Unit

Successful 3rd Party Testing

3 years of testing

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ElectraTherm Green Machines Deliver Sustainable Green Power, Electricity from Waste, On Site Power, and Recurring Revenue.
SMU Installation
50kW Green Machine