



PROJECT EVALUATION FORM

Date: _____

An analysis of the heat temperatures and flows are necessary to determine recoverable BTU. Additionally, an analysis of the condensing cycle and source are necessary in order to establish the Delta T for power generation. Your attention to detail while filling out this form is greatly appreciated. Missing information may prevent ElectraTherm from responding to your request for power output.

Company Name: _____

Name of Project: _____

Brief Project Description:

Address: _____

City: _____ State or Province: _____ Zip Code: _____ Country: _____

Contact: _____ Phone: _____ Email: _____

Installation Site Conditions

Hours of Operation: _____ HRS PER YEAR (min 6000 hours per year)

Customer Electrical Cost _____ per kWh (from Power bill – minimum 10¢ per kWh)

Heat Source:

An analysis of the heat temperatures and flows are necessary to determine recoverable BTU.

LIQUID HEAT Temp _____ °F; Flow _____ GPM (Gallons per Minute)
 (Target Minimum temp 165°F, minimum Flow 100GPM)

Type of Liquid:

Water Glycol Mix Other: _____

Source:

Geothermal Engine Solar Boiler Other: _____

Note:

For closed loop water supplies, such as engine jacket water, we will need a heat input rate to calculate your output potential. Typically, this will be in BTU/hour or kW thermal power.

Closed loop heat input rate _____ BTU/hr kW

ENGINE EXHAUST OR STACK HEAT Temp _____ ° F; Flow _____ SCFM or ACFM (Please check one)

Exhaust Heat Sources (Exhaust-to-liquid Heat Exchanger required). Please indicate one of the following.

- | | |
|---|--|
| <input type="checkbox"/> Oven | <input type="checkbox"/> Steam Boiler (operating steam pressure: _____ PSIG) |
| <input type="checkbox"/> Internal Combustion Engine | <input type="checkbox"/> Diesel Engine |
| <input type="checkbox"/> Hot Water Boiler | <input type="checkbox"/> Thermal Oxidizer |
| <input type="checkbox"/> Furnace | <input type="checkbox"/> Fume Incinerator |
| <input type="checkbox"/> Other: _____ | |

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Cooling Source

An analysis of the condensing cycle is necessary in order to establish the Delta T for power generation

WATER COOLED Temp _____ °F Flow _____ GPM (Gallons per Minute)
(Target < 70° deg F, Minimum Flow of 100 GPM)

Source of condensing water:

- | | |
|---|--|
| <input type="checkbox"/> Boiler Feedwater | <input type="checkbox"/> Boiler makeup water |
| <input type="checkbox"/> Cooling Tower | <input type="checkbox"/> Process water |
| <input type="checkbox"/> Potable water | <input type="checkbox"/> Swimming pool water |
| <input type="checkbox"/> Other: _____ | |

Note:

For other than potable water, please describe water source and quality _____

AIR COOLED
Average Ambient Temperatures
Summer _____ °F Winter _____ °F Humidity _____ %

Justification for Purchase

- | | |
|---|--|
| <input type="checkbox"/> Green Benefits | <input type="checkbox"/> Carbon Credits |
| <input type="checkbox"/> Tax Incentive | <input type="checkbox"/> Emission Reductions |
| <input type="checkbox"/> Lower Fuel Costs | <input type="checkbox"/> ROI |
| <input type="checkbox"/> Other: _____ | |

Attention End User

Your heat source and condensing source description as listed above including operating conditions has either been instrument measured and/or noted by you. Because our estimate is an analysis of expected power output for your specific application, please verify that the information is complete and accurate. This will allow us to proceed with estimated output for an ElectraTherm Green Machine.

Verified by: _____

Special Notes: