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608-238-6001 [TEL]

greg@infinityturbine.com [Email]



stranded-gas- power-generation

Infinity Turbine
LLC

Oil Producers Stranded Gas Power
Generation Strategies



This webpage QR code

Structured Data

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Company Name: Infinity Turbine LLC
 Product: Stranded Gas Heat To Power
 Applications: Oil and Gas Wells
 Construction: TEG, Absorption, Capstone Turbine, Zeolites, and more
 Uses: Stranded gas heat, producer water heat, and other sources at oil production facilities to use for power production.

PDF Version of the webpage (first pages)

<https://infinityturbine.com/stranded-gas-power-generation.html>

Oil Producers: Use your stranded gas heat to generate power, hot water, and refrigeration

Producing oil and flaring gas ? Need to use that heat for something for local or Federal regulations ?

We may have the perfect solution.

A. Solid State Power: Using Thermoelectric Devices (or Thermoelectric Generators TEG), we can convert heat into DC power. That is put through a inverter for 3-phase AC power which you can use directly. These energy harvesters take heat and make power, without any moving parts. Up to 12 percent efficiency and up to 800C heat available (higher temperatures = more cost).

B. Hot Water: Using heat exchangers, convert flare gas or hot producer water to a liquid for use of heat, or cooling.

C. Absorption Chillers: Absorption chillers are often exhaust fired using thermal energy recovered from

D. Zeolites: Zeolites give you the option of 24 hour liquid heating for cooking, water sterilization, or small amounts of hot water for heat. They can be recharged using the heat from your flare gas. The primary advantage of using Zeolites is the ability to have long term latent heat storage, which can be used any time of the day. Zeolites need to be stored in airtight and watertight containers. Zeolites can be recharged with the latent heat using any heat source between 130-250

E. Gas Turbine: The most efficient (up to 29 percent) use of your stranded gas is via a Capstone Turbine with power from 65 kW to 1,000 kW modules, that can be stacked together.

F. Bitcoin Mining: The most interesting use of stranded gas to power is for Cryptocurrency mining.

Please email or call us (TEL: 608-238-6001) for more information, consulting, or equipment costs.

IT250 Revenue based on gross sales or savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT250 (24 hours x 365 days per year x 250 kWh = 2,190,000 kWh per year):

at \$.20 per kWh = \$438,000 USD per year

at \$.40 per kWh = \$876,000 USD per year

at \$.80 per kWh = \$1,752,000 USD per year

IT1000 (1 MW) Revenue based on gross sales or savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT250 (24 hours x 365 days per year x 1000 kWh = 8,760,000 kWh per year):

at \$.20 per kWh = \$1,752,000 USD per year

at \$.40 per kWh = \$3,504,000 USD per year

at \$.80 per kWh = \$7,008,000 USD per year

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Thermoelectric Devices (Thermoelectric Generators TEG)

Solid State Power: Using Thermoelectric Devices (or Thermoelectric Generators TEG), we can convert heat into DC power. That is put through a inverter for 3-phase AC power which you can use directly. These energy harvesters take heat and make power, without any moving parts. Up to 12 percent efficiency and up to 800C heat available (higher temperatures = more cost).

Zeolites

Hot Water: Using heat exchangers, convert flare gas or hot producer water to a liquid for use of heat, or cooling.

Zeolites: Zeolites give you the option of 24 hour liquid heating for cooking, water sterilization, or small amounts of hot water for heat. They can be recharged using the heat from your flare gas. The primary advantage of using Zeolites is the ability to have long term latent heat storage, which can be used any time of the day. Zeolites need to be stored in airtight and watertight containers. Zeolites can be recharged with the latent heat using any heat source between 130 to 250 C.

Use Stranded Gas in a One Moving Part Microturbine for 3-Phase Power

Gas MicroTurbine: The most efficient (up to 29 percent) use of your stranded gas is via a MicroTurbine with power from 65 kW to 1,000 kW modules, which can be stacked together.

Oil Producers: Use your stranded gas heat to generate power for Cryptocurrency Miners

Bitcoin Mining: The most interesting use of stranded gas to power is for Cryptocurrency mining.

A Crypto Miner is basically a computer (series of computers) which solve the Blockchain puzzle needed for cryptocurrency processing. Since China has recently banned huge miner farms, there are thousands of miners needing a new home.

Having low cost on-site power and container mounted miners, may provide a huge competitive edge for crypto miners.
