

**GENTHERM**   
GLOBAL POWER TECHNOLOGIES

Power where you need it.®





# Offshore platforms operate in some of the most challenging environments on Earth

Stormy seas, blistering heat and freezing temperatures can all be challenging for remote offshore power generation. Thermoelectric generators (TEGs) are designed to meet this challenge with a solid-state design, hazardous area rating and long service life.

Gentherm Global Power Technologies is the global leader in remote power solutions and has been successfully providing power to offshore platforms for more than 30 years.

## DEPENDABLE

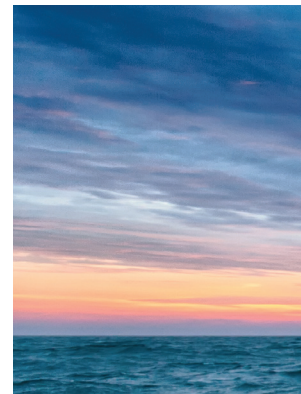
Thermoelectric generators work in any condition and don't rely on external properties, like sunlight, to run continuously and reliably.

# 99.5%

availability in all weather conditions



Zero no power days

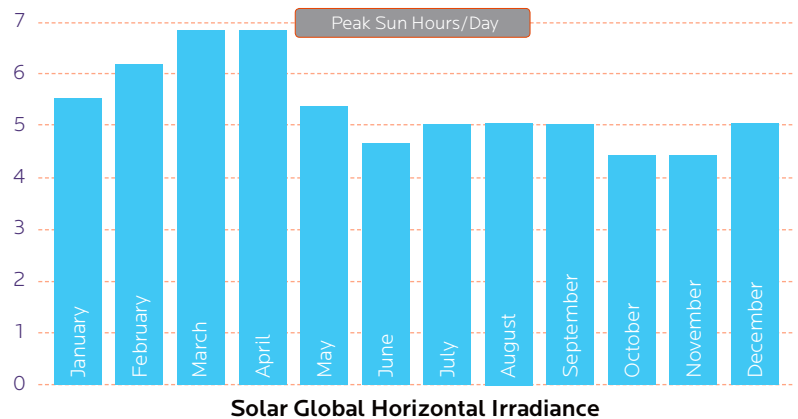


## Vs. Solar

**Location scenario:**  
Offshore, Southeast Asia

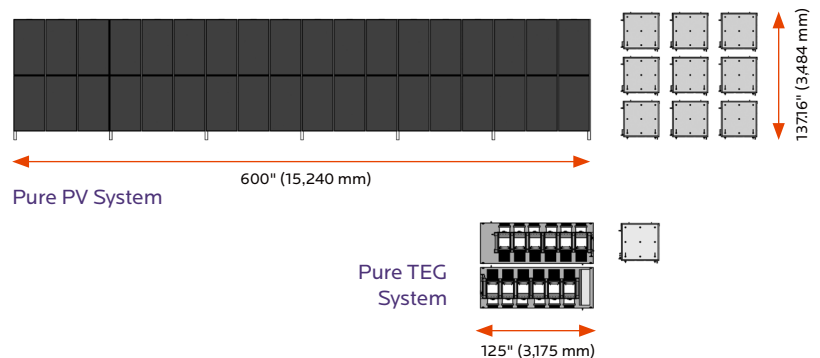
**Annual average peak sun hours/day:**  
NASA 22-year period  
(kWh/m<sup>2</sup>/d) = 5.29

**Average monthly no sun days:**  
7 consecutive



## Footprint comparison

Space is at a premium on offshore platforms. With a small footprint, TEGs can be installed on any level of the platform offering the flexibility and convenience of reliable power anywhere you need it.

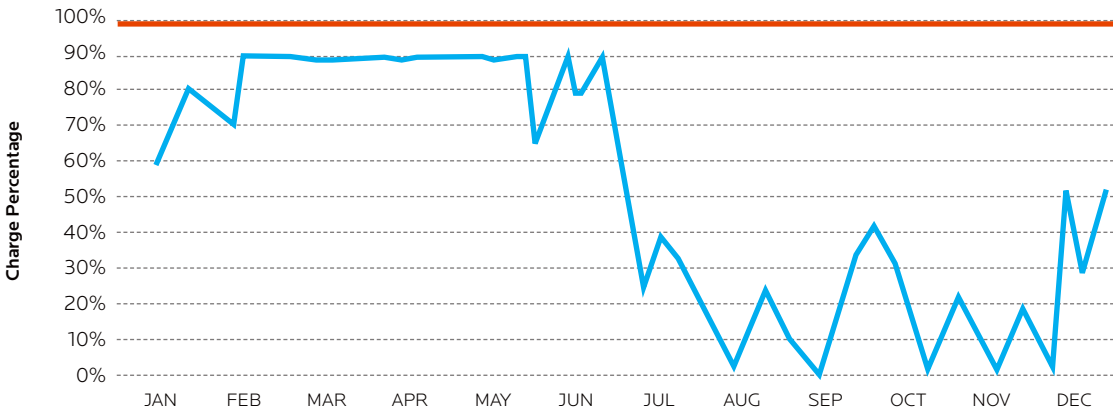


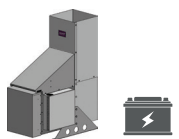
SCADA ⚡ Lighting ⚡ Valve Automation ⚡ Communications






 **Battery state of charge** 1,000 watt system — Average solar year





**TEG w/Battery**  
99.5% 1 Day Autonomy



**Solar (PV) w/Battery**  
95% 3 Days Autonomy

 **Total cost of ownership** 1,000 watt system, 20 year timeline

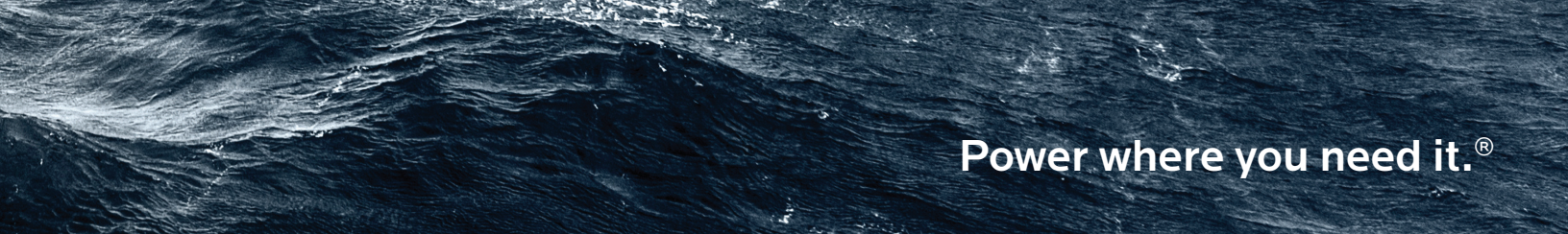


 TEG w/battery  
Float Charge \$



    Photovoltaic (PV/Solar)  
Deep Cycle \$ \$ \$ \$

Beacons  Motors  Instrumentation  Navaid







## Power where you need it.®

With a solid-state design and minimal maintenance requirements, Gentherm Global Power Technologies' TEGs are available with hazardous area and explosion proof ratings — the perfect solution for remote power delivery on offshore platforms.

### Model 1120

- ✦ 110 Watts @ 6.7 Volts
- ✦ 100 Watts @ 12 Volts
- ✦ 100 Watts @ 24 Volts
- ✦ 100 Watts @ 48 Volts

#### Key Design Features

- ✦ Hazardous Area Rated
- ✦ Automatic Spark Ignition (SI)
- ✦ Automatic Fuel Shut-Off (SO)
- ✦ Fuel Filter
- ✦ Low Voltage Alarm Contacts (VSR)
- ✦ Volt & Amp Meter
- ✦ Reverse Current Protection
- ✦ Flame Arrestor
- ✦ CSA Certified (Class 1, Div 2 Group D, Temp T3)

#### Optional Features

- ✦ FM Certification (Class 1, Div 1, Temp T3)
- ✦ 316 SS Regulator & Fuel Valve
- ✦ Cathodic Protection Interface
- ✦ Pole Mount or Bench Stand
- ✦ Intake Air Filter



### Model 1500

- ✦ 500 Watts @ 24 Volts

#### Key Design Features

- ✦ Hazardous Area Rated
- ✦ Automatic Spark Ignition (SI)
- ✦ Automatic Fuel Shut-Off (SO)
- ✦ Fuel Filter
- ✦ Low Voltage Alarm Contacts (VSR)
- ✦ Volt & Amp Meter
- ✦ Reverse Current Protection
- ✦ Flame Arrestor
- ✦ CSA Certified (Class 1, Div 2 Group D, Temp T3)



SCADA ✦ Lighting ✦ Valve Automation ✦ Communications







**35,000+**  
TEGs deployed globally

**55+**  
Countries around the world

**40+** Years' experience

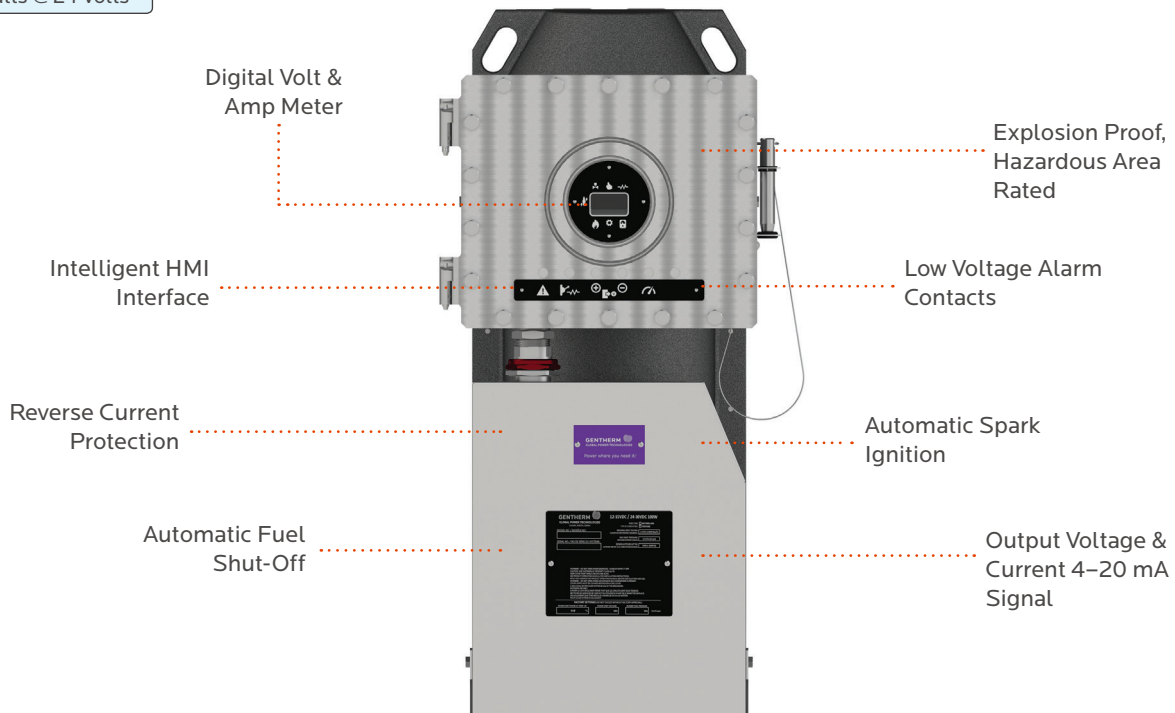
GPT provides cost-effective remote power solutions for businesses around the world, where power is unavailable or unreliable.

## Say hello to the Model S-1100

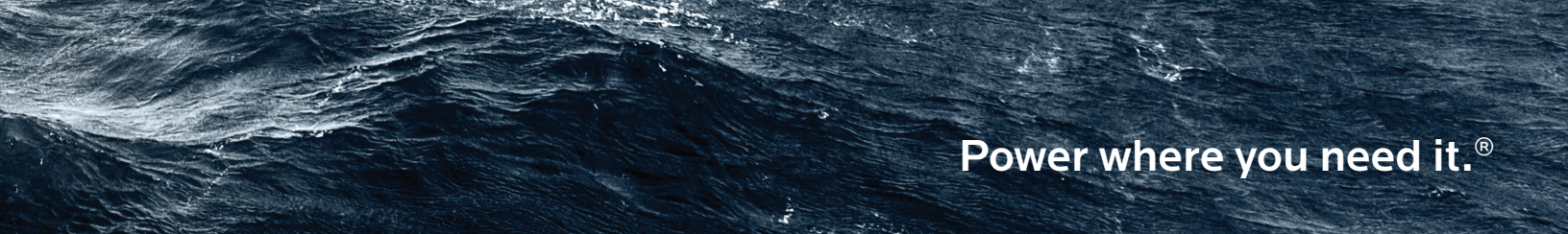
Reliable remote power for the most extreme environments on Earth.



- ⚡ 100 Watts @ 12 Volts
- ⚡ 100 Watts @ 24 Volts



**Bacons** ⚡ **Motors** ⚡ **Instrumentation** ⚡ **Navaid**



**Power where you need it.®**






Power where you need it.®



**Contact:**

P 403 236 5556  
E [gptsales@gentherm.com](mailto:gptsales@gentherm.com)  
W [www.genthermglobalpower.com](http://www.genthermglobalpower.com)

 16, 7875 – 57 Street SE  
Calgary, Alberta T2C 5K7

 1718 North Fry Road, Unit #133  
Houston, Texas 77084

**GENTHERM**   
GLOBAL POWER TECHNOLOGIES