Operational challenges for solar only systems include:

Daily available sunlight: no sun = no power.

Extreme cold: during winter months, solar systems fail due to extreme temperatures, snow covered solar panels, and reduced daily sunlight. These conditions prevent batteries from maintaining a consistent or minimal charge, often resulting in costly replacement due to failure.

Extreme heat: contrary to popular belief, batteries do not work well in extreme heat. In fact, extreme heat damages and degrades battery performance making frequent replacement the only option. Cost of batteries, along with cost of site visits, becomes a burden.

The solution: by incorporating a thermoelectric generator (TEG) to your site, you can eliminate system downtime while saving on operational costs (site visits, maintenance, battery replacement) in both the short- and long-term.

Global Solar Hybrid

We make solar work for the world.

There are times when battery-based solar systems fail to provide reliable power to critical systems, including:

Leak Detection  Cathodic Protection  SCADA  Security & Surveillance  Instrumentation  Pump Power

Available system loads: 50W 100W 200W 500W
Choose a complete system or simply add a TEG or solar array to your existing site to enjoy the benefits of a TEG/Hybrid solution.

Features & Benefits:
- 50–500 watt systems available.
- 12V or 24V output.
- Lowest operational cost on the market.
- Optimizes & extends battery life.
- Minimizes fuel consumption.
- Small environmental footprint.
- Remote monitoring.

The most reliable remote power system available on the market today.

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