

# Solar® Turbines

A Caterpillar Company

Powering the Future Through Sustainable, Innovative Energy Solutions

## INTELLIGENT ELECTRIC BOOSTER

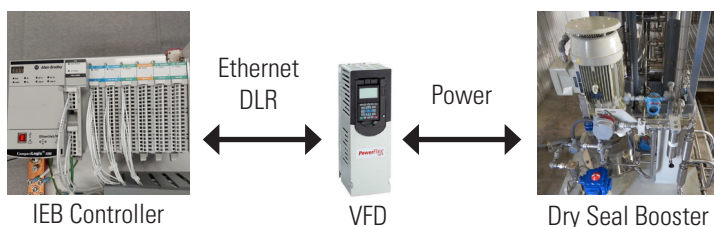
The newest offering in Solar Turbines' line of intelligent system upgrades is now available. The intelligent electric booster (IEB) system is a compact, cost-effective upgrade solution for those interested in implementing the electric seal gas boost system on pre-Turbotronic™ 4 controlled packages.

### System Solution

The IEB complements the use of the electric seal gas boost system on legacy Turbotronic control systems where interface with modern variable frequency drives (VFD) is not possible due to the absence or obsolescence of communication protocols required for the configuration and operation of the VFD.

This booster system upgrade:

- Protects the dry gas seal, improving reliability and reducing maintenance
- Avoids unnecessary venting, thereby reducing methane gas emissions
- Generates savings by keeping the compressor train pressurized and enabling quick start-up (i.e., pressurized hold)
- Fully integrates with the Solar® turbine package and control system



- Is more robust than pneumatic-driven systems and requires no facility air
- Can be installed on or near the turbine skid

The complete booster system upgrade consists of these major components:

- IEB control box (20" x 20" x 8" NEMA 4X)
- VFD
- Electric seal gas boost system

### System Requirements

The IEB system upgrade requires a suitable location for mounting the IEB control box within 100 feet of the VFD, along with these power sources:

- 24 VDC, 10 amp power (IEB control box)
- Three-phase AC power to VFD (various voltages supported)
- Single-phase 120 VAC power (VFD for motor heater)
- Grounding for controls, boost motor and VFD

### Intelligent Product Line

Our intelligent line of system upgrade products delivers the same customer experience as standard Solar offerings of reliable solutions with exceptional support throughout the equipment's life cycle. Solar's family of intelligent modular upgrades provides efficient and cost-effective solutions to upgrade older package systems to current technology. For additional intelligent product offerings, please contact your local Solar Account Manager.

### Additional Information:

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