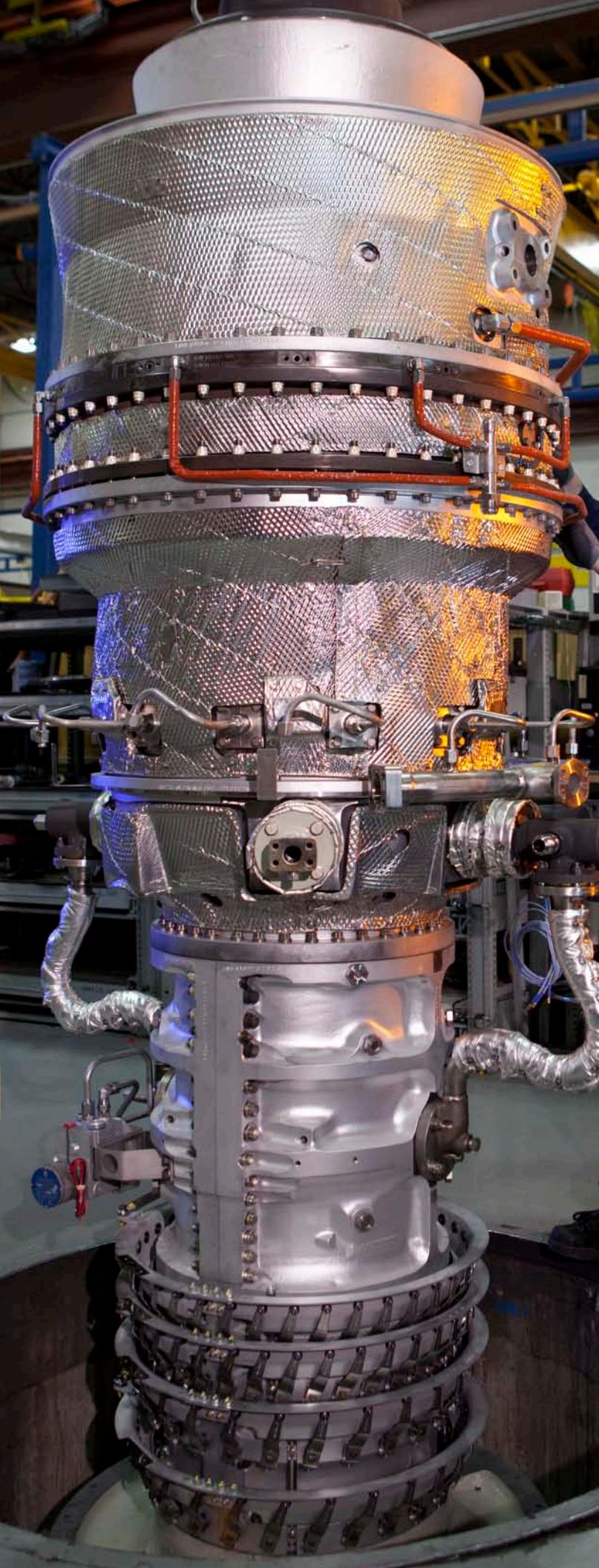




# OVERHAUL CAPABILITIES

## WORLDWIDE TURBOMACHINERY SUPPORT

**Solar Turbines**  
*A Caterpillar Company*



## **FOCUSED ON CUSTOMER SATISFACTION AND GAS TURBINES NOTHING ELSE**

### **Our History Is Our Strength**

Since building our first commercial gas turbine engines back in the 1960s, Solar Turbines has achieved unparalleled industry success by focusing on just two things: 1) customer satisfaction and, 2) gas turbines.

Now, with more than 14,500 gas turbine units operating in 100 countries, we help our many customers meet their most difficult business challenges every day by keeping their turbomachinery producing at peak efficiency across the equipment's entire lifecycle.

Growing to seven major overhaul centers and more than 50 field offices strategically located worldwide, we've been entrusted with more than 30,000 overhauls over the past 65 years. And by embracing our collaborative approach of "One Team," we bring together our customers, the design and support engineering groups, supply chain, and field personnel into a cohesive team of people that pave the way to our customers' success.

# THE ADVANTAGES OF A GENUINE SOLAR OVERHAUL

## It's All We Do

At Solar, we focus on overhauling gas turbine engines to current specifications for performance and durability. We know better than anyone else what those requirements are. After all, we've designed, built and tested every Solar® engine ever produced.

## 100% Renewal

Every rebuilt gas turbine engine contains 100% new or remanufactured Solar Certified parts that have been meticulously restored and rigorously tested to meet our exacting specifications. When it comes to gas turbine overhauls, we're serious about using only the highest quality, original components for the best in reliability.

And every Solar overhaul is a complete renewal, meaning that it comes with safe operational functionality identical to a brand new Solar engine with the same specifications for performance and durability.

Using all of the resources we have available, including fleet operation data and special manufacturing processes—only a Solar factory overhaul can assure protection against compromises or unknown defects in the safety,

durability and performance of critical components and ensure that your gas turbine engine will stand up to the rigors of daily use.

## Updates Included

An overhaul by Solar includes updates to the latest materials and design improvements from new production standards. This means that every gas turbine we renew is brought up to current OEM specifications for improved safety, easier operation, improved reliability, durability and fuel efficiency, plus emissions compliance.

## Gas Turbine Uprating You Can Trust

Increasing the horsepower of a Solar gas turbine at the time of overhaul is a cost-efficient way to make your business more productive.

When you trust Solar for gas turbomachinery overhaul services, you get direct access to the people who created your equipment. Over 600 design and support engineers and more than 1,000 field technicians and staff work together to ensure your needs are met. And each and every one is a Solar employee who are all dedicated to your service requirements.

# A SOLAR OEM OVERHAUL TO MATCH YOUR NEEDS

**Solar Turbines offers you several attractive overhaul options:**



## **Major Overhaul**

**Exchange** - Our most widely used option, where your currently operating gas turbine engine is replaced with a like-kind gas turbine using 100% new or factory refurbished parts and then rigorously tested and certified to operate to current specifications, replaced with a minimum of downtime.

**Customer Property** - When you can't take advantage of our exchange program, a major overhaul can be performed on your original equipment. Like an exchange, new or factory refurbished parts are utilized as well as refurbished original components where applicable. Equipment is rigorously tested and certified to operate to current specifications.

## **Field Repair**

Where the efforts of our dedicated repair team are focused on getting your gas turbine engine up and running again at the site.



## **Shop Repair**

Your gas turbine engine is brought to the best suited facility nearest to you and we effect all repairs necessary to re-establish mechanical integrity. An advantage with shop repairs is the ability to dive deeper into an engine than a field repair crew can.



## **BACKED WITH A FULL WARRANTY**

Solar Turbines stands behind its overhauled engines with a same as new, full 12-month warranty that protects against unlikely defects in workmanship and materials.

# **COMPLETELY REBUILT FROM THE GROUND UP**

**As the OEM, our precise overhaul process is the critical key to delivering:**

<b>Complete Engine Disassembly</b>	Identifying those areas that require special attention.
<b>Inspection and Disposition</b>	Validating all parts and components to meet specifications.
<b>Assembly</b>	Reassembling using new or refurbished parts that meet all inspection/test requirements.
<b>Testing</b>	Verifying mechanical integrity to ensure engine performance meets or exceeds test.
<b>Documentation</b>	Providing a complete documentation portfolio that includes an Equipment Condition Report detailing the state of your exchanged equipment after thorough disassembly as well as a Certified Test Report of the outgoing equipment.
<b>Observation</b>	Customers are invited to observe any or all steps of the overhaul process, including testing (remote observation is done via online WebEx meeting).

**Using these overhaul processes and product development expertise, the turbine is ready for another life-cycle.**

## **IMMEDIATE RESPONSE TO FIELD EMERGENCIES**

EOCP is our exclusive Engine Out of Commission Priority program, which has been designed to respond rapidly to a critical engine failure. With a large fleet of Solar-overhauled gas turbine engines in stock and positioned strategically worldwide, we stand ready to help our customers get back into production quickly, often within 48 hours or less.

## **THE GREEN PATH TO OVERHAUL**

It's a known fact that refurbishing complex gas turbine engine parts is less costly than manufacturing new ones—not only to your budget but also to the environment. That's why Solar Turbines is proud of its ongoing program of bringing used components back to their original condition and specifications at its state-of-the-art refurbishment facilities. By having your gas turbine overhauled by Solar, you also help in reducing the need for raw materials and the increasingly expensive energy required to make new parts, thereby decreasing your carbon footprint upon our planet.



**One Team. Customer Focused. Committed to World Class Overhaul Service.**

For more information, please contact

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