



PROENERGY tested a customer's replacement engine at its on-site string test facility, the only one of its kind featuring full-speed, full-load capabilities in North America.

FIELD SERVICES & AERO DEPOT

LM6000PC

Latin America



COMBINED SOLUTION WITH ENGINE EXCHANGE AND LEASE ENGINE SAVES \$5 MILLION

In Latin America, an independent power producer that sells electricity and steam to private and public entities had a critical need to maintain baseload without downtime.

CHALLENGE

An unplanned event left the producer without a working LM6000PC engine and with considerable revenue losses on a daily basis. The stage 2 shroud had liberated from the nozzle area and caused catastrophic damage throughout the high-pressure turbine.

SOLUTION

The PROENERGY field services team shipped a lease engine—capable of operating at a higher output and better heat rate than the one previously in service—in just 48 hours.

The team removed the damaged engine on location, and it installed the lease engine, from start to startup, in just 48 hours.

Upon inspection at the on-site Level IV Aero Depot in Sedalia, Missouri, the team determined that the high-pressure turbine module, low-pressure turbine module, and turbine rear frame in the customer's engine was unserviceable and unrepairable.

A deep inventory with a steady stream of parts and engines enabled PROENERGY to source a replacement engine for the damaged unit.

While still at its Sedalia campus, the team fully overhauled the unit by disassembling, inspecting, repairing, and reassembling it.

The team also tested the replacement engine under full-speed, full-load conditions to confirm power and heat rate. Then, PROENERGY met with the customer, reviewed the performance figures, packaged the engine, and shipped it.

After 3 months of depot time for the engine overhaul, the customer received a refurbished unit in zero-hour condition at its onsite location.

PRODUCTIVE

MILLIONS IN REVENUE
saved with lease engine

RESPONSIVE

ZERO-HOUR ENGINE
delivered to as-new specifications

EFFICIENT

120-DAY TURNAROUND
from unserviceable condition

VALUE

Prepared for shipment in just 48 hours, a lease engine with better performance than the original engine improved the customer's output and mitigated its risk exposure to revenue losses of approximately US \$5 million.

The entire assessment, overhaul, and testing process took place under one roof at the PROENERGY campus, and the on-site string-test facility mirrored real-world operating conditions while free from the grid.

Just 120 days elapsed from discovering the unserviceable condition to having a zero-hour replacement engine ready to ship to the customer's site.