

# Life Extension on TG16 Gas Turbine

## GOALS

- Reduced maintenance spend
- Increased efficiency
- Reduced forced outage rate
- Life extension



Major overhaul of a TG16 gas turbine in the Tunisian desert. Life extension delivered despite challenging conditions.

 Power generation     Gas Turbine     Southeast, USA

## PROJECT OVERVIEW

EthosEnergy's gas turbine Field Service team engaged with the customer and worked relentlessly to ensure that the overhaul was completed to a high quality, cost effectively and fast.

The outage was planned during the COVID-19 pandemic and with the uncertainty of further, stricter restrictions being imposed around the world, the EthosEnergy team worked with the client to execute as prevention of an unplanned outage.

Major overhaul of a TG16 gas turbine in the Tunisian desert including:

- Replacement of the turbine rotor with a reconditioned rotor from our shop in Torino
- Overhauling the main gearbox
- Checking alignment of the entire shaft line group
- Despite extremely challenging conditions, the EthosEnergy team executed the overhaul on-time, extended the life of the customer asset, and saved them money

## KEY FACTS

### COVID-19

The work was completed successfully even with restrictions imposed

### TG16

Major overhaul of a TG16 Gas Turbine in the Tunisian desert

### Sandstorm

Work was delayed due to large sandstorm

### PROJECT HIGHLIGHTS

The life of the customer's assets was extended through a cost-effective rotor exchange, also reducing costs, increasing overall efficiency, and providing a more sustainable solution for the customer.

Despite challenging conditions, causing delays to the outage, EthosEnergy Field Service team worked relentlessly into the evenings to make sure that the project didn't fall behind.

### KEY CHALLENGES

During the overhaul, when putting the turbine on the turning gear, the team in-site experienced a sandstorm that ended up delaying the work.

The work was performed during the COVID-19 pandemic making it difficult for personnel to travel and shipping times for replacement parts to be delayed.

### KEY RESULTS

The EthosEnergy Field Service team worked relentlessly into the evening to make sure all the electrical connections were complete so the turbine could be put on the turning gear and so the project didn't fall behind schedule.

EthosEnergy supported the customer by extending the life of their asset with a rotor exchange, also reducing costs, increasing overall efficiency, and providing a more sustainable solution for the customer.