



# Major outages for large steam turbines ( $\geq 100$ MW)



**EMS**  
European Maintenance Support

## Your key concerns:

Today's European power utilities market is under a lot of pressure. Major outage costs are one of the key factors affecting the economic operability and continuity of all European power providers. Powertrain overhauls often account for the largest proportion of the total overhaul budget and OEM directives are often conservative and expensive.

## Our solution:

**A high-quality alternative:** the EMS powertrain department has been working on large steam turbines in both conventional and nuclear installations (125MW - 1000MW) since the 1960s.

**Our know-how and experience:** more than 500 successfully performed outages - supervised by our own teams - covering all types of turbines, thanks to our experienced, in-house turbine mechanics and engineers, our own specific tooling department and our extensive network of workshops, direct sub-suppliers of OEMs, third-party turbine mechanics, and much more.

**A tailor-made and competitive turnkey overhaul solution:** based on your current and future operational needs and the condition of your turbine.



We can make the difference for you!

# Major outages for large steam turbines

## Our added-value



We bring to the market tailored (turnkey) independent maintenance solutions for large steam turbines, falling back on more than 60 years' experience in performing outages and managing assets for the ENGIE fleet of conventional and nuclear generation. We understand the operator best!

### Our customer references

#### Zolling Power Plant (Germany)

**Context:** Major outage on HP turbine

**EMS solution:** Turnkey outage with reduced scope

**Benefits:**

- Regain 10MW output of HP
- 30% outage budget optimization

#### E.On – Langerlo Power Plant (Belgium)

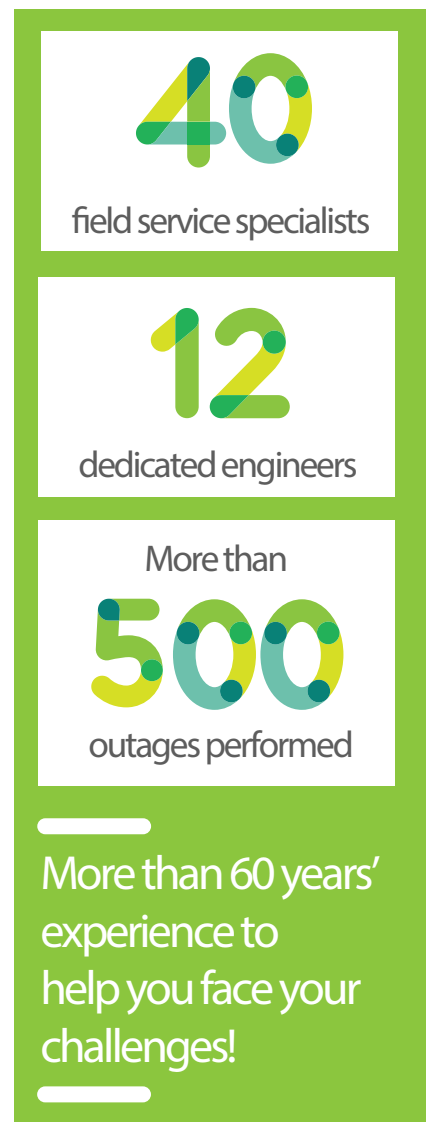
**Context:** LP turbine blade liberation incident

**EMS solution:** Turnkey outage solution:

- Assess the damage & conduct a root cause analysis of the incident
- Evaluate the necessary repairs
- Determine the budget of the repair

**Benefits:**

- Fast incident recovery
- Supply of blades



40  
field service specialists

12  
dedicated engineers

More than  
500  
outages performed

More than 60 years' experience to help you face your challenges!



For more information  
Contact our cooperation team  
email at [ems.services@engie.com](mailto:ems.services@engie.com)  
[engie.com](http://engie.com)