



Industrie Service

Choose certainty.
Add value.

Everything revolves around turbines . . .

Comprehensive services for
improved efficiency, quality and
safety all around.



Increasing competition and rising fuel prices represent major challenges for the efficient and reliable operation of power stations. High quality and safe, standard-compliant design of the turbine – the heart of the power station – is the key to market success.

TÜV SÜD has extensive international experience with all types of power generators. Taking the economic framework conditions into consideration, we offer qualified support independent of insurance companies and manufacturers, assisting you with the design and development, installation and operation of your stationary gas, water and steam turbines. Employing specialists in all relevant disciplines, we can deliver fast solutions to your issues.

We help you reach compliance with all regulations relevant for your turbines. We improve availability and unlock additional performance. On request, we determine the value and sustainability of your system. In addition, our turbine specialists provide comprehensive support in the case of failure or damage. Systematic failure analysis helps you

to cut downtime and initiate effective preventive actions. Don't miss out on the benefits.

We are an independent and experienced expert organisation, providing consultancy on all issues related to the safety, reliability and cost-effectiveness of your systems – throughout their entire life cycle and worldwide.

TÜV SÜD services in detail:

- Conformity assessment in accordance with the relevant international regulations, e.g. the European Machinery Directive 2006/42/EC (CE Declaration of Conformity)
- Quality control during production
- Auditing of manufacturers and suppliers
- Support during commissioning
- Optimisation of maintenance measures
- Optimisation of cost and energy efficiency
- Assessment of machinery condition/technical due diligence
- Testing of performance, vibration and steam purity
- Computational fluid dynamics analysis

- Strength and fatigue life analysis
- Systematic defect and failure analysis
- Third-party damage assessment, also as expert witness
- Consultancy on service life extension and retrofitting



Your benefits

- ▶ **Build on expertise.** TÜV SÜD is a partner well-versed in all relevant engineering disciplines, with decades of international experience and familiarity with the state of the art.
- ▶ **Rely on impartiality.** As a third-party expert organisation, we provide impartial, manufacturer-independent assessment and consultancy services.
- ▶ **Ensure quality and functioning.** Our experts identify weaknesses at an early stage, ensuring the required manufacturing quality and thus avoiding expensive reworking and downtime.
- ▶ **Protect your investments.** We deliver impartial assessment of your planned investment project, and thus provide a sound basis for your decision making.
- ▶ **Improve operational safety and cost-effectiveness.** We identify opportunities for improvement and work with you to develop customised solutions for improved efficiency and longer service life.
- ▶ **Ensure certainty.** Our failure analyses reliably uncover the causes of failure.
- ▶ **Save money.** Our witness reports on failure and damage help to avoid long and costly court proceedings.
- ▶ **Obtain support across the world.** We have representation in all major economic areas of the world and are familiar with the local requirements there.

We will be happy to advise you in more detail. Contact us. We provide international services.