



Add value.
Inspire trust.

Performance test for power plants and energy systems

Achieve guaranteed performance and maximise efficiency

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Your challenges

The performance of power plants and energy systems is a crucial factor in determining a project's financial success. Owners and operators need to ensure that the power plant reaches guaranteed performance and meets quality requirements. For day to day operation it is important to establish an efficiency baseline for major equipment and to determine possible reasons for increased operation costs due to losses.

What is a performance test?

Usually carried out after the construction or retrofit of a plant, performance test verifies the guaranteed parameters (power output, heat rate, efficiency, steam production, etc.) as well as the correct and effective functioning of the major parts of a power plant.

Why is a performance test important for your business?

Performance test provides a means for power plants to attain maximum efficiency and reduce operating costs. It helps identify any shortfalls in the efficiency and capacity of the plant and make recommendations for recovery.

How can we help you?

TÜV SÜD is the leading provider of technical services for power plants. We offer independent execution and third-party supervision of performance testing for all types of power plants (coal fired, oil fired, gas fired, waste to energy, biomass to energy, solar, wind, hydro) and components such as gas and steam turbines, boilers, condensers, cooling towers and gas compressors. Our experts give a credible review of guaranteed conditions, assess non-conformities and serve as expert witnesses for technical mediation and moderation.



Our performance test services for power plants

▪ Execution and evaluation of acceptance and performance test

TÜV SÜD reviews test procedures and programmes for verification of contractual guarantees, executes acceptance tests and measurements in compliance with the requirements of international codes and standards, and performs computation and evaluation of performance test measurements. Our reports on test measurements include statements concerning the fulfilment of guarantees. We also offer measurements and evaluation of condition after retrofitting, as well as periodic measurements and performance monitoring of the entire power plant.

▪ Witnessing of tests

Our experts provide witnessing and third-party supervision of acceptance and performance tests as well as for power purchase agreements (PPA).

▪ Calibration service

We carry out calibration of high-precision measuring devices in our accredited Laboratory for pressure and temperature. Our experts can also carry out on-site calibration of operational measuring devices.

▪ Emissions / Vibrations / Noise testing

TÜV SÜD offers emissions measurements and monitoring, fuel analysis, as well as noise and

vibration measurements.

Your business benefits

- **Gain confidence in plant performance** – through reproducible, rapidly delivered results regarding plant efficiency, power output, consumption figures and performance parameters of major components.
- **Reduce emissions** – by choosing TÜV SÜD, an ISO/IEC 17025-accredited organisation with comprehensive knowledge concerning gaseous and particulate emissions of industrial plants from all kinds of process stacks. Our emissions measurements ensure that your plant complies to regulatory standards and meets your emissions goals.
- **Work with an expert partner** – through systematic involvement of our expert teams with specialised technical support of plant performance issues.
- **Strengthen your competitive edge** - by partnering with a globally renowned third-party service provider that has a strong reputation for quality, safety and sustainability.

Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification, auditing and advisory services. Through more than 25,000 employees across over 1,000 locations, it adds value to its customers, inspiring trust in a physical and digital world.

Related services

TÜV SÜD provides the following related services:

- Design review and design approval
- Lifetime assessment and extension
- Materials technology and welding engineering
- ISO 50001 Energy management systems
- Environmental impact assessment (EIA)

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