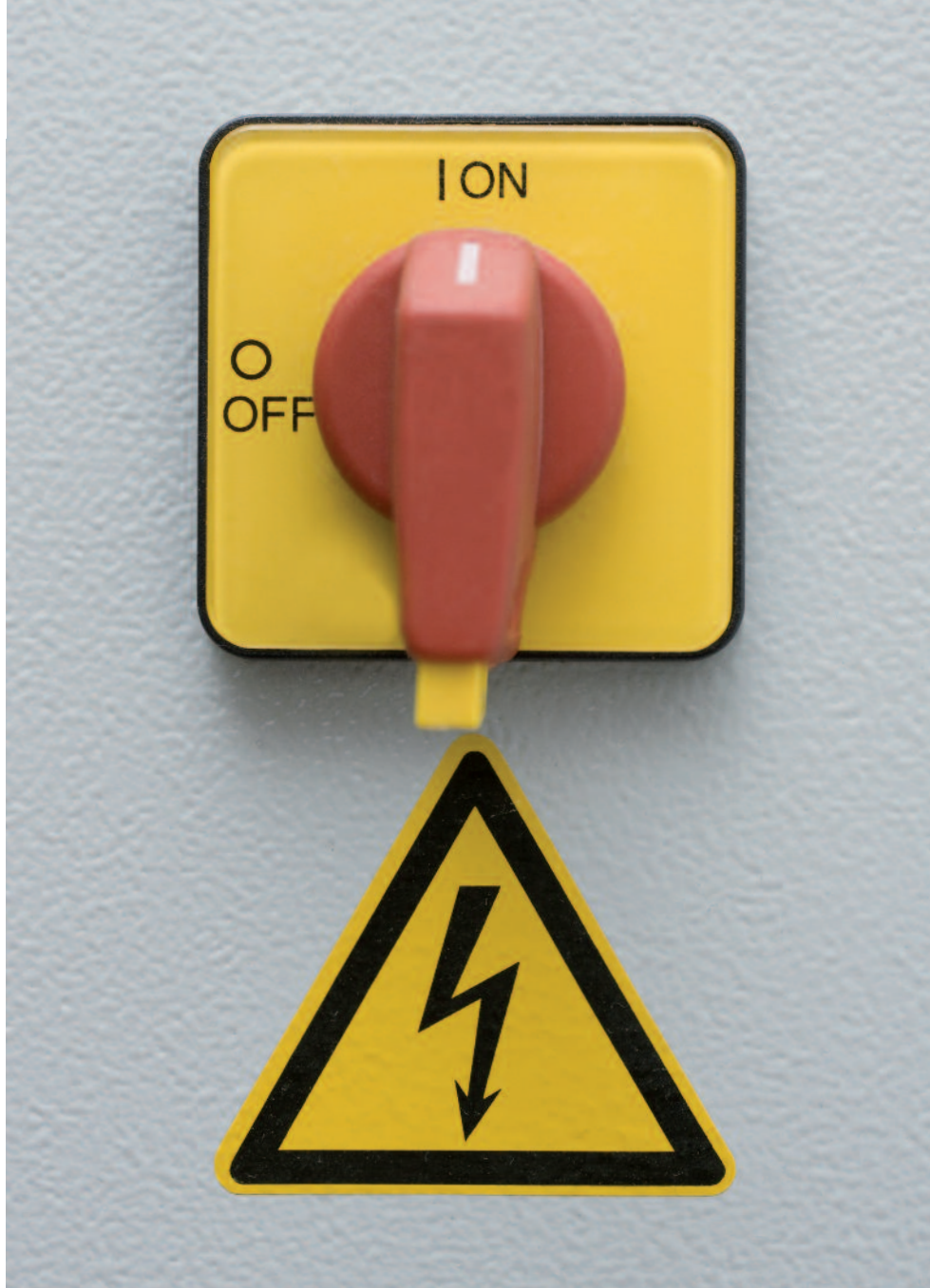




Industrie Service

**Choose certainty.
Add value.**



Securing the
Safety and Availability
of Electrical Systems.

TÜV SÜD Industrie Service GmbH

TÜV®



For measurable results – TÜV SÜD.

Electrical systems are of fascinating variety and increasing complexity. But to use electrical energy cost-effectively and – above all – safely, systems must comply with a host of different requirements set forth in national and international standards and regulations. These framework conditions need to be implemented professionally to minimise the hazards of electricity. As TÜV SÜD's electrical engineering experts, we support you in this task.

We carry out all necessary tests. We perform assessments and inspections. We provide certification services. And we support you during the planning and installation of electrical systems for new and modified buildings.

We network our leading experts into a dynamic team to solve even the most complex problems. From fire safety, lighting and explosion protection to quality assurance during installation, technical on-site inspections, acceptance testing and due diligence reviews – our experts have decades of experience, providing qualified and professional assistance.

We offer a host of customer-focused services for developers, project coordinators, planners, contractors or plant and system operators. Simply select the service package you need.

Choose expertise, impartiality and quality. Opt for TÜV SÜD. We will be happy to advise you in more detail. Call us!



Our services at a glance.

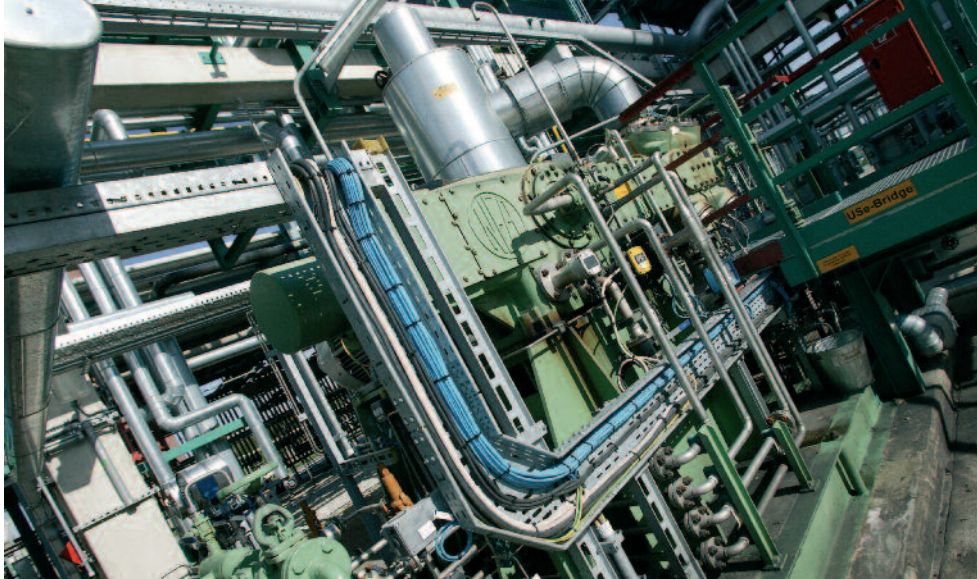
Assessment and expert reports

We provide investors, developers, planners, contractors and operators with in-depth assessments and expert reports on the safety, functionality, availability and cost-effectiveness of electrical systems.

We offer the following services:

- Warranty measurements on machinery and power generators
- Development of maintenance and inspection programmes
- Thermographic surveys of electrical systems
- Assessment and development of power supply schemes, security of supply assessments
- Studies of power supply quality
- Assessment of the networking and functional safety of process control and building automation systems
- Fire safety schemes
- Explosion safety schemes
- Consulting on explosion protection documents
- Hazard assessment regarding fire safety and explosion protection
- EMC-oriented lightning protection for buildings and facilities
- Hazard assessment regarding the necessity and the design of emergency escape lighting systems for workplaces
- Measurement and assessment of high- and low-frequency electromagnetic fields
- Assessment of the energy efficiency of buildings
- Risk assessment for the technical infrastructure in data centres
- Assessment of the systems used for generating power from renewable sources of energy





Testing before placing into service and periodic testing during operation

Our experts carry out testing and inspection in accordance with the current Building Code, the applicable provisions of the German Ordinance on Industrial Safety and Health (BetrSichV), Machinery Directive 2006/42/EC, and national and international standards including VDE and IEC standards for:

- Machinery
- High- and low-voltage systems
- Emergency power supply systems
- Alarm systems
- Instrumentation and control systems
- Lightning and overvoltage protection systems
- Process control and building automation systems
- Power generation and supply systems (including systems for renewable sources of energy)

Support during the design and installation of new and modified systems

- Verification of the implementation of requirements set forth in Building Code, building permit and standards
- Quality assurance during construction and installation
- Support throughout acceptance testing of electrical systems and installations

Certification

- Specialist companies for fire-alarm systems as per DIN 14675
- System-related expert reports/certificates on the grid compatibility of power generators (SDLWindV, BDEW Guideline, FGW-TR8)
- Energy-efficiency testing and certification of products for firing, ventilation, refrigeration and air-conditioning systems
- Energy-efficiency certification of data centres





Your benefits.

1 Ensure the usability and functionality of your systems.

Our experts identify weaknesses at an early stage, thus avoiding expensive reworking, faults and downtime.

2 Enhance cost-effectiveness.

We are familiar with the best procedures and settings for specific systems and know how you can improve energy efficiency, thus saving money.

3 Obtain impartiality.

As a large-scale expert organisation, we provide impartial and unbiased inspection and assessment services.

4 Gain legal certainty.

We have almost unrivalled knowledge of technical guidelines, regulations and standards, helping you to resolve any unclear issues and reduce your liability risk.

5 Build on interdisciplinary expertise.

TÜV SÜD is a partner well-versed in all relevant specialist disciplines, with decades of international experience.

6 Right at your doorstep.

TÜV SÜD is represented throughout the world – including your area.



Industrie Service



www.tuev-sued.de/is

TÜV SÜD Industrie Service GmbH offers a comprehensive range of services in the field of electrical and building services engineering. With their long-standing practical experience, our experts are able to solve even the most complex issues related to the safety, cost-effectiveness and quality of your systems. As a third-party expert organisation, we provide impartial and unbiased inspection and assessment services. TÜV SÜD holds accreditation as approved body (Zugelassene Überwachungsstelle, ZÜS).

**We are represented throughout the world, including your area.
Call us! We will be happy to offer expert advice.**

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