



Industrie Service

**Choose certainty.  
Add value.**



# Crystal clear with TÜV SÜD's Environmental Know-How

TÜV SÜD Industrie Service GmbH

**TÜV**<sup>®</sup>



**Our environmental engineering experts deliver a broad service portfolio spanning the following areas:**

■ **Environmental consulting**

Environmental planning/  
land development planning  
Approval management  
Land contamination and demolition  
management  
Site remediation  
Environmental due diligence  
Corporate environmental protection  
Chemical management/REACH

■ **Environmental measurements**

Emission/air-quality measurements  
(noise, air-borne pollutants, odour, etc.)

■ **Environmental analysis**

Chemical analysis  
Environmental assessment of products  
Dioxin analysis

■ **Climate protection**

Climate change audits  
Energy certification  
Certification of biofuels  
Carbon footprint



## TÜV SÜD: Solutions that pay off right from the start.

Economic success, environmental targets and social accountability are challenges that every company must face. Access to first-class know-how is the first step towards meeting these challenges, followed by the second step of efficient implementation of the requirements and targets. As TÜV SÜD's environmental experts, we will be happy to give you all the assistance you need.

Our professionals provide extensive and expert advice and assistance across all issues of environmental law and engineering: in the planning phase, when realising your ideas, during operation and, last but not least, during demolition and disposal.

To make sustainability work – for people, for the environment and for your company: TÜV SÜD.

### **Your benefits:**

- ▶ Profit from an impartial partner.
- ▶ Obtain a reliable basis quickly for informed decision-making.
- ▶ Establish certainty based on measurement and analysis results.
- ▶ Comply with legal requirements cost-efficiently.
- ▶ Gain planning certainty and investment security.
- ▶ Benefit from improved operating safety and optimised plants and installations.
- ▶ Maintain premium-quality products at all times.
- ▶ Obtain practical solutions and expert reports from a single source across all disciplines. This saves time and money.
- ▶ Rely on a partner of excellent national and international reputation.

**Expert  
consultancy.  
Efficient  
solutions.**



## Be aware of the law. Choose certainty.

Environmental compatibility, safety and technical feasibility are indispensable in the realisation of large-scale projects, such as the construction of new plants and installations, in the extension of infrastructure and when planning new construction projects. As an entrepreneur, you are under obligation to implement your projects in compliance with the law. Choose a partner offering ecological and economic advantages: TÜV SÜD.

Based on our long-standing experience, we know what to watch out for to comply with statutory requirements. We identify possible risks in the run-up to a project and

thus help you to avoid misjudgements. Our calculations, expert reports and studies accelerate approval processes and assist with the impartial valuation of investments.

To prevent environmental and health hazards at work, we give advice on how to implement statutory requirements. To place your company's Chemical Management on safe foundations, we are at your side offering established solutions.

Rely on an expert partner offering all-round support in environmental engineering: TÜV SÜD.

### **Approval management**

- Project management
- Design review
- Communication with authorities (coordination, hearings, etc.)
- Preparation / compilation of the entire application documentation (provision of the necessary expert reports)
- Recording and systemising of objections
- Review and assessment of approval requirements, support with the implementation

### **Environmental due diligence**

- Investigation of site history, local environmental and social standards
- Site inspection – rough estimate of risk potential
- Detailed analysis of soil, ground water, building fabric, air-borne pollutants, waste-water systems, etc.
- Evaluation and presentation of the costs of remediation
- Recommendations for investors

### **Land contamination and demolition management**

- Detection of contamination / exploratory drilling in soil and buildings
- Analysis and assessment

- Preparation of pollution map
- Planning of and assistance with remediation
- Preparation of statements of work, including tender management
- Final documentation including analysis to preserve evidence

### **Chemical management**

- Consultancy on / support with REACH & GHS
- Chemical Compliance Service
- Training courses

### **Customised individual services**

- Expert reports (noise and vibration control, air-pollution control including odours, incident and safety technology, etc.)
- EMC
- Stack height calculation
- Noise reduction planning
- Emission and air-quality maps
- Preliminary environmental impact assessment
- Environmental impact study
- FFH (flora fauna habitat) studies
- Clean air plans
- SEP (strategic environmental planning) studies



Think  
ecologically.  
Act  
economically.



## Take correct measurements. Get clarity.

Many economic decisions are based on exact measurement values. The initial level of pollution measured, for example, can kill a project. Later on, during plant operation, regular measurements will be needed for potential plant optimisation and to ensure the safety of staff at work.

Commission a flexible, experienced and international expert to take your measurements: TÜV SÜD.

We customise every measurement to suit the special process-engineering features of the relevant plant. This saves time and costs. We are familiar with the increasingly rigorous regulations and the current legal situation, so you can rest assured.

### **Our environmental measurement services include:**

- Emission measurement
- Measurement of air quality
- Function test
- Calibration
- Measurement of noise and vibrations
- Olfactometry and on-site measurement of odour emissions
- Measurement of electromagnetic fields
- Measurement of indoor pollutants
- Measurement of workplace concentrations

### **Special measurements**

- Performance measurement
- Measurement of furnace temperature
- Air-quality monitoring networks
- Particulate matter and magnetic particles



**Targeted  
analysis.  
Controlled  
situations.**

## Identify chemicals. Recognise risks.

Requirements are becoming more rigorous and detection limits are being lowered. The number of chemical compounds to be analysed is rising. Chemical analysis depends on knowledge, experience and ultramodern laboratory equipment to deliver reliable results. Trust in a name synonymous with certainty: TÜV SÜD.

We use non-standard, ultra-sensitive measurement instruments to ensure efficient and successful processes even in ultra-trace analysis.

Relying on our broad knowledge and long-standing experience, we take over the entire analysis process – from sampling strategy and method to sampling logistics and transport and even including the development and validation of new analysis procedures.

### **Our chemical analysis portfolio includes**

- Waste, soil, air and water
- Fuels
- Dioxins
- Asbestos (REM, EDXA)

### **Pollutant levels in consumer products**

- Household appliances, tools
- Toys, sports equipment, textiles, leather

### **Environmental assessment of products**

- Construction materials, paints, floor coverings

### **Food contact materials**

- Testing as per KTW (plastics in drinking water) recommendations
- Testing as per the LFGB (German Food and Feed Code)



## Implement climate change activities. Safeguard the future.

We support you in making your climate-change project and your energy certification a success. Our extensive expertise gained through decades across various engineering disciplines makes us a “third-party verifier of climate-change measures” with an excellent reputation, worldwide. Our know-how is appreciated at the highest levels.

TÜV SÜD is one of the few companies accredited by the UNFCCC for CDM and JI project validation and verification in all fields of technology. We also have active representation in VER markets, such as the USA or Turkey. When it comes to climate change, opt for a partner which plays in the premier league, worldwide: TÜV SÜD.

### **Climate change and emissions trading**

- Validation, verification and certification of climate-change projects (CDM, JI, VER, PoA)
- Certification of CO<sub>2</sub> monitoring concepts/ carbon footprint
- Verification of emission reports
- “BlueRegistry” database

### **Energy certification**

- Certification of electricity from renewable sources
- Certification of eco-power products
- Certification of hydrogen from renewable sources
- Certification of biofuels and other bioliquids
- GreenMethane certification

# Top references that speak for themselves.

As your process partner, we support your projects worldwide. You can find us at over 600 locations in almost all major centres of

production and commerce throughout Europe, the Americas and the Asia-Pacific region.

## E.ON Kraftwerke



### ■ Consultancy

E.ON commissioned TÜV SÜD to provide integrated and expert support throughout all steps in the approval process for a leading-edge combined cycle plant at E.ON's site in Irsching, Bavaria (assignments included: pollution forecasts, air-quality reports, noise protection and waste management).

## ThyssenKrupp Steel



### ■ Measurements

ThyssenKrupp Steel Europe AG, Duisburg, relies on TÜV SÜD to monitor its plants. TÜV SÜD carries out measurements to monitor pollutant emissions or to perform functional tests and calibration of the on-site emission measurement equipment and to improve plant efficiency.

## Sto AG



### ■ Analytics

Sto AG has all its products undergo environmental assessment by TÜV SÜD. Since 2002, 30 different products have been awarded the "Tested for Pollutants" and "Production Monitored" certification marks.

## OSRAM



### ■ Climate protection

In India, OSRAM is replacing 1.5 million incandescent light bulbs with energy-saving fluorescent light bulbs, thus contributing to saving almost 1 million tonnes of CO<sub>2</sub>. Providing third-party validation, TÜV SÜD ensured that the project was successfully registered as a climate-change project with the UN.



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[www.tuev-sued.com/is](http://www.tuev-sued.com/is)

**We have international representation. We offer access to the entire scope of TÜV SÜD's know-how.**

**TÜV SÜD Industrie Service GmbH** provides engineering and test services to planners, builders, contractors and owners/operators of buildings, technical and infrastructural facilities. Our range of services spans the entire life cycle of your property. Our interdisciplinary approach and the in-depth know-how of our 2,300 staff enable us to solve even the most complex interdisciplinary problems. We are an independent and experienced expert organisation, providing consulting services on all issues related to safety, reliability and cost-effectiveness – worldwide. **Call us! We will be happy to offer expert advice.**

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