



Choose certainty.  
Add value.

## MEP design and consultancy services

Ensure optimum design and installation of mechanical, electrical and plumbing systems.

### Your challenges

To provide a competitive and attractive product portfolio in the real estate market, it is important for designers, installers, and building owners and operators to ensure the reliability and cost effectiveness of their building systems. This means evaluating the capital cost of introducing energy-efficient measures into the design and implementation of mechanical, electrical and plumbing (MEP) systems. To navigate the different international green building standards and incorporate them into the design, specialised technical and engineering expertise is required.

### Why is correct MEP design important for your business?

The optimum design and installation of MEP systems are essential to the smooth operation of any building and can have an impact on energy efficiency and operating costs. Incorporating sustainable design from the onset allows you to establish your business commitment to protecting public health and the environment.

### How can we help you?

TÜV SÜD offers a comprehensive range of design, consulting and sustainability services for MEP systems associated with all types of buildings. Our experts advise you on all issues of your building's systems. We support you during the conceptual and detailed design of all MEP systems for new and modified buildings. We also supervise the implementation of our designs and carry out acceptance tests upon completion.

### Our MEP design services

#### ■ Consulting and design services

- Feasibility studies for building engineering services
- Surveys of existing installations
- Cost planning and preliminary cost estimates
- Engineering technology advice
- Engineering services design and coordination
- Advice on tendering and contract procedures
- Preparation of bills of quantities and other tender documentation
- Cost control of engineering works



#### ■ Mechanical services

- Heating and ventilation
- Air conditioning
- Coal, gas and oil-fired boiler plants
- Gas installation automatic controls
- Water and sewage treatment installation
- Noise and vibration control
- Smoke extract ventilation
- Staircase pressurisation
- Sprinkler protection systems
- Renewable technologies

#### ■ Electrical services

- Mains and sub-mains distribution and switchgear up to and including 11 KV
- Main power distribution
- Internal and external lighting
- Emergency lighting
- Plant lighting
- Small power electrical supplies
- Fire alarms and security systems
- IT and communication systems
- Lift and escalator systems
- Building management systems
- Lightning protection and earthing
- Energy management
- Standby generation diesel generation systems
- Rotary, hybrid and static UPS systems
- CHP plants

#### ■ Plumbing services

- Incoming water mains services
- Cold water storage and hot water supplies
- Drinking water supplies
- Sanitary appliances
- Soil waste and vent system
- Overflow system
- Rainwater system
- Drainage

#### ■ Sustainability services

- Energy modelling
- Energy rating certification
- Environmental certification based on BREEAM & LEED

## Your business benefits

- **Save money** – by implementing the best procedures and settings for specific systems.
- **Ensure availability and functionality** – by involving an experienced partner in the design and installation of building services systems, reducing downtime and guaranteeing effectiveness from an early stage.
- **Minimise risk** – with our knowledge of technical guidelines, regulations and standards, which resolves any unclear issues and ensures compliance with national and international legislation.
- **Gain a competitive edge** – by building a trusted brand based on the service availability and safety of your facilities.
- **Tailor your solutions** – with customer-focussed solutions designed for the specific needs of each stakeholder.

## Why choose TÜV SÜD?

TÜV SÜD has decades of experience and is well versed in all relevant mechanical, electrical and environmental engineering disciplines, providing you with a one-stop source for solutions and interdisciplinary expertise. Our strong reputation ensures that our design services meet with a high level of acceptance globally. In addition, our experts are represented on site around the world and are familiar with both international and local requirements.

## Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

### Related services

TÜV SÜD provides the following related services:

- MEP systems inspection, testing and certification
- Green building services
- ISO 9001 – Quality management system certification
- ISO 14001 – Environmental management system certification
- ISO 50001 – Energy management system certification