



Choose certainty.  
Add value.

## MEP design and consultancy services MEP设计与咨询服务

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

确保机械、电气和管道系统的  
设计与安装达到最优化

### 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.

### 您面临的挑战

为了在房地产市场领域内部提供完整且具有吸引力的产品组合，设计师、安装人员和建筑业主以及经营者必须确保建筑系统的可靠性和成本效率，这点至关重要。因此，需要对机械、电气和管道（MEP）系统中引入节能措施的投资进行评估。为了将全球不同的绿色建筑标准导入建筑设计中，需要掌握特殊的技术和工程知识。

### 正确的MEP设计为什么对您的业务非常重要？

MEP系统的优化设计与安装可谓是各类建筑顺利运行的基本条件，能够影响能源效率和运营成本。从最开始就采用可持续性设计，帮助客户实现保护公众健康和环境的业务承诺。

## 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

## 如何为您提供帮助?

TÜV南德意志集团针对与各类建筑有关的MEP系统提供一系列设计、咨询和可持续性服务。我们的专家就建筑系统各类问题提供专业建议，在全新和翻新建筑各类MEP系统的概念和详细设计阶段提供辅助支持。另外，还负责监管设计的落实，竣工后进行验收测试。

## 我们提供的MEP设计服务

- **设计与咨询服务**
  - 建筑工程服务的可行性研究
  - 现有设备调查
  - 成本规划和初步成本估算
  - 工程技术咨询
  - 工程服务设计与协调
  - 关于投标与合同程序的建议
  - 工程量清单和其他标书文件制备
  - 工程建筑成本控制
- **机械服务**
  - 供暖通风
  - 空调
  - 煤炭、天然气和燃油锅炉
  - 天然气装置自动控制
  - 水和污水处理装置
  - 噪声与振动控制
  - 抽烟通风
  - 楼梯增压
  - 消防喷水系统
  - 再生能源技术
- **电气设备服务**
  - 11千伏及以下电源和辅助干线主配电和开关设备
  - 系统配电
  - 内外部照明
  - 应急照明
  - 建筑照明
  - 小功率电源
  - 消防和安保系统
  - 信息技术与通讯系统
  - 电梯和自动扶梯系统
  - 建筑管理学系统
  - 防雷与接地装置
  - 能源管理
  - 备用发电柴油发电系统
  - 旋转、混合和静态UPS系统
  - 热电联产企业



#### ■ 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.

#### ■ 管道服务

- 进水管道服务
- 冷水存储和热水供应
- 饮用水供应
- 卫生用具
- 土地浪费与通风系统
- 溢流系统
- 雨水系统
- 排水系统

#### ■ 可持续性服务

- 能源建模
- 能量等级认证
- 基于BREEAM和LEED的环境认证

### 客户业务收益

- **省钱**——践行适合具体系统的最佳程序和设置。
- **确保有效性和功能性**——资深合作伙伴参与建筑服务系统的设计与安装，减少停机时间，从早期阶段开始确保效率。
- **将风险降至最低**——借助我们的技术指南、规范与标准专业知识，解决不清晰问题，确保符合国家和国际立法要求。
- **赢得竞争优势**——基于可用服务和设施安全性，打造值得信赖的品牌。
- **提供定制化解决方案**——凭借以客户为基础的解决方案，满足各利益相关者的特定需求。

## 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 850 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.

## 为什么选择TÜV南德意志集团?

TÜV南德意志集团拥有多年资深经验，精通所有相关机械、电气和环境工程规范，为客户提供一站式解决方案资源和跨学科专业知识与技能。良好的声誉确保我们的设计服务能够满足全球较高的验收水平。除此以外，我们的专家人才还亲临全球现场，熟悉国际和地方要求。

## 权威认证，创享价值

TÜV南德意志集团是一家优质、安全和可持续发展的专业测试、检验、审核、认证、培训和知识服务解决方案提供商。我们在世界各地超过850个分支机构，因此在欧洲、美洲、中东、亚洲和非洲均享有认证资格。通过为我们的客户提供客观的解决方案，我们为企业、消费者和环境都增添了有形价值。

### 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

### 相关服务

TÜV南德意志集团提供以下相关服务:

- MEP系统检验、测试和认证
- 绿色建筑服务
- ISO 9001 – 质量管理体系认证
- ISO 14001 – 环境管理系统认证
- ISO 50001 – 能源管理系统认证

\* Some of the services listed are provided due to local regulations only and may not be available in other regions. Please contact us for further details.

\* 上述部分服务可能由于当地法规的原因而无法在您的地区提供。欢迎您与我们联系咨询。

## Our branches in Greater China:

我们在大中华区的代表处:

Shanghai	上海	Tel.: +86 21 6141 0123	Suzhou	苏州	Tel.: +86 512 6809 5318	Changchun	长春	Tel.: +86 431 8462 9833
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Industry Material Testing Lab	上海工业材料实验室	Tel.: +86 21 6014 9880	Hangzhou	杭州	Tel.: +86 571 8111 0758	Guangzhou	广州	Tel.: +86 20 3832 0668
Hong Kong	香港	Tel.: +852 2776 1323	Changzhou	常州	Tel.: +86 519 8123 9872	Xiamen	厦门	Tel.: +86 592 7706 188
Hong Kong Lab	香港元朗实验室	Tel.: +852 2443 3774	Chongqing	重庆	Tel.: +86 23 8980 9513	Dongguan	东莞	Tel.: +86 769 2168 7092
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Nanjing	南京	Tel.: +86 25 8779 0058	Qingdao	青岛	Tel.: +86 532 8503 0106	Liuzhou	柳州	Tel.: +86 772 3858 696
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