



Choose certainty.  
Add value.

## Energy audit service 企业能源审计服务

Ensure sustainable economic development through enterprise energy management, promote enterprises to strengthen energy management  
为政府经济可持续发展提供决策依据，促进企业加强能源管理



### What is an energy audit?

Energy audit is a scientific method for energy management. It includes an objective assessment of energy efficiency, energy consumption and energy levels through statistical analyses, tests and diagnostic evaluations of physical and financial measurements. Based on the assessment, relevant measures will then be proposed to optimise the energy consumption level and increase energy savings.

### Purpose of an energy audit

**Provides a basis for decision-making for governments to:**

- Optimise energy management
- Improve use of energy resources
- Improve energy utilisation
- Ensure environmental protection
- Ensure sustainable economic development

**Encourages enterprises to:**

- Optimise energy management
- Understand their own energy management and consumption levels

### 什么是能源审计？

能源审计是一种能源科学管理和服务的方法，按照审计类别的不同对用能单位能源使用的效率、消耗水平和能源利用经济效果的客观考察，通过对用能物理过程和财务过程进行统计分析，检验测试，诊断评价并提出节能改造的相应措施。

### 能源审计的目的

**为政府进行能源审计决策依据：**

- 优化能源管理
- 优化能源资源的使用
- 提高能源使用率
- 保护环境
- 确保可持续的经济发展

**促进企业能源审计的依据：**

- 优化能源管理
- 明确自身能源管理水平及用能状况



- Identify energy utilisation problems and weaknesses
- Understand and increase focus on energy saving
- Reduce energy consumption and production costs
- Improve economic efficiency

### What energy audits involve

According to the national standard GB/T 17166-1997, "General principle of energy audit on industrial and commercial enterprise", energy audits consist of the following nine aspects:

- Energy management status and level
- Energy consumption level and energy flow
- Energy measurement and statistical situation
- Calculation and analysis of energy consumption index
- Calculation and analysis of energy equipment running efficiency
- Calculation and analysis of comprehensive energy consumption and unit product energy consumption index
- Calculation and analysis of energy cost index
- Calculation and analysis of energy saving measures
- Financial and economic analysis of energy saving retrofit project

### Why choose TÜV SÜD?

As a premium quality, safety and sustainability solutions provider, TÜV SÜD's energy audit service brings advantages such as:

- Experience across different sectors of the industry
- Standardized approach with respect to specific best available technologies
- Provide trendsetting consultation and engineering services on business issues
- Impartial and independent solutions backed by an international, multi-disciplinary pool of experts

- 明确能源利用方面存在的问题及薄弱环节
- 关注能源节约问题
- 降低能源消耗及生产成本
- 提高企业经济效益

### 能源审计的主要内容

根据GB/T 17166-1997《企业能源审计技术通则》，能源审计内容主要有以下九个方面：

- 企业的能源管理状况
- 企业的用能概况及能量流
- 企业的能源计量及统计状况
- 企业能源消费指标计算分析
- 用能设备运行效率计算分析
- 产品综合能源消耗和产值能耗指标计算分析
- 能源成本指标计算分析
- 节能降耗措施计算分析
- 评审节能降耗改进项目的财务和经济分析

### 为什么选择TÜV南德意志集团?

作为一个优质、安全和可持续发展的解决方案提供商，TÜV南德意志集团在能源审计方面具有如下优势：

- 针对不同领域丰富的行业经验
- 针对不同能源消耗源标准化的评估方法
- 提供最新的市场趋势及法规更新信息
- 我们是具有国际、多元、公平性以及独立性



## Energy audit methodology 能源审计主要工作环节







### Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider specialising in testing, inspection, auditing, certification, training and knowledge services. Represented by more than 22,000 employees across 800 locations worldwide, TÜV SÜD's service portfolio adds value to businesses, consumers and the environment.

### 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。公司在全世界覆盖800多处，员工约22,000人，TÜV南德意志集团的服务为企业、消费者和环境提升价值。

#### Related services

TÜV SÜD provides the following related services:

- ISO 9001 Quality management system certification
- ISO 14001 Environmental management system certification
- OHSAS 18001 Occupational health and safety management system certification
- ISO 14064 Carbon footprint certification
- SA8000® Social Accountability certification
- ISO 50001 Energy management system certification
- Energy efficiency improvement consultancy

#### 相关服务

TÜV南德意志集团提供以下相关服务：

- ISO 9001 —— 质量管理体系认证
- ISO 14001 —— 环境管理体系认证
- OHSAS 18001 —— 职业健康安全管理体系认证
- ISO 14064 —— 碳足迹认证
- SA8000® —— 可持续发展报告的认证
- ISO 50001 —— 能源管理体系认证
- 企业能效提升咨询

\* 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 branch companies or offices in Greater China:

我们在大中华区的分公司及办事处：

Shanghai	上海	Tel.: +86 21 6141 0123	Suzhou	苏州	Tel.: +86 512 6809 5318	Changchun	长春	Tel.: +86 431 8462 9833
Shanghai Testing Center	上海测试中心	Tel.: +86 21 6037 6300	Chengdu	成都	Tel.: +86 28 8952 0656	Shenzhen	深圳	Tel.: +86 755 8828 6998
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
Wuxi	无锡	Tel.: +86 510 8820 3737	Beijing	北京	Tel.: +86 10 6590 6186	Quanzhou	泉州	Tel.: +86 595 2281 3681
Ningbo	宁波	Tel.: +86 574 2786 6658	Tianjin	天津	Tel.: +86 22 8319 2258	Changsha	长沙	Tel.: +86 731 8458 5815
Yongkang	永康	Tel.: +86 579 8711 7995	Qingdao	青岛	Tel.: +86 532 8503 0106	Liuzhou	柳州	Tel.: +86 772 3858 696
Nanjing	南京	Tel.: +86 25 8779 0058	Dalian	大连	Tel.: +86 411 8230 4203	Taipei	台北	Tel.: +886 2 2898 6818
Hefei	合肥	Tel.: +86 551 6537 8730	Shenyang	沈阳	Tel.: +86 24 6223 3726	Taichung	台中	Tel.: +886 4 2287 0566
Taizhou	台州	Tel.: +86 576 8966 1886						