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Add value.**

## Consulting Services for Heat and Power Produced from Biomass

A Product Information Sheet by the Plant Engineering Business Area

### **An opportunity for small and medium-sized enterprises (SMEs)**

Expanding the use of renewable energies is a priority task – and this is also the case in Germany. New laws and rising costs of fossil fuels have improved framework conditions for the use of renewable energy carriers, making biomass energy which utilises local resources a cost-effective alternative.

### **Applications**

- In the wood industry (e.g. carpenter's shops, sawmills, furniture factories, construction firms)
- In community heating plants to supply commercial and municipal facilities (community heating is a future option for economic and ecological heat and power supply, complementing traditional forms of energy supply)
- In rural properties to produce energy from available energy carriers

### **Energy carriers**

- Untreated wood and waste wood
- Plants, plant material and energy carriers produced therefrom

- Biodegradable waste as defined in the Ordinance on Biodegradable Waste
- Waste and other organic matter of plant or animal origin.

### **Our services**

TÜV SÜD advises and supports you in developing an optimum plant design for producing energy from biomass. Our experts assist you with state-of-the-art knowledge, and offer services including:

- Inspection of the technical systems and assessment of energy schemes/power plants for cost-effectiveness, environmental compatibility, availability, maintenance and logistics.
- Licensing and project management for plant installation.
- Consulting services for the changeover from conventional energy carriers to renewables
- Planning the extension of community heating networks, taking into account both available energy carriers and infrastructures
- Analysis of energy requirements



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- Calculation of emissions reduction potential
- Logistics planning for biomass collection, treatment, storage and transport
- Consulting on licensing procedures and possible funding
- Technical design of the plant
- Drawing up contracts governing delivery and acceptance of biomass and the key components of the energy centre
- Identifying plant operation requirements
- Assessing the condition of reference plants

In special cases, TÜV SÜD offers comparative analysis of decentralised biomass-fired combined heating and power (CHP) systems to identify the most effective type of biomass CHP system. Biomass plants are based on gasification, combustion or fermentation.

Assessments take market-proven plant designs and the results of leading-edge developments into account.

#### **Your benefits**

- ▶ Access to the entire TÜV SÜD know-how. By pursuing an interdisciplinary approach, our specialists thus also provide interdisciplinary solutions.
- ▶ The impartiality and long-standing experience of our officially authorised experts ensure that your plant will be ideally suited to your individual needs.

Interested in learning more about our services? Call us! We will be pleased to provide in-depth information.

**We provide worldwide services.**

TÜV SÜD Industrie Service GmbH · Tel./Fax +49 (0)351 4202–323 / –356  
Contact: Dr. Gerd Streubel · E-mail: [gerd.streubel@tuev-sued.de](mailto:gerd.streubel@tuev-sued.de)