

## Best-Practise-projects for bioenergy utilisation in urban environments



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Project name: Wood a good choice for the Kreuzäcker development  
Location: Bietigheim-Bissingen  
Bioenergy technology concerned: wood chips, distance heat

Executive summary: An environmentally sound energy policy using distance heat. The city of Bietigheim-Bissingen was decidedly in favour of making its new neighbourhood, Kreuzäcker, environmentally sustainable.

### Case description

#### Background:

#### Description:

A district heating plant located on the periphery of Kreuzäcker will burn wood chips and some gas to provide all homes with heat. Due to its close proximity it is also possible to tie in the public high schools in Ellental with the 1,700 kWh of heat they generate. And since March 2003, a 550 m pipeline connects the public sports hall and pool with the system and supplies them with the energy they need. This way, the heat generated by the plant in the summer-time can be put to good use as well.

#### Technical data (capacity, output, etc.):

When the boiler is heating at capacity, it has an output of 1,500 kW. On very cold days two natural gas boilers provide the heat needed in addition to that. In spite of its relatively modest heating capacity, the wood boiler provides some 60% of all energy required because it runs at full capacity approximately 3,500 hours per year. During this time a total of 7,500 m<sup>3</sup> of wood chips are burned. Special emphasis is placed on using tree cuttings and bush clippings from municipal landscaping to make wood chips, material that otherwise would have to be composted.

#### Financial data (investment, subsidies, etc.):

Which main problems had to be overcome?

Legal factors :

Socio-economic factors:

Economic:

Others:

Information flow (which information needed, sources, difficulties, etc.)

Lessons learned:

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Pictures:

