

Heat from biomass



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The sun's energy stored in the form of biomass can be converted directly into heat. The thermal conversion technology used for this is combustion. This technology has already reached an advanced level. Heat from biomass is also produced in combined heat and power plants.

The potential of biomass energy for heat production in Germany is at least 10% of current energy consumption. The German government's ambitious targets for the use of biomass as a source of energy require new concepts that will provide for competitive generation costs along with improved energy payback and ecological impacts.

Research and development requirements

More research needs to be directed towards affordable, low-emission and low-corrosion combustion technologies in the field of conventional (combustion) heat generators for the use of solid biomass. Furthermore, innovative energy conversion systems must be researched and developed so that residual heat can be better utilized in cogeneration units fired by biomass for heating and cooling.