

Best-Practise-projects for bioenergy utilisation in urban environments



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Project name: pellet heating system of the home of the family Haberkorn Wolfgang and Sigrid

Location: Upper Austria, 4020 Linz, Lärchenauerstr. 52

Bioenergy technology concerned: biomass (pellets)

Executive summary (1-2 sentences):

A 10 kW pellet boiler from the company Oekofen provides for the heating of the house and the hot water supply. The plant runs combined with a solar plant (8 m²) and a buffer store (1,000 litres).

Case description (half page)

Background:

Until October 2004 the family Haberkorn heated its house with a gas heating. The reason for the heating conversion was on the one hand that the plant was already old and would have had to replace in a few years anyway and on the other hand – and this was the actual reason – family Haberkorn is convinced of the environmental protection thought and wanted to transfer to a renewable energy source.

Description:

The pellets are delivered by a tank truck and injected into the store room which borders directly on the heating room. By means of a snail the pellets are then transported from the store room to the boiler, where the pellets are fired.

Technical data (capacity, output, etc.):

4,000 working hours per year, 3,000 kg of pellets per year, price for pellets: 150-160 Euro/ton
warm water 60 °C, room warmth 20 °C

Financial data (investment, subsidies, etc.):

Total investment costs approx. 10,000 Euro, not repayable amount of subsidies by the government of Upper Austria 2,200 Euro

Which main problems had to be overcome?

No problems

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

Since Mr. Haberkorn is a freak of environment, for him there was no other alternative than a pellet heating system. The family got the necessary information and also the suggestion for a boiler of the company Oekofen from its plumber.

Lessons learned:

Since the installation of the new heating there was no problem, the plant runs smoothly and without error. The family is extremely content with both the heating system and the pellet consumption.

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Pictures:

