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Hitzendorf: Bio-heating Plant as One of Many Initiatives

A Mood for Change in Hitzendorf

If a municipality sets many actions for the application of renewable energy, this is often the work of a single person, a pioneer setting initiatives time and time again over years. Hans Reicht is the one in Hitzendorf. He started with the self-assembly of a solar power system on his own roof. Impressed by the energy yield of his installation, Mr Reicht organised an information evening at the local inn and founded a solar self-assembly group with more than 50 members. In the meantime, more than 2.000 m² of collector area have been installed.



boiler installation

Information about the Municipality

Altitude: 360 m
Number of inhabitants: 3.600

Fuel Supply

The rural operating association currently has 29 members. The forest area of approximately 250 hectares ensures supply of local fuels. The wood chip storage facility consists of two areas, about 200 m² of roofed storage space for the winter period and approximately 50 m² for the summer, a total volume for 1.000 bulk m³.

Boiler Plant

The service during the summer for hot water generation was one of the conditions for the health centre being connected. In order not to operate the large boiler of the company Kohlbach with 700 kW in partial load operation during the summer, a second boiler with a smaller capacity of



On the facade of the storage building a climbing wall of local Alpine Association

What followed were self-made wood chip heating and a trial cultivation of energy plants (Miscanthus). He initiated and organised the installation of a pellet heating system in a new leisure centre with a water park, founded a cooperative for pellets and leads a plant contracting project as chairman. Finally, his activities are leading to the construction of the biomass-powered local heating grid. The construction began in April, in September 2005 the local heating supply went online.



Hitzendorf: ground-breaking ceremony



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150 kW – TDS-Powerfire by the company KWB – with rotary grate system, cyclone combustion chamber and automatic firing was installed.

Beside the operation during the summer, it can also serve to cover peak demand in

winter. Both boilers possess state-of-the-art flue gas purification which complies with the regulations of the authorities. A buffer storage of 12,000 litres volume serves load compensation and allows low emissions due to the uniform operation of the boiler plant.



Central control unit

Economic and Technical Data

Year of commissioning:	2005
Investment:	860.000,- Euro
Subsidy:	
Province / State	344.000,- Euro
Number of consumers:	10
(first stage of expansion)	
Connection power:	960 kW
Boiler make:	Kohlbach / KWB
Number of boilers:	2
Boiler output:	700 / 150 kW
Flue gas purification:	Multicyclon
Annual fuel volume:	
Wood chips	approx. 2.200 m ³
Quantity of heat produced:	
	approx. 1.500 MWh
Quantity of heat sold:	approx. 1.300 MWh
Size of storage area:	Halle 1.000 m ³
Price per kWh, average	4,8 Cent/kWh
Meter charge, average	150 Euro/year
Capacity price yearly:	13,9 Euro/kW
Network lenght:	1,1 km

Information / Contact

LandesEnergieVerein Steiermark

Burggasse 9/II, A-8010 Graz
Tel.: +43 (0) 316/877-3389
Fax: +43 (0) 316/877-3391
E-mail: office@lev.at

Visiting, contact

Bioenergie Hitzendorf reg.Gen.m.b.H

A-8151 Hitzendorf 284
Hans Reichl, Chairman
Tel.: +43 (0) 664/37 58 492
Fax: +43 (0) 3137/4167
E-mail: bioenergiehitzendorf@aon.at

Boiler company: Kohlbach

Kohlbach Gruppe HKI*KCO*SMS
Grazer Straße 23, A-9400 Wolfsberg
Tel.: +43 (0) 4352/2157-0
Fax: +43 (0) 4352/2157-11
E-mail: office@kohlbach.at

Boiler company: KWB

Kraft und Wärme aus Biomasse GmbH
Industriestraße 235, A-8321 St.Margarethen
Tel.: +43 (0) 3115/6116-0
E-mail: office@kwb.at; Web: www.kwb.at

Pipe company:

ZAUNER Anlagenbau GmbH
Ruthardweg 17a, A-8055 Graz
Tel.: +43 (0) 316/2444 74-17
Fax: +43 (0) 316/2444 74-20
E-mail: siegfried.huber@zaunergroup.com

