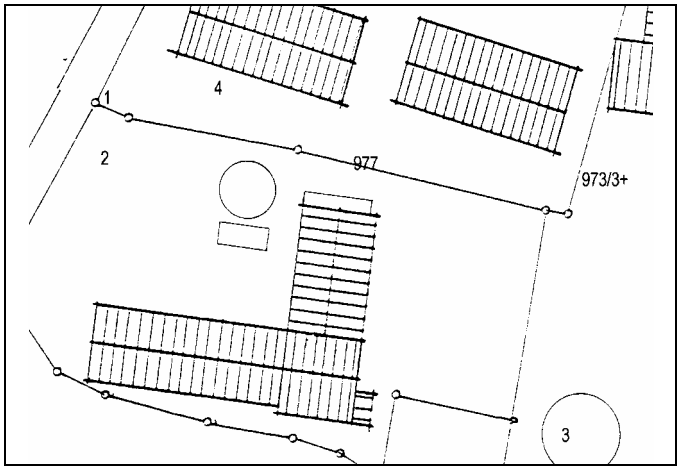
News

Application Biogas 4/99

Biogas plant supplies residential area **SV-Energieerzeugung GmbH, Taufkirchen**

In Taufkirchen near Munich the energy supply on the basis of renewable resources was established for a residential area of 28 owner-occupied flats and two business units. The owner, Mr. Josef Wagmüller founded an energy supply company, which bought and runs the plant. Mr. Wagmüller is besides a farmer also member of a distillery cooperative. He uses the proportiante of the laitance for the energy supply of the biogas plant. To run the biogas plant all the year – the laitance is only during the distillery campaign from September until April at the disposal and to increase the yield of the power generation, manure from the neighbour's farm is added.

To ensure the maximum heat performance in the winter months a wooden chips heating is installed. Also the wooden chips come from the own forests. The boiler is equipped with a multi-component burner, in which excessive biogas can be combusted. With the possibility of an additional natural gas socket of the boiler unit and the power station, the safety of the supply can be maintained if the renewable part falls out.
Because of the use of a two-step high-quality fermenter, the closed and compact structure of the plant and the bio-filter, odour emissions are avoided and the plant can be established directly beside a residential area.



Technical data

planned substrates:		
potato laitance	ca. 1.000	m³/a
cattle manure	ca. 4.000	m³/a
grass pruning and vegetable rests	ca. 200	t/a
fermenter volume:	314	m³
biogas yield:	up to 450	m³/d
	ca. 146.000	m³/a
methane content in biogas	> 68	%
hydrogen sulphide (H_2S):	< 600	ppm
installed power station:	1 x 15	kW_{el}
from the biogas generatable electric power:	ca. 120.000	kWh_{el}/a
from the biogas generatable heat energy	ca.200.000	kWh_{th}/a

The installed power station performance is first of all arranged for the current requirements of the residential area. A second power station with 40 kW_{el} is planned. More than the half of the biogas is directly burned in the hot water boiler and contribute to the living-rooms – especially in the transition time. Wooden chips and grain is dried with not used heat.

INNOVAS Innovative Energie- und Umwelttechnik
Anselm Gleixner und Stefan Reitberger GbR
Margot-Kalinke-Str. 9, D-80939 München
Phone: 089 - 16 78 39 73, Fax: 089 - 16 78 39 75
E-Mail: info@innovas.com
URL: http//www.innovas.com

DGE GmbH
Dr.-Ing. Günther Engineering GmbH
Hufelandstr. 33, D-06886 Wittenberg
Phone: +49-3491-661841, Fax: +49-3491-661842
E-Mail: dge-info@t-online.de
www.dge-wittenberg.de