

### Digestion of Bio-Waste and Food Leftovers Bioenergie Schwaben GmbH, Erkheim



This plant was ordered by Mr. Dipl.-Ing. Peter Kaessmeyer already in the year 1998 and it was the extension for the existing compost plant. At first annually ca. 10,000 t of organic waste from households and production residues from food industry should be processed in the plant.



Over the years the plant was continuously upgraded in its process, was optimized and enhanced in the process technology. Today the plant is one of the state-of-the-art plants in Germany.

The output capacity has been doubled and the range of material which can be processed was optimal expanded. The proportion of food leftovers to other organic waste now is about 50/50. By using the disintegrator (pulper) it is possible to separate more than 15 % of not usable contraries like plastics, metals, stones and glass. The machinery necessary for the processing and the separation has been advanced by oneself and has been optimized for the digestion of organic waste.



The Biogas which is generated from the waste is utilized in a co-generation system producing electricity. The accruing heat is used for the own process but mostly utilized for drying of wood chips from the "Biomassehof Unterallgäu GmbH", a sister company.

Over the time of the improvement the partners INNOVAS and Bio-Energie Consulting GmbH got to know and esteem each other.

Together we can offer ten years operational experience and twenty years of professional engineering beside of the optimized processing technology for the benefit of our customers.

#### Technical Data

##### Applicable Material for Digestion:

Material mixture from organic waste from households and business, production residues from food production, expired food packed and not packed, food leftovers from restaurants and canteens, also with high share of contraries.

Up to a total amount of ca. 20,000 t/a

Fermentor volume: 2 x 1,200 m<sup>3</sup>  
1 x 800 m<sup>3</sup>

##### Co-Generation Unit

Total installed Electric Power:: ca. 1.3 MW  
Split to Modules of: 1 x 625 kW  
1 x 512 kW  
1 x 240 kW

Operational time 365 days p.a.  
24 h (3 shifts) p.d.

Capacity of Utilization: > 95 %



BIO-Energie Consulting GmbH&Co.KG  
Eidlerholzweg 101  
D-87746 Erkheim, Germany  
Phone +49 83 36 / 80 55 - 0  
Fax +49 83 36 / 80 55 - 55  
e-Mail: [zukunft@bio-energie-consulting.de](mailto:zukunft@bio-energie-consulting.de)  
Web: [www.bio-energie-consulting.de](http://www.bio-energie-consulting.de)

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INNOVAS Innovative Energie- u. Umwelttechnik  
Anselm Gleixner und Stefan Reitberger GbR  
Margot-Kalinke-Strasse 9  
D-80939 Muenchen (Munich), Germany  
Phone +49 89 / 16 78 39 73  
Fax +49 89 / 16 78 39 75  
e-Mail: [info@innovas.com](mailto:info@innovas.com)  
Web: [www.innovas.com](http://www.innovas.com)