



The IuT Group

Anaerobic Digestion of Organic Waste in Czech Republic



Bio Servis Benešov – a successful international Public Private Partnership (PPP)

The Bohemian City of BENEŠOV - a pioneer in waste management in the Czech Republic - decided to modernize the existing sorting plant and to add a digestion plant for the conversion of organic waste to energy.

Innovation und Technik GmbH, the Austrian part of the international “The IuT Group”, has been chosen as the city’s partner for the design, implementation and operation of this forward looking and climate-protecting technology.



The investor and operator of the digestion plant, Bio Servis Benešov spol.s r.o., has been established as a joint venture between Technical Services Benešov s r.o. (subsidiary of the City of Benešov) and IuT Czech spol.s r.o. (subsidiary of The IuT Group's Austrian subsidiary Innovation und Technik GmbH).

The new ADOS (Anaerobic Digestion of Organic Slurry) Technology is incorporating the benefits of dry and wet digestion and combines high energy gain and flexibility regarding feeding material with simple and robust plant design. Decomposition of organic fractions, utilization of generated energy and production of high quality compost are integrated parts of the plant.

The plant processes up to 105 tons of organic waste per day. Waste from households and industry can be fed as well as slaughterhouse-, food- and other organic waste.

Two gas engines generate up to 1.000 kW of electric power, which is fed into the public grid.

Construction work started in autumn 2007. Operation started at Februar 2009.



Technical details:

Daily Capacity:	105 tons
Feeding waste:	<ul style="list-style-type: none"> • organic fraction of municipal solid waste • biological and kitchen waste
Digesters:	2 units
Volume each:	approximately 1.000 m ³
ADOS Mills:	2 units
Hygienisation:	2 units for slaughterhouse waste
Fertilizer production:	fully in-house with air control (scrubbers)

Products:

Electricity to the grid:	0.9 - 1 MW
Fertilizer:	approximately 15 tons per day

Plant Owner and Operator:

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