

Client _____ ENAGES Energie- und Abfallverwertungsges.m.b.H.

Location _____ Niklasdorf, Austria

Technology _____ BFB - Bubbling Fluidised Bed

Fuel heat capacity _____ 40 MW

Throughput _____ 145,000 t/a

Waste types _____ RDF of municipal and industrial origin, rejects from mechanical sorting and recycling, sewage sludge

Calorific range of fuel mix _____ 7 – 16 MJ/kg

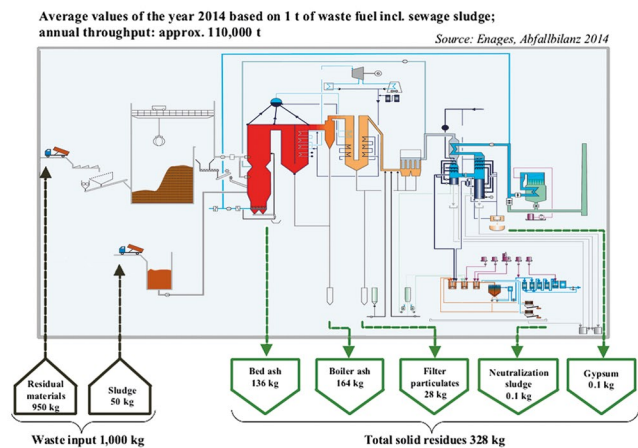
Start-Up _____ 2003

Investment _____ 52 Mio. € (including mechanical waste pre- treatment)

UVP Consulting Services provided

- Project development and feasibility study
- Process engineering and plant design
- Legal commissioning
- Preparation of tender documents and tender evaluation

Since 1994, UVP has carried out project development and various studies on sustainable waste treatment options, including analyses of waste, product and energy utilisation markets, technology and site evaluation. One of these projects is the ENAGES plant in Austria's second largest province, Styria. This waste-to-energy plant was successfully integrated into an existing paper mill in the municipality of Niklasdorf, which had proved to be the most favourable site. With a thermal load capacity of 40 MW, equivalent to a fuel capacity of 145,000 tons per year, the ENAGES co-generation facility delivers electricity and process steam to the adjacent paper mill.



Specific mass flows of ENAGES WtE plant (© ENAGES GmbH)



ENAGES WtE plant (left), integrated into Brigl & Bergmeister paper mill (right) with year-round optimum energy recovery, both sites belonging to Roxcel Group (© ENAGES GmbH)

ENAGES Waste-to-Energy



Example of inhomogeneous waste input material before mechanical pre-treatment (© ENAGES GmbH)



On-site mechanical waste pre-treatment (© ENAGES GmbH)



Example for optimized material recovery of residues from the fluidized bed incineration process: bed ash, i.e. coarse material, consisting of "sand-blasted" metals, glass, and minerals (© ENAGES GmbH)



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