

BERTSCHenergy

Power plants
Process equipment

95
YEARS

TRADITION
QUALITY
KNOW-HOW
SINCE 1925

Sewage Sludge Incineration Facility Zurich

Reference Sheet



BERTSCH

TRADITION, QUALITY, KNOW-HOW. SINCE 1925

»Waste Heat Recovery Boiler downstream Fluidized Bed Furnace – Commissioning 1st quarter 2015«

The sewage sludge incineration facility in Zurich enables long-term, ecological and economic disposal of municipal sewage sludge. The plant design provides the option for later recovery of valuable and limited phosphor raw material from the ash. The incinerator is designed as a mono-combustor. The sludge is combusted in a fluidized bed, producing hot flue gases which are used to preheat the combustion air and to generate superheated steam. The high pressure steam is expanded in a steam turbine, producing electricity and process heat, which is utilized to partially dry the sewage sludge.

TECHNICAL DATA

» Thermal output	4.45 MW
» Electrical output	0,875 MW
» Max. continuous rating (MCR)	9,6 t/h
» Steam pressure	60 bar(a)
» Steam temperature	450 °C
» Fuel	municipal sewage sludge
» Sewage sludge volume (22% DS – 30% DS)	100,000 tons / year
» Sewage sludge volume dry substance	30,000 tons / year

SCOPE OF SUPPLY

» Complete boiler plant
» Feed water system
» External piping incl. turbine piping
» Field devices

