

- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

BALDOVIE EFW CHP FACILITY, DUNDEE GREAT BRITAIN



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Number of Lines	1
Fuel	Domestic / Industrial refuse
Heating Value (min./nom./max.)	7.5 / 10.47 / 12.5 MJ/kg
Fuel Throughput (min./nom./max.)	12.64 / 13.72 / 19.15 t/h
Rated Thermal Input	39.9 MW
Steam Capacity	49.2 t/h
Steam Pressure	43 bar
Steam Temperature	405 °C
Feed Water Temperature	130 °C
Flue Gas Flow	83,070 m ³ i. N./h
Exhaust-Gas Temperature	145 / 155 °C
Emission Limit Value	WID
Year of Commissioning	2020

THE TASK

MVV Environment Baldovie Ltd., a subsidiary of the Mannheimer Energy Company MVV, commissioned Standardkessel Baumgarte as general contractor for the turnkey supply, construction and commissioning of the energy from waste power plant in Dundee, Scotland. The plant will be constructed next to an already existing fluidised bed firing unit and is to replace the latter, in the long term. The electricity generated will be fed into the public grid and a neighbouring industrial company will be supplied with steam.

THE SOLUTION

The plant is designed with the proven firing and boiler concept by Standardkessel Baumgarte. The technical concept chosen for the incineration lines was supplied from one and the same source by Standardkessel Baumgarte. The supply includes, among other things, an air-cooled moving grate, three vertical radiation passes and a vertical economizer. The scope of supply extends over the entire plant, including construction work.

SCOPE OF SUPPLY

- Steam Generator with Auxiliaries
- Grate Firing System with Auxiliaries
- Flue Gas Treatment System
- Air Cooled Condenser
- Water Steam Cycle
- Compressed Air System
- Waste Cranes and Slag Crane
- Ignition and Auxiliary Firing System with Fuel Storage and Conveying System
- Refractory Linings and Thermal Insulation
- Feedwater Supply System with Tank and Pumps
- Steel Construction
- Electrical, Instrumentation and Control
- Civil Works incl. Plant Infrastructure
- Building and Building Services

ENGINEERING SERVICES

- Engineering incl. Approval and Official Engineering
- Erection and Commissioning
- Trial Run