

Plant Profile:

Waste-to-Energy
Wiesbaden, Germany

DOOSAN Lentjes

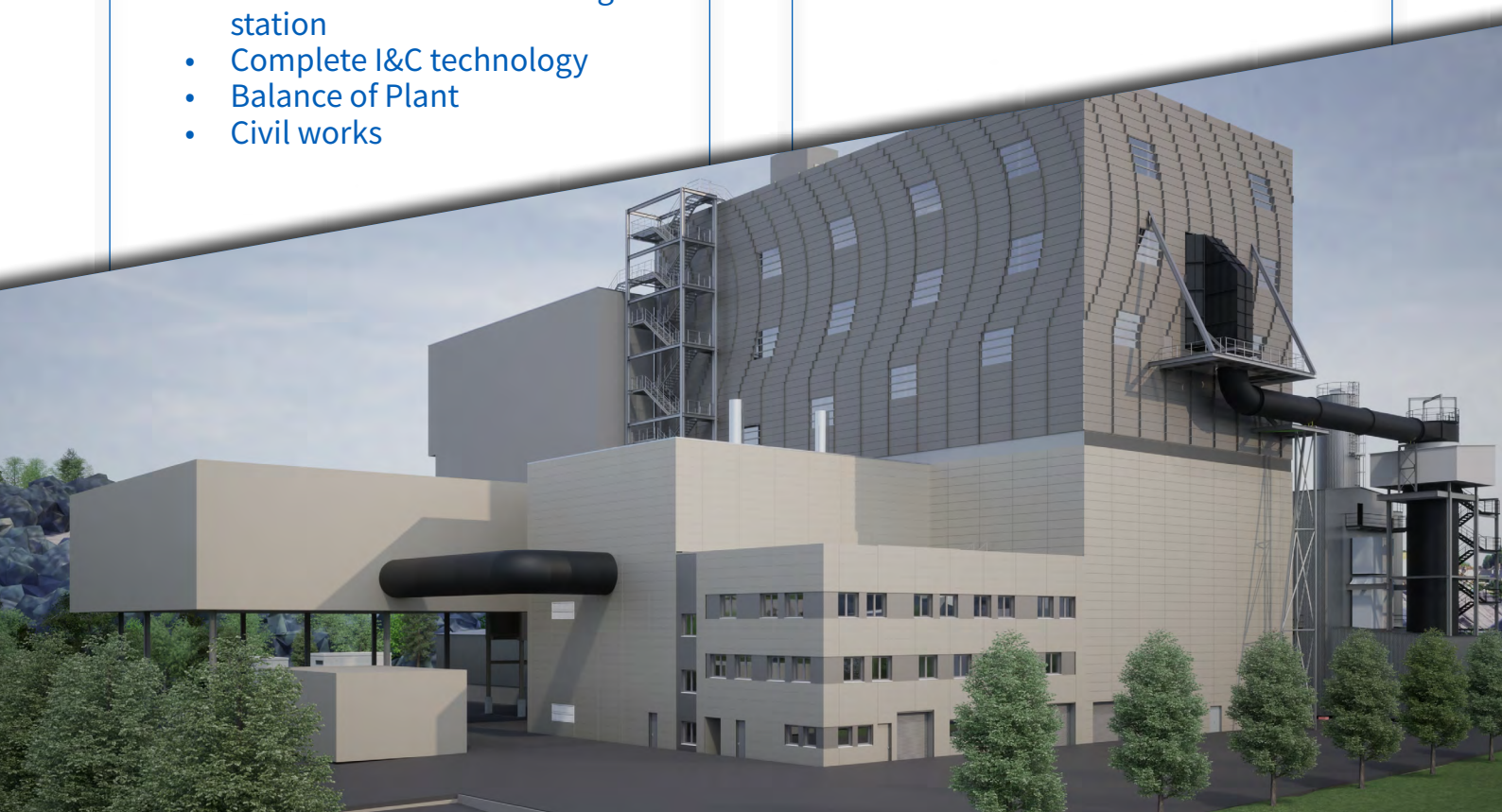
Doosan Lentjes has been commissioned as consortium leader for the turnkey delivery of the new waste-to-energy plant in Wiesbaden. As general contractor, Doosan Lentjes will be responsible for the turnkey planning, delivery, assembly and commissioning of the entire plant. Completion of the facility is planned for 2024.

Supplies & Services

- Turnkey plant as general contractor
- Waste reception and treatment
- Water-cooled reciprocating grate
- Steam generator
- Flue gas cleaning incl. SCR
- Ash removal system
- Water-steam cycle with turbine and district heating station
- Complete I&C technology
- Balance of Plant
- Civil works

Customer benefits

- High flexibility with regard to changing waste qualities and compositions
- Compliance with essential BREF emission specifications



Future-proof waste disposal capacities for Wiesbaden

Doosan Lentjes was commissioned as consortium leader to supply the new waste-to-energy plant by the owner and operator, MHKW Wiesbaden GmbH.

The plant will comprise one process line, including water-cooled grate, boiler and dry flue gas cleaning. Once completed, the new power plant will thermally treat 240,000 tonnes of municipal waste and refuse derived fuel (RDF) from the greater Wiesbaden area per year. The energy contained in the waste is used to produce electricity and district heating.

The multi-stage flue gas cleaning concept consists of a quench, fabric filters and SCR and ensures reliable compliance with the BREF specifications. The cleaned gas is fed to a heat recovery system via an economiser and then discharged via the stack.

The customer receives a future-proof disposal solution whose flexibility allows it to adapt to changing fuel properties. This means that waste with different compositions and qualities can also be reliably thermally treated over the entire service life of the plant.

The plant is scheduled for completion in 2024.

Key project data

Customer	MHKW Wiesbaden
Location	Wiesbaden, Germany
Contract award	2021
Fuels	Municipal solid waste and refuse derived fuel (RDF)
Total plant capacity	1 x 240,000 t/a
Number of lines	1
Thermal capacity	80 MW _{th} / max. 84 MW _{th}
Power generation	22 MW _e
Steam parameters	410°C / 42 bar
Heating value (nom.)	11.4 MJ/kg

Doosan Lentjes provides proprietary environmental technologies for thermal waste treatment and energy generation. Our areas of expertise include the incineration of renewable fuels such as waste, sewage sludge and biomass, heat recovery systems and flue gas cleaning equipment. We deliver flexible solutions for long-term waste disposal safety and climate-friendly steam and power generation.

As a member of the global Doosan Group, Doosan Lentjes is part of a strong international network of companies providing complementary technologies, skills and value to customers the world over.

Wiesbaden, Germany

Doosan Lentjes GmbH

Daniel-Goldbach-Str. 19
40880 Ratingen, Germany

Tel: +49 (0) 2102 166-0
E-Mail: DL.Info@doosan.com
www.doosanlentjes.com