

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 is responsible for the turnkey planning, delivery, assembly and commissioning of the entire plant.

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 comprises 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 to ensure 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.

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 focuses on environmental technologies for the efficient use of resources in the sense of a sustainable circular economy. With our proprietary processes for incineration, steam generation and flue gas cleaning, we supply tailor-made partial plants for thermal waste and sewage sludge treatment. Expertise in the circulating fluidised bed rounds off our range of services.

As a member of the global Doosan Group, Doosan Lentjes is part of a powerful international network of companies offering complementary technologies and services worldwide.

Wiesbaden, Germany

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