Plant Profile: Waste-to-Energy Olsztyn, Poland



Doosan Lentjes, together with its consortium partner and parent company Doosan Enerbility, has been awarded the supply of the new waste-to-energy plant in Olsztyn, Poland. Doosan Lentjes was responsible for the design, supply, installation and commissioning of the entire mechanical and electrical part within the turnkey project.



Strengthening the local waste management infrastructure

The consortium of Doosan Lentjes and Doosan Enerbility was commissioned by plant operator Dobra Energia to build a new waste-to-energy plant in Olsztyn, Poland. The facility is owned by local energy provider MPEC Olsztyn.

The turnkey plant has been successfully completed and commissioned. The scope of supply included the process technology, civil works, and two gas-fired peak load boilers to ensure secure district heating supply. A proven water-cooled reciprocating grate is used to recover the energy contained in the waste efficiently.

Olsztyn marks the first project of its kind jointly executed by Doosan Lentjes and Doosan Enerbility. The customer benefited from a seamlessly integrated solution from a single source – combining cutting-edge environmental technologies with international EPC expertise.

Thanks to Doosan Lentjes' dry Circoclean® flue gas cleaning technology, the plant fully complies with the emission limits set by the revised BAT reference documents.

As the eighth plant of this type to be built in Poland, the new facility in Olsztyn makes a significant contribution to strengthening the country's waste management infrastructure. At the same time, it supports the implementation of the EU waste hierarchy, which prioritises energy recovery over conventional landfilling.

Key project data

| Customer | MPEC (Miejskie Przedsiebiorstwo Energetyki Cieplnej Spólka z o.o. in Olsztyn) |
|----------------------|---|
| Plant operator | Dobra Energia dla Olsztyna sp. z o.o. |
| Location | Olsztyn, Poland |
| Contract award | 2020 |
| Fuel | Refuse Derived Fuels (RDF) |
| Total plant capacity | 120,800 t/a |
| Number of lines | 1 |
| Thermal capacity | 48 MW _{th} |
| Power generation | 12 MW _e |
| Steam parameter | 420°C / 65 bar |
| Heating value (MCR) | 12.5 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.

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