

PROJECT PROFILE: Waste-to-energy, Poland

Warsaw

Waste-to-energy



In 2021, Doosan Lentjes has been contracted to supply grate and boiler plants for the new waste-to-energy plant in Warsaw, Poland. The completion of the new facility is scheduled for 2024.

DELIVERABLES

- Two incineration process lines, each consisting of air-cooled reciprocating grate, steam generator, SNCR (selective non-catalytic reduction) and auxiliary equipment

CHALLENGES

- Challenging time schedule
- Expansion of an existing WTE plant during operation

BENEFITS

- High flexibility with regard to changing waste qualities and compositions
- High plant life cycle
- Improvement of the local waste management infrastructure
- Doosan Lentjes has vast experience in thermal waste treatment on the Polish market

Improving the Polish waste management infrastructure

Doosan Lentjes has been selected by the general contractor, South Korean POSCO E&C, to supply grate and boiler plants for the new thermal waste treatment plant in Warsaw, Poland. The owner of the new facility is the Warsaw waste management company MPO.

Doosan Lentjes' proven air-cooled reciprocating grate, steam generator and SNCR (selective non-catalytic reduction) for denitrification of the flue gases will be used.

After completion, which is planned for 2024, the plant will thermally treat 265,200 tonnes of municipal solid waste from the Warsaw region per year. The new plant will thus make a significant contribution to establishing safe local disposal capacities that meet the EU's requirements for sustainable waste management.

The customer will benefit from a future-oriented solution that takes into account changes in waste composition and quality and will ensure safe disposal in the long term.

Key project data

Final customer / owner	Miejskie Przedsiębiorstwo Oczyszczania w m.st. Warszawie Sp. z o.o. (MPO)
Customer (main contractor)	POSCO Engineering & Construction Ltd.
Location	Warsaw, Poland
Contract award	2021
Fuel	Municipal solid waste (MSW)
Plant capacity	265.200 t/a
Number of lines	2
Steam pressure	40 bar
Steam temperature	400°C
Calorific value	8.65 MJ/kg



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Doosan Lentjes provides proprietary environmental technologies for thermal waste treatment and power 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.

Doosan Babcock

Doosan Lentjes

Doosan Škoda Power

NUCLEAR | BOILERS | TURBINES | WASTE TO ENERGY | AIR QUALITY CONTROL | SERVICE

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LIEFERUNGEN

- Zwei Verbrennungslinien, jeweils bestehend aus luftgekühltem Vorschubrost, Dampferzeuger, SNCR (selektive nicht-katalytische Reduktion) und Nebenanlagen

HERAUSFORDERUNGEN

- Anspruchsvoller Zeitplan
- Erweiterung einer bestehenden MVA im laufenden Betrieb

NUTZEN

- Hohe Flexibilität im Hinblick auf wechselnde Abfallqualitäten und -zusammensetzungen
- Hoher Anlagenlebenszyklus
- Verbesserung der lokalen Entsorgungsinfrastruktur
- Doosan Lentjes verfügt über fundierte Erfahrung in der Abfallverbrennung auf dem polnischen Markt