

Plant Profile:

Flue gas cleaning
enfinium Kelvin, UK

DOOSAN
Lentjes

Doosan Lentjes has been contracted to supply a flue gas cleaning (FGC) system for a new waste-to-energy plant in West Bromwich, UK. Commissioning of the new plant is planned for 2025.

Supplies & Services

- Engineering, manufacturing, and supply of a Circoclean® FGC plant
- Advisory services for erection and commissioning

Customer benefits

- Full compliance with BREF emission requirements
- High availability



Full compliance with European BREF emission regulations

Doosan Lentjes has been contracted by general contractor Acciona to supply the flue gas cleaning system for a new waste-to-energy plant in West Bromwich, UK. The owner and operator of the new plant is enfinium Kelvin Limited.

The proven Doosan Lentjes Circoclean® flue gas cleaning technology will be used to ensure that the new waste-to-energy plant will meet all emission limits in accordance with stringent European BREF (Best Available Techniques Reference) requirements.

Doosan Lentjes' scope of supply includes engineering, manufacturing and supply of the entire flue gas cleaning system as well as support to the general contractor during installation and commissioning.

Doosan Lentjes has extensive experience in working with international general contractors and will therefore be able to complete the project with the final customer's objectives in mind.

Key project data

Final customer	enfinium Kelvin Limited
General contractor	Acciona Industrial UK Limited
Location	West Bromwich, UK
Contract award	2022
Fuel	Municipal solid waste
Thermal capacity	135 MW _{th}
Flue gas flow rate	1 x 232,000 m ³ /h (STP, wet)
Flue gas cleaning technology (Reagents)	Circoclean® (Hydrated lime and activated carbon)
Guaranteed emissions data	
SO _x concentration at stack outlet	< 30 mg/m ³ (STP, dry)
SO _x removal efficiency	97.7 %
Solids concentration at stack outlet	5 mg/m ³ (STP, dry)
Solids removal efficiency	99.9 %
HCl concentration at stack outlet	< 6 mg/m ³ (STP, dry)
HCl removal efficiency	99.8 %

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.

enfinium Kelvin, UK

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