

## EcoFlex™ pre-engineered WtE plant design

### Principles

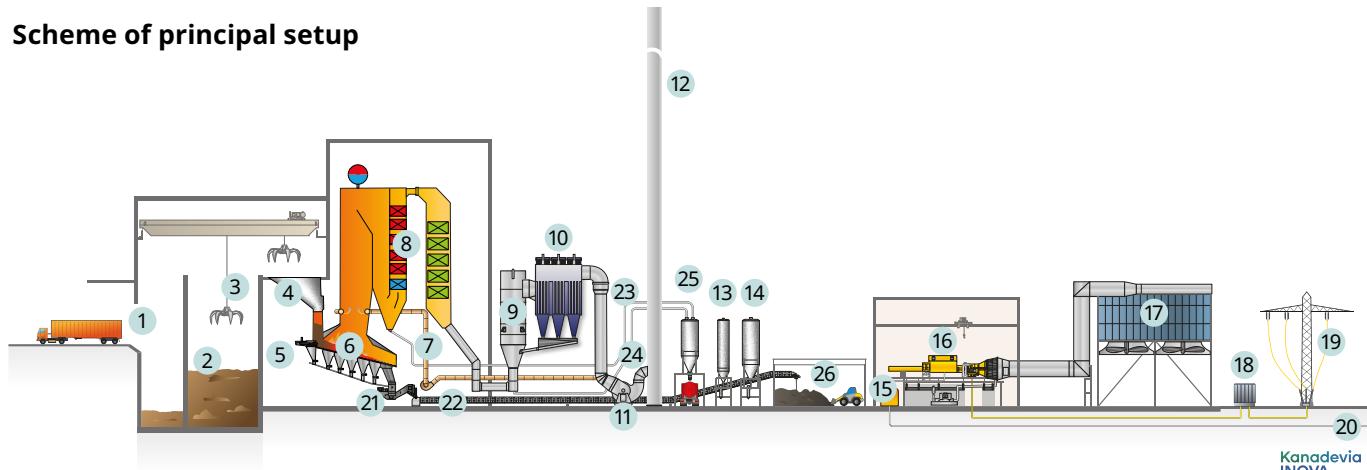
The pre-engineered WtE plant solution EcoFlex™ is based on proven in-house technologies, for instance the Inova Grate, SemiDry sorption and Autaro™ combustion control, allowing a cost optimised design of single-line Waste to Energy plant construction and operation. This Swiss-engineered solution fully complies with EU regulation standards.

The design is extendable with retrofit solutions for future emission limit reductions and further process technologies. It represents a cost effective modern waste infrastructure solution, designed for the municipal and industrial non-hazardous waste with a net calorific value of 11 MJ/kg.

### Key figures

- Nominal operation load point (LPN):  
120,000 tons/a of waste at a NCV of 11 MJ/kg
- Thermal capacity at LPN:  
Approx. 46 MW<sub>th</sub>
- Operational range of waste throughput:  
Approx. 80,000–130,000 tons/a
- Operational range of NCV:  
8,5–15 MJ/kg
- Performance at ISO conditions:  
Approx. 12 MW<sub>el</sub> generator output at  
12 MW<sub>th</sub> district heating capacity

### Scheme of principal setup



Waste reception and storage	Combustion and boiler	Flue gas treatment	Energy recovery	Residue handling and treatment
1 Tipping area	4 Feed hopper	9 SemiDry reactor	15 District heat exchanger	21 Bottom ash extractor
2 Waste bunker	5 Ram feeder	10 Fabric filter	16 Turbine and generator	22 Bottom ash conveyer
3 Waste crane	6 Inova Grate	11 Induced draught fan	17 Air cooled condenser	23 Boiler ash extractor
	7 Recirculation air	12 Stack	18 Transformer	24 Residue conveyer
	8 Four-pass boiler	13 PAC silo	19 Grid connection	25 Residue silo
		14 Ca(OH) <sub>2</sub> silo	20 District heat connection	26 Bottom ash hall

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