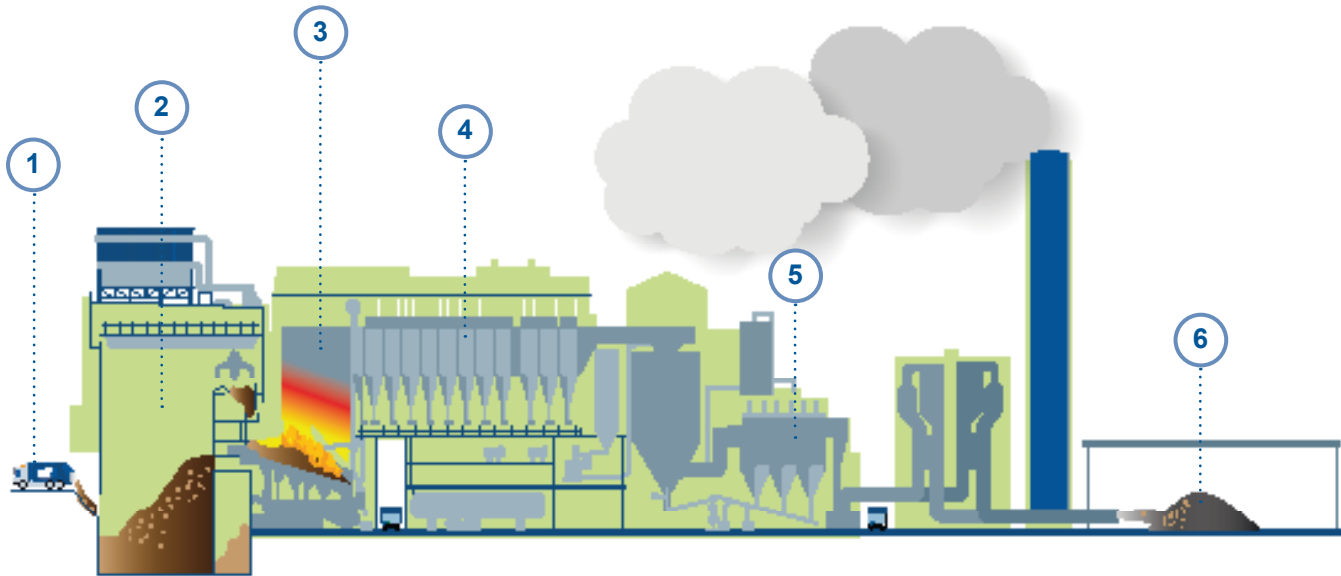


# WASTE-TO-ENERGY

Plant Zistersdorf



- 1 600 tons of waste are delivered to our incinerator per day, where of 70% is delivered by train, **reducing road traffic and harmful emissions**. Waste is delivered in the form of bales, with the approximate weight of 1,5 tons each.  
  
Rail is also used for removal of bottom ash. A special type of wagon – a tank – is used with capacity of 28 tons, meaning a lesser environmental impact from reduced road traffic.
- 2 **In the bunker there are up to 4.000 tons of waste stored** at any one time before treatment, which is a ratio of at least one per week. The waste is mixed to achieve a stable calorific value (approximately 10,5 MJ/kg).
- 3 Incineration of 18 tons per hour in a water cooled grate kiln.
- 4 In the steam boiler the combustion process converts the waste to **steam, with a production rate of 68t/h** at a temperature of 405 degrees celsius and 42 bar. The steam drives a turbine to produce electricity.
- 5 To meet the most stringent environmental requirements a multi stage pollution control system in the form of a dry sorption system, bag filters and NOx catalyst have been installed. **Emissions are monitored continuously**.
- 6 Slag stock materials are recycled from the bottom ash (45.000 tons per year).



**162.500**

tons of domestic and industrial waste is delivered to the waste2energy plant annually. This amounts to around **1,6 million emptied containers**.



**20**

tonns of waste per working hour is combusted. This means about **750 emptied bins**.



**1.900**

wagons deliver up to 70% of the inputted materials.



**4.900**

trucks deliver the remainder of the waste.



**106.000**

MWh of electricity is produced and delivered to the power grid.



**Over 30.000**

households are powered by the 15MW electricity with 20KV produced.



**3.000**

tons of metals are produced and recycled.



**40 Million**

litres of oil (as a primary resource) can be saved by the incineration process.