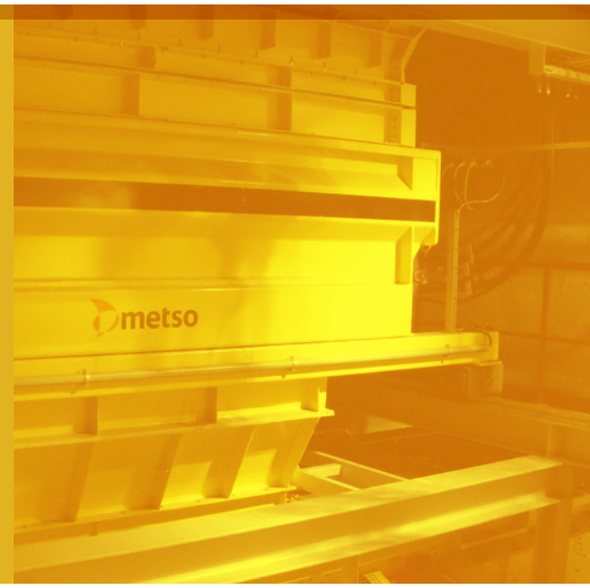

Incineration plant

Customer: **Attero**
Delivered: **July 2013**
Facility: **M&J PreShred 6000S - 9 standard knives**
Production: **household waste**
Capacity: **150 ton/hour**

95% uptime by a unique rail-and-hoist system

At another Attero incineration plant, two Lindemann rotor shears had been replaced by modern Metso waste shredders several years ago, resulting in a number of unexpected positive side effects. Based on the success of the new Metso shredders there, Attero's management team began a feasibility study to decide if the replacement of a rotor shear by a modern waste shredder would also be successful at the Moerdijk plant.

The target was to shred 1 million tons per year of a combination of bulky waste, bales and household waste, in a fully automated system. After comparing several systems and options the project team opted for two M&J PreShred 6000S 9 knives shredders from Metso Denmark. Although the 6000 stationary has a production capacity of well over 150 tons/hour, the large cutting zone of 8.3 m2 and its ability to deal with difficult waste were the main reasons for the decision.

The benefits are considerable:

- Size-reduction to < 450 mm homogenizes the waste; this helps furnace management with temperature control.
- Shredded waste produces less slack. The cost of slack removal by controlled blasting is therefore reduced.
- The size-reduction has a positive effect on emission control.
- Ferrous and non-ferrous metals can be separated before incineration.
- The advantages gained by managing the entire waste stream on-site far outweigh the investment costs.

A demand for shorter downtime

With a requirement to keep downtime below 5%, a unique rail-and-hoist system allows for a quick exchange of the cutting tables, keeping downtime to a minimum. The shredders are placed on a rail system, which allows them to be moved to the middle of the shredder-platform.

metso