

Construction and enlargement of the Noord-Holland Household Waste Treatment Plant in Alkmaar, the Netherlands

Client: NV Huisvuilcentrale Noord-Holland
Design: Bonnema Buro (construction only), Royal Haskoning and Tebodin (enlargement only)
Contractor: BAM Civiel bv (in various joint ventures)
Completion time: 2004
Contract sum: Construction € 102,700,000 (50%), enlargement € 98,715,000 (40%)
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BAM Civiel

BAM Civiel built the Noord-Holland Household Waste Treatment Plant, working in partnership with the Swiss company Von Roll AG and the Dutch Koninklijke Schelde Groep. The aim of this treatment plant is twofold. It is there to separate and process household waste, but also to incinerate the waste for electricity generation. The process makes use of controlled incineration, extremely effective flue gas cleaning, and the best possible use of residues for recycling.

The waste treatment plant has since increased its capacity for supplying electricity – from 35 MW to 55 MW. This fourth incineration line was also built together with Von Roll. A possible extension had been taken into account during the building construction. As it had built the original plant, BAM obviously had all the necessary know-how to manage this new project well.

The plant did have to be adapted in several ways during the enlargement. The fourth incineration line was specially constructed for high-calorific waste such as commercial waste. This meant that the incineration and flue gas cleaning installations had to be altered, as well as several other parts of the existing plant, including the waste bunker.

Enlargement was necessary because of a shortage of processing capacity for combustible commercial waste. Waste like this may no longer be put into landfills. The design for the new incineration line was therefore geared to processing high-calorific waste.