

# Waste incineration plant, Moerdijk, the Netherlands

Client: nv Afvalverbranding Zuid-Nederland  
Design: AGS Architecten & Planners bv  
Engineering: Adviesburo D3BN Civiel Ingenieurs / BAM Infraconsult bv  
Contractor: BAM Civiel bv (internal joint venture)  
Completion time: 2009  
Contract sum: € 296,772,250 (33.33%)  
Contact: +31 (0)182 59 06 00 / info@bamciviel.nl / www.bamciviel.nl



## BAM Civiel

Working together with Von Roll AG from Switzerland and the Dutch Koninklijke Schelde Groep, BAM Civiel built a new waste incineration plant for NV Afvalverbranding Zuid-Nederland (AZN) in a design & construct joint venture with a number of sister companies. BAM Civiel was the consortium's main contractor. The project was commissioned on a turnkey basis, with the consortium responsible for both design and construction.

The plant was built to process household waste for the generation of energy and recyclable residue materials. Controlled incineration creates low-pressure steam which is supplied to an adjacent power station. There, the steam is reheated and used to produce electricity. Residual heat is then supplied to a Shell Chemie plant located nearby. Linking a waste incineration plant, power station and industrial plant in such an efficient way results in an extremely high output.

The plant was completed on schedule. When it went into operation, the flue gases were judged to be cleaner than required, far cleaner than even the very stringent Dutch legislative standards called for. This project consisted of three incineration lines with the possibility of a fourth line being added. The waste reception hall and the waste bunker were therefore constructed to take this higher capacity into account.

The building contract included design, engineering, construction and operations start-up. A detailed brief was drawn up beforehand with all the specifications the plant had to meet. This included processing capacity, flue gas emission levels, the quantity and quality of residue materials and energy generation. The whole project was designed and constructed in no more than 3,5 years. Just three months after work had begun, the first pile was already in place. In total, approximately 2,700 piles were used, varying in length from 30 to 36 metres. Plus some 25,000 m<sup>3</sup> of concrete.