

Triade Twence, Hengelo, the Netherlands

Client: Twence Afvalverwerking B.V.
Design: Royal Haskoning Nederland (commissioned by BAM Civiel bv)
Contractor: BAM Civiel bv / BAM Techniek bv
Contract sum: € 40,000,000
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BAM Civiel

The population of the Netherlands has – just as the standard of living – increased substantially over the past decades. This obviously has an effect on the amount of waste produced. Fortunately, waste is no longer put into landfills. It is now incinerated. And to increase the capacity of the waste processing company Twence in Hengelo, in the east of the country, BAM Civiel – having built the first two lines – has now built the company's third incineration line. This line can process 220,000 tons of waste annually, almost double the previous capacity. It also meets the most stringent safety and environmental standards. Twence is actually very proud of its emissions, which are cleaner than the air in the Randstad urban region in the west of the country.

The greatest challenge in this design & construct project was the degree of organisation needed for construction in just 15 months. In this extremely short time, a huge building measuring 225 x 40 x 60 metres (lxwxh) appeared, 10 metres of it below ground level.

The project included groundworks and foundations, concrete and steel constructions, roof and wall cladding, and turnkey completion. The new building is used for storing and incinerating waste as well as converting it into heat and electricity. Twence and its neighbouring biomass power station now produce enough power to supply two-thirds of the households in the province of Twente with green energy.