



New-build

# DOMED ROOF POWER PLANT HAMBURG - MOORBURG (D)

## Client

Holzbau Amann GmbH  
Albtalstrasse 1, D - 79809 Weilheim-Bannholz, Germany

## Developer

Vattenfall Europe Generation AG & CO. KG  
Vom-Stein-Strasse 39, D - 03050 Cottbus, Germany

## Year of construction

2010–2011

## Planning contract

- Structural development
- Structural analysis for approval
- Structural analysis

## Project description

The domed structures of the Hamburg-Moorburg power plant have a span of 115 m and were erected with cantilever construction methods despite the low overall height of less than one metre. They have a capacity of up to 170,000 tons with a dumping height of up to 60 m. The design was particularly challenging due to the enormous deformations caused by the asymmetrical filling levels.

- Dome constructions as glued laminated timber
- Two domes with a diameter of 115 m
- One dome with a diameter of 70 m
- Total covered area: 24,000 m<sup>2</sup>
- Assembly of the dome construction with cantilever construction methods

