



Photo: Nuon

Nuon

Nuon Magnum Power Plant (NL)

IGCC power plant (1,300 MW) / Gas-fired section

Piping & Mechanical

Electrical & Instrumentation

Multi-technical

Modular construction

Induction bending

Piping prefabrication

Specialized fabrication

Owner
Nuon

Client
Mitsubishi Heavy Industries (MHI)

Engineering
Mitsubishi Heavy Industries (MHI)

Location
Eemshaven, the Netherlands

Start date
January 2010

Completion date
December 2012

Contract value
251,000,000 € (Consortium)

Total manhours
3,600,000 (Consortium)



Project description

The new power plant, Nuon Magnum, is being built by Nuon in Eemshaven, the Netherlands. The power plant will have a production capacity of 1,300 MW, enough to provide electricity to two million households. In May 2008 the construction work was halted due to delay in permit procedures. In September 2009 Mitsubishi Heavy Industries, a full turnkey contractor for this project, received an instruction from Nuon to restart construction activities.

Nuon Magnum power plant is based on coal gasification technology, which is foreseen for Phase II of this project. This is an innovative and sustainable technology, whereby several fuels - gas, biomass and coal can be utilised. The combination of coal gasification followed by the generation of the electricity is called IGCC - integrated gasification combined cycle. Gasification is one of the cleanest and most flexible ways to generate electricity from solid or liquid fuels.

The development of Nuon Magnum will respond to the rising demand for energy and will contribute to making energy more sustainable.

Our scope

Fabricom is the leader of the Consortium 'FIP Magnum' which is responsible for multi-technical installation related to Phase I of the project - erection of the gas-fired part of the plant:

- Overall project management
- Installation of centerline equipment (turbines and generators) and equipment setting
- Piping & Mechanical works: piping and related activities (scaffolding, painting, insulation, grouting, craning, heavy lifting)
- Electrical & Instrumentation works.

Consortium partners:

- External JV: Fabricom, Irem, Ponticelli (FIP Magnum)
- Internal JV: Fabricom International Operations / Fabricom B.V. (Major Projects)

Construction activities of FIP Magnum have started in January 2010 with the construction of pipe racks. On-site construction is due to begin in September 2010.

