

Compression station and connecting lines at Zelzate



Principal : Fluxys N.V., Brussels

Client : Tractebel Engineering, Brussels

Period : July – October 2005

Budget : € 60.000

Location : Zelzate

Scope of engineering works :

Technical assistance with respect to FEED-preparation and edition of tender documentation for the construction of the compression station and connecting lines.



Compression station layout

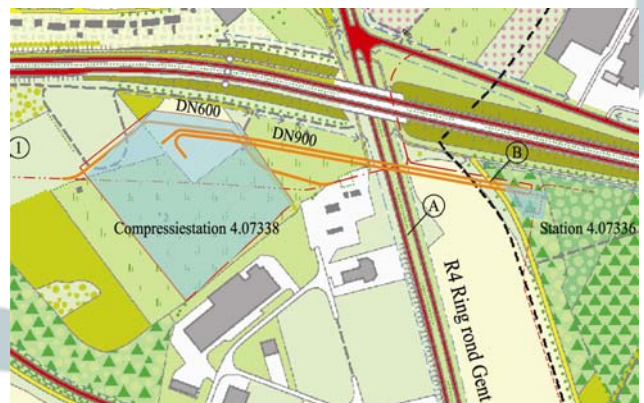
Technical project description :

In Zelzate, two main natural gas pipelines are situated at the crossing of the Kennedylaan (R4) and the Express road Knokke – Antwerpen (N49) :

- DN600 Zomergem - Kallo
- DN900 Gent (Desteldonk) – Zelzate



Future site location



Situation map

Services :

- Study of compression station lay-out ;
- Route determination for DN900 connecting lines (length 600 m) ;
- Technical specification preparation for civil engineering and pipeline installation ;
- Edition of permit application files (construction and transportation permit) ;
- Screening of contractors bids (EPC-contract)



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Fluxys intends to raise a compression station in the industrial area Rosteyne at Zelzate connected to both lines. Two lines DN900 connect the compression station with the line valve station Wachtebeke Dam on the DN900 Gent (Desteldonk) – Zelzate.



Future site location

Project objectives

The project objectives are the interconnection of both lines, so that natural gas can be transferred from one line to the other line and vice versa.

These works are part of the high pressure network restructuration in order to strengthen natural gas supply in the Oost-Vlaanderen region.

Compression station lay-out

The compression station includes :

- two compressor buildings with four identical compressors (two compressors per building) ;
- a generator building with control room, emergency current group, UPS-installation, instrumentation air, electric switch devices, warehouses and workshops ;
- two VSD-buildings with four speed variators for the compressors electric motors ;
- monitoring and safety systems ;
- a fire water pond, fire water pumps ;
- an installation for gas venting ;
- an administrative building.