



Nabucco Natural Gas Pipeline- Owner's Engineer for FEED

GAS

Nabucco Gas Pipeline International GmbH



Profile:

The Nabucco natural gas pipeline constitutes a dedicated gas transit and transportation pipeline from Turkey to Austria via Bulgaria, Romania and Hungary. Total length is planned to be between 3,300km and 4,000km. Capacity will be phased, from 20Bcm/a in the first year to 31Bcm/a in the 6th year, in stages.

Penspen was appointed in December 2007 as Owner's Engineer for the development. To assist with the overall studies, five local engineering companies have been appointed to produce individual 'in Country' FEED's, one for each member state. Initial gas supplies were to be from Georgia and Iran but changes in the project strategy have now allowed for a supply from Iraq instead of Iran.

Penspen Services:

- Act as Consultant to the Client with regard to FEED activities
- Review of previous Technical Feasibility Study
- Preparation of revised and updated Basis of Design
- System orientated design of the entire Nabucco pipeline including:
 - Hydraulic modelling including the alternative Iraq feed pipeline
 - Material studies
 - Material Specifications
 - Metering Philosophy
 - Compressor sizing and specification
 - Specification for the SCADA system
- Implementation of a specific Nabucco GIS system
- Tendering of next project phases for Long Lead Items and EPCM Contracts
- EIA Consultancy and EIA reporting to International Financing Institutes
- Coordination of the Local FEED Contractors to ensure compatibility with the overall design specifications

Penspen Contract: Owner's Engineer for FEED

Penspen Manhours: 40,000 +

Project Value: € 7.9 billion