

<b>Value</b>	US\$60,000,000
<b>Start Date</b>	October 2009
<b>Completion</b>	March 2011
<b>Client</b>	PTT Public Company Ltd



## Fourth Transmission Pipeline Interconnecting Pipelines Project

### RAYONG, THAILAND

PTT Public Company Limited awarded McConnell Dowell Constructors Thai Ltd a contract for engineering, procurement and construction (EPC) of the Fourth Transmission Pipeline (FTP) Interconnecting Pipelines Project. The Interconnecting Pipelines package forms part of the new gas transmission pipeline to transport gas from the Liquefied Natural Gas (LNG) Terminal at the Maptaput Industrial Estate near Rayong, to a tie-in station on the existing Wang Noi to Kaeng Khoi Pipeline in Saraburi Province.

The Interconnecting Pipelines package will provide for bidirectional transfer of gas between the LNG Terminal and the existing PTT Gas Separation Plant. The purpose of transferring the gas between the two facilities is to control and manage the quality of gas dispatched to the PTT Transmission Pipelines (the three existing transmission pipelines and the new Fourth Transmission Pipeline).

McConnell Dowell will deliver two 13 km long (36" and 42" dia) feed gas interconnecting pipelines as part of the project, to provide bidirectional transfer of gas between the a new LNG Terminal and the existing PTT Gas Separation Plant (GSP) at Rayong. The purpose of transferring the gas between the two facilities is to control and manage the quality of gas dispatched to PTT's Transmission Pipelines (3

existing transmission pipelines and the yet to be constructed Fourth Transmission Pipeline). The scope of work includes:

- The Feed Gas Interconnecting Pipeline of approximately 13 km length of 42-inch OD pipeline, from the Gas Separation Plant to the Fourth Transmission Pipeline Gas Dispatching Facilities adjacent to the LNG Terminal;
- The Sales Gas Interconnecting Pipeline of approximately 13 km length of 36-inch OD pipeline, from the Fourth Transmission Pipeline Gas Dispatching Facilities to the Gas Separation Plant;
- An initial 4km section of the 42" diameter Fourth Transmission Pipeline;
- Tie-ins at the existing Gas Separation Plant, including modification of existing pipe support racks and installation of all new additional pipe supports and racks between tie-ins and the new Gas Separation Plant Launcher/Receiver Area;
- A Gas Dispatching Facility adjacent to the new LNG Terminal, including extensive new pipe support racks for pipes runs between the Gas Dispatching Facility and the LNG Terminal; and
- Utility Systems at the Gas Separation Plant Launcher/Receiver Station and the Gas Dispatching Facility.

There are 16 Horizontal Directional Drill (HDDs) in total - six for 6" dia pipe, four for 36" dia pipe and a further six for 42" dia pipe. The longest drill measures 1350m in length (there are three drills of this length - 2 for 42" and 1 for 36" product pipes), with a further 3 drills being individually greater than 1200m in length.

The project is scheduled for mechanical completion on 31 March 2011, and start of regular operations on 31 May 2011.