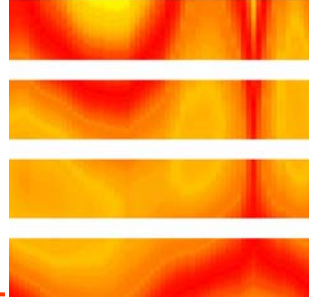




**PTT**  
Public Company Ltd.



**GAS**

## **F**ourth Transmission Pipeline Project - Thailand Petroleum Authority of Thailand – PTT

Gas pipeline to receive gas from the new LNG Terminal at Rayong/Maptaphut and deliver to the existing gas transmission system at the Wang Noi – Kaeng Khoi pipeline.

Penspen are providing Front End Engineering Design (FEED) Linepipe procurement support and EPC Tender assistance to PTT. Construction Management services at Client option.

- Review of Conceptual Design
- Basic Design and Engineering
- Preliminary HAZOP
- Operating & Control Philosophy
- Interfaces with LNG facilities
- Linepipe Procurement Assistance
- EPC Tender preparation, support & evaluation

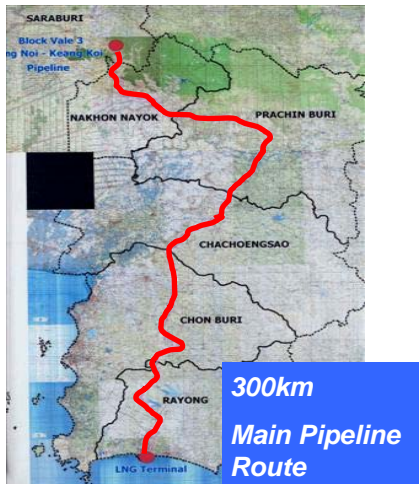


### **Profile:**

Approx. 300km of 42" diameter high pressure gas pipeline from Rayong LNG Terminal to Wang Noi – Kaeng Khoi Pipeline Tie-in Station.

36" & 42" diameter interconnecting pipelines to existing GSP for mixing and control of sales gas quality.

Sales Gas block valve stations, future strategic sales tap points, filtration/separator facilities, metering/regulating facilities, tie-in facilities, launcher/receiver facilities, SCADA and communication facilities.



<b>Capacity:</b>	1,700 MMSCFD,
<b>Penspen Contract:</b>	Lump Sum and Rates
<b>Total Man-hours:</b>	15,000
<b>Project Value:</b>	Confidential