

BEIJING CITY GAS GROUP

TRUST THE KINGFISHER

RTU



BACKGROUND

Beijing Gas Group is the largest urban gas enterprise in China. By the end of 2016, their natural gas pipeline network reached over 20,000 kilometres, supplying 18 billion cubic meters per annum to over 5.89 million customers.

Beijing Gas Group is ranked as the second largest gas distribution network in the world. The customers of Beijing Gas Group use the natural gas for industrial processes, heating, refrigeration, power generation and gas powered vehicles.

PROJECT OVERVIEW

The 20,000 kilometre pipeline network is managed from the Production Dispatching Command System that began construction in 2002.

This system includes SCADA for both transmission and distribution networks, a pipeline simulation system, consumption forecasting system and a geographic information system.

To allow 100% uptime, these systems are duplicated between the Master Control Centre (MCC) and the Emergency Control Centre. The pipeline network can be controlled from either control centre.



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OIL & GAS



MONITORING
& CONTROL



RTU'S



SOLUTION

The initial project, in 2002, included DDN lines to around 60 high pressure regulating stations. This has grown to over 200 stations, now utilising fibre-optic cables, with wireless communication as a backup channel. The protocol used to communicate with the RTU's mounted in the field, is DNP 3.0.

To date, 381 Kingfisher RTU's have been installed in the system for the monitoring and control of metered off takes, gas storage, CNG stations and pressure regulation stations.

For more than 10 years, our valued partner in China, ZKCiT, have provided product technology services to the Beijing Gas Group, including hardware and firmware upgrades as the Kingfisher RTUs have evolved. Beijing Gas Group is continuing to utilise and trust the Kingfisher product family for on-going system expansion and technology upgrades.



“Kingfisher RTUs provide a highly resilient, powerful and secure modular automation platform for critical and demanding SCADA applications which is evident by the trust that Beijing City Gas Group have in this technology”

Craig Abbott, Sales Manager, Asia, Ovarro



KEY DELIVERABLES

- An improved control and management capability
- Improved redundancy
- Improved situational awareness
- Multi-protocol communications
- Remote or local visibility of the systems status
- High-level cyber security tools

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