

## Gas Distribution Case Studies

### GL helps Greece to open up its gas distribution market

The Greek government has long had the intent to update the local energy industry and create more competition among the country's energy sources. As part of this drive it established the Public Gas Corporation of Greece (DEPA), which has a mandate to award three gas distribution licences. DEPA needed to provide potential investors with a comprehensive, independent appraisal of the technical and economic viability of the current distribution networks, and then evaluate the viability of any proposed expansion plans put forward.

Owing to our understanding of and commitment to the gas distribution market, GL was appointed as technical advisor to DEPA. GL provided technical input into the project business plan and a financial valuation of each concession, reviewed and valued the existing assets to be transferred, and performed technical and economic feasibility studies.

GL were further employed to evaluate bidders' technical proposals, perform risk analysis, review statutory and regulatory clearance, and support technical discussions with investors.

#### Benefits

GL's knowledge and technical capability has enabled DEPA to grant local concessions for external investors to enter into joint venture agreements with DEPA to take over, develop and operate the gas distribution networks of Greece for a period of 30 years.



### GL plans Singapore's conversion to natural gas

Singapore runs largely on manufactured gas and so a major gas conversion exercise was undertaken. PowerGas and City Gas jointly put out a tender for the development of a master plan for conversion to natural gas, to include the cost recovery mechanism, resource planning, network analysis and sectorisation, gas-firing equipment surveys, best practice conversion strategies and post conversion load growth opportunities.

GL won the contract against strong competition from 15 international utilities and consultancies. Our breadth of capability, coupled with the operational experience of many of our staff, were key to convincing the customer that we were best placed to do the job.

Since starting work we have completed a full SynerGEE network model and sectorisation of the 2,800 km transmission and distribution network for the island, completed appliance survey



work, calculated resource requirements and developed a fully costed implementation schedule for conversion.

### **Benefits**

Thanks to GL's advanced modelling skills, experience and expertise, Singapore now has a viable plan to convert its 0.5 million gas customers to natural gas over a 3-4 year period.