



Case Study LNG #28

Midscale LNG Liquefaction
Project –
Chart Energy & Chemicals



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Highlights:

Single liquefaction module produces
450,000 gallons of LNG each day

Location — British Columbia,
Canada

Scope of Project:

- Expansion to existing LNG liquefaction facility
- Design, engineering, fabrication and project management
- System designed for LNG production of 0.25 MMTA (450,000 gallons per day)
- Supervision of installation, performance testing, commissioning and start-up services
- Operator training

Application:

A Chart C450IMR standard plant, incorporating proprietary IPSMR® process technology, provides additional liquefaction capacity to an existing plant.

Project background:

The existing liquefier plant was one of Canada's first LNG facilities and had been operating safely since 1971. It was designed as a peak shaving facility to meet regional seasonal demand for approx. 1.1 million natural gas customers. More recently, it had also been fulfilling increased local demand for clean transport fuel and had also started exporting LNG to China. Chart was approached to provide a complete equipment package for additional capacity that would integrate seamlessly with the existing plant.

System Configuration:

- C450IMR LNG plant with Chart proprietary IPSMR® process technology.
- Complete Engineering, Procurement, Fabrication (EPF) with commissioning / start-up support and operator training.
- Feed gas pre-treatment, amine dehy, mercaptans removal, thermal oxidizer.
- Dual truck / ISO loading systems.

Significant Accomplishments:

- First deployment of Chart's latest technology in liquefaction.
- Plant operational within 18 months of order receipt.
- Chart expansion facility is designed to be one of the lowest-emission LNG facilities in the world.
- By performing according to nameplate capacity immediately upon commissioning, the owner was able to take the original facility out of service for extended maintenance.

