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## **Advantages, design and manufacturing of vacuum insulated transfer lines for LNG**

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In February 2013 Demaco was awarded with the contract for the design, manufacture and delivery of 1800 meter vacuum insulated transfer lines for the Skangass LNG terminal Lysekil, Sweden. Besides delivery of LNG to Preem's refinery, a truck loading facility is built in connection to the terminal. The terminal will also become an important hub for distribution of LNG as fuel for ships.

A shift to LNG as fuel is one of the most effective ways to reduce CO<sub>2</sub> emissions and meet stricter environmental requirements.

Vacuum insulated transfer lines (VIP) are proven technology in the industrial gas market. For the emerging market of LNG it must be proved again that VIP is superior comparing to conventional insulated pipes.

The total cost of ownership are substantial lower due to much less Boil-Off Gas and the absence of maintenance costs.

Although the CAPEX is slightly higher, VIP lines will lead to the lowest possible Total Cost of Ownership (TCO). Next to the cost savings VIP lines offer some unique safety issues and are very sustainable.

The conceptual design and calculations led to the detailed design and manufacturing of the transfer lines. Successful factory acceptance tests shows the results in praxis.

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