

Liquefied natural gas: An asset in remote regions

Given a large territory like that of Québec, it is difficult to extend the natural gas network to all zones of economic activity, particularly industries and mines in remote regions. Nevertheless, those enterprises can benefit from the many advantages of natural gas thanks to liquefied natural gas (LNG) – a reliable, safe, and economical solution.

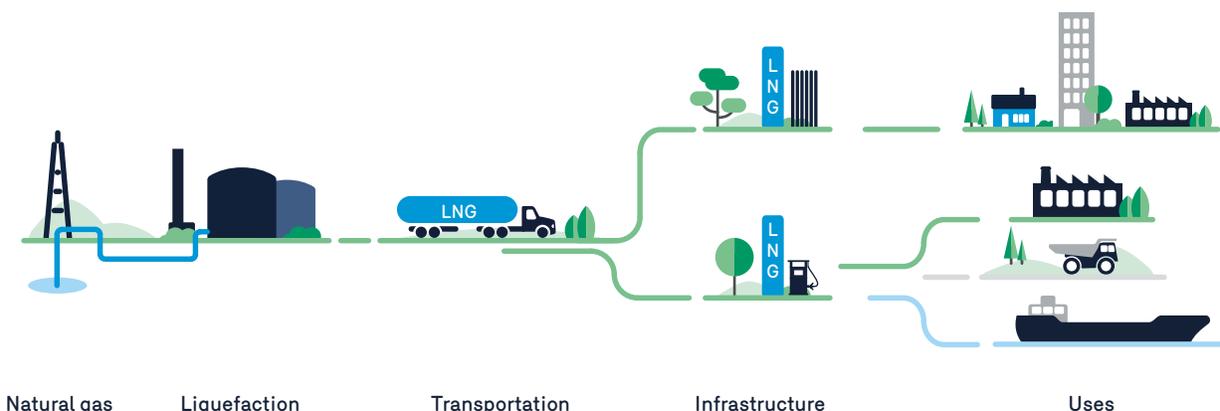
Significant advantages

- The Québec government sees LNG as an essential tool for replacing high-emission energies in polluting sectors like heavy road transport and shipping.
- LNG emits up to 32% less greenhouse gases (GHGs) than heavy fuel oil.
- Compared with diesel, LNG helps reduce emissions of nitrogen oxides (NOx) by up to 70% and of sulphur oxides (SOx) by up to 99%. It also eliminates up to 90% of fine particles.
- The cost per molecule remains low and stocks are abundant, which ensures stable prices for many years to come.

Natural gas everywhere – at any time

By liquefying natural gas, which takes up 600 times less volume than in its gaseous state, it can be stored and transported reliably, safely, and economically.

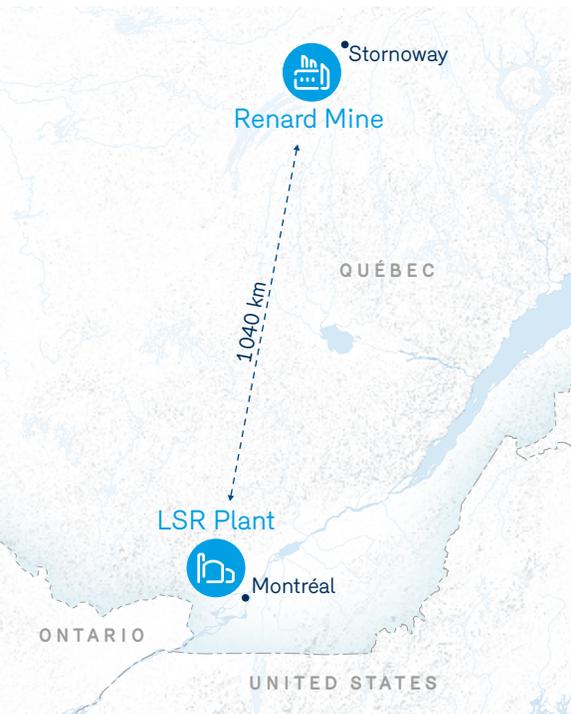
The only LNG producer in Québec, Énergir calls on a network of transportation and logistics partners to rapidly supply LNG consumers from its plant in the East of Montréal. Once on site, LNG is vaporized to supply industrial processes, heat buildings, or generate electricity. It can also be used as a fuel for heavy vehicles.



Flexible supply solutions

From its Liquefaction, Storage and Regasification (LSR) plant in Montréal, which Énergir has operated for more than 45 years, it can supply all LNG customers within a radius of more than 1,000 kilometres.

In 2017, Énergir and Investissement Québec joined forces to triple the annual production of the plant to nearly ten billion cubic feet.



A concrete example: Renard Mine

The first mine in Northern Québec to be supplied with LNG, Stornoway's Renard diamond mine anticipated the energy future for remote regions.

Since 2016, tanker trucks have delivered LNG from Énergir LSR plant in Montréal, located 1,040 kilometres from the mine. This efficient supply, combined with the mine's installations, mean that large quantities of LNG can be stored on-site, enough for 8-10 days.

One year later, this efficient and safe solution has already proven its worth:

- A significant reduction in operating costs;
- A 42% decrease in GHG emissions by combining the natural gas with heat recovery processes;
- A substantial reduction nitrogen oxide (NO_x) and sulphur dioxide (SO_x) emissions, as well as fine particles.

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