

LNG IN B.C.

SOURCES AND SOLUTIONS FOR CARBON POLLUTION

If liquefied natural gas (LNG) development proceeds, it will cause an increase in shale gas extraction in northeast B.C. That shale gas would be transported by new pipelines to the coast, where it would be liquefied and loaded into tankers for export.

From fracking to liquefaction, each point along the supply chain would produce carbon pollution.



Carbon pollution can be reduced at each point along the supply chain.



Well pads

Well pads are where shale gas is drilled, hydraulically fracked and produced. Carbon pollution comes from flaring of methane.

SOLUTION Capture methane into pipelines instead of flaring.



Compressors

Compressors pressurize gas to move it through the supply chain. Shale gas extracted from wells is often used to power compressors, and poor seals within compressors can leak carbon pollution.

SOLUTION Power compressors with clean renewable electricity and use the best available seals.



Pipelines

Pipelines transport the gas from well pads to liquefaction terminals. Carbon pollution can leak from valves, pumps and other sources along the way.

SOLUTION Effective monitoring programs can be used to detect and repair leaks quickly.



Processing facilities

Processing facilities remove CO₂, water and other impurities. The CO₂ is vented, resulting in more carbon pollution.

SOLUTION Capture the CO₂ and store it underground.



Pneumatic controllers

Pneumatic controllers are used across the supply chain for activities such as monitoring fluid levels and controlling valves. These devices vent methane in order to operate.

SOLUTION Use devices that do not use or release methane.



Liquefaction terminals

Shale gas is cooled and condensed and loaded onto tankers for export. This process requires a large amount of energy, typically from burning shale gas.

SOLUTION Use clean renewable electricity to power the terminals instead of shale gas.

Government policy is needed to ensure that these solutions, and others, are implemented across the LNG supply chain.

Encourage B.C. to make responsible energy choices.

Talk to your neighbours, community and MLA.