



coalition  
FJORD

# *Presentation Plan*

- 1. Overview of the project;*
- 2. The gas (LNG);*
- 3. Climate impact;*
- 4. Impact on biodiversity (Belugas);*
- 5. Owners, Taxation and Spinoff;*
- 6. Security risks;*
- 7. The groups mobilizing against the project;*
- 8. What can YOU do?*
- 9. Questions & Conclusion.*





# Overview of the project



# *GNL/Gazoduc, The Big Gas Brother of Energy East*

*1. The Construction of a natural gas pipeline linking northern Ontario and Saguenay region In Quebec*

*2. The construction of a natural gas liquefaction complex at Port Saguenay*

*3. The marine transportation in the Saguenay and St-Laurent*

# *Energie East* pipeline route

RIVIÈRE-DU-LOUP

QUÉBEC

MONTRÉAL

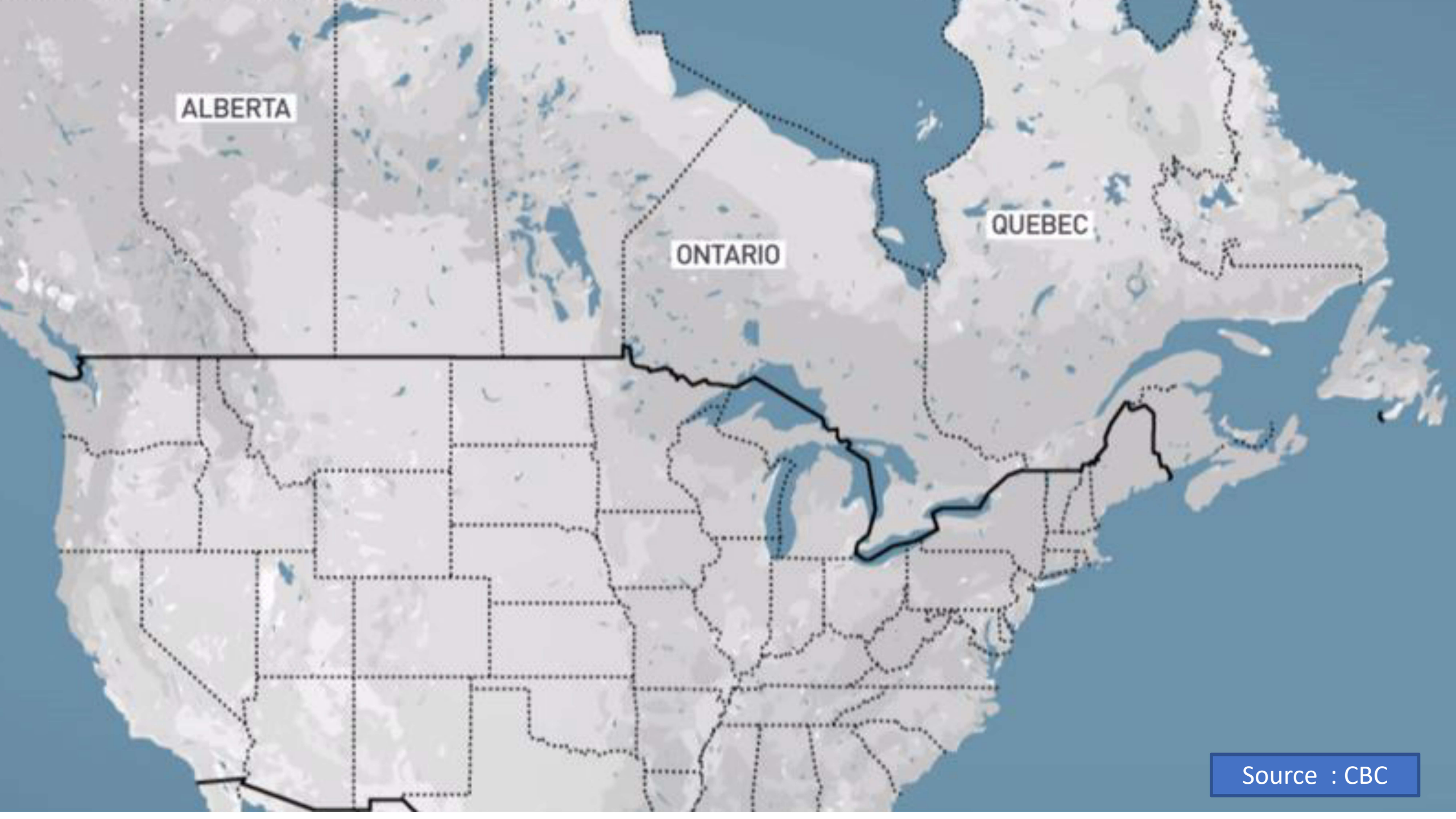


**OLÉODUC ÉNERGIE EST**  
TRACÉ PROPOSÉ

# 1. The pipeline (*Gazoduc*)

- 782 km Gas Pipeline
- Transporting fracked gas from Alberta, B-C & Saskatchewan
- From Kirkland Lake, Ontario to Saguenay Quebec (attached to existing TC Energy pipeline)
- Going through three ancestral territories : Anishinabe aki, Atikamekw (Nitaskinan) & Innu (Nitassinan)

Sources : *Le Soleil*, *Projet d'une conduite de gaz naturel de 14 milliards \$ entre Saguenay et l'Ontario*, 15 novembre 2018, consulté en ligne le 8 février 2020.



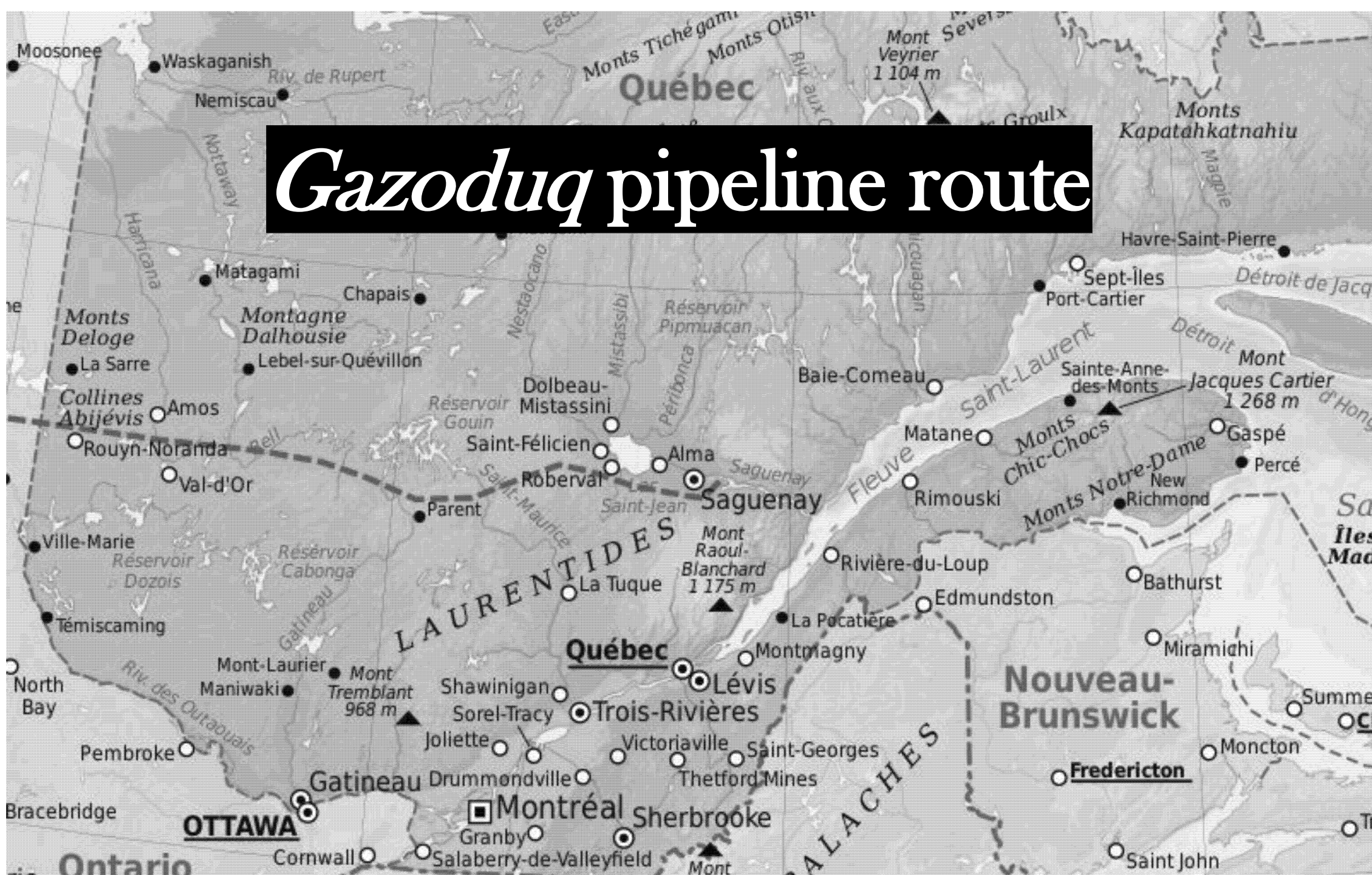
ALBERTA

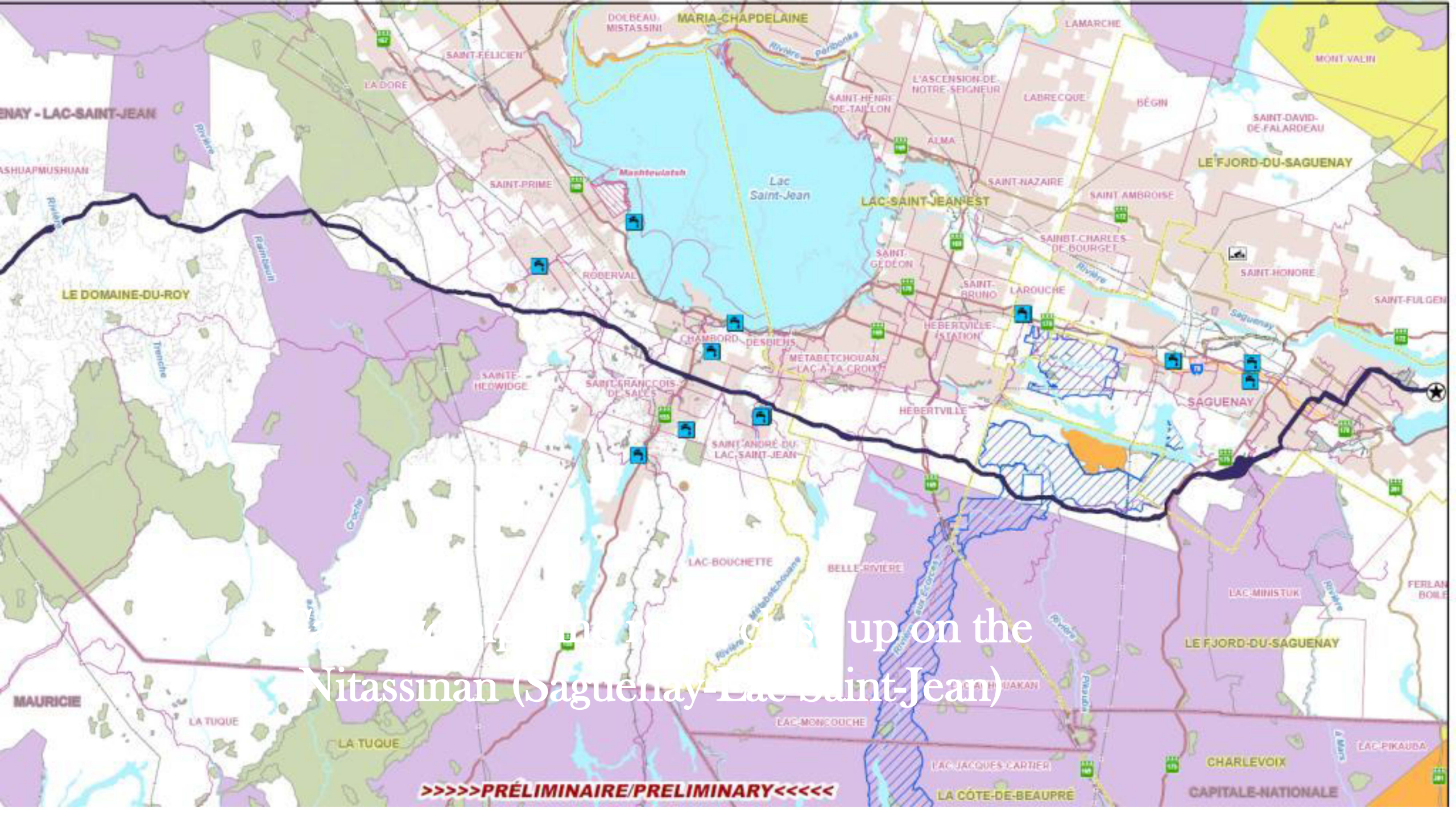
ONTARIO

QUEBEC

Source : CBC

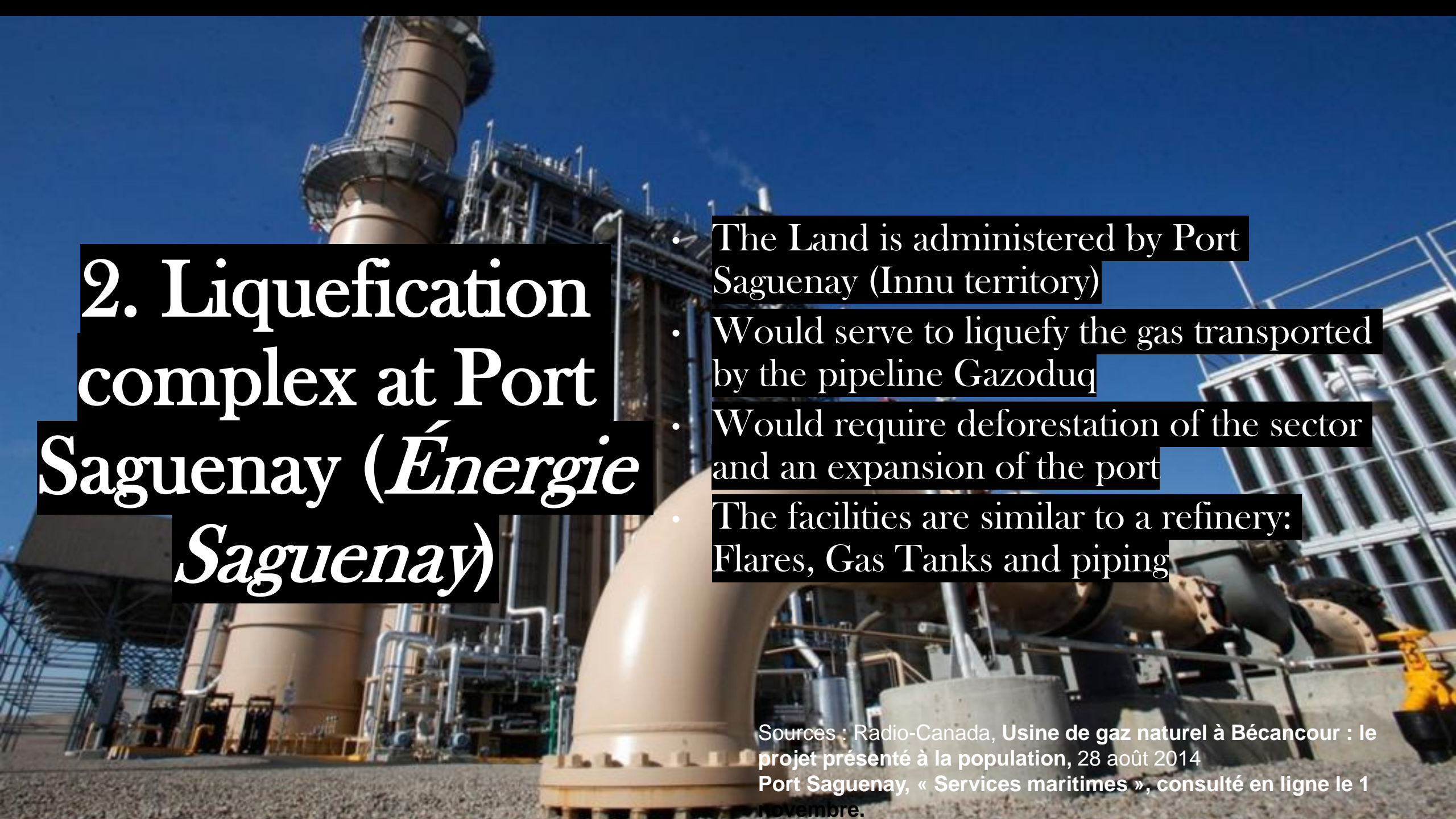
# *Gazoduc* pipeline route





Up on the  
Nitassman (Saguenay-Lac Saint-Jean)

PRÉLIMINAIRE/PRELIMINARY

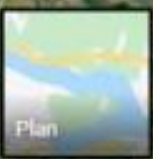


## 2. Liquefaction complex at Port Saguenay (*Énergie Saguenay*)

- The Land is administered by Port Saguenay (Innu territory)
- Would serve to liquefy the gas transported by the pipeline Gazoduq
- Would require deforestation of the sector and an expansion of the port
- The facilities are similar to a refinery: Flares, Gas Tanks and piping

Sources : Radio-Canada, Usine de gaz naturel à Bécancour : le projet présenté à la population, 28 août 2014  
Port Saguenay, « Services maritimes », consulté en ligne le 1 novembre.

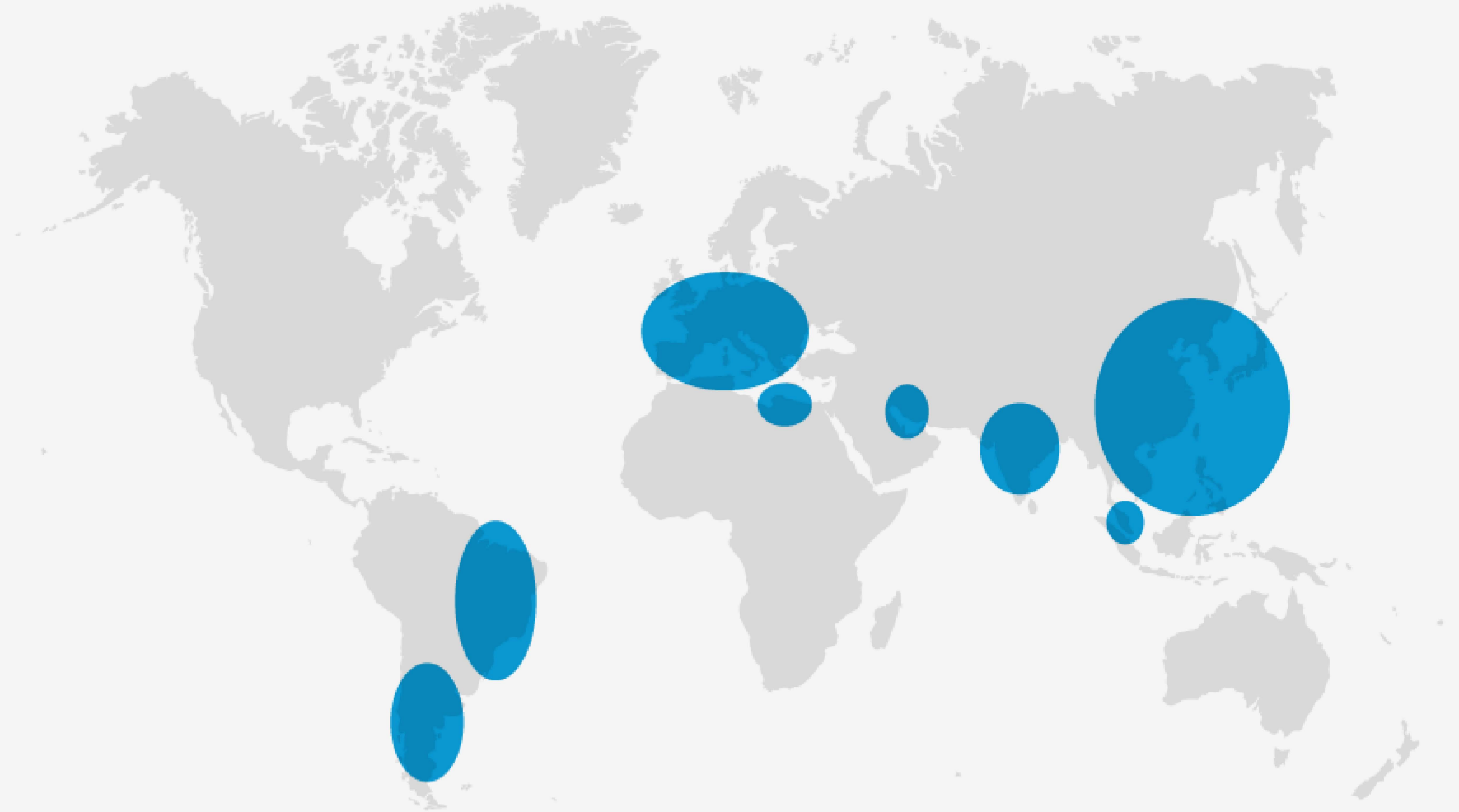
# *Énergie Saguenay* complex location



Google

Lac-Goth

# LNG markets



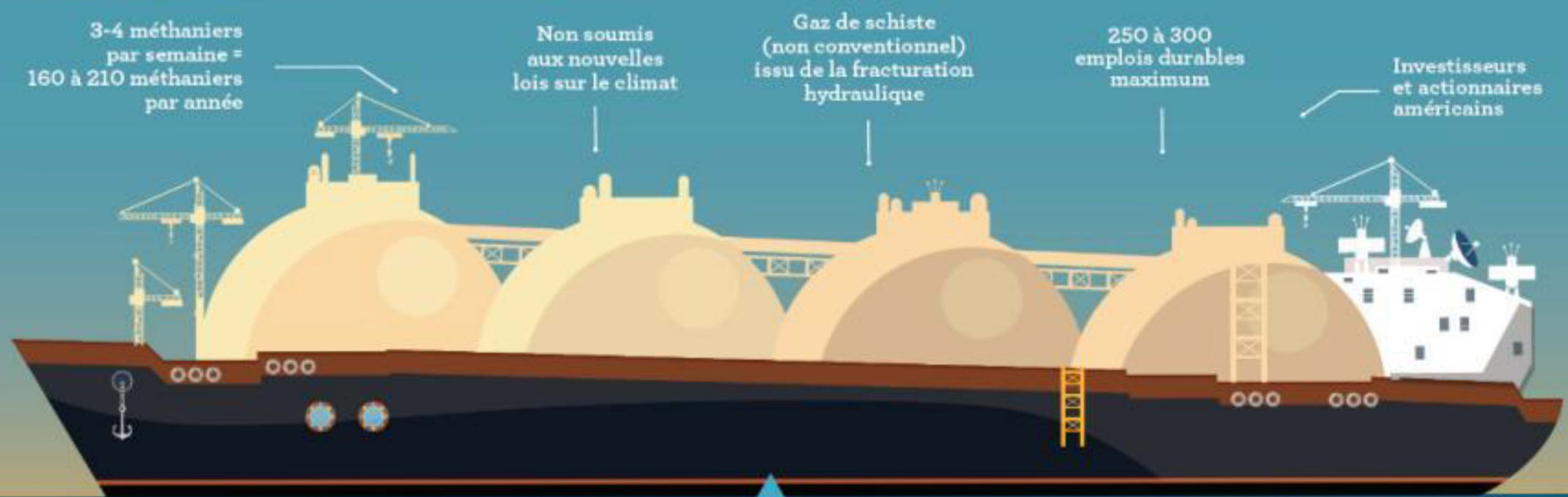
A large red LNG tanker ship is shown sailing on the water. The ship has several large spherical tanks on its deck. In the background, another smaller ship is visible. The sky is blue and the water is dark blue.

### 3. Maritime Transport

- Export of liquefied natural gas (LNG)
- Transport by mega LNG tanker
- Cross the fjord and the St. Lawrence
- Would double the maritime traffic in the only marine park in Quebec

Sources Alexandre Shield, *Énergie Saguenay: GNL Québec doit présenter «les solutions de recharge»*, 8 avril 2019, *Le Devoir*, consulté en ligne le 12 février 2019  
Secrétariat Canadien de consultation scientifique, *Effets potentiels des projets de construction de terminaux maritimes dans le Fjord du Saguenay sur le béluga du Saint-Laurent et son habitat*, 2018, Pêches et océans Canada

# Énergie Saguenay > DANGER, présence de gaz naturel liquéfié



Méthanier GNL > 300 m

\*Source : La Presse | <http://www.lapresse.ca/monde/actualites/2014/05/20/le-gaz-naturel-liquide-est-transporte-par-les-navires-citernes/> - Illustration



25 m



10 m

1 méthanier = 12 baleines bleues = 30 autobus scolaires

Entre les années 2000 et 2012, près de **400 incidents** impliquant des pipelines de gaz ont été dénombrés au Canada. Le gaz naturel liquéfié (GNL) est classé par l'ONU au répertoire des **matières dangereuses** et assujéti comme tel aux lois de Transport Canada. La fiche de sécurité du GNL signale des mentions de dangers d'**inflammabilité, d'explosivité et de suffocation**. Dans l'éventualité d'une fuite à partir d'un navire-citerne suivi d'un embrasement, le rapport Sandia a identifié un gradient des dangers en trois zones concentriques. Dans la zone à 500 mètres autour de la source, c'est la mort par suffocation ou hypothermie. Dans la zone numéro 2, l'embrasement du nuage de gaz cause **une explosion qui peut tout enflammer dans un rayon de 1,6 km autour de la source**. Trente secondes dans cette zone suffisent pour infliger des brûlures au 3<sup>e</sup> degré à une peau humaine exposée. L'explosion déclenche des incendies de forêts, de broussailles et de bâtiments. Dans la troisième zone, **les effets de la catastrophe pourraient être ressentis jusqu'à 3.5 km**.



**LNG :**  
**what the frack?!**

# The New Gas Boom

Le nouveau  
« boom » gazier



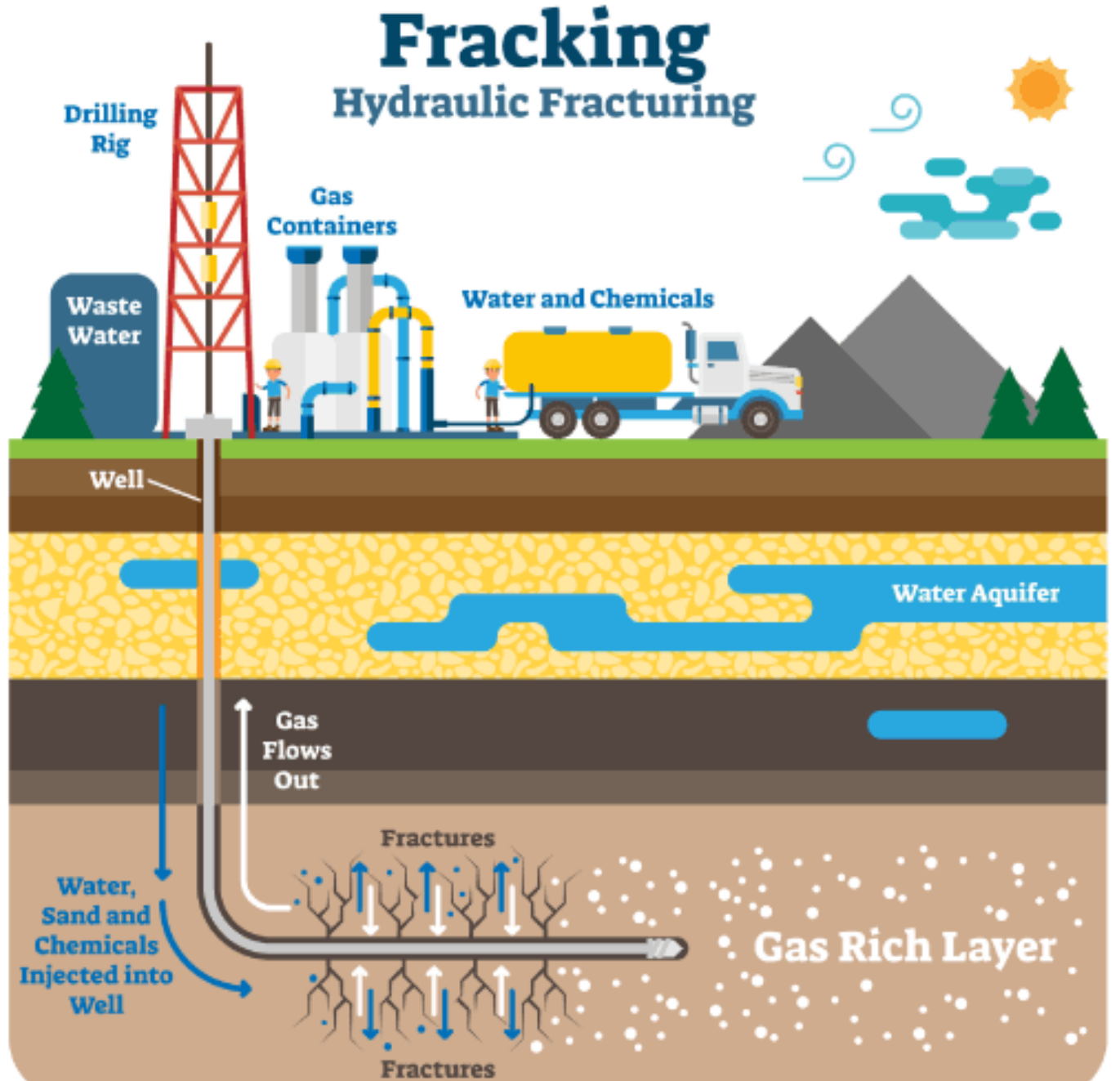
# The New Gas Boom

An aerial photograph of an LNG export terminal. Two large red LNG tankers are docked at piers. The terminal features a complex network of pipes, walkways, and storage tanks. The water is a light blue-grey color, and the sky is overcast.

- In terms of impacts on global warming, the expansion of the LNG industry is of more of a concern than the expansion of coal-fired power plants. (*Global Energy Monitor, 2019 LNG Report*);
- Canada = 4th biggest LNG exporter,
- 18th LNG export facilities proposed in Canada in 2020 (13 in BC and 5 on East Coast) (<https://www.nrcan.gc.ca/our-natural-resources/energy-sources-distribution/clean-fossil-fuels/natural-gas/canadian-lng-projects/5683>)
- In terms of capital spending for import and export terminals, the top three countries are the United States (\$ 507 billion), Canada (\$ 410) and Russia (\$ 86).

*5% shale  
gas?*

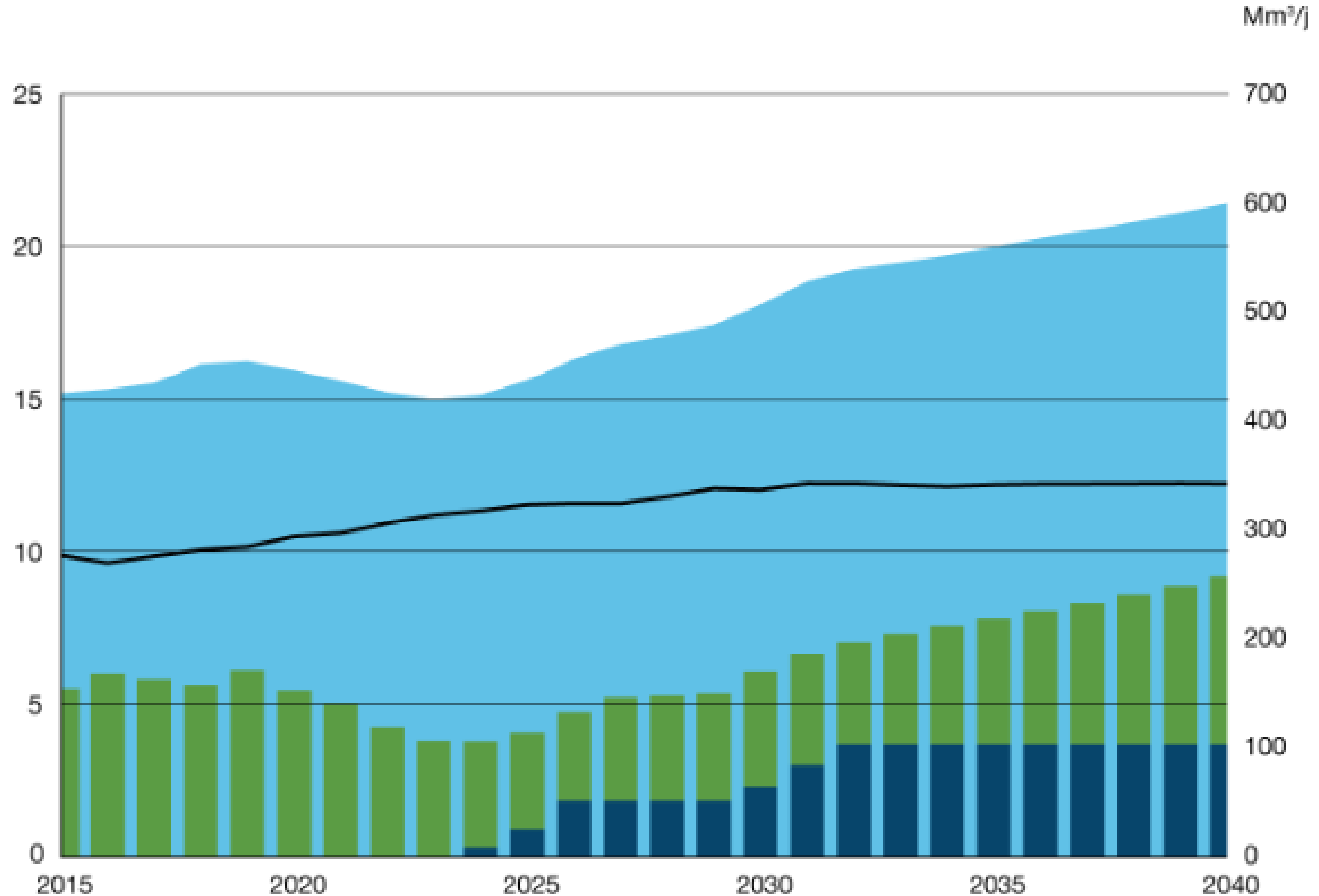
In reality :  
approx **85%**  
**of fracking**  
**gas**



*The project won't contribute do the increase in production of LNG ?*

In reality:  
**Contribution**  
**to the**  
**increase of**  
**Canadian LGN**  
**production**

Source : Rapport sur l'avenir énergétique du Canada en 2019, Régie canadienne de l'énergie, 3 décembre 2019.



# *Changing coal-fired power plants?*

- . No certainty, because no contract have been signed;
- . Not realistic;
- . The company has no control over this;
- . Methane leaks could cancel the gain between coal vs gas.





# Climate impacts

# Greenhouse Gases Emitted

THROUGHOUT GNL-GAZODUQ'S LIFE CYCLE

46 MT OF CO<sub>2</sub> IS THE EQUIVALENT OF 60% OF QUEBEC'S GHS OR THE EQUIVALENT OF THE EMISSIONS OF 10 MILLION CARS, EACH YEAR

SOURCES: CIRAIG, PROJET ÉNERGIE SAGUENAY, ÉTUDE D'IMPACT ENVIRONNEMENTAL, ANNEXES VOLUME 1, JANUARY 2019, TABLEAU 4-2, P.58./MELCC, DIRECTION DE L'EXPERTISE CLIMATIQUE, AVIS DE NON-RECEVABILITÉ À LA SUITE DU DÉPÔT DE L'ÉTUDE D'IMPACT, P.46, MAI 2019./JESSE GREENER ET LUCIE SAUVÉ, "LE PROJET GNL QUÉBEC DOIT ÊTRE REJETÉ", LE DEVOIR, 3 JUIN 2019.

| SOURCE                   | AMOUNT<br>(IN TONNES OF CO <sub>2</sub><br>EQUIVALENT) |
|--------------------------|--|
| EXTRACTION IN THE WEST   | 7 MILLIONS   |
| TRANSPORTATION IN QUEBEC | 163 000  |
| LIQUIFICATION            | 420 000  |
| OTHER                    | 141 000  |
| LEAKS (1 TO 4 %)         | 8,70 TO 35 MILLIONS                                    |
| GAS CONSUMPTION          | 30 MILLIONS  |
| <b>TOTAL</b>             | <b>46 TO 72<br/>MILLIONS</b>                           |



Canada's latest  
mega fossil fuel project  
GNL Québec

Gas emissions equivalent  
to **over 10 million cars**  
per year on the streets!

Say **NO** to GNL Québec

GREENPEACE



Bienvenue LE MONTAGNAIS

**BOMBE  
CLIMATIQUE**

**GAZODUC**



# Impacts on biodiversity

**A THREAT TO BELUGAS:** SUPERTANKERS PASSING THROUGH THE ST-LAWRENCE RIVER **AT LEAST 300 TIMES PER YEAR.**



An estimated 900 St. Lawrence belugas exist in the wild today.

**Say NO to GNL Québec!**

# Biodiversity

## Belugas

- Endangered & Population declining;
- Fjord, unique marine parc in Quebec and Beluga's critical habitat;
- Noise pollution and high risk of collision.

## Forest

- 60 meters wide clearing along the route;
- Risk of accidents.

Source : Robert Michaud, **Développements sur le Saguenay: «je suis inquiet pour les bélugas»**, 2019, Groupe de recherche et d'éducation sur les mammifères marins, <https://www.youtube.com/watch?v=IWzmlLLbzBM>



# September 2, 2020: Call for a moratorium to protect beluga whales in the Saguenay Fjord



The answer from the Quebec government? No, we won't listen to our own experts...

The moratorium was asked by researchers from the University of Quebec in Outaouais (UQO) & the Group for research and education on marine mammals (GREMM) that were given a mandate to study beluga whales for five years.

A large, textured white circle is positioned on the left side of the image, set against a dark gray background. The circle has a rough, hand-drawn appearance with some darker spots and irregular edges. The text is placed within the white area of the circle.

# The Owners, Taxation and Spinoff

# Quebec owned projet for Quebecers ?

- Pipeline named *Gazoduc* (noticed the Q at the end)
- Liquefaction plant named *Énergie Saguenay*
- Promotor of the project named *GNL Québec*
- **#QuebecProud!**



# *The Owners and their interests*

- Promoters of the project :*

- Freestone International et Breyer Capital (US based companies)*

- They have strong links to the US Republican party*

*GNL Québec, a front company for of an American multinational*



# *The Owners and their interests*

- *Jim Breyer*

- *In Forbes top 1000 richest men in the world;*
- *Board member of Blackstone Group (one of the biggest investor in Amazon deforestation & owner of some of the largest Coal Power Plants in Europe & USA);*
- *His wife is Angela Chao , CEO of Foremost Group that specialize in coal export;*
- *His sister in law is Elaine Chao, Trump's transportation secretary;*
- *His brother in law is Mitch McConnell (Elaine's husband) , US Senate Majority Leader*

*GNL Québec, a front company for of an American multinational*

# GNL Québec Limited Partnership

Office : Lavery lawyer's firm (highest building in Montreal)

Screen company #1:  
Gazoduc Inc. Office : Rouyn-  
Noranda (Abitibi)

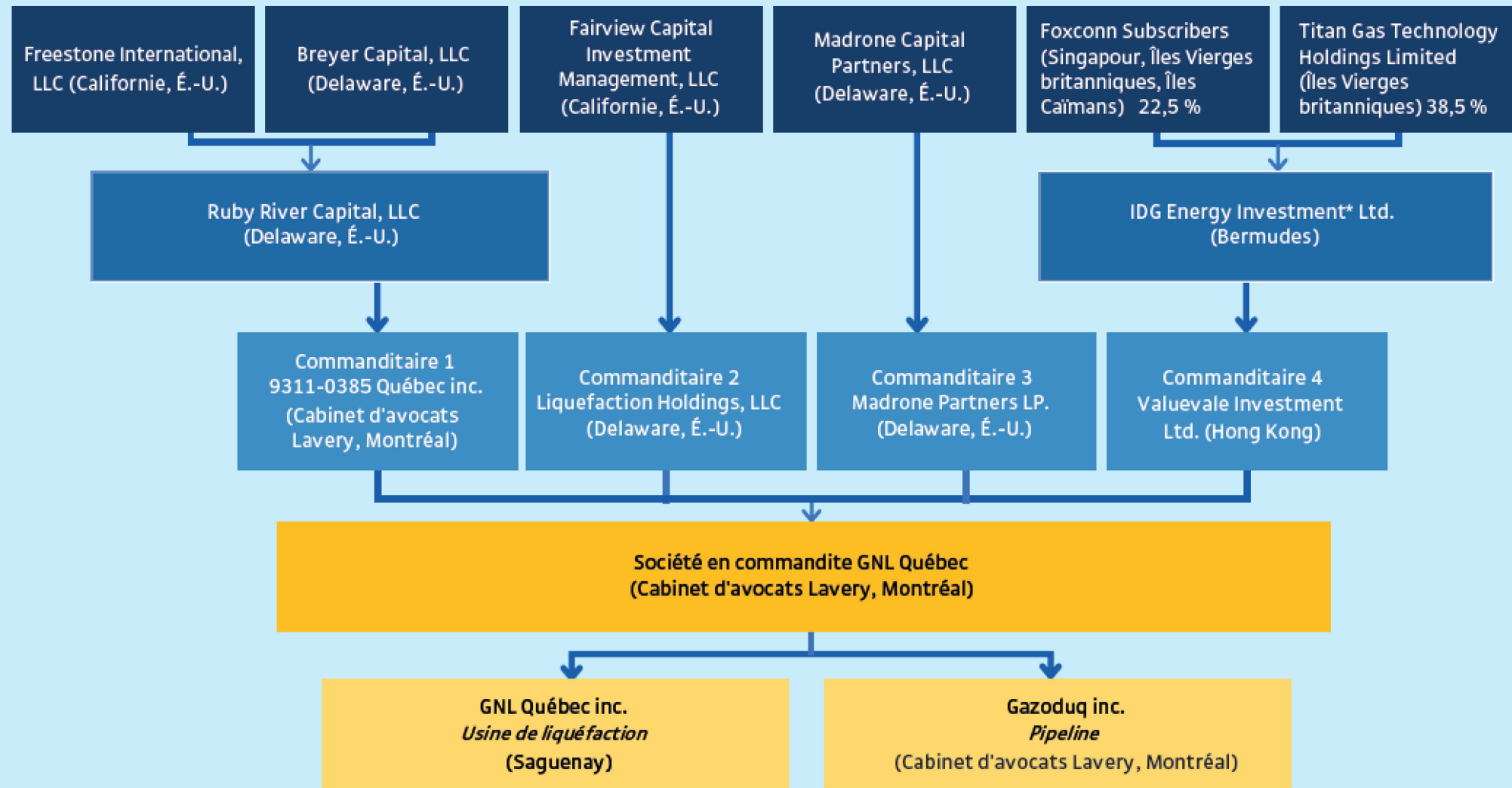
Screen Company #2  
GNL Québec Inc.  
Office : Saguenay

Project name: Gazoduc  
components: gas pipeline  
Environmental assessment : joint evaluation process  
(Quebec-Ottawa) in 2021

Project name : Énergie Saguenay  
Components : Liquefaction plant, LNG terminal and fleet of  
LNG tankers  
Environmental assessment :begining September 14 2020  
(Quebec only, BAPE)



## STRUCTURE DE FINANCEMENT DE LA SOCIÉTÉ EN COMMANDITE GNL QUÉBEC



● Fonds d'investissements

● Sociétés intermédiaires

● Sociétés commanditaires

● Société en commandite

● Sociétés commanditées et récipiendaires de fonds

➔ Transferts de fonds

\* IDG Energy Investment est une société cotée à la Bourse de Hong Kong. Le 39 % restant est détenu par des actionnaires publics.

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# *The Owners and their interests*

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*Q: Rate of taxes paid by the company on capital in Quebec?*

*A: 5% instead of 40% (Tax heavens and tax evasion)*

*GNL Québec, a front company for an American multinational*



## discount supplier?

- To supply the liquefaction complex, Hydro-Québec is developing a new project that would supply the LNG complex with 550 MW/year of electricity=
  - $\frac{2}{3}$  of the capacity of the Romaine power station
  - Or
  - Electricity consumption for the entire Saguenay region (without aluminum smelters)



## discount supplier?

- A- \$ 43M annual discount (for 6 years)
- B- \$ 295M discount for large business rates (3.3c vs 9.5c)
- C- Hydroelectricity saves 10% of gas, which allows the company to make profits of \$ 270M / year
  - In conclusion, they will use a massive amount of clean electricity, barely pay for it, and use it to export dirty energy to the rest of the world.

# Trouble is brewing...

- Financial reasons (LNG's not as safe as it sounds);
- Environmental assessment : Office of Public Hearings on the Environment (BAPE);
- Indigenous resistance (Wet'suwet'en) & political unrest;
- Social acceptability (opposition to the project in Quebec).

Sources : [La Presse](#), [Radio-Canada Info](#), [Le Devoir](#), [Natural Gas Intelligence](#).

[News](#) / [Energy](#) / [Economy](#) / [Commodities](#)

## Warren Buffett's exit from \$9-billion Quebec LNG project after rail blockades 'a signal' to investors

*'We're not going to find \$4 billion tomorrow morning, and we sure aren't going to find it in the region,' says Saguenay deputy mayor*

Geoffrey Morgan

Mar 05, 2020 • Last Updated 5 months ago • 4 minute read



Trouble is brewing...  
or is it?





# Security risks

# *Security Risks*

A large LNG tanker ship is shown sailing on the ocean. The ship has a dark hull and a white superstructure with a prominent black funnel. Several large, white, spherical storage tanks are visible on the deck. The ship is moving from left to right, leaving a white wake behind it.

- *160 LNG tankers per year, 320 passages per year.*
- *SIGTTO recommendations:*
  - *“The LNG terminal has to be located in a place where gas leaks or spills may not affect civilians”*
  - *The mooring quays tankers, for LNG, should be kept away from the waterway to avoid collision, as all other vessels should be considered as an ignition source.*
  - *Long waterways and narrow inland areas should be avoided due to the higher maritime risks.*

# *Examples of precautionary measures*

*Saint-Jean, NB :*

- *Maritime exclusion around vessels with a radius of 925m*
- *Maritime exclusion around terminals with a radius of 620m*

*Boston :*

- *Coast Guard on ships*
- *Flight ban from nearest airport*
- *4 Tugboats*
- *Police vessels, Coast Guard, municipal police, state police and environmental officer present*
- *Helicopter surveillance from the air*
- *Cost of precautionary measures : 100 000\$ US / transit*

# *Examples of precautionary measures*

- *In the Saguenay Ford? Nothing;*
- *The LNG tankers will be treated as any merchant vessels by Transport Canada (!?!?!?!?)*

# *Conclusion*

- 1) The LNG company would pay little tax and receive hundreds of millions in indirect subsidies from Hydro-Québec (possibly direct subsidies from the Qc gov.);
- 2) The project would emit between 46 to 72 million tonnes of CO<sub>2</sub>, per year, for 25 years;
- 3) Even if we replace coal-fired power plants, there is no real gain or marginal





**Take action &  
block the project**

# *The struggle against GNL in a nutshell...*

*48 student associations (300.000 students)*

*More than 86.000 citizens signed the petition*

*More than 30 orgs or groups*

*250 doctors & health professionals*

*160 scientist*

*126 professors, lecturers and professionals of UQAC*

*40 economists*

*4 political parties : PQ, QS, PVQ, PVC MÉPACQ*

*GREMM*

*Canadian Association of Physicians for the Environment*

*And many more...*

*[Sign here www.non-gnl-quebec.com/coalitionford](http://www.non-gnl-quebec.com/coalitionford)*



# *The struggle against GNL in a nutshell...*

*Hundreds of conferences across Quebec;*

*Hundreds of media interviews;*

*A two-week expert tour through  
the two most affected regions  
(Saguenay and Abitibi);*

*Indigenous and non-Indigenous demonstrations in opposition to the project  
all over the province;*

*Thousands of volunteer hours;*

*A viral video;*

*A river descent of more than 200 opponents of the projects in Abitibi, a rally  
on land and water of 300 people in Tadoussac, and much more ...!*





Image : Mathieu Bretton

*Our demand :*

*A complete and immediate stop to the  
GNL/Gazoduc pipeline & liquefaction plant  
project;*

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*What can YOU do?*



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*Take position as an organization against the GNL project and link it to the other Gas pipeline projects in Canada;*

- *Join 300.000 other students and take position as a student association against the project;*

*Share the petition massively on SoMe in order to reach 100.000 signatures;*

• *Write a memorandum and send it to the environmental assessment commission in Quebec before October 22nd!*

# *Comments and Questions*

To me directly at [louis.couillard@greenpeace.org](mailto:louis.couillard@greenpeace.org)

Or to our friends from la Coalition Fjord at  
[educ.fjord@gmail.com](mailto:educ.fjord@gmail.com)

