

# Project overview



The Coastal GasLink Project is a 670-kilometre provincially regulated pipeline that will safely deliver natural gas from northeastern B.C. to the LNG Canada facility in Kitimat, B.C.

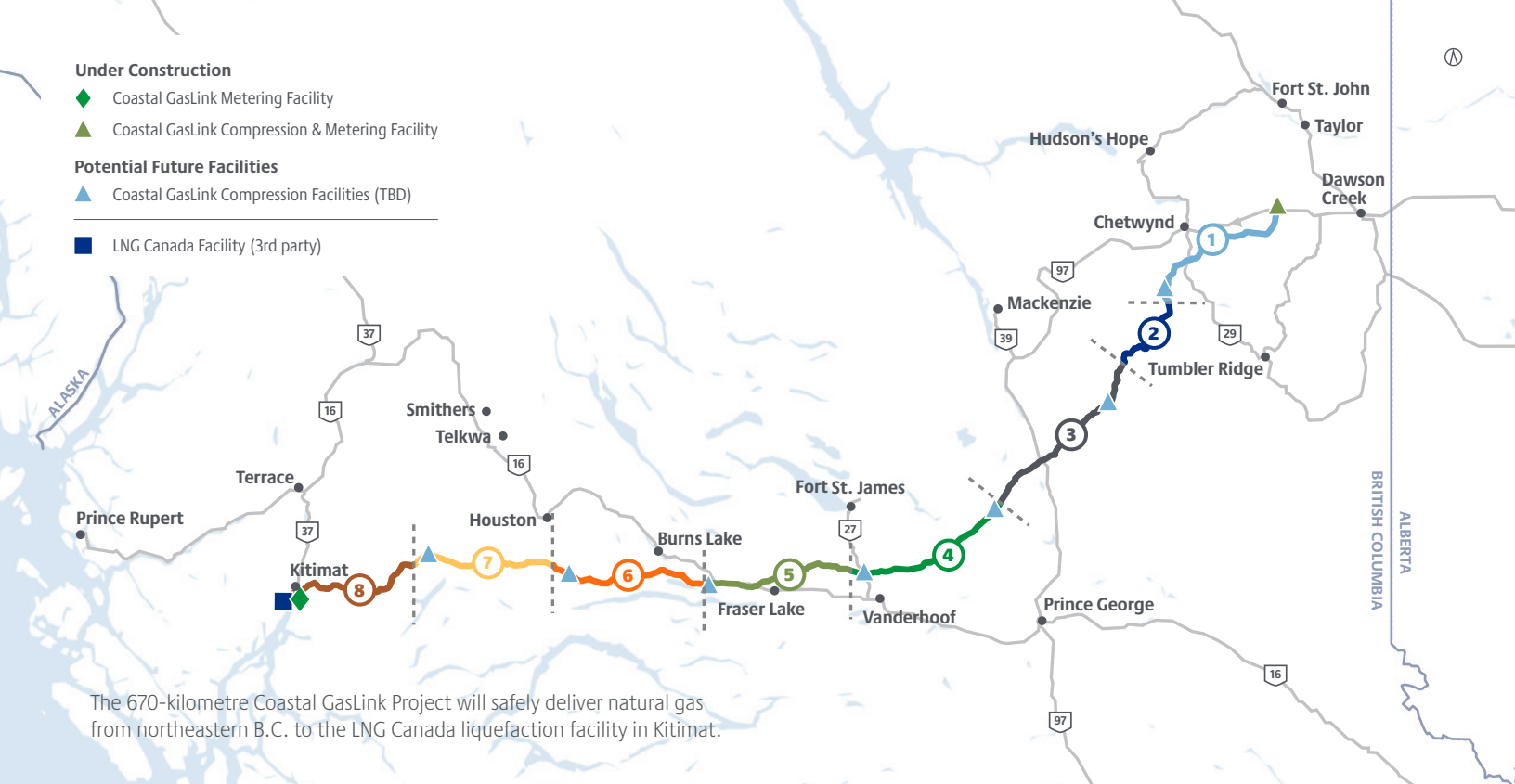


Coastal GasLink will meet strict environmental and safety standards, while helping to meet the growing global demand for cleaner energy.



Coastal GasLink is under construction today and is delivering significant benefits to communities across the province.





# Delivering local benefits

Coastal GasLink is delivering significant economic benefits to families in British Columbia today and for decades to come.

 <p><b>High-quality jobs</b> <b>3,500+</b> jobs during construction</p>	 <p><b>Employment and contracting</b> <b>\$1 billion</b> in employment and contracting opportunities for Indigenous and local communities</p>	 <p><b>Local and regional spend</b> <b>\$42 million</b> is forecast to be spent annually, mainly in B.C., once in operation</p>	 <p><b>Property taxes</b> <b>\$21 million</b> in annual property tax benefits</p>	 <p><b>Community investments</b> <b>\$8 million</b> invested in communities to date, investments that will continue throughout the life of the project</p>
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# Meeting the global demand for cleaner energy

Coastal GasLink can play a role in helping to reduce global greenhouse gas emissions. Coastal GasLink will deliver natural gas to the LNG Canada facility in Kitimat. From there, it will be shipped to Asian markets, where coal-fired electricity is commonly used. This provides a unique opportunity for the province to help replace higher carbon-emitting fuels such as coal, with cleaner sources of energy.



LNG Canada’s facility will produce LNG with the lowest amount of CO<sub>2</sub> emissions per tonne of LNG in the world today.

# Construction is underway



## Meet our prime contractors

Coastal GasLink selected four prime contractors to construct the pipeline — Surerus Murphy Joint Venture, SA Energy Group, Macro Spiecapag Joint Venture and Pacific Atlantic Pipeline Construction Inc. In selecting our prime contractors, we sought out highly qualified companies that met our core principles for safety, environmental stewardship and engagement with Indigenous and local communities.

Our prime contractors are directly responsible for hiring more than 3,500 workers over the four-year construction period, with a focus on giving first priority to competitive, qualified Indigenous and local businesses in northern B.C.

To learn more about potential employment and contracting opportunities, you can connect directly with our prime contractors:



### Macro Spiecapag Joint Venture

- For Employment Inquiries: [CGL\\_jobs@msjv.ca](mailto:CGL_jobs@msjv.ca)
- For Procurement Inquiries: [Vendors@msjv.ca](mailto:Vendors@msjv.ca)



### Surerus Murphy Joint Venture

- For Employment Inquiries: [surerus-murphy.com/careers](http://surerus-murphy.com/careers)
- For Procurement Inquiries: [surerus-murphy.com/subcontractor-pre-qualifications](http://surerus-murphy.com/subcontractor-pre-qualifications)



### SA Energy Group

- For Employment Inquiries: [CGLemployment@saenergygroup.com](mailto:CGLemployment@saenergygroup.com)
- For Procurement Inquiries: [CGLprocurement@saenergygroup.com](mailto:CGLprocurement@saenergygroup.com)



### Aecon Group Inc.

- For Employment Inquiries: [CGLemployment@aecon.com](mailto:CGLemployment@aecon.com)
- For Procurement Inquiries: [CGLprocurement@aecon.com](mailto:CGLprocurement@aecon.com)



### Pacific Atlantic Pipeline Construction Inc.

- For Employment Inquiries: [jobs@pacific-atlantic.ca](mailto:jobs@pacific-atlantic.ca)
- For Procurement Inquiries: [supplychain@pacific-atlantic.ca](mailto:supplychain@pacific-atlantic.ca)

# Safety is our number one value

Coastal GasLink is committed to creating an extraordinary legacy of safety and respect for communities and the environment.

Pipelines are the safest method to transport natural gas across considerable distances. With more than 65 years of experience building and operating pipelines, we are committed to keeping our workers, the environment and your community safe. Here's how we will ensure safety during construction and operation:

## During construction

- Top quality steel and welding techniques applied by highly skilled workers with the latest training
- Welds checked by ultrasonic inspection and/or X-ray
- Pipelines coated to protect against corrosion
- Pressure-testing to ensure the pipeline is sealed and ready for operation

## During operation

- 24/7 monitoring from a state-of-the-art Gas Control Centre
- Extensive maintenance, aerial patrols, on-the-ground inspection and in-line inspection to monitor pipeline conditions
- Comprehensive Emergency Response Program developed in collaboration with local emergency response providers to ensure a coordinated response in the event of an incident



# Protecting the environment

The approved project is the result of extensive studies undertaken by highly specialized scientists, engineers and technicians, as well as Indigenous community members.

The project has received all major provincial environmental approvals required for construction and operation.

- ✓ **Environmental Assessment Certificate**
- ✓ **BC Oil & Gas Commission Permits**

However, our work does not end when we get the permits in hand. We have continued to prepare for construction by developing environmental and construction management plans that consider the important values we need to protect.

We are also implementing a construction monitoring program that invites Indigenous communities to observe and report back to their communities on construction activities in their territory.

Our permits include conditions that reflect best practices in pipeline construction and operation and project-specific requirements. Many respond to concerns raised by Indigenous and local communities along the project route.



# Building the Project

Coastal GasLink is being built using the safest, least disruptive construction methods that have been developed over the past 75 years.

The 670-kilometre project is divided into eight construction sections. Construction will be carried out by our highly qualified prime contractors and designed to enable crews to work in both summer and winter months.



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## Stages of pipeline construction

### 1. Clearing and grading

Topsoil is removed and the ground is prepared along the right-of-way. Topsoil is stored so it can be replaced following construction.

### 2. Trenching

Trenches are excavated for the pipe, storing the subsoil to fill the trench after the pipe is lowered into the trench.

### 3. Stringing/bending

Pipeline crews line up sections of the pipe along the edge of the trench. A machine bends the pipe so that it follows the pipeline route and the contour of the land.

### 4. Welding/coating

Extreme care is used to weld the pieces together by highly qualified welders. Pipeline joints are coated with an anti-corrosion material and then carefully inspected.

### 5. Lowering in and tie-ins

Heavy construction side booms or cranes lower the sections of welded pipe into the trench. A separate crew completes the final welds (tie-ins), connecting continuous lengths of pipe.

### 6. Backfilling

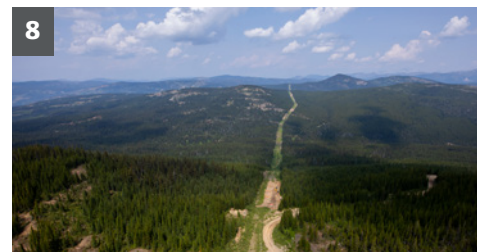
The stored subsoil is returned to the trench to bury the pipeline.

### 7. Pressure-testing

The pipeline is filled with water and pressurized up to a level that exceeds the operating pressure of the line to ensure that the pipeline is ready to transition safely to operation.

### 8. Reclamation

Reclamation is a critical part of our project. Clean-up begins immediately following construction to restore the pipeline right-of-way.



# About Liquefied Natural Gas

Natural gas is one of the world's cleanest and safest energy sources.

## What is natural gas?

- The cleanest-burning fossil fuel, often found in underground rock formations below the Earth's surface
- A naturally occurring gas mixture consisting primarily of methane, but may also contain other valuable products such as propane and butane
- Natural gas is not gasoline – a liquid made from refining crude oil, commonly used to fuel vehicles

## What is LNG?

- Liquefied natural gas (LNG) is natural gas that has been converted to a liquid form for storage or transportation
- LNG is non-explosive, non-toxic, non-corrosive and does not mix with water or soil
- LNG takes up approximately 1/600th the volume of natural gas in its gaseous state
- LNG is condensed to a liquid by cooling it to approximately -162 degrees Celsius. It is transported on specially-designed LNG carrier ships, and then regasified following transportation

## What is natural gas used for?

- Natural gas is used for a wide variety of purposes, most commonly as a fuel source for power generation, home heating and transportation
- We use natural gas to heat our homes, hospitals and businesses, and to cook our food
- Industry uses natural gas to fuel electric generators and fire steam boilers
- It is also used in manufacturing processes





# Working together with local communities

Our core values of safety, responsibility, collaboration and integrity are at the heart of our commitment to working with Indigenous and local communities.

Community feedback has helped improve the overall planning of the project, and develop many of the programs that will be put in place during construction and operation to protect communities and the environment.

Coastal GasLink has agreements with 20 First Nations along the project route. These agreements were developed over many years through collaborative engagement and based on mutually desired outcomes.

## More than one-third of all field work conducted by Indigenous communities

Our collaborative approach means we listen to and value Indigenous voices and their connection with the land. Since the project was announced in 2012, we've had more than 15,000 engagements with Indigenous groups to listen to their views and integrate their feedback into our construction and operating plans.



# Building a skilled legacy

Investing in education is an important part our project.

That's why we have been investing in skills development and long-term education programs to support Indigenous and local residents and trainees since project planning started.

## Pathway to Pipeline Readiness Program

Coastal GasLink's Pathway to Pipeline Readiness Program in northern B.C. is focused on helping to build a skilled workforce and aims to grow workers' transferable skills. We've invested in regional partnerships with existing skills training and education organizations to provide funding for program development, equipment purchases, classroom 'seats' for participants and targeted bursaries.

## Education Legacy Program

Coastal GasLink Education Legacy Program is designed to build long-term growth and sustainability of local communities where we operate. We have partnered with organizations such as the Breakfast Club of Canada, University of Northern British Columbia and the Government of British Columbia.



Since 2014, we have sponsored nearly 1,000 classroom seats, scholarships and bursaries, preparing students for projects such as Coastal GasLink.



# Invested in the long term

What matters to you, matters to us. That's why we are helping to build strong and vibrant communities along the Coastal GasLink project route.

As we move ahead with the project, we will continue to invest in initiatives that enable communities to thrive.

To learn more about our community investment program or to apply for a grant, please reach out to our community relations team or visit [CoastalGasLink.com](http://CoastalGasLink.com)



Since project development started in 2012, we have invested more than \$8 million in community initiatives.

## Keep in touch and learn more

We want to make sure you have access to the information you need about the project. Here are the many ways you can reach out, and learn more:



Visit our website:  
[CoastalGasLink.com](http://CoastalGasLink.com)



Email us:  
[coastalgaslink@tcenergy.com](mailto:coastalgaslink@tcenergy.com)



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Sign up to receive our Connector Newsletter:  
[CoastalGasLink.com/contact](http://CoastalGasLink.com/contact)



Visit our community office:  
**Prince George**  
760 Kinsmen Place

**Coastal GasLink**

