

Proposed Liquefied Natural Gas (LNG) Projects in Northern B.C.

Liquefied Natural Gas (LNG) Facilities									Pipelines				
PRINCE RUPERT/PORT EDWARD													
Name	Status	Proponent	Location	Capacity bcf/day	In-service Date	Power Needs	Tankers per year Small:130,000m ³ Large:260,000m ³	GHG emissions (projected, from extraction to consumption)	Name	Status	Proponent	Details	Gas Source
Prince Rupert LNG <i>Cancelled</i>	EA: Pre-application under CEAA May/2014. Application Information Requirements approved Aug/2014. Export license approved by NEB Dec/2013 for 21 MTA (2.7 bcf/d). Apr/2015, Shell purchases project from BG Group. Mar/2017, Shell ends development of project.	Royal Dutch Shell	Ridley Island, Prince Rupert	1.8 – 2.7 bcf/day	?	Approx. 600 MW	Small: 239 - 358 Large: 119 - 179		Westcoast Connector Gas Transmission Project <i>Active</i>	EA: Approved by BC EA Nov/2014. Apr/19 - EA certificate extended until late 2024. Jan. 2023: submits application for a second EA certificate extension. June 2023 – Enbridge cancels EA extension request.	Enbridge	36" - 48" diameter, 870 km, 4.2 Bcf/d. Up to 2 pipelines. Cypress to Ridley Is. via Babine and Nass Valleys.	
Pacific Northwest LNG <i>Cancelled</i>	EA: Approved by BC EA Nov/2014 Export license: approved by NEB Dec/2013 for 22 MTA (2.8 bcf/d). July/15: BC Legislature passes enabling statute. CEAA: Sept./16, approved with 190 conditions. Mar/17, considers moving site to Ridley Island FID: May/17, to be made 'when the time is right'. July 25/17 : Pacific Northwest LNG Limited Partnership cancels project	Pacific Northwest LNG Limited Partnership comprised of: Petronas/ Japex/ Petroleum Brunei /Indian Oil Corp/Sinopec (62/10/3/10/15)	Lelu Island, Port Edward	1.5 - 2.3 bcf/day	?	Approx. 800 MW	Small: 199 - 305 Large: 99 - 152		Prince Rupert Gas Transmission Project <i>Active</i>	EA: Approved by BC EA Nov/2014. Pipeline receives permits from BCOGC in October 2015. EA: April 2019 - Granted extension to EA certificate approval until late 2024.	TC Energy	48" diameter, 900 km, 2 - 3.6 Bcf/d. Hudson's Hope to north coast (location TBD)	Progress' holdings in North Montney plus other

WCC LNG Ltd <i>Cancelled</i>	EA: Pre-application under BC EA Jan/2015. Export license: approved by NEB Dec/2013 for 30 MTA (3.8 bcf/d). Dec/18 Exxon & Imperial Oil announce cancellation of project.	Imperial Oil/ Exxon Mobil	Lot 444, Tuck Inlet, Prince Rupert	up to 3.8 bcf/day	2024	Unknown	Small : 504 Large: 252		TBA				
Aurora LNG <i>Cancelled</i>	EA: Federal EA substituted for BC EA. Application submitted, public comment period ended Mar/17. EA put on hold Mar 22/17. EA re-started June/17. Export license: approved by NEB May/2014 for 24 MTA (1.5 bcf/d). CNOOC/INPEX/JGC Corp/JOGMEC cancel project Sept. 14/17	CNOOC/INPEX/JGC Corporation/JOGMEC	Digby Island	1.5 - 3.1 bcf/day	?	Unknown	Small: 225 – 425 Large: 112 - 213		TBA				
Grassy Point LNG <i>Cancelled</i>	EA: submitted Project Description to EAO in Aug/2014. Export License: approved by NEB Jan/2015 for 20 MTA (2.5 bcf/d). Mar/2018 Woodside Energy Holdings cancels project.	Woodside Energy Holdings (Australia)	Grassy Point and/or Tuck Inlet	up to 2.5 bcf/day	?	Unknown	Small: 330 Large: 165		TBA				
Triton LNG LP <i>Cancelled</i>	Export license: application approved by NEB May/2014 for 2.3 MTA (0.3 bcf/d). May/16 – Idemitsu stops work on project.	AltaGas Ltd/ Ide- mitsu Kosan	Kitimat or Prince Rupert barge facility	0.3 bcf/day	?	Unknown	Small: 40 Large: 20		TBA				
Orca LNG <i>Unknown</i>	Export license approved by NEB July/2015 for 10 MTA (1.3 bcf/d).	Orca LNG Ltd.	Prince Rupert area barge facility	1.3 bcf/day	TBA	Unknown	Small: 178 Large: 89		TBA				
TBA <i>Unknown</i>	Export license: approved by NEB Jan/2016 for 12 MTA (1.5 bcf/d).	NewTimes Energy Ltd.	Prince Rupert – location unknown – floating facility	1.5 bcf/day	?	Unknown	Small: 198 Large: 99		TBA				
Port Edward LNG <i>Active</i>	EA not required Received permits from the BCOGC in September 2021 for early construction work. May 2022: Final amendments to facilities permit approved by the BCOGC.	Port Edward LNG	Port Edward	150,000 tonnes/year	2023, construction start 2021	Unknown		0.56 megatonnes CO2/year	Upgrade and extension to PNG's existing pipeline (Western Transmission Gas Pipeline)	BCUC approved upgrades and extensions to PNG's Western Transmission Gas Pipeline in November 2021. Currently under construction.	Pacific Northern Gas Ltd.	Summit Lake to Prince Rupert/Port Edward	

Liquefied Natural Gas (LNG) Facilities KITIMAT									Pipelines				
Name	Status	Proponents	Location	Capacity billion cubic feet/d	In- service Date	Power Require d	Tankers per year Small: 130,000 m ³ Large: 260,000 m ³	GHG emission s (projected, from extraction to consumption)	Name	Status	Proponent	Details	Gas Source
Kitimat LNG	EA: BC EAO Certificate issued June/2006. EAO extended Certificate May/2011. Mandatory construction start by June/2016. Export license: approved by NEB Oct/2011 for 10 MTA (1.3 bcf/d). Jan/2015, Chevron announces significant decrease in spending on Kitimat LNG Sept/15 EAO announces project substantially started. Mar/2018 Chevron in talks to sell part of their stake in the project April 2019 – Kitimat LNG applies to the NEB to nearly double the capacity and time-span of their export license to 18 MTA and 40 years. KM LNG Expansion Project is subject to a provincial EA. May 2021 – Woodside pulls out of project. July 2021 – project withdraws their BC and federal EA amendment application.	Chevron/Woodside Petroleum **Apache exited July/2014, Woodside entered Dec/2014**	Bish Cove, Kitimat	0.6 -1.3	?	Unknown	Small: 80 – 172 Large: 40 – 86	33 megatonnes CO2/year	Pacific Trails Pipeline	BC EA Certificate issued June/2008. EAO extended Certificate June/2013. Mandatory construction start by June/2018. Dec. 2016: EAO determines Project has been substantially started - EA certificate will remain in effect for life of project. January 2022: Enbridge purchases project.	Enbridge	42" diameter. 462 km 1.0 Bcf/d Summit Lake to Kitimat via Morice R.	Holdings in Horn and Liard Basin

Cancelled

Active

LNG Canada Gas	EA: Approved with conditions under joint BC EA/CEAA process June/2015. Export license: approved by NEB Feb/2013 for 24 MTA (3.1 bcf/d). Export license: approved by NEB January 2016 to ship a total of 52.7 Tcf of gas, at a rate of up to 3.7 Bcf/d, for 40 years July 2016: Shell announces FID delayed in-definitely. October 2018: Shell announces FID 2023: Under Construction	Shell/Petronas /PetroChina/ Mitsubishi/ Kogas	Kitimat	1.5 - 3.1	2025	Approx. 1200 MW	Small: 225 - 425 Large: 112 - 213	44.55 megatonnes CO2/year	Coastal GasLink Pipeline Ltd.	BC EA Certificate issued Oct/2014. 2023: Under construction	TC Energy	48" Diameter. 650 km. 1.7 – 5.0 Bcf/d. Dawson Creek to Kitimat. Parallels PTP corridor except west of Burnie River.	
Douglas Channel LNG	EA: not required. Export license: approved by NEB Feb/2012 for 1.8 MTA (0.2 bcf/d). March 2016: Project "shelved" by AltaGas	AltaGas Ltd./Idemitsu Kosan Co./EDF Trading Ltd./EXMAR NV	Kitimat Barge facility	0.09 - .11	?	Unknown	Small: 12 - 15 Large: 6 - 7		Existing PNG pipeline	EA not required.	Pacific Northern Gas	10" diameter, 0.115 Bcf/d. Summit Lake to Kitimat.	

Triton LNG LP	Export license: application approved by NEB May/2014 for 2.3 MTA (0.3 bcf/d). May/16 – Idemitsu stops work on project.	AltaGas Ltd/ Idemitsu Kosan	Kitimat or Prince Rupert barge facility	0.3	?	Unknown	Small: 40 Large: 20		PNG Looping Project (twinning of existing pipeline)	Pre-application under BCEA. Public comment period on draft Application Information Requirements closed Jan/2014. AIR approved by BCEA Mar/2014, proponent has not submitted an Application. PNG put out a call for expressions of interest from natural gas producers to take additional capacity Oct/2018. The pipeline was formerly intended to supply Triton and/or Douglas Channel LNG.	Pacific Northern Gas	24" diameter, 525 km, 0.6 Bcf/d. Summit Lake to Kitimat.	
Cedar LNG	Export license: application approved by the NEB Nov/2015 for 2.9 MTA (0.38 bcf/d). August 2019: BC EAO orders that an environmental assessment is required. January 2022: Application submitted to EAO. March 2023: Environmental Assessment Certificate Granted.	Haisla First Nation & Pembina Energy Ltd.	Barge/vessel based liquefaction	3 million tonnes/year	2027	Unknown		19.9 megatonnes CO2/year	Coastal Gaslink Pipeline Ltd.	BC EA Certificate issued Oct/2014. 2023: Under construction.	TC Energy	Cedar LNG plans to use a portion of the gas from Coastal Gaslink. The majority of the gas is for LNG Canada. 48" Diameter. 650 km.	

Liquefied Natural Gas (LNG) Facilities OTHER LOCATIONS									Pipelines				
Name	Status	Partners	Location	Capacity	In-service Date	Power Requirements	Tankers per year Small: 130,000 m ³ Large: 260,000 m ³	GHG emissions (projected, from extraction to consumption)	Name	Status	Proponent	Details	Gas Source
Kitsault Energy <i>Cancelled</i>	Export license: approved by NEB Jan/2016 for 20 MTA (2.6 bcf/d).	TBA	Kitsault	2.6 (bcf/day)	?	Unknown	Small: 337 Large: 169		TBA				
Stewart Energy LNG <i>Cancelled</i>	Export license: application submitted to NEB Mar/2014 for 30 MTA (3.8 bcf/d) License granted January 2016 for 25 Tcf of gas over 25 years, in tanker car-goes to be loaded at a rate of up to 4.6 Bcf/d.	Canada Stewart Energy Group	Stewart	0.64 initially (bcf/day)	?	Approx. 250 MW	Small: 84; Large: 42		TBA				
Ksi Lisms LNG <i>Active</i>	Project subject to BC and federal EA and Nisga'a final agreement EA process. July 2021: initial project description submitted to the EAO. April 2022: detailed project description submitted to EAO July 2023: EAO issues Process Order (sets out application information requirements and how the EA will be conducted).	Nisga'a Nation, Rockies LNG, Western LNG LLC	Wil Milit, northern tip of Pearse Island near Gingolx	12 million tonnes per year	2027 - 2028			37.2 megatonnes CO2/year	Westcoast Connector Gas Transmission <i>Active</i>	EA: Approved by BC EA Nov/2014. Apr 2019 extension to EA certificate granted until late 2024. Preparatory environmental work on the ground – Jan. 2022 Jan. 2023: submits application for a second EA certificate extension. June 2023 – Enbridge cancels EA extension request.	Enbridge	36"- 48" diameter, 870km, 4.2 Bcf/d. Cypress to Gingolx via Babine and Nass Valleys. In service date: 2029.	
Skeena LNG & Totem LNG <i>Cancelled</i>	EA not required. September 2021: Top Speed Energy put up for sale	Top Speed Energy	Liquefaction at industrial site near Terrace airport, then transported by truck to port of Prince Rupert.	150,000 tonnes/year					Upgrade to PNG's existing pipeline (Western Transmission Gas Pipeline) <i>Active</i>	BCUC approved upgrades and extensions to PNG's Western Transmission Gas Pipeline in November 2021. Currently under construction to provide gas to other industrial projects in Terrace, Port Edward, and Prince Rupert.	Pacific Northern Gas Ltd.	Summit Lake to Prince Rupert/Port Edward	