

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

Liquefied Natural Gas (LNG) Facilities								Pipelines				
PRINCE RUPERT												
Name	Status	Partners	Location	Capacity billion cubic feet/day	In-service Date	Power Requirements	Tankers per year Small: 130,000 m <sup>3</sup> Large: 260,000 m <sup>3</sup>	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 <del>license</del> approved by NEB Dec/2013 for 21 MTA (2.7 bcf/d).  Apr/2015, Shell purchases project from BG Group.  <b>Mar/2017, Shell ends development of project.</b>	Royal Dutch Shell	Ridley Island, Prince Rupert	1.8 – 2.7	?	Approx. 600 MW	Small: 239 - 358 Large: 119 - 179	Westcoast Connector Gas Transmission Project	EA: Approved by BC EA Nov/2014.	Spectra/Shell (50/50)	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>Export facility cancelled, pipeline proposal still active</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'.  <b>July 25/17 : Pacific Northwest LNG Limited Partnership cancels project</b>	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	?	Approx. 800 MW	Small: 199 - 305 Large: 99 - 152	Prince Rupert Gas Transmission Project	EA: Approved by BC EA Nov/2014.  EA extension application submitted Dec/2018.  Pipeline receives permits from BCOGC in October 2015.	TransCanada	48" diameter, 900 km, 2 - 3.6 Bcf/d. Hudson's Hope to Lelu Island. Proceeding with South Central Alternative route with marine portion from Nass Bay to Lelu Island.	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).  <b>Dec/18 Exxon &amp; Imperial Oil announce cancellation of project.</b>	Imperial Oil/ Exxon Mobil	Lot 444, Tuck Inlet, Prince Rupert	up to 3.8	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).  <b>CNOOC/INPEX/JGC Corp/JOGMEC cancel project Sept. 14/17</b>	CNOOC/INPEX/JGC Corporation/JOGMEC	Digby Island	1.5 - 3.1	?	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).  <b>Mar/2018 Woodside Energy Holdings cancels project.</b>	Woodside Energy Holdings (Australia)	Grassy Point and/or Tuck Inlet	up to 2.5	?	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).  <b>May/16 – Idemitsu stops work on project.</b>	AltaGas Ltd/ Ide- mitsu Kosan	Kitimat or Prince Rupert barge facility	0.3	?	Unknown	Small: 40 Large: 20	TBA				
TBA	Responded to BC Gov's EOI April/2013.	SK E&S (Korea)	Grassy Point	TBA	TBA	Unknown	TBA	TBA				
Orca LNG	Export license approved by NEB July/2015 for 10 MTA (1.3 bcf/d).	Orca LNG Ltd.	Prince Rupert area barge facility	1.3	TBA	Unknown	Small: 178 Large: 89	TBA				
TBA	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	?	Unknown	Small: 198 Large: 99	TBA				

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KITIMAT												
Name	Status	Proponents	Location	Capacity billion cubic feet/day	In-service Date	Power Requirements	Tankers per year Small: 130,000 m <sup>3</sup> Large: 260,000 m <sup>3</sup>	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 <b>April 2019</b> – Kitimat LNG applies to the NEB to nearly double the capacity and time-span of their export license to 18 MTA and 40 years. <b>July 8, 2019</b> – KM LNG Expansion Project submits a project description to both CEAA and BCEAO. <b>July 10, 2019</b> – BC EAO submits request to CEAA that the KM LNG Expansion Project be exempt from a federal EA, substituting it for a provincial EA. Public comment period closed on July 31, 2019. <b>August 20, 2019</b> – Substitution request is approved and the project will only be subject to a provincial EA.	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	Pacific Trails Pipeline	BC EA Certificate issued June/2008. EAO extended Certificate June/2013. Mandatory construction start by June/2018.	Chevron/ ?? **Apache exited proposal July/2014**	42" diameter. 462 km 1.0 Bcf/d Summit Lake to Kitimat via Morice R.	Chevron/ Apache holdings in Horn and Liard Basin

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.  August 2017: Shell announces they aim for an FID in 2018  <b>October 2018: Shell announces FID and 'immediate' start to construction</b>	Shell/Petronas/ PetroChina/ Mitsubishi/ Kogas	Kitimat	1.5 - 3.1	2025	Approx. 1200 MW	Small: 225 – 425 Large: 112 - 213	Coastal GasLink Pipeline Ltd.	BC EA Certificate issued Oct/2014.  <b>Legal case arguing for a federal review launched Aug/2018</b>  <b>Injunction launched against Wet'suwet'en Dec/2018</b>	TransCanada	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  <b>Cancelled</b>	EA: not required. Export license: approved by NEB Feb/2012 for 1.8 MTA (0.2 bcf/d).  <b>March 2016: Project "shelved" by AltaGas</b>	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  <b>Cancelled</b>	Export license: application approved by NEB May/2014 for 2.3 MTA (0.3 bcf/d).  <b>May/16 – Idemitsu stops work on project.</b>	AltaGas Ltd/ I-demitsu 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.  Application Information Requirements approved by BCEA Mar/2014, proponent has not submitted an Application.  <b>PNG put out a call for expressions of interest from natural gas producers to take additional capacity on a new line Oct/2018. The pipeline was formerly intended to supply Triton and/or Douglas Channel LNG.</b>	Pacific Northern Gas	24" diameter, 525 km, 0.6 Bcf/d. Summit Lake to Kitimat.
Cedar LNG Export 1	Export license: application approved by the NEB Nov/2015 for 2.9 MTA (0.38 bcf/d).  <b>August 2019: BC EAO orders that an environmental assessment is required.</b>	Haisla First Nation	Barge/vessel based liquefaction	appx. 0.38	2025		Small: 80 Large: 40	Coastal Gaslink Pipeline Ltd.	BC EA Certificate issued Oct/2014.  <b>Legal case arguing for a federal review launched Aug/2018</b>  <b>Injunction launched against Wet'suwet'en Dec/2018</b>	TransCanada	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. 1.7 – 5.0 Bcf/d. Dawson Creek to Kitimat. Parallels PTP corridor except west of Burnie River
Cedar LNG Export 2	Export license: application submitted to NEB Aug/2014 for 5.8 MTA (0.78 bcf/d). Dec/14, application deemed incomplete.	Haisla First Nation	Barge/vessel based liquefaction	appx. 0.78	?		Small: 80 Large: 40				

Cedar LNG Export 3	Export license: application submitted to NEB Aug/2014 for 5.8 MTA (0.78 bcf/d). Dec/14, application deemed incomplete.	Haisla First Nation	Barge/vessel based liquefaction	appx. 0.78	?			Small: 80 Large: 40						
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OTHER												
Name	Status	Partners	Location	Capacity billion cubic feet/day	In-service Date	Power Requirements	Tankers per year Small: 130,000 m <sup>3</sup> Large: 260,000 m <sup>3</sup>	Name	Status	Proponent	Details	Gas Source
Kitsault Energy	Export license: approved by NEB Jan/2016 for 20 MTA (2.6 bcf/d).	TBA	Kitsault	2.6	?	Unknown	Small: 337 Large: 169	TBA				
Stewart Energy LNG	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 cargoes to be loaded at a rate of up to 4.6 Bcf/d.	Canada Stewart Energy Group	Stewart	0.64 initially	?	Approx. 250 MW	Small: 84; Large: 42	TBA				