

# **GPAC / PJVA Annual Joint Conference**



### Forward looking statement / all jurisdictions



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### Why Bear Head LNG



### **EPC**

Targeting USGC cost model

Based on executed Magnolia LNG EPC contract plus site design to determine EPC cost

Phase I FEED complete

Lateral pipeline work ongoing

# **Financing**

LNGL currently sole equity owner of BHLNG

Evaluating options for optimal financing structure

Financial Advisor selection under evaluation

## **Permitting**

Only Eastern Canadian project holding all 10 initial Federal, Provincial, and Local regulatory approvals

Both Free Trade Agreement (FTA) and Non-FTA granted

### **Feed Gas**

Three unique, prolific natural gas sources available:

- Western Canada
- U.S., Marcellus and Utica
- Offshore Nova Scotia

### **Preferred Site**

Deep, sheltered, ice free port with direct access to Atlantic

327-acre site (onshore and offshore acreage ) within established industrial zone

**Strong First Nations support** 

### **Commercial**

Focused on tolling structure with USGC equivalent liquefaction costs

Flexible operating model

Industry's lowest gas retainage cost

### **Liquefied Natural Gas Limited**





# Liquefied Natural Gas Limited "LNGL"

(Perth, Western Australia)

Magnolia LNG project "MLNG"

(Lake Charles, LA USA)

Fisherman's
Landing
LNG project
"FLLNG"
(Queensland, Australia)

Bear Head LNG project "BHLNG"

(Point Tupper, Nova Scotia)

Bear Paw
Pipeline project
"Bear Paw"

(Point Tupper, Nova Scotia)

OSMR® Technology LNG Technology Pty Ltd (Perth, Western Australia)



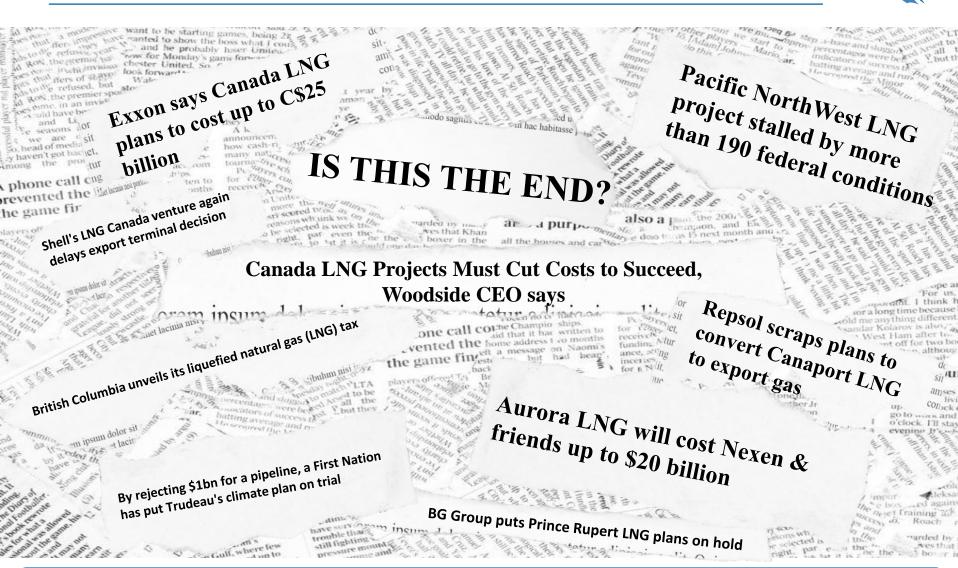
LNGL is an Australian public company (ASX: LNG)

- BHLNG and Bear Paw are wholly owned subsidiaries
- Developer of mid-scale LNG export terminals
- Owner of patented OSMR® liquefaction process technology
- Approximately 20 million tonnes per annum (mtpa) of capacity under development

ASX: Australian Securities Exchange



### **Canadian LNG industry uncertainty**





# **Bear Head LNG advantages vs. BC projects**

Attribute	Bear Head LNG
Labor market	Large skilled labor pool, union no-strike provisions
Environmental concerns	Site is located in an industrialized zone next to a coal plant, oil terminal, and paper mill; limited jetty run, no dredging required, no breakwater
Seismic concerns	None
Local support / First Nations	Strong support – jobs/education are pillars of fostering a strong relationship that has grown over the past 14 years
Existing infrastructure	Canadian Mainline could connect sizeable percentage of pipeline route to Bear Head LNG. Remaining greenfield pipe follows Energy East ROW and crosses no mountain ranges; plant civil work already complete; readily accessible site; extensive regional infrastructure in place
Liquefaction costs	CAPEX competitive with USGC liquefaction costs based on KBR Phase I FEED and Magnolia LNG guaranteed lump sum, turnkey EPC contract
Gas market optionality	Market liquidity along pipeline route to optimize gas flows to provide LNG off take flexibility, access Atlantic Basin LNG markets, swap intra-basin LNG cargoes, or flow LNG to Pacific Basin
Cash flow obligations	No up front cash flow requirements from customers as both pipe and liquefaction will be owned by third parties and "tolled" over contract life

### **Project location – Point Tupper, Richmond County, Nova Scotia**





- Accessible 327-acre land and water site (72 acres offshore and 255 acres onshore)
- Nominally half the shipping distance to major European markets compared to U.S. Gulf Coast ports
- Closest North American LNG export location to markets in Argentina, Middle East, India, and other Asian customers

- Strait of Canso location
  - Natural deep water port, sheltered and icefree, "turning basin" immediately in front of site
  - No wave, current, or tide restrictions
  - Established tug, pilot, and marine support operations
  - Direct access to North Atlantic
  - Within Point Tupper industrial zone



Graphic showing the full 327-acre Bear Head LNG site

Original 255 acres

Additional 72 acres



### Bear Head LNG approvals compared with other east coast projects

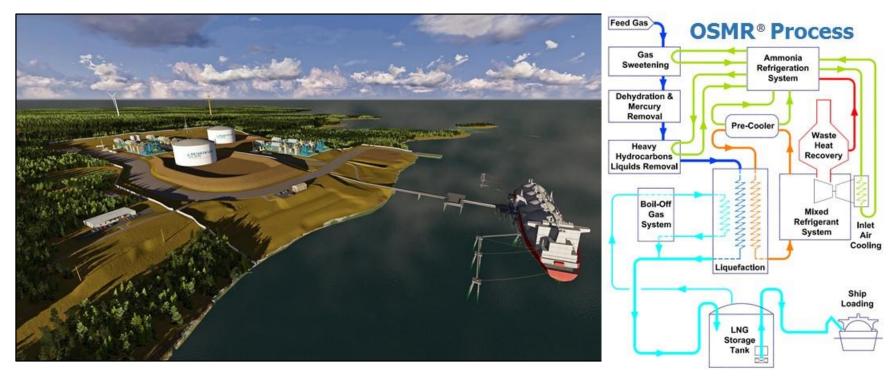
Bear Head	Ten Initial Federal, Provincial and Local Regulatory Approvals	
<b>√</b>	Federal	Transport Canada CEAA Screening
<b>√</b>	Federal	Navigable Waters Protection Act Authorizations
<b>√</b>	Federal	Fisheries and Oceans Canada CEAA Screening
$\checkmark$	Federal	Authorization for Works or Undertakings Affecting Fish Habitats
<b>✓</b>	Municipal	Development Permit
<b>✓</b>	Provincial	Breaking Soils of Highways Permit
<b>✓</b>	Provincial	Beaches Act Clearance
<b>✓</b>	Provincial	Environment Act Water Approval (Wetland Infill)
<b>√</b>	Provincial	Permit to Construct Gas Plant
<b>✓</b>	Provincial	Environmental Assessment Approval

Bear Head	Key Export Authority Approvals	
<b>√</b>	DOE	FTA Export Approval (DOE)
n/a	DOE	In-Transit Order Approval (DOE)
$\checkmark$	DOE	Non-FTA Export Approval (DOE)
<b>✓</b>	NEB	Import & Export Approval (NEB)

In addition, NSE has accepted the BHLNG Greenhouse Gas and Emissions Management Plans

### BHLNG technology, project design, and construction attributes

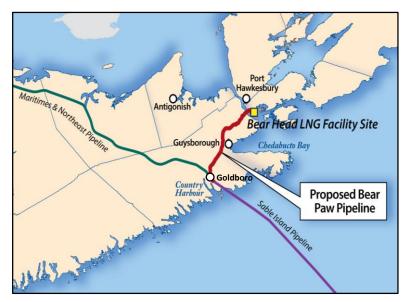




- Leverage Magnolia LNG completed EPC contract and design \$494 to \$540/ton
- KBR Phase 1 FEED analysis validated similar cost estimates for BHLNG compared to MLNG
- LNG Limited's patented OSMR® liquefaction technology process and construction approach
- Leverage Brownfield site improvement work completed by previous owner
- Industry-leading energy efficiency and greenhouse gas profiles 6-8% plant fuel consumption
  - 2% liquefaction fuel consumption savings of > \$50 million/annum in gas supply costs for 12 mtpa

### **Bear Paw pipeline - project overview**

- Bear Paw pipeline project is 100% owned by Bear Paw Pipeline Corporation Inc., an indirect wholly owned subsidiary of LNGL
- Connects Bear Head LNG facility to mainline gas header at Goldboro
- Pipeline length: approximately 62.5 km (~ 38 miles)
- Project components
  - 42" diameter pipe with maximum allowable operating pressure of 1,440 psi
  - Compressor station and meter stations
  - 1,320 meter crossing of Strait of Canso
- Preliminary study corridor partially parallels the ROW of two existing pipelines
- Secured NSUARB permit to construct
- Strong public support and landowner engagement





### **First Nations support**





Mi'kmaq Chiefs Sidney Peters and Bob Gloade at MOU signing with Bear Head LNG team



- Bear Head LNG has carefully followed the First Nations consultation process
- MOU signed by Assembly of Nova Scotia Mi'kmaq Chiefs and Bear Head LNG commits parties to work together
- Commitment ensures First Nations participation in project
- First Nations band is providing site security and safety

"This agreement is an important step. We are confident that the relationship we have developed during these discussions with Bear Head LNG will grow and enable us to create opportunities for the Mi'kmaq of Nova Scotia."

-- Chief Terrance Paul, Co-Chair of the Assembly of Nova Scotia Mi'kmaq Chiefs

### An opportunity for Nova Scotia

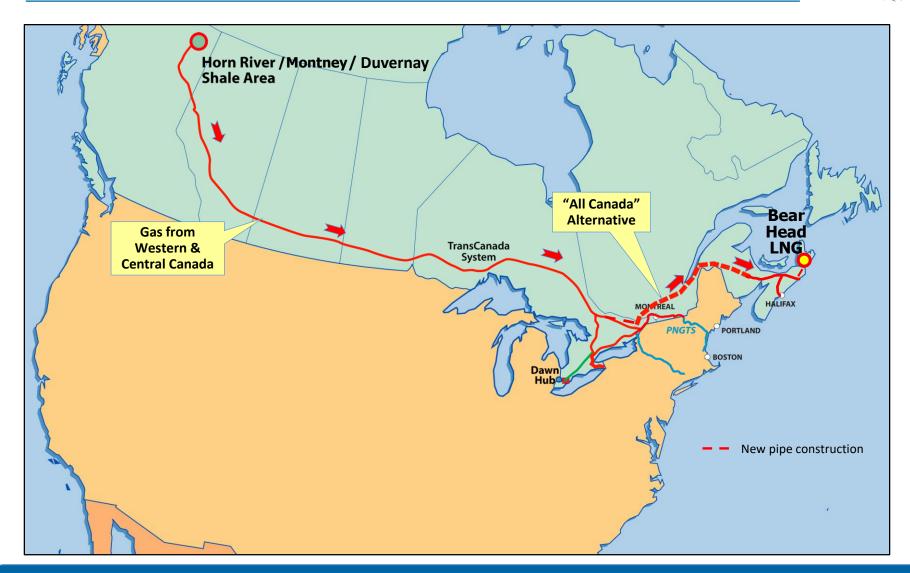


- Major positive impacts for Nova Scotia and the Point Tupper region
- No threatened fiscal overreach by Province
- Quality jobs creation \*
  - 45 to 70 permanent direct jobs
  - 175 permanent indirect jobs
  - 600 to 700 construction jobs
- An important new addition to the property tax base of Richmond County
- Long-term access to affordable gas supply for regional power generation
- Community support
  - Continued company participation in the region as a committed corporate citizen
  - Community liaison committee formed
  - Alliance with Community College to train the personnel needed to operate the LNG facility
  - First Nations support



\* Estimates based on 2014 study

### Western Canadian gas supply and transportation alternative option



### **Project location with indicative shipping costs**

- Closest North American project
  - NW Europe 5.5 day sail
  - Argentina 15 day sail
  - India 20 day sail
- Asia
  - Similar shipping cost to USGC
  - OSMR technology requires less feed gas supply resulting in lower cost of LNG production (feed gas, pipeline, liquefaction) offsets shipping cost vs. Canadian Pacific locations
  - Cross Basin LNG cargo swaps can further offset shipping differentials

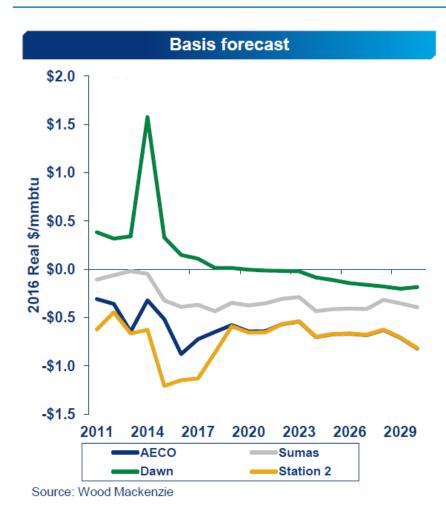


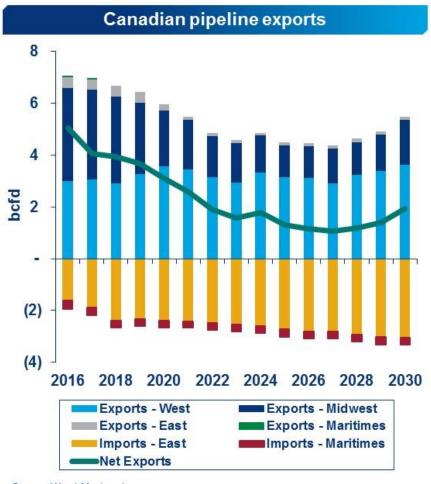


### Western Canadian gas becoming stranded



### Basis and pipeline export forecasts to 2030





Source: Wood Mackenzie

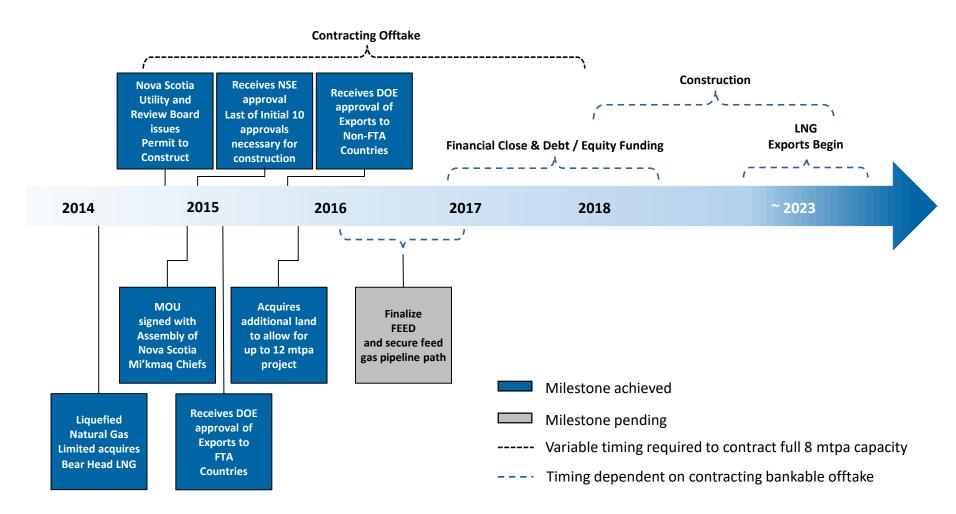
### BHLNG value chain economics compete well with BC



Source: PennWell, WoodMackenzie

- Bear Head LNG provides significant savings on liquefaction costs vs. BC projects
  - Low cost, energy efficient OSMR® liquefaction design
  - Optimal site location civil / environmental / no seismic
  - Deep skilled labor pool vs. labor camps in BC
  - Existing infrastructure / prior civil work
- Pipeline solution costs in line with BC projects with much lower cost over-run risk
  - Canadian Mainline + greenfield extension utilizes established rights of way throughout
  - No mountain ranges, crosses multiple markets, and possible expansions with Marcellus/Utica gas

### **Bear Head LNG project schedule**



### **Conclusions**



- Bear Head LNG Western Canadian gas solution provides:
  - Monetization solution for major Western Canadian natural gas resource owner
  - Ability to "book" reserves thereby increasing reserve replacement levels and share price
  - LNG cargo arbitrage opportunities within the Atlantic Basin and across Middle East and Pacific Rim markets
  - Diversity into resource holder's global LNG supply portfolio
  - Reduced upfront cash investment required by West Coast LNG projects
  - Competitive global FOB price

### Bear Head LNG provides:

- Deep, sheltered, and ice free shipping channel with direct access to Atlantic Ocean
- Canadian regulatory and permitting certainty
- Unique, advantageous LNG supply point for world LNG markets at USGC equivalent toll prices

### LNGL provides:

- Industry leading cost structure demonstrated through proven Magnolia LNG results
- OSMR® patented liquefaction process flexibility, high efficiency, low emissions and cost advantages
- Experienced EPC execution and delivery team with operational LNG plant delivery experience

### Canadian Mainline provides:

- Access to existing underutilized pipeline capacity
- Ability to permit new greenfield pipeline extension

### Nova Scotia provides:

- Geopolitical stability and transparency with clear, well-defined regulatory processes
- Political, First Nations, and local community support

Thank you



# Forward looking statement / non-GAAP financial measures



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