## CHENIERE ENERGY, INC.

Gas Infrastructure Needed for US LNG Exports

2019 Gas/Electric Partnership Conference – February 2019



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# Safe Harbor Statements

#### Forward-Looking Statements

This presentation contains certain statements that are, or may be deemed to be, "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical or present facts or conditions, included or incorporated by reference herein are "forward-looking statements." Included among "forward-looking statements" are, among other things:

- statements regarding the ability of Cheniere Energy Partners, L.P. to pay distributions to its unitholders or Cheniere Energy, Inc. to pay dividends to its shareholders or participate in share or unit buybacks;
- · statements regarding Cheniere Energy, Inc.'s or Cheniere Energy Partners, L.P.'s expected receipt of cash distributions from their respective subsidiaries;
- statements that Cheniere Energy Partners, L.P. expects to commence or complete construction of its proposed liquefied natural gas ("LNG") terminals, liquefaction facilities, pipeline facilities or other projects, or any expansions or portions thereof, by certain dates or at all;
- statements that Cheniere Energy, Inc. expects to commence or complete construction of its proposed LNG terminals, liquefaction facilities, pipeline facilities or other projects, or any expansions or portions
  thereof, by certain dates or at all;
- statements regarding future levels of domestic and international natural gas production, supply or consumption or future levels of LNG imports into or exports from North America and other countries
  worldwide, or purchases of natural gas, regardless of the source of such information, or the transportation or other infrastructure, or demand for and prices related to natural gas, LNG or other hydrocarbon
  products;
- statements regarding any financing transactions or arrangements, or ability to enter into such transactions;
- statements relating to the construction of our proposed liquefaction facilities and natural gas liquefaction trains ("Trains") and the construction of our pipelines, including statements concerning the
  engagement of any engineering, procurement and construction ("EPC") contractor or other contractor and the anticipated terms and provisions of any agreement with any EPC or other contractor, and
  anticipated costs related thereto;
- statements regarding any agreement to be entered into or performed substantially in the future, including any revenues anticipated to be received and the anticipated timing thereof, and statements
  regarding the amounts of total LNG regasification, natural gas, liquefaction or storage capacities that are, or may become, subject to contracts;
- statements regarding counterparties to our commercial contracts, construction contracts and other contracts;
- · statements regarding our planned development and construction of additional Trains or pipelines, including the financing of such Trains or pipelines;
- statements that our Trains, when completed, will have certain characteristics, including amounts of liquefaction capacities;
- statements regarding our business strategy, our strengths, our business and operation plans or any other plans, forecasts, projections or objectives, including anticipated revenues, capital expenditures, maintenance and operating costs, run-rate SG&A estimates, cash flows, EBITDA, Adjusted EBITDA, distributable cash flow, distributable cash flow per share and unit, deconsolidated debt outstanding, and deconsolidated contracted EBITDA, any or all of which are subject to change;
- statements regarding projections of revenues, expenses, earnings or losses, working capital or other financial items;
- statements regarding legislative, governmental, regulatory, administrative or other public body actions, approvals, requirements, permits, applications, filings, investigations, proceedings or decisions;
- statements regarding our anticipated LNG and natural gas marketing activities; and
- any other statements that relate to non-historical or future information.

These forward-looking statements are often identified by the use of terms and phrases such as "achieve," "anticipate," "believe," "contemplate," "develop," "estimate," "example," "expect," "forecast," "goals," "guidance," "opportunities," "plan," "potential," "project," "propose," "subject to," "strategy," "target," and similar terms and phrases, or by use of future tense. Although we believe that the expectations reflected in these forward-looking statements are reasonable, they do involve assumptions, risks and uncertainties, and these expectations may prove to be incorrect. You should not place undue reliance on these forward-looking statements, which speak only as of the date of this presentation. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of a variety of factors, including those discussed in "Risk Factors" in the Cheniere Energy, Inc. and Cheniere Energy Partners, L.P. Annual Reports on Form 10-K filed with the SEC on February 21, 2018, which are incorporated by reference into this presentation. All forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by these "Risk Factors." These forward-looking statements are made as of the date of this presentation, and other than as required by law, we undertake no obligation to update or revise any forward-looking statement or provide reasons why actual results may differ, whether as a result of new information, future events or otherwise.

#### Reconciliation to U.S. GAAP Financial Information

The following presentation includes certain "non-GAAP financial measures" as defined in Regulation G under the Securities Exchange Act of 1934, as amended. Schedules are included in the appendix hereto that reconcile the non-GAAP financial measures included in the following presentation to the most directly comparable financial measures calculated and presented in accordance with U.S. GAAP.



# **Today's Presentation**

**Introduction to Cheniere** 

LNG Projects Update

Cheniere Gas Supply Update & Gulf Coast Market Development

Takeaways



Sabine Pass First Cargo: 24th Feb 2016

## **Cheniere Investment Thesis**



**Premier LNG provider** with substantial asset platform and proven track record of execution

Full service LNG offering enables solutions tailored to customer needs



**Significant stable long-term cash flows** from take-or-pay style agreements with creditworthy counterparties

**Potential cash flow growth** from portfolio volumes and economically attractive liquefaction expansions



Strong global LNG demand fundamentals call for LNG supply growth

Investments along LNG value chain support core liquefaction business



## Market Leading Position Along the Value Chain

## Safe, Reliable, and Efficient Production of LNG



GAS SUPPLY

#### COMMERCIAL OPERATIONS & ASSET OPTIMIZATION

#### Ensure reliable gas delivery to Cheniere's LNG facilities

- Largest physical natural gas consumer in the U.S.
- Capacity holder on most Gulf Coast interstate pipelines, largest shipper on Transco and KMLP
- Over 1,850 TBtu nominated to Sabine Pass since start-up, with near-perfect scheduling efficiency

#### Deliver to foundation customers, and optimize and monetize excess cargoes

- Loaded over 200 vessels in 2017, and ~215 YTD 2018<sup>(1)</sup>
- Cheniere Marketing delivered over 130 cargoes from Sabine Pass by end of 3Q 2018
- Chartered more than 100 LNG tankers since startup, with as many as 25 on water simultaneously

#### Continue to deliver long-term contracts to underwrite new liquefaction capacity

ORIGINATION

- Firm portfolio volumes used to structure term deals to enable longterm growth
- Team has executed over 35 mtpa of term offtake commitments
- Long-term SPAs totaling more than
   7 mtpa of LNG signed in 2018

#### BUSINESS DEVELOPMENT

# Invest along the LNG value chain to support core liquefaction business

- Proposed MIDSHIP pipeline to access SCOOP/STACK volumes in Oklahoma
- Develop downstream markets to locate demand source for incremental liquefaction



## Substantial Asset Platform and Global Footprint

## Building an Industry Leading U.S. LNG Export Platform



1300+ Employees 6 Offices Worldwide Houston | Washington D.C. | London Tokyo | Beijing | Singapore



#### **Sabine Pass Liquefaction Project** 22.5 mtpa<sup>(1)</sup> Liquefaction Capacity

- Trains 1-4 operating, contracts with long-term buyers commenced<sup>(2)</sup>
- Train 5 commissioning, first LNG October 2018
- Over 500 destination-flexible cargoes exported, with deliveries to 30 countries and regions worldwide
- Train 6 early engineering, procurement, and site works underway ahead of FID (additional 4.5 mtpa<sup>(1)</sup>)

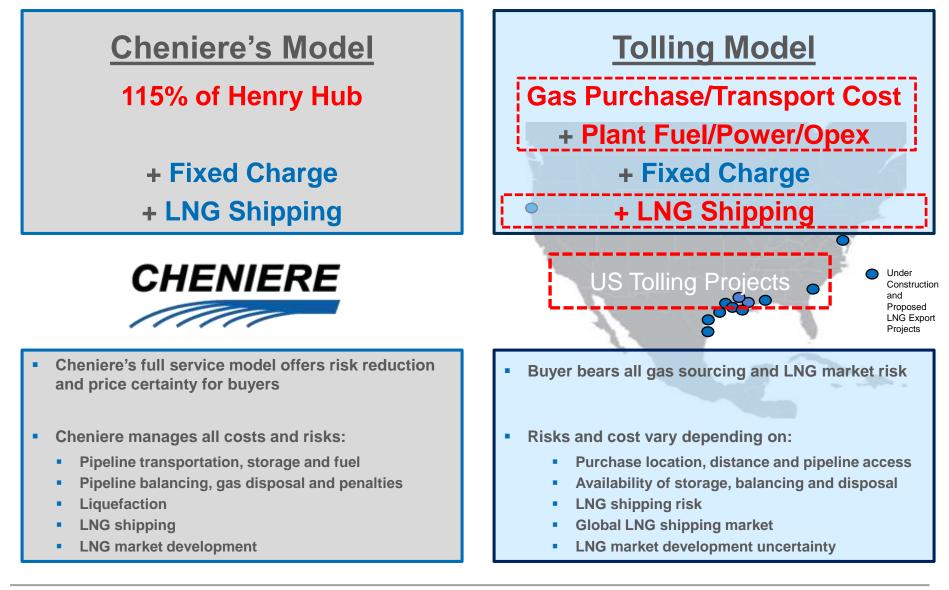
#### **Corpus Christi LNG Terminal** 13.5 mtpa<sup>(1)</sup> Liquefaction Capacity

- First greenfield LNG export facility in U.S. Lower-48
- Train 1 commissioning, first LNG November 2018
- Trains 2-3 under construction
- Filed FERC application for ~9.5 mtpa liquefaction expansion, Environmental Assessment expected 1Q 2019
- Land position enables significant further liquefaction capacity expansion

(1) Each Train is expected to have a nominal production capacity, prior to adjusting for planned maintenance, production reliability, potential overdesign, and debottlenecking opportunities, of approximately 4.5 mtpa of LNG and an average adjusted nominal production capacity of approximately 4.4-4.9 mtpa of LNG on a run rate basis.
(2) Date of First Commercial Delivery reached for Trains 1-4 for the primary SPA for each Train.



## Cheniere's Full Service Model Offers Enhanced Price Certainty For Buyers



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## LNG Projects Update



SPL Stage 3		Corpus Stage 1		Corpus Stage 2	
99.1% Overall Train 5 – 1Q 2019		94.9% Overall Train 1 – 1Q 2019 Train 2 – 2H 2019		37.7% Overall Train 3 – 2H 2021	
Engineering Procurement Construction 100%	100% 98.7%	Engineering Procurement Construction 100%	100% 89.3%	Engineering Procurement Construction 82.2%	58.3% 7.4%

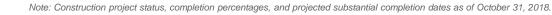
#### **Operations** Reinforcing Global Reputation of Reliability

- Operations team working alongside commissioning team to ensure safe and efficient turnover of Trains
- Focus on cross-functional coordination gas supply, commercial ops, terminal ops, asset optimization, shipping
- Continuing to reinforce advantage of full service model
  - Over 1,850 TBtu sourced to terminal with near perfect scheduling efficiency since inception
  - >130 cargoes delivered by CMI since inception

## Construction

## Progressing Efforts on Accelerated Schedules

- Commissioning activities underway for SPL Train 5 and Corpus Train 1
  - First LNG produced from SPL Train 5 in Oct. 2018
  - First LNG produced from CCL Train 1 in Nov. 2018
  - Focus on testing and systems turnover
- SPL Train 6 EPC contract with Bechtel signed November 2018
  - Early engineering, procurement, and site works commenced under LNTP





## Sabine Pass Liquefaction Project



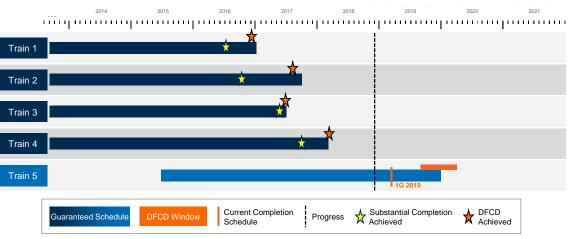
## **Liquefaction Trains 1-5**

- Trains 1 through 4 complete and in operation on budget and ahead of schedule
- Train 5 is commissioning and produced first LNG in October 2018
  - Substantial completion expected 1Q 2019

#### Growth

- Train 6 early engineering, procurement, and site works underway
  - LNTP issued to Bechtel in November 2018

#### **Project Schedule**



# Corpus Christi LNG Terminal



## **CCL Project Trains 1-3**

- Train 1 is commissioning and produced first LNG in November 2018
  - Substantial completion expected 1Q 2019
- Train 2 substantial completion expected 2H 2019
- Train 3 is 37.7% complete overall and has a target substantial completion of 2H 2021

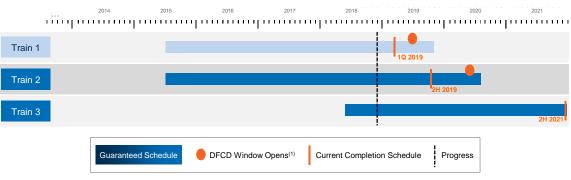
## **Corpus Christi Stage 3**

- Filed FERC application for 7 midscale trains (total expected nominal capacity 9.5 mtpa)
- Environmental Assessment expected from the FERC 1Q 2019

## **Additional Growth**

- Land position enables significant further liquefaction capacity expansion

#### **Project Schedule**



Note: Based on Guaranteed Substantial Completion Dates per EPC contract. Construction percentages complete as of October 31, 2018. (1) DFCD first window period varies by SPA.



## **Leading Project Partners**

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Sabine Pass Liquefaction Project (Louisiana)



**Corpus Christi Liquefaction Project (Texas)** 

**Reliable, Proven Partners** 



Note: SPA counterparties exclude SPAs with Cheniere Marketing, which may or may not be used to provide commercial support for Train 6 of the SPL Project.



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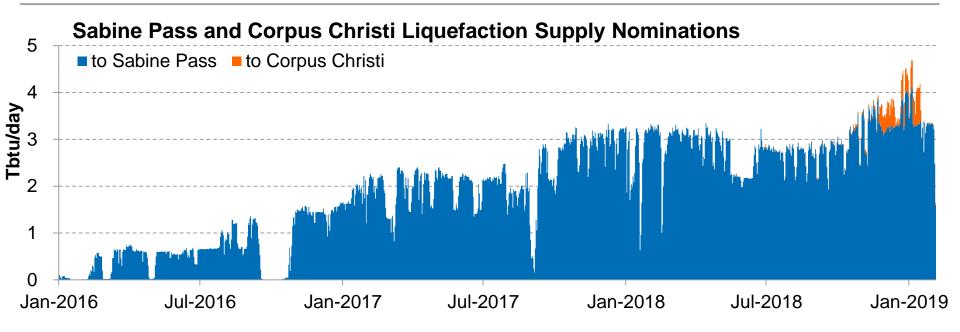
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Sabine Pass First Cargo: 24th Feb 2016

# Cheniere Gas Supply Operations to Date



- Delivered over 2,000 Tbtu of feedgas to Sabine Pass and Corpus Christi
- Successfully commissioned four trains and associated upstream infrastructure
- Currently commissioning two trains at two different lcoations
- Management of intra-month/intra-day volume variance and price exposure requires a fully staffed trade floor in-tune with plant operations

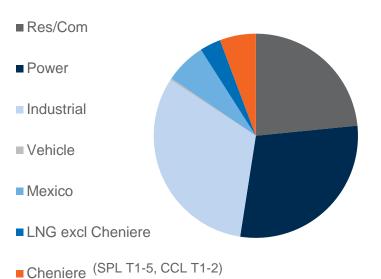


# As of 2017, Cheniere is the Largest Gas Consumer in the US

Rank	Company	<b>Consumption</b> (Tbtu/day)	
1	Sabine Pass Liquefaction	2.20	
2	Calpine Corporation	1.92	
3	Southern Company	1.77	
4	Duke Energy Corporation	1.42	
5	CNE Gas Supply	1.37	

Calendar year 2017 consumption (FERC form 552 data)

#### Projected 2020 US Gas Demand by Sector<sup>1</sup>



#### Cheniere moved from the 18<sup>th</sup> largest consumer in 2016 to the largest consumer in 2017

- Deliveries to SPL averaged 2.87 in 2018
- In 2020, Cheniere is expected to account for nearly 5%-6% of US gas demand

<sup>1</sup>EIA 2018 Annual Energy Outlook reference case. Assumes Cheniere demand 7 trains at 750,000 MMBtu/d



## Cheniere Has Invested in Significant Infrastructure to Support US Gas Procurement

#### Cheniere largest U.S. gas consumer today

- One of largest firm pipeline transportation capacity holders in U.S. with annual capacity payments on pipelines exceeding \$450MM
- Have partnered with producer community on infrastructure to not only clear local basin but to make it to export locations
- Cheniere's control of significant gas infrastructure provides:
  - Supply diversity through access to every major basin in the U.S.
  - · Procurement redundancy to ensure plant reliability

Granite Wash

Permian

Basin

Eagle Ford

Proposed

Gulf Coast <u>Express</u>

Route

 Access to gas storage to manage varying plant loads and unplanned outages

> Proposed Midship

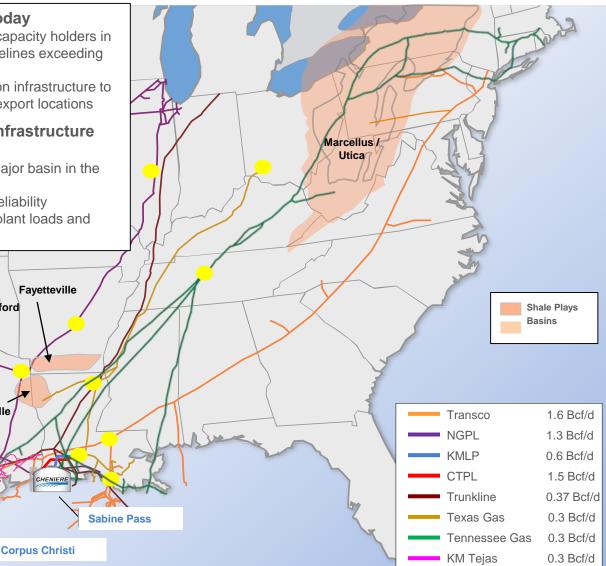
> > Route

Barnett

Woodford

Haynesville

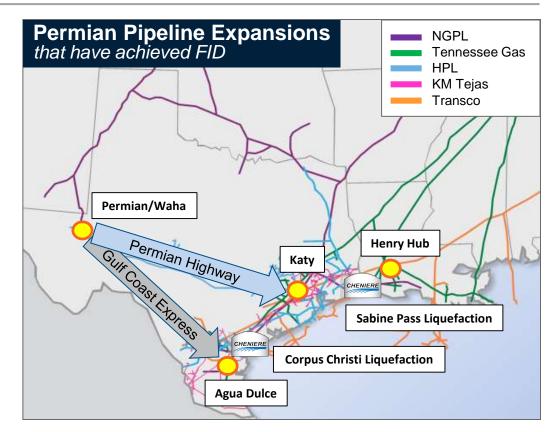
HENIER



Primary purchase points

# Permian Production Will Play a Major Role in LNG Export Development

- 4 Bcf/d of pipeline capacity to Southeast Texas has reached FID and will enter service in late 2019 & 2020
- Backlog of similar projects under development is needed to bring additional Permian supply to the Gulf Coast

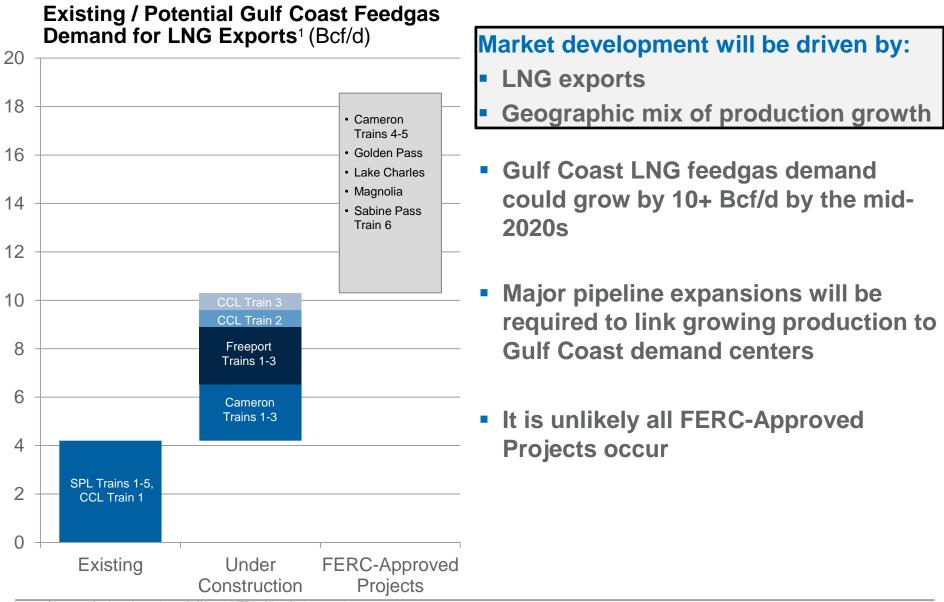


## **Proposed Pipeline Projects**

Project	Developer	Capacity (Bcf/d)	Status	Target In-service
Gulf Coast Express (GCX)	Kinder Morgan	2.0	FID reached	4Q 2019
Permian Highway (PHP)	Kinder Morgan	2.0	FID reached	4Q 2020
Whistler	WhiteWater Midstream	2.0	Under Evaluation	TBD
Bluebonnet Market Express	Williams	2.0	Under Evaluation	TBD
Pecos Trail	NAmerico	1.9	Under Evaluation	TBD
Permian Access	Tellurian	2.0	Under Evaluation	TBD
Permian to Katy (P2K)	Boardwalk	2.0	Under Evaluation	TBD



# LNG Exports Will Drive Gulf Coast Demand Growth





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# Takeaways

- The US LNG export market has occurred because infrastructure development was able to link growing production to LNG export facilities
  - Capital has been spent to develop existing infrastructure long term commitments support capital outlay
  - Open access to supply and pipeline transport obviates the need for exporters to own reserves
- Existing and future LNG exports will continue to introduce baseload demand that utilizes pipeline capacity around-the-clock
- Supply diversity will be key for successful LNG export projects
  - Ability to divert and optimize supply in changing market environments will be valuable...
  - ... especially as major US transport corridors are highly utilized and already contracted for
- Most existing pipeline reversals to the Gulf Coast region have been developed and put into service
  - Future expansions will be much more expensive...
  - ...Greenfield expansions will likely be required for basins located far away from the Gulf Coast



# Thank you

