



## 2018 Gas Transmission Northwest Customer Meeting

June 14, 2018



## Welcome

Jay Story  
Account Director, Long Term Marketing

# Agenda



- **Welcome – Jay Story**
- **Safety Moment**
- **Organizational Update – Jas Bertovic**
- **TransCanada’s Role in North America’s Energy Future – Jas Bertovic**
- **Commercial Update – Colin Lindley**
- **Operations Update – Paul Oliver**
- **Regulatory Update – John Roscher**
- **Break**
- **Marketing & Fundamentals – Sean McDonald**
- **NGTL & Foothills Pipelines Update – Candice Engel & Ashley Stowkowy**
- **Closing and Activity Information – Jay Story**



# Safety Moment – Lawn Equipment Safety



## Power Equipment

- Read the manual and warning labels – has all kinds of safety related material
- Don't disable or bypass safety devices
- Clear the work area (rocks, wood, toys, etc.)
- Keep bystanders away especially children
- Always stop machine when adjusting and do not leave unattended

## Clothing

- Wear close-fitting clothes, long pants or slacks, and closed-toe shoes with traction soles. Do not operate any power equipment while barefoot, or sandals.
- Be careful of items that can snag; jewelry, scarves, untucked shirts
- Wear eye and ear protection



**DO NOT Learn by accident!**



# Organizational Update

Jas Bertovic  
Vice President, U.S. Commercial Marketing



# Disclaimer: Forward Looking Information



This presentation includes certain forward looking information, including future oriented financial information or financial outlook, which is intended to help current and potential investors understand management's assessment of our future plans and financial outlook, and our future prospects overall. Statements that are forward-looking are based on certain assumptions and on what we know and expect today and generally include words like anticipate, expect, believe, may, will, should, estimate or other similar words.

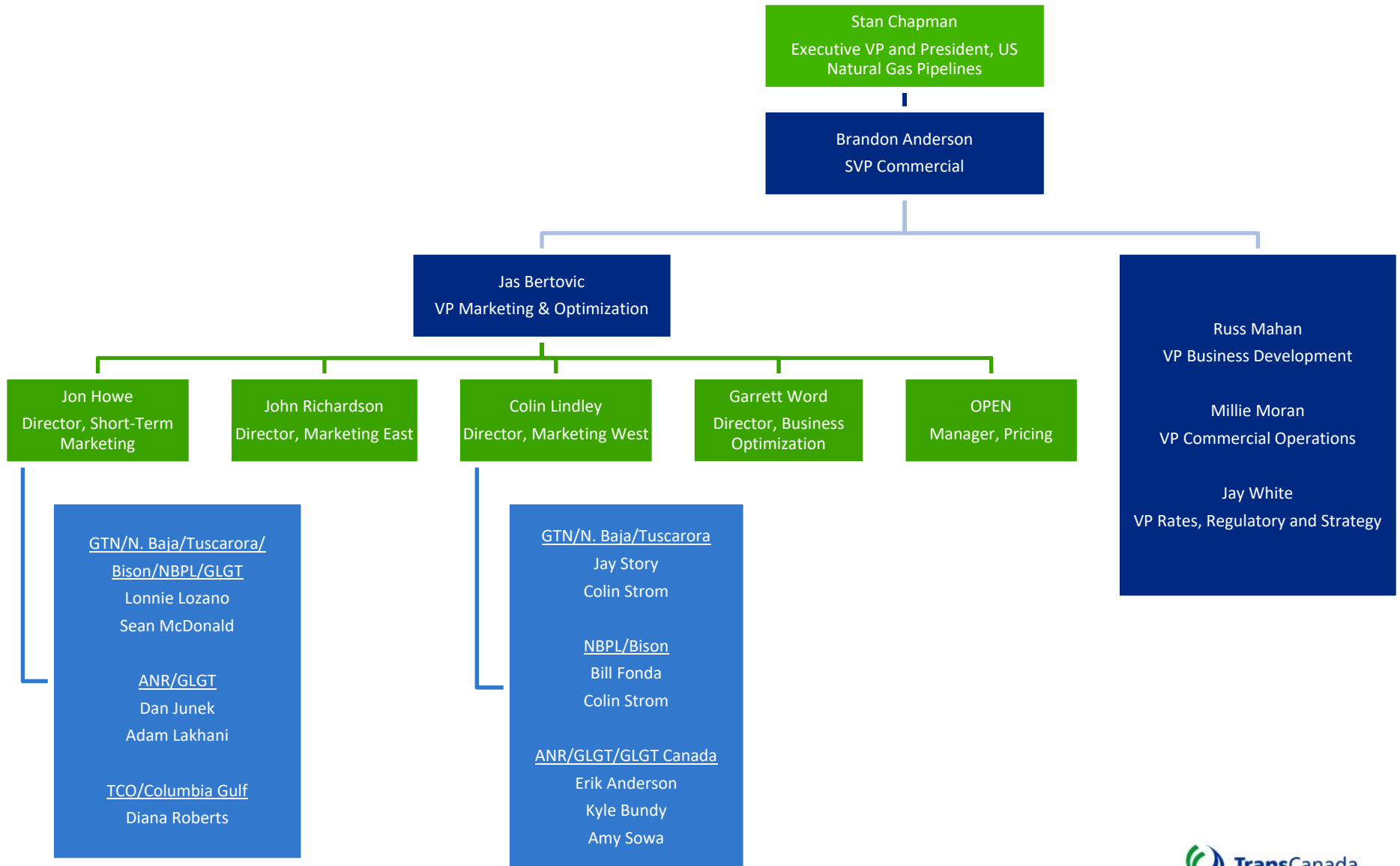
Forward-looking statements do not guarantee future performance. Actual events and results could be significantly different because of assumptions, risks or uncertainties related to our business or events that happen after the date of this presentation. Our forward-looking information in this presentation includes statements related to: future dividend growth, the future growth of our core businesses.

Our forward looking information is based on certain key assumptions and is subject to risks and uncertainties, including but not limited to: our ability to successfully implement our strategic initiatives and whether they will yield the expected benefits, the operating performance of our pipeline and energy assets, economic and competitive conditions in North America and globally, the availability, demand for and price of energy commodities and changes in market commodity prices, the amount of capacity sold and rates achieved in our pipeline businesses, the amount of capacity payments and revenues we receive from our energy business, regulatory decisions and outcomes, outcomes of legal proceedings, including arbitration and insurance claims, performance and credit risk of our counterparties, changes in the political environment, changes in environmental and other laws and regulations, construction and completion of capital projects, labour, equipment and material costs, access to capital markets, interest, inflation, tax and foreign exchange rates, including the impact of U.S. tax reform legislation, weather, cyber security, technological developments and economic conditions in North America as well as globally. You can read more about these risks and others in our Fourth Quarter 2017 Financial Highlights release and 2017 Annual Report filed with Canadian securities regulators and the SEC and available at [www.transcanada.com](http://www.transcanada.com).

As actual results could vary significantly from the forward-looking information, you should not put undue reliance on forward-looking information and should not use future-oriented information or financial outlooks for anything other than their intended purpose. We do not update our forward-looking statements due to new information or future events, unless we are required to by law.

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# TransCanada U.S. Commercial Marketing & Optimization



# Commercial West Export Market Contacts



## Short Term Marketing Contacts

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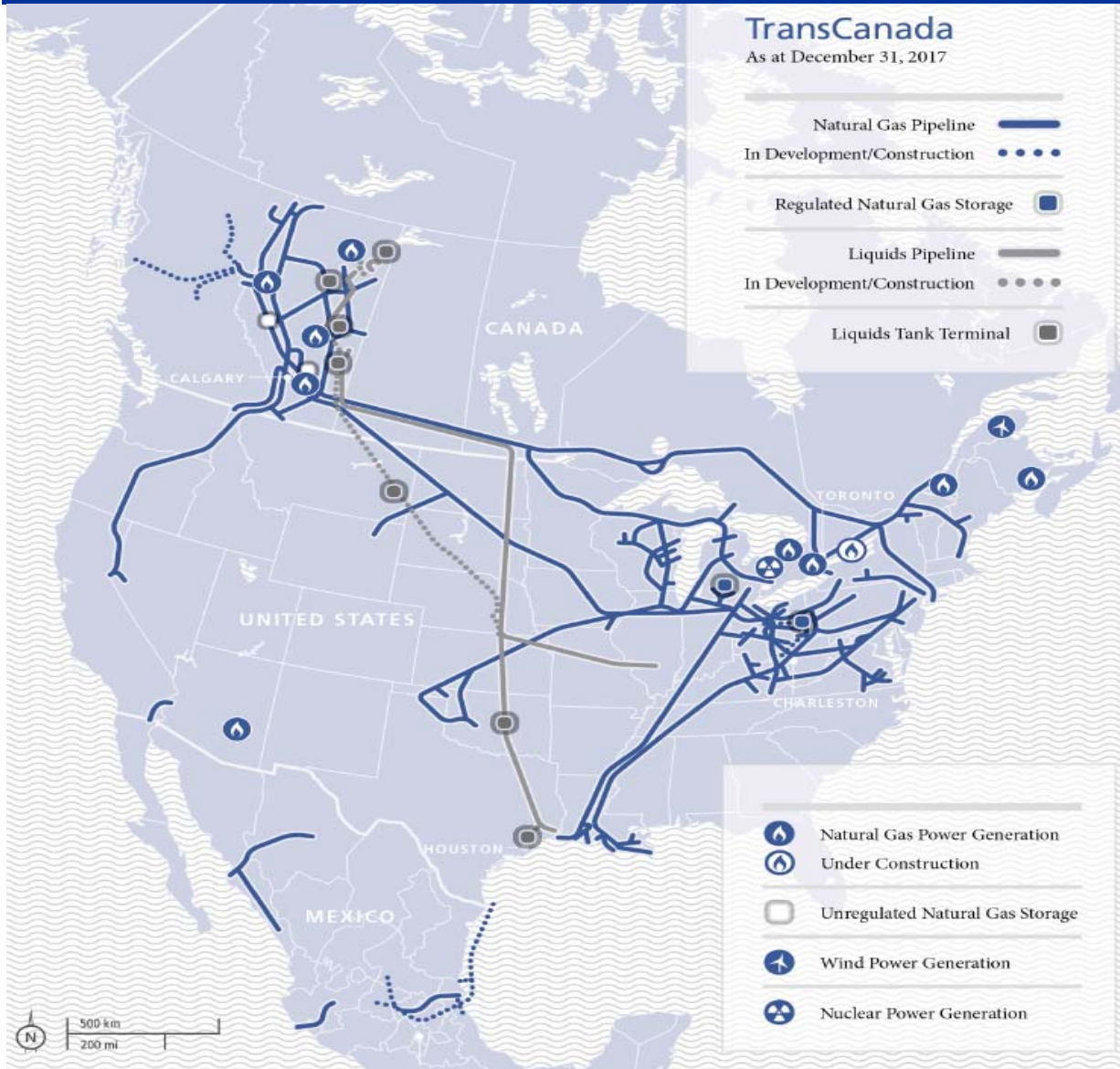
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# TransCanada Today



## One of North America's Largest Natural Gas Pipeline Networks

- ~57,100 miles of pipeline
- ~653 Bcf of storage capacity
- ~23 Bcf/d or 25% of continental demand

## Premier Liquids Pipeline System

- 3,000 miles of pipeline
- 555,000 b/d or 20% of Western Canadian exports

## Large Private Sector Power Generator

- 11 power plants, 6,100 MW
- Primarily long-term contracted assets

## Enterprise Value ~\$100 billion\*

\*\$CAD (2018)



# TransCanada's U.S. Pipeline Assets



## Size and Scale

- ~31,000 miles of pipeline
- ~548 Bcf of storage capacity
- ~20% of all U.S. deliveries
- ~2,800 employees
- Assets across 37 states

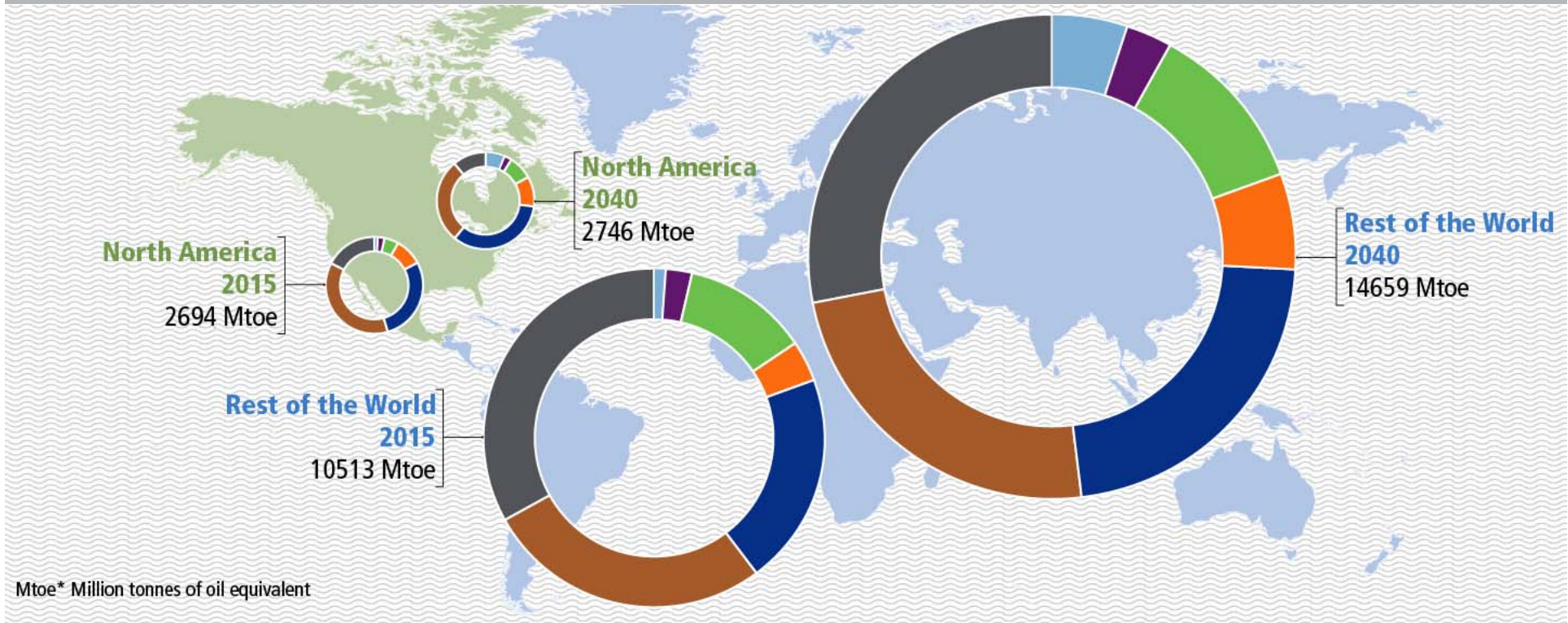
## Strategic Position

- Pre-eminent position in lowest cost supply basins
- Multiple access points to key trading and storage hubs in the Midwest
- Traditional LDC markets across U.S.
- LNG, power generation, and key interconnects
- Iroquois & PNGTS provide strategic connectivity in northeast
- ~40% of TransCanada EBITA from U.S. Gas by 2019

# Global Demand needs for all energy sources will increase through 2040!



Coal
  Oil
  Gas
  Nuclear
  Bio Energy
  Hydro
  Renewables



Mtoe\* Million tonnes of oil equivalent



Source: IEA – World Energy Outlook 2017, New Policies Scenario

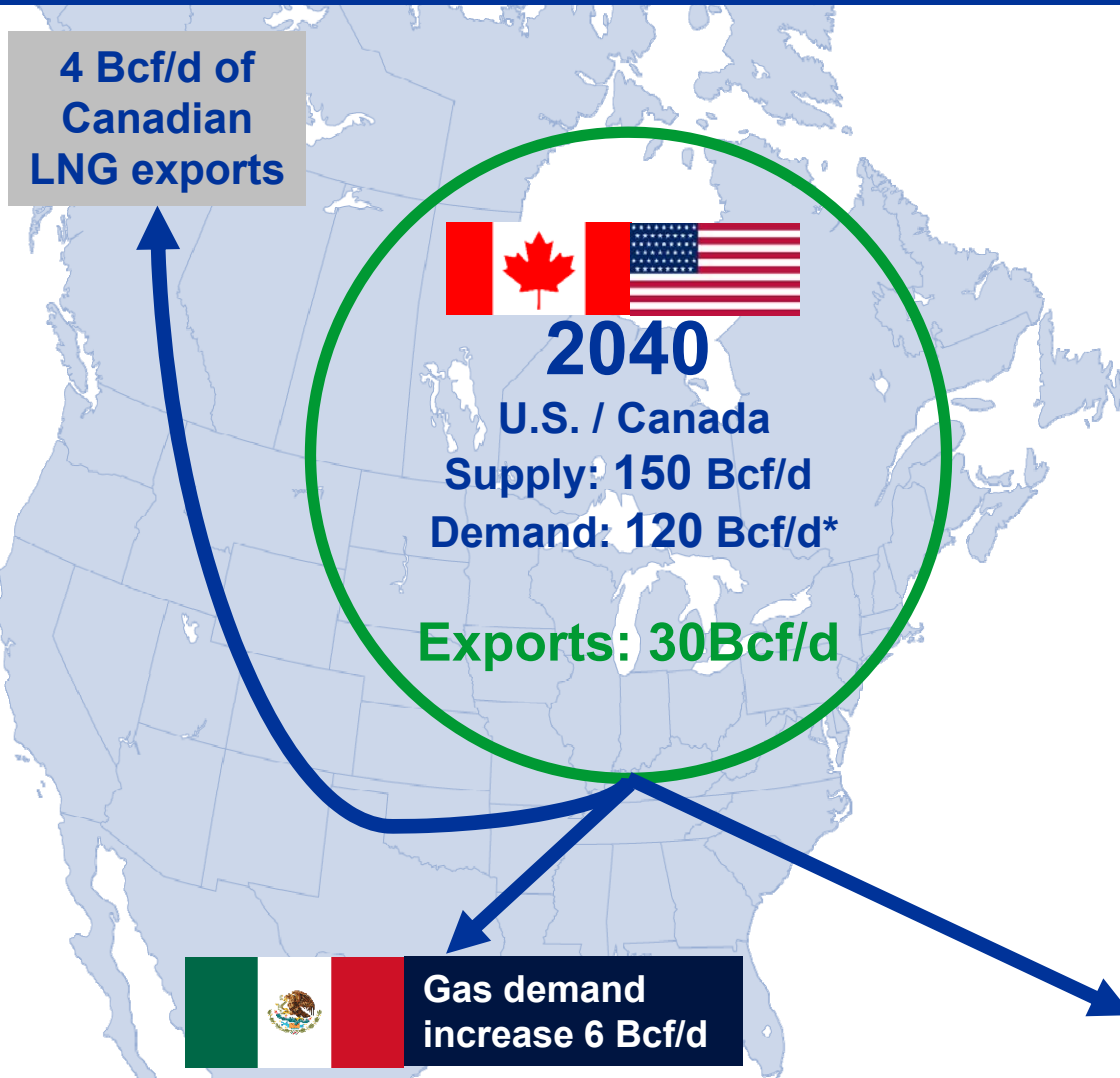
\*Metric tonnes of coal equivalent

For Discussion Purposes – Confidential Communication



# North America

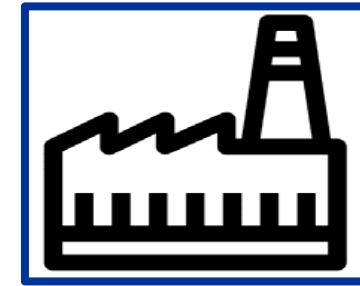
self sufficient and capable of being a global gas player



## North America - Natural Gas Demand Drivers to 2040



8% increase in petrochemical demand



60% increase in gas demand for power



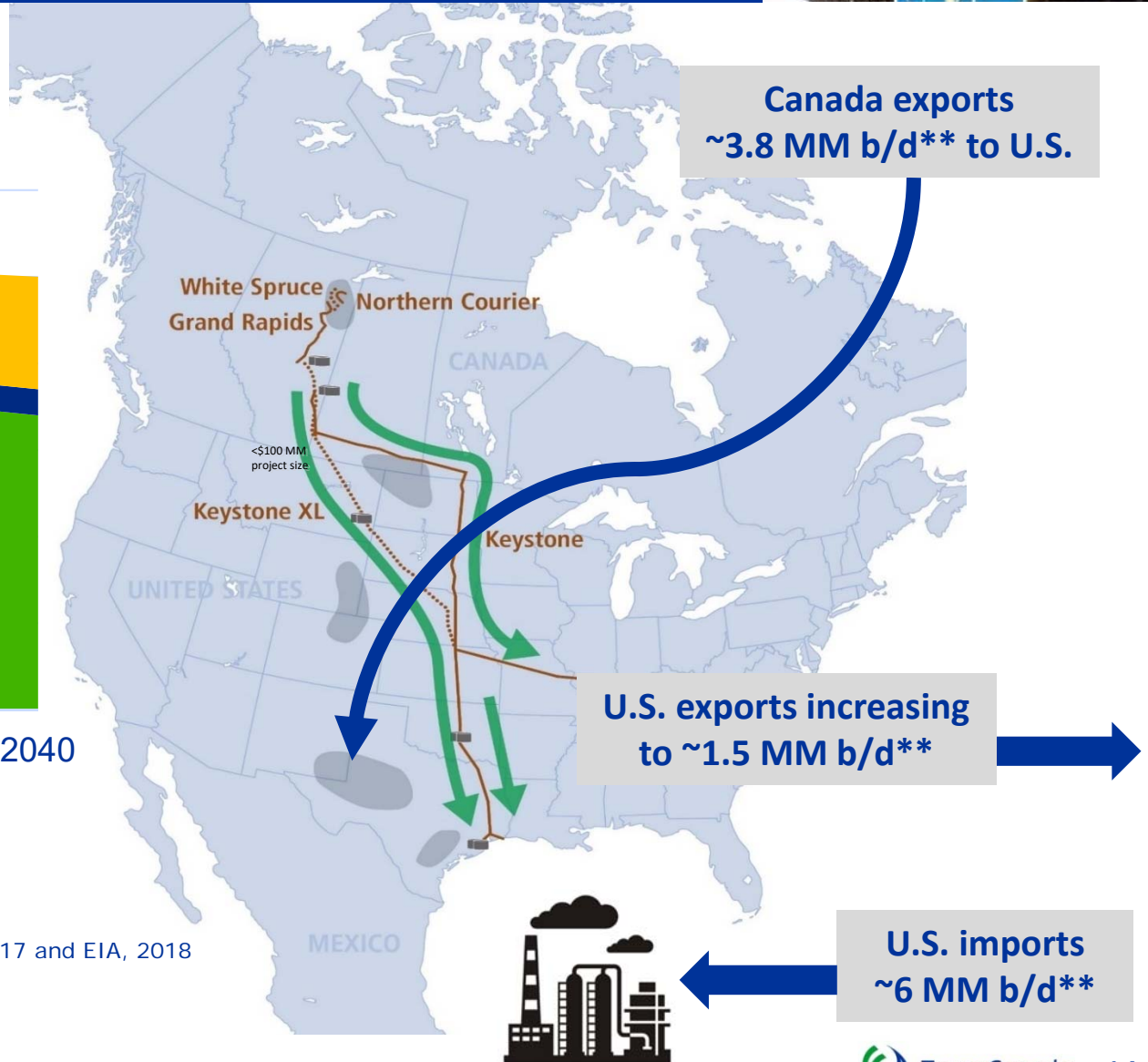
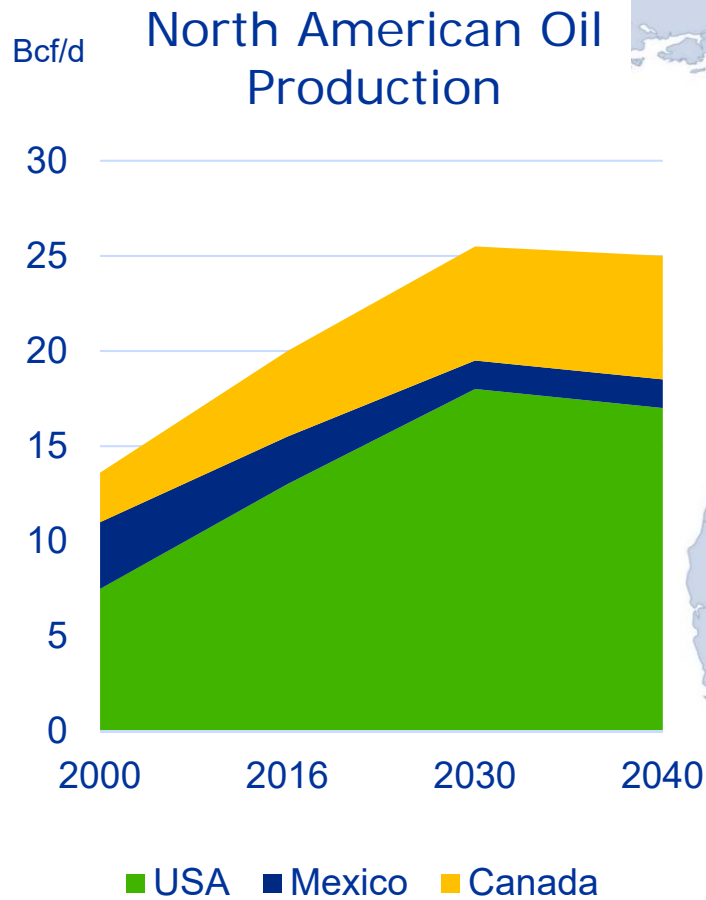
20 Bcf/d of U.S. LNG exports

Source: IHS Markit – Global Planning Scenarios, 2017

\*Does not include exports to Mexico and LNG export demand

# North American Oil Supply

we have the oil supply to be self sufficient



Source: IHS Markit – Global Planning Scenarios, 2017 and EIA, 2018  
 \*Based on 2017 EIA year-end data figures  
 \*\*EIA, January 2018

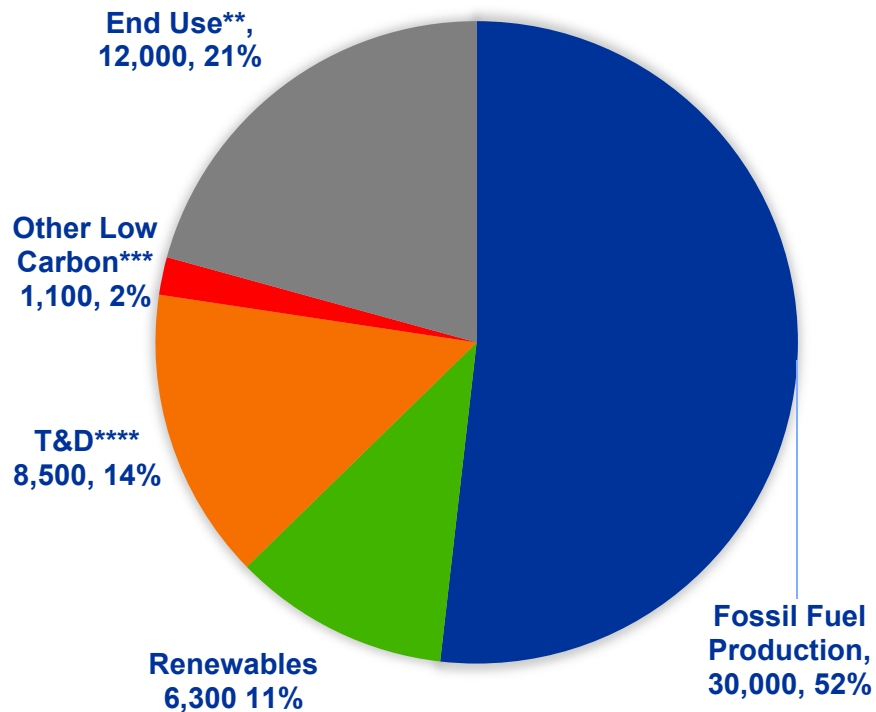
# Global Energy Infrastructure

investment is growing...reaching ~\$60 Trillion by 2040\*



## 2016 North American Investment

### Cumulative Global Investment \$US Billion to 2040



Source: IEA – World Energy Investment 2017, New Policies Scenario

\*\$USD 2016 (Real)

\*\*End use includes energy consumed directly by users

\*\*\*Low carbon includes geothermal, hydro, and tidal

\*\*\*\*Transmission and Distribution



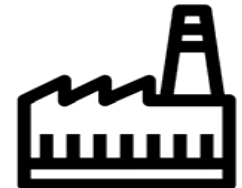
Production

\$120B



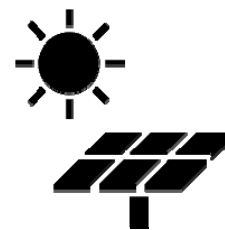
Processing & Pipeline Infrastructure

\$40B



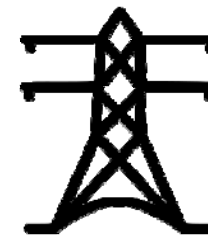
Fossil Fuel Generation

\$12B



Renewable Generation

\$60B



Transmission & Distribution

\$60B

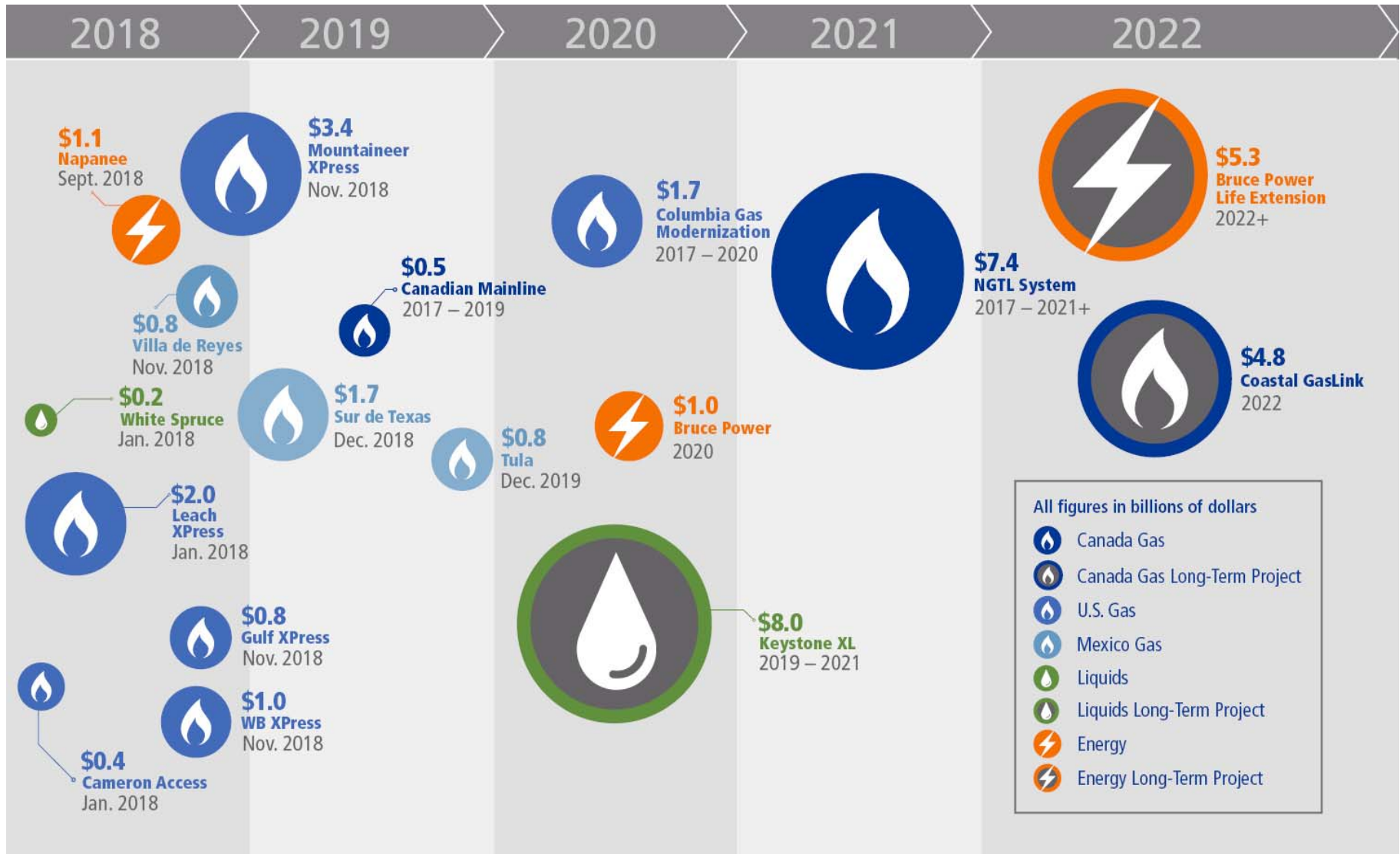


Energy Efficiency

\$50B

# TransCanada

## investment in indispensable infrastructure





# Industry & Societal Trends



## Rapid Technological Change

- Shifting market dynamics and consumer preferences
- May displace existing technology and upend markets
- Impacts long-term investment decisions



## Opposition

- Rising concerns about safety and environmental impacts are adding time, uncertainty and cost to project development
- Implies the need to strive for zero incidents



## Regulatory Change

- Lengthening approval timelines and changing regulatory expectations
- Jurisdictional disputes and litigation
- Canada and U.S. bifurcation

# Conclusions and Questions



**Global demand for energy and all fuels will increase!**

**Policy, innovation, opposition and access to capital will determine if we can win.**



**Investment in energy infrastructure will grow...**



**North America has the opportunity to be the global supplier of energy!**





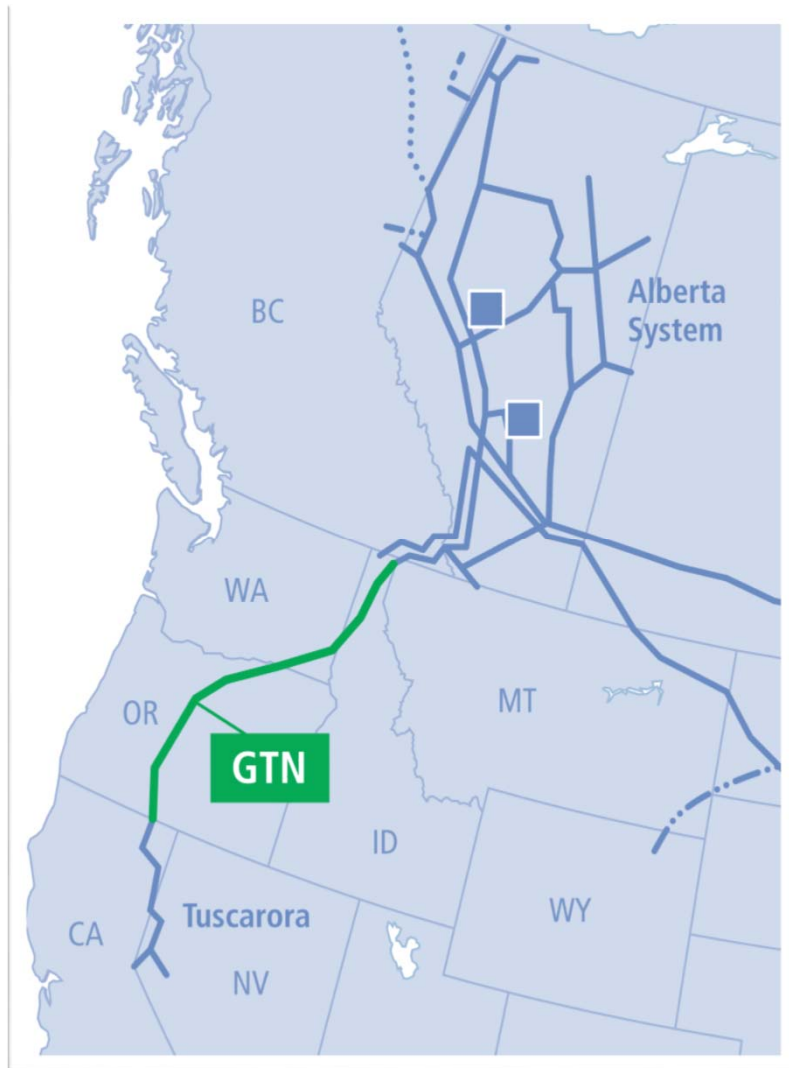
# Commercial Update



- **North American Supply & Demand**
- **Forecasted Supply & Southern Demand**
- **Potential Market Demand**
- **AECO Dispatch**



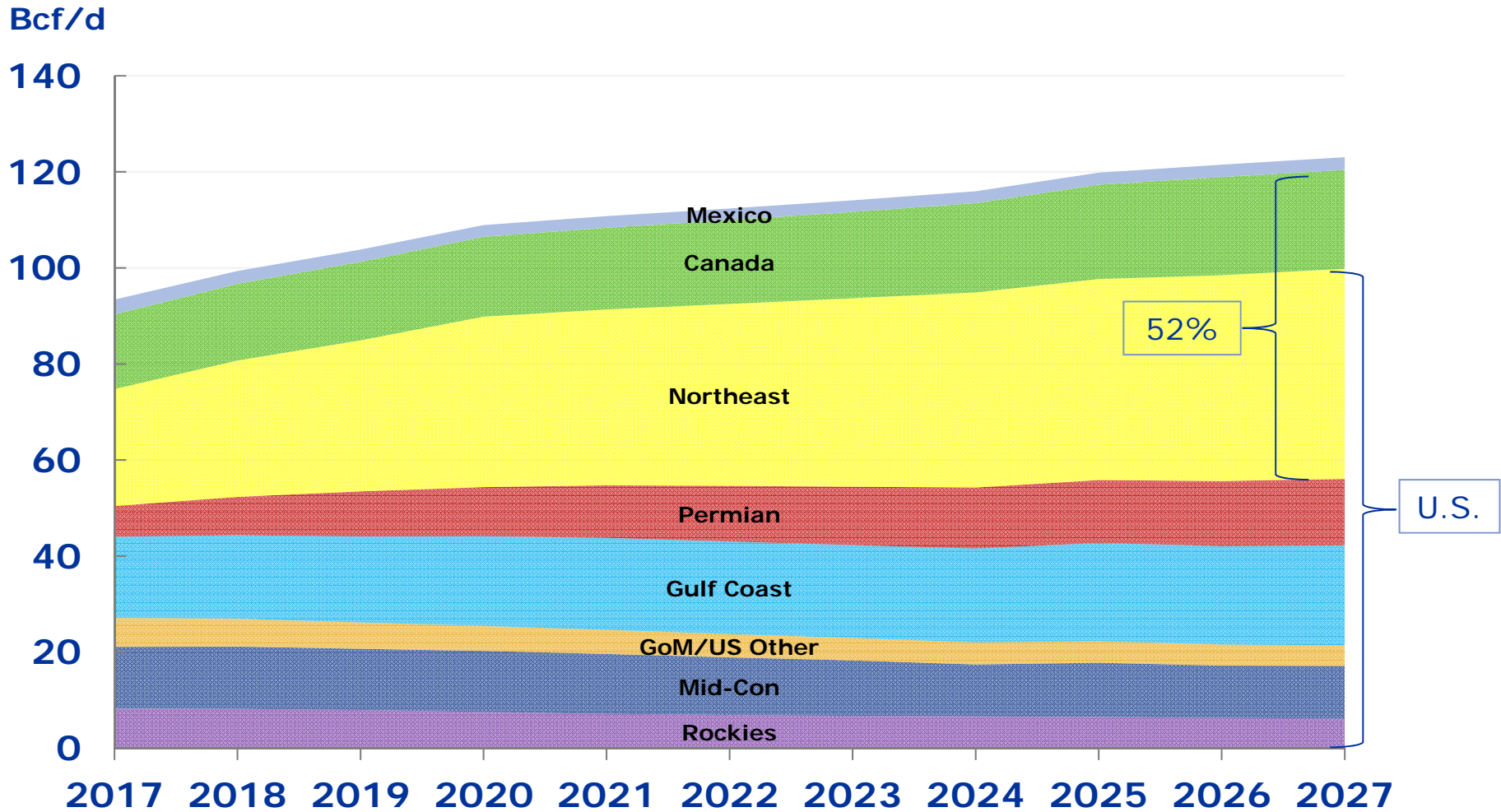
# GTN Overview



- Positioned to serve markets throughout California, Nevada, and the Pacific Northwest
- Consists of 1,350 miles of pipeline
- Long-term contracts extending out as far as 2039
- Volume throughput continues to be strong and should continue to grow
- NGTL continues to address the export capability at ABC to bring capacities into alignment



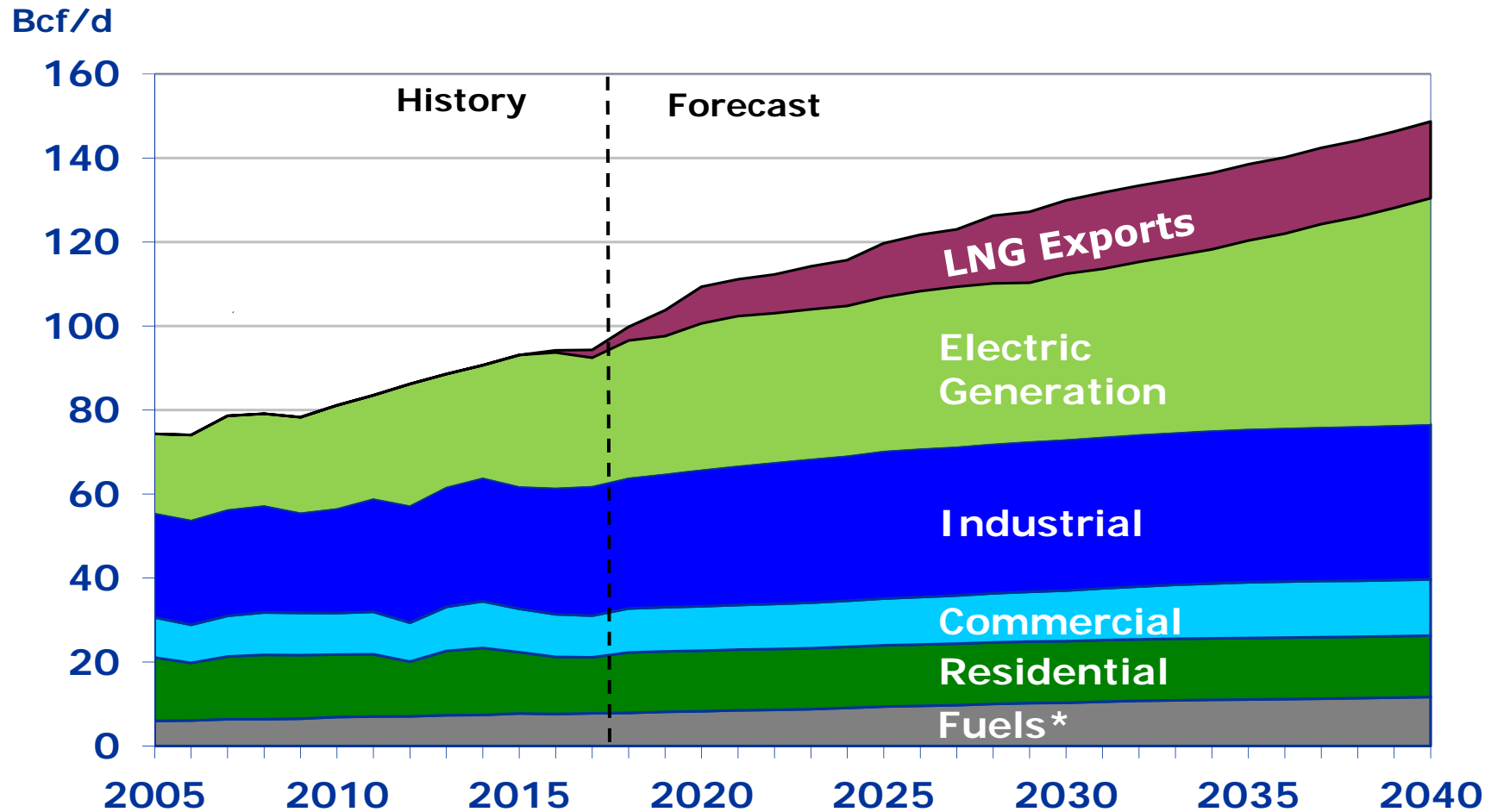
# North American Supply



**Appalachia and Canada will account for 52% of production by 2027**



# North American Natural Demand



Source: TransCanada

\* Includes Lease, Plant, Pipeline & LNG Facility Fuels

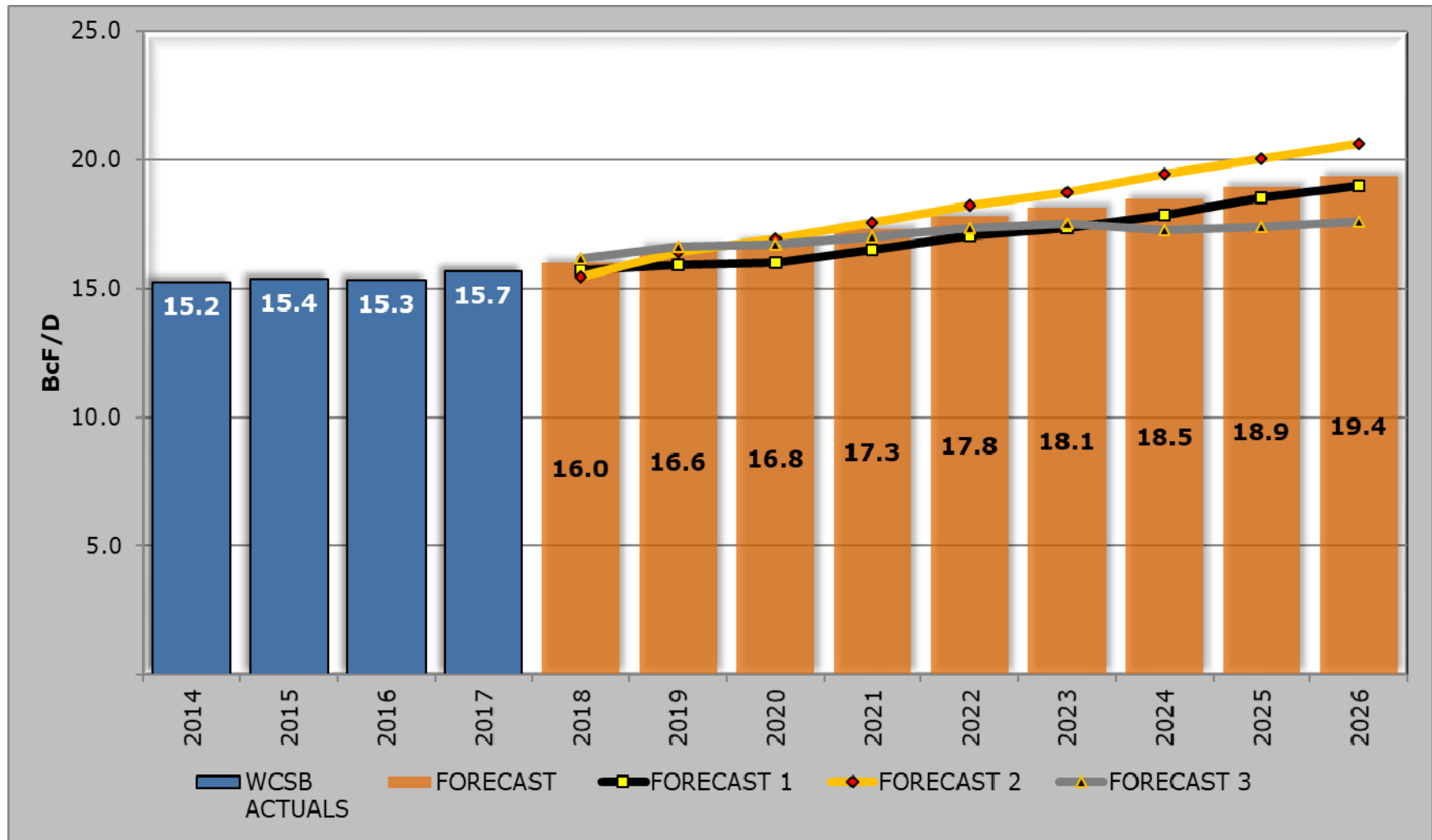
**29 Bcf/d of Demand Growth Over the Next Decade Driven by LNG Exports, Gas-fired Power Generation and Industrial Demand**

For Discussion Purposes – Confidential Communication



## Forecasted Supply and Southern Demand

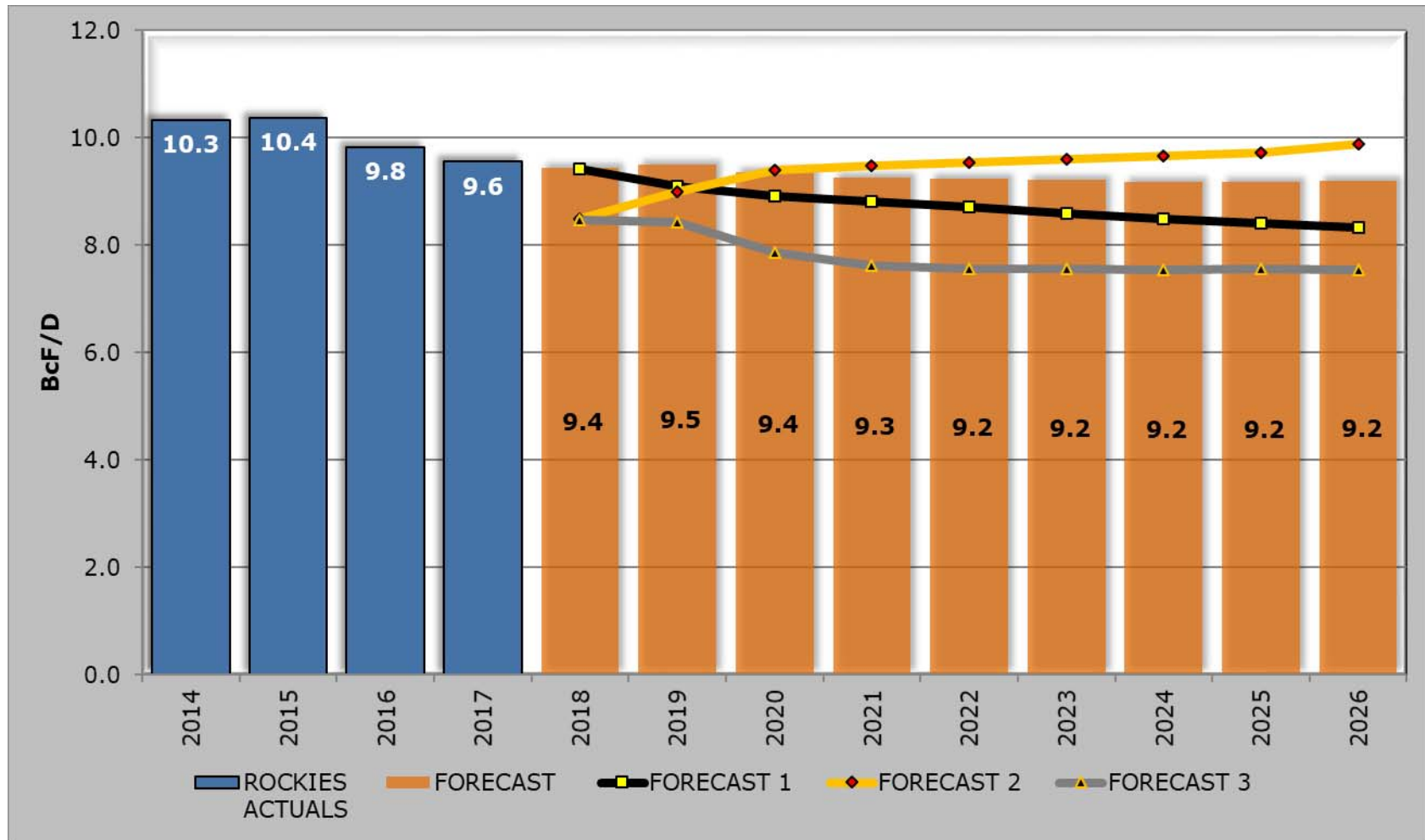
# Western Canadian Production (Bcf/d)



Source: Point Logic Energy and Outside Consultants

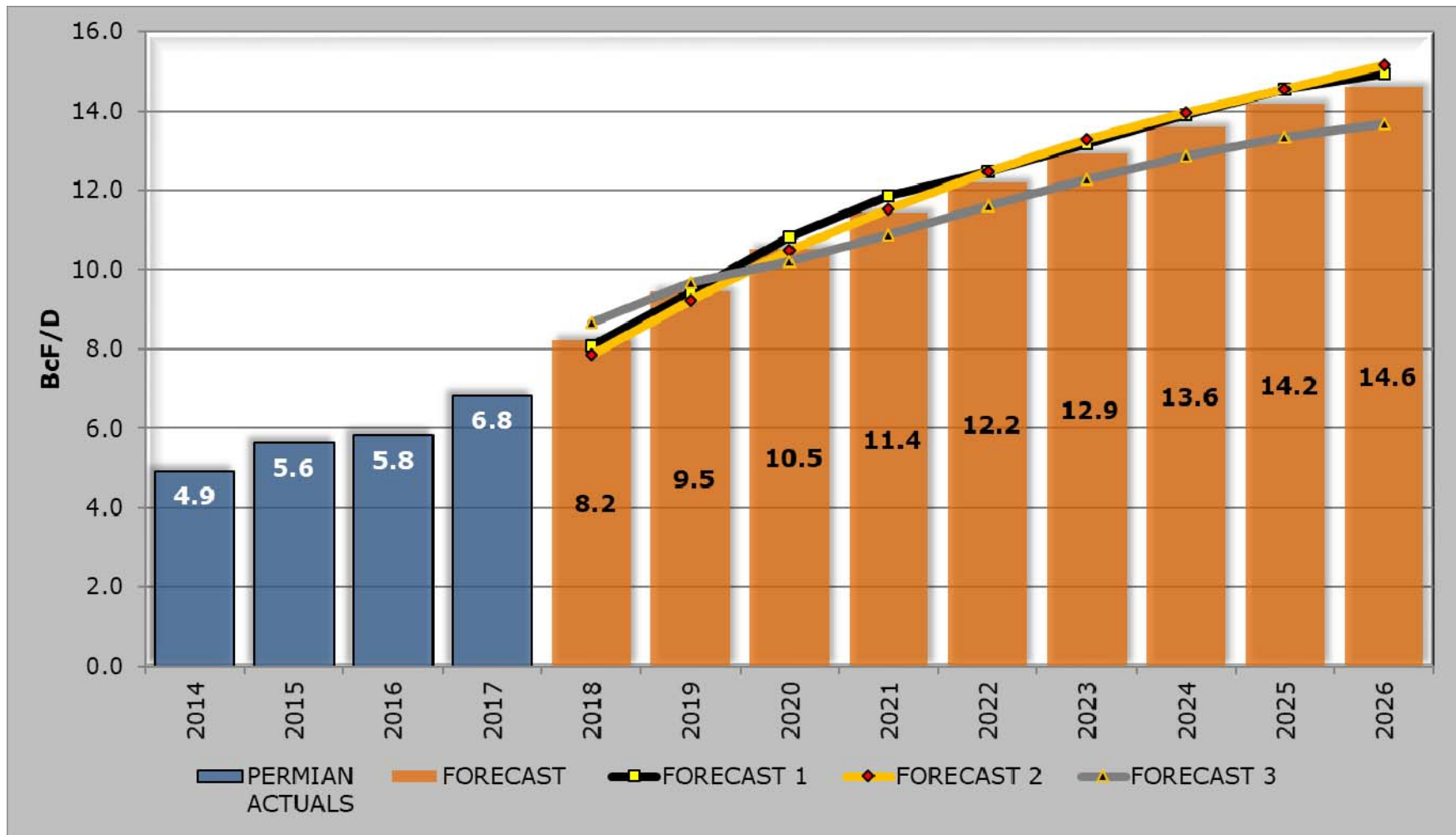


# Rockies Production (Bcf/d)



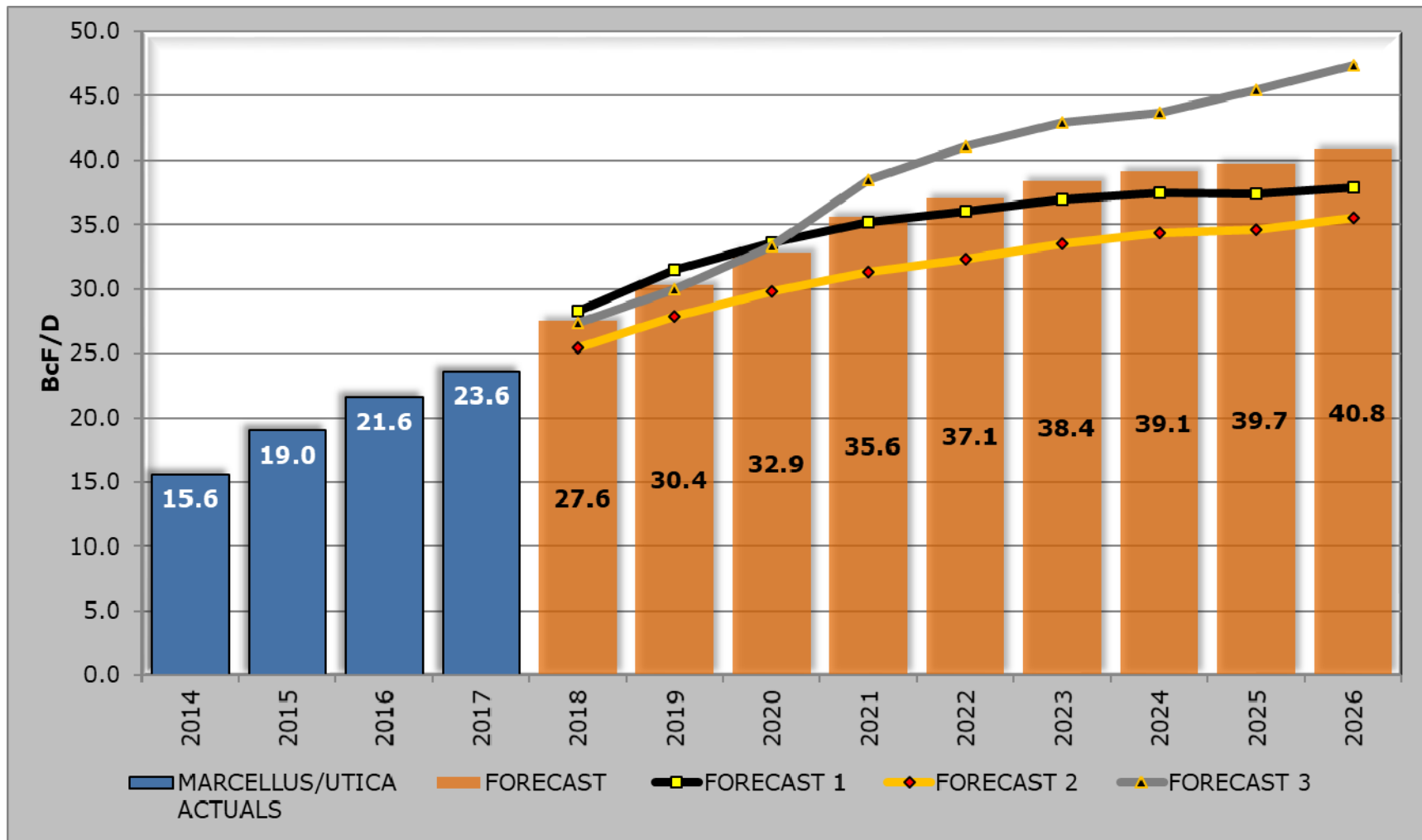
Source: Point Logic Energy and Outside Consultants

# Permian Production (Bcf/d)



Source: Point Logic Energy and Outside Consultants

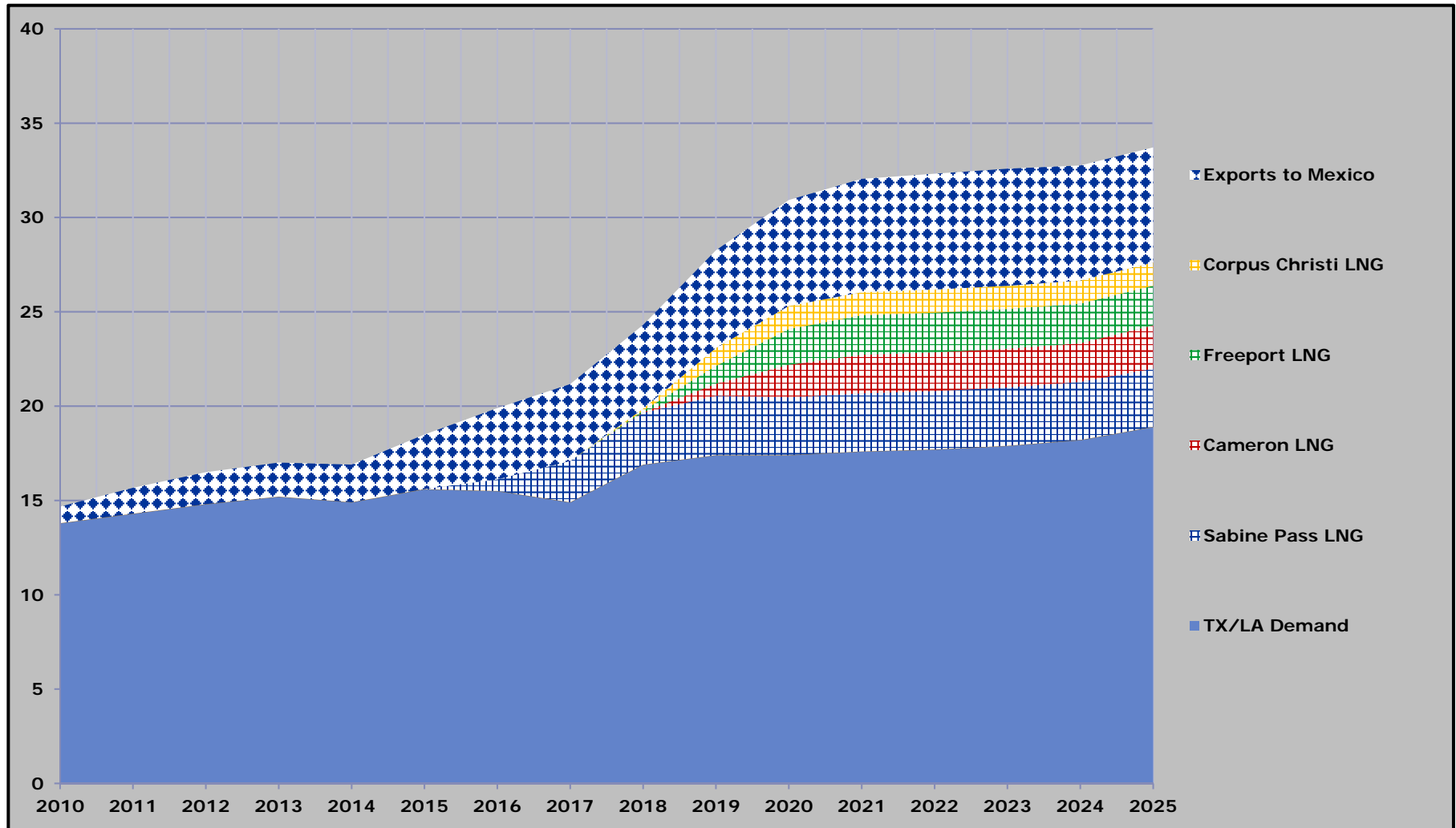
# Marcellus & Utica Production (Bcf/d)



Source: Point Logic Energy and Outside Consultants



# Southern Demand Pull (Bcf/d)



Source: Wood Mackenzie



## Potential Demand Projections

# GTN

## Potential Demand Projections



- **Northwest Innovation Works (NWIW)**

- Developing a 10,000 metric tonne per day methanol plant in Kalama, WA
- Other Pacific Northwest sites identified and under control of NWIW
- In final phase of permitting at Kalama site
  - All state permits in hand, but pending Supplemental Environmental Impact Statement
  - Primarily focused on a life cycle analysis of greenhouse gas impacts
  - Expected completion of Supplemental EIS is September 2018
  - FID expected first half of 2019
  - COD mid to late 2022

- **Jordan Cove & Pacific Connector**

- Developer has commercial agreements with Jera Co. Inc. (1.5+ mtpa) and Itochu Corp. (1.5 mtpa)
- Submitted FERC 7c application September 21, 2017
- 1 Bcf/d facility with final investment decision in the first half of 2019
- Target in-service date is late 2022 for the pipeline and the end of 2023 for the LNG terminal

- **Trail West Pipeline**

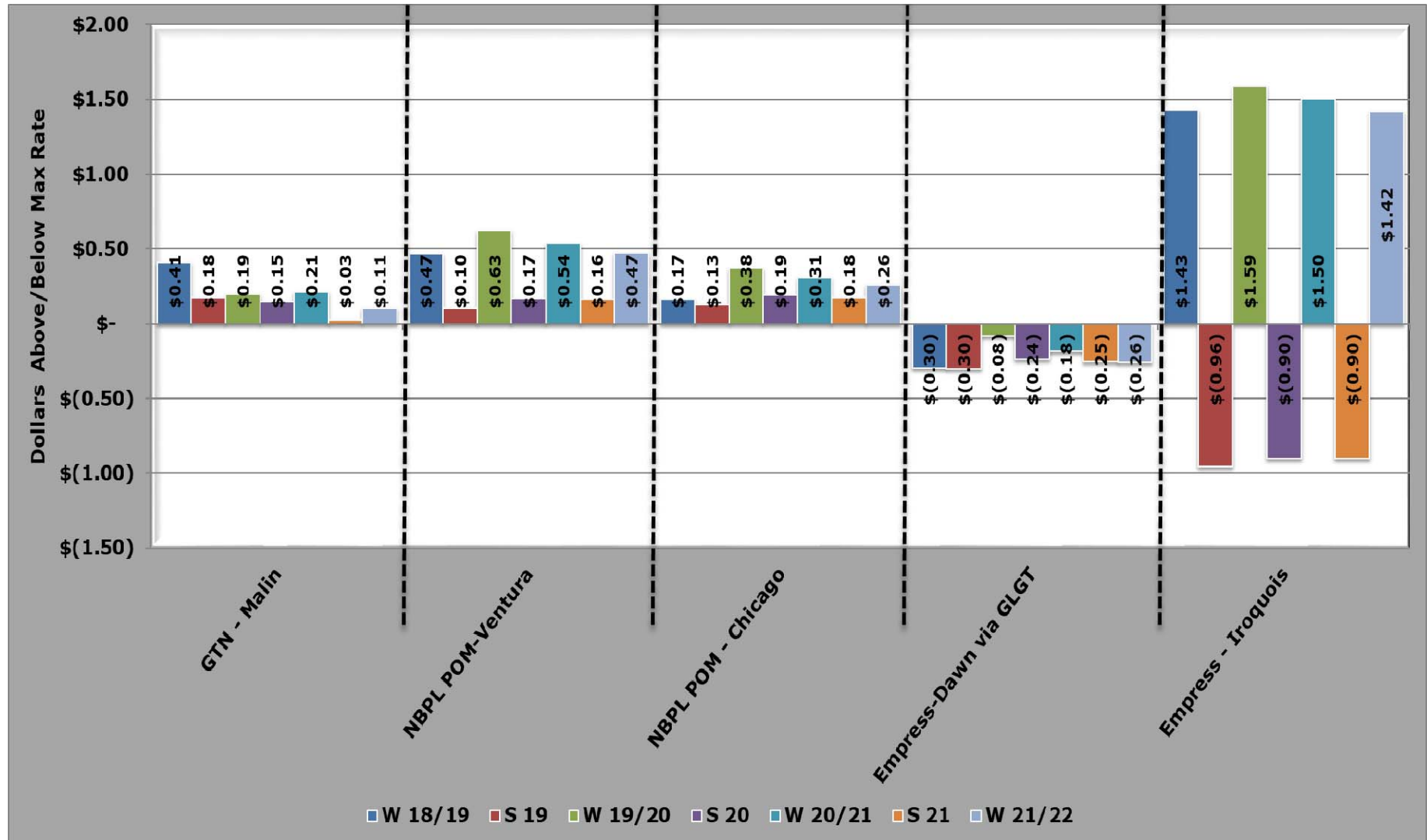
- Cross Cascades link to serve growing power/industrial demand along the I-5 corridor
- Expansion up to approximately 750,000 Dth/d
- Expected in service date of 2023





# Alberta Export Outlook – 3 Year Dispatch

# Full Cost AECO Dispatch







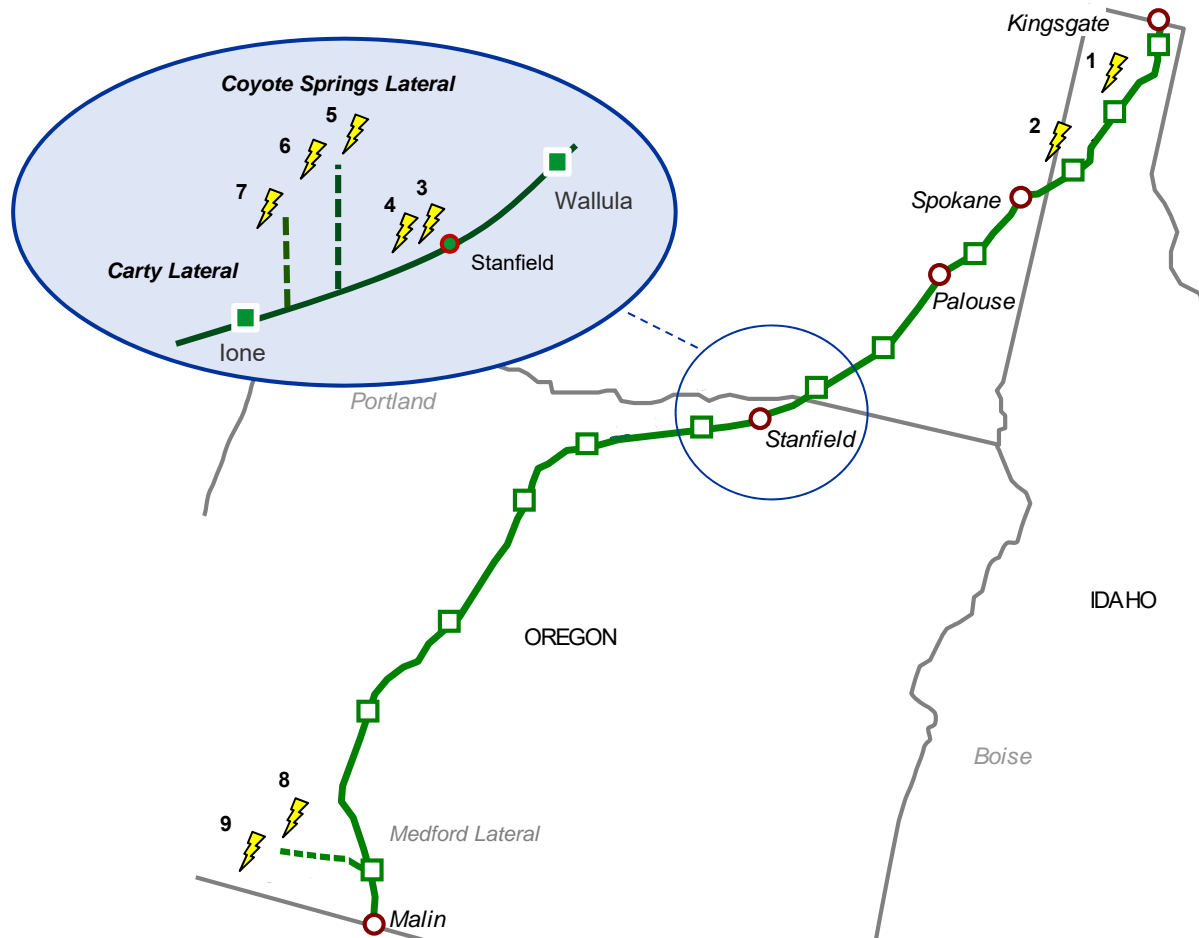
## Operational Notes - 2017



- **GTN experienced its Peak Day on December 20<sup>th</sup>, 2017 with physical deliveries totaling 2.54 MMDth.**
- **Tuscarora experienced its Peak Day on March 2<sup>nd</sup>, 2018 with physical deliveries totaling 211 MDth.**
- **North Baja experienced its Peak Day on November 10<sup>th</sup>, 2017 with physical deliveries totaling 526 MDth.**



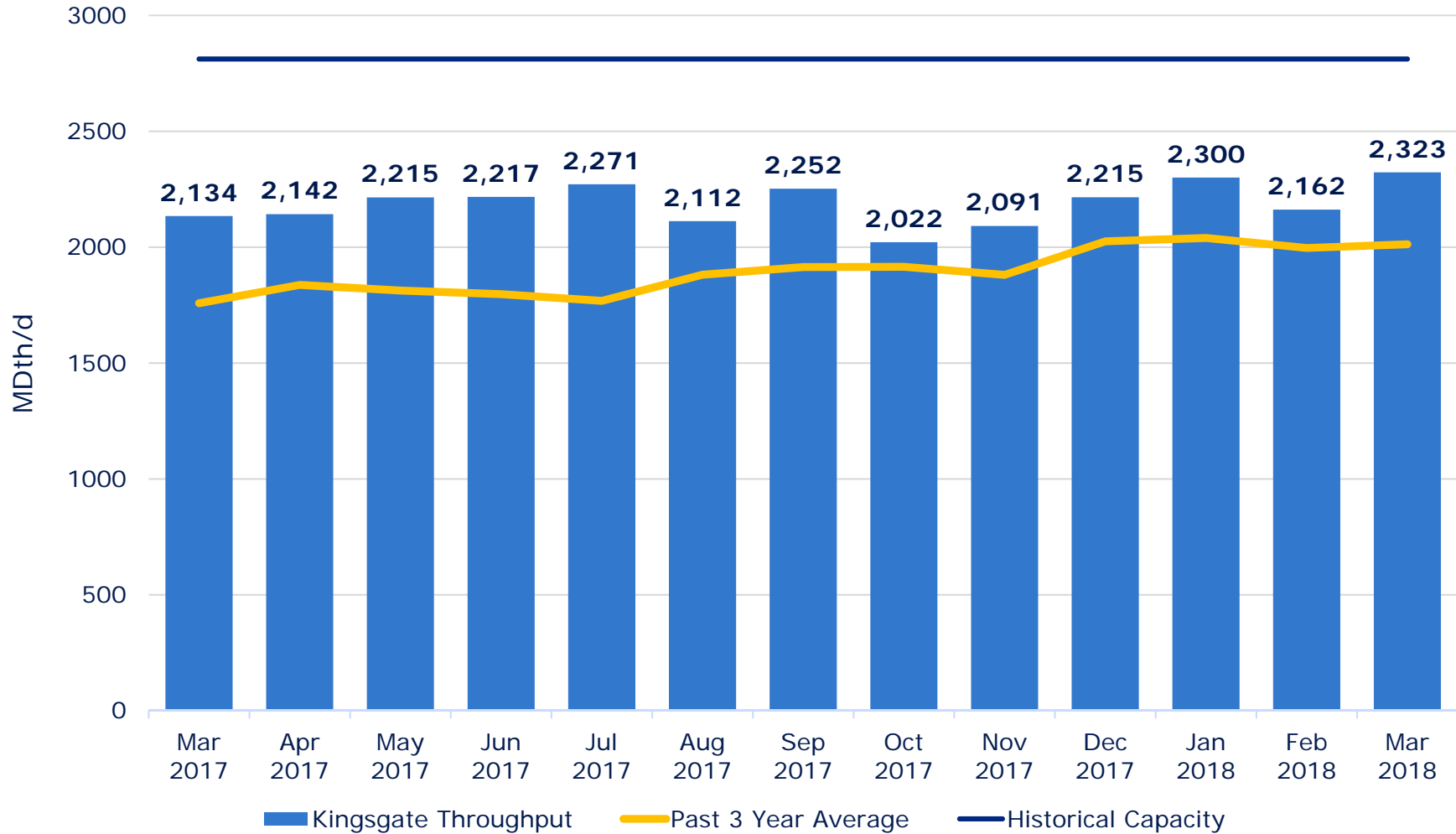
# Gas Transmission Northwest



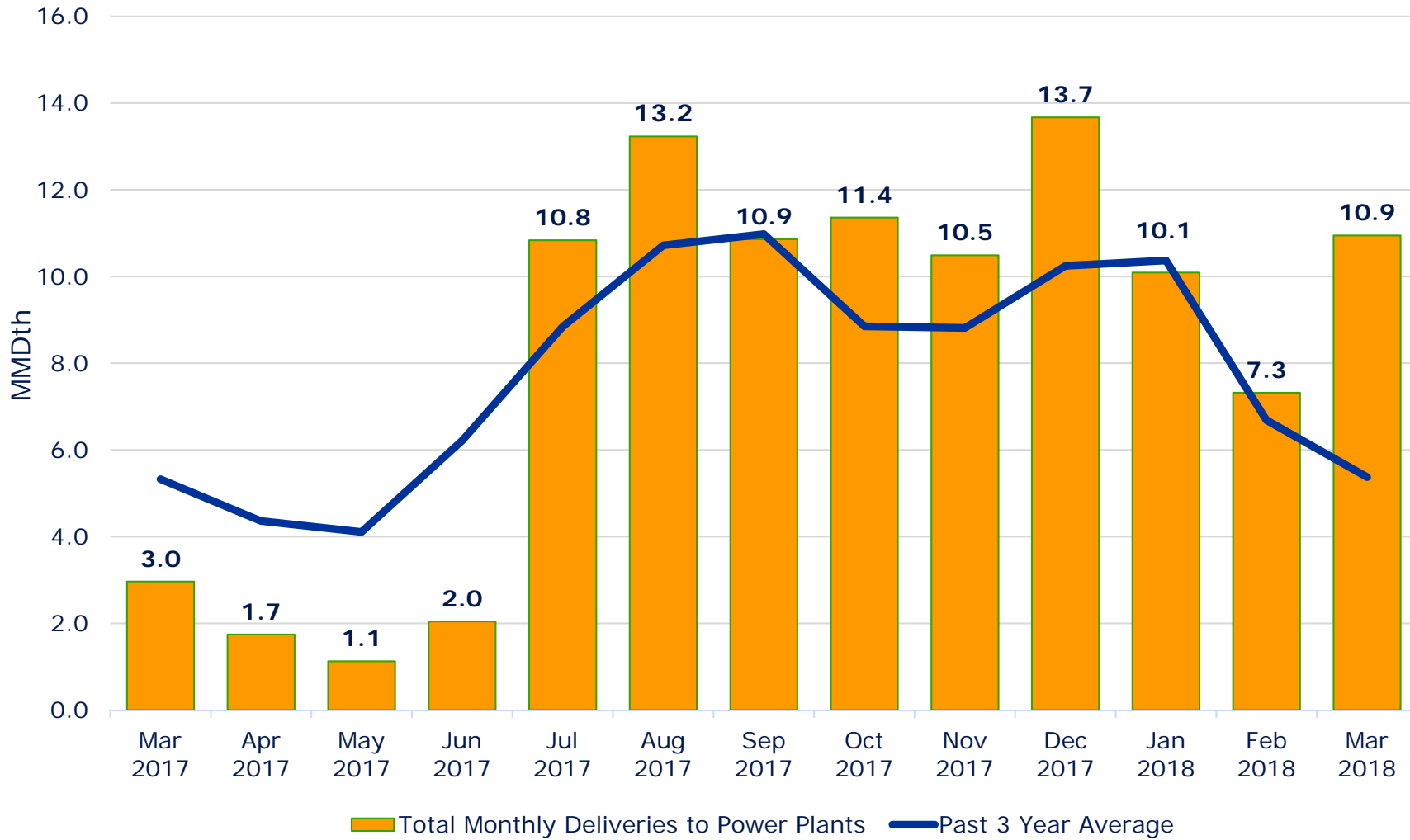
- Power Plants**
1. Lancaster LLC
  2. Rathdrum CT
  3. Hermiston Power
  4. Hermiston Generating
  5. Coyote Springs I
  6. Coyote Springs II
  7. Carty Generating
  8. Klamath Cogen
  9. Klamath Expansion

- Legend**
- Power Plant
  - Compressor Station
  - Major R/D Point

# GTN System Throughput

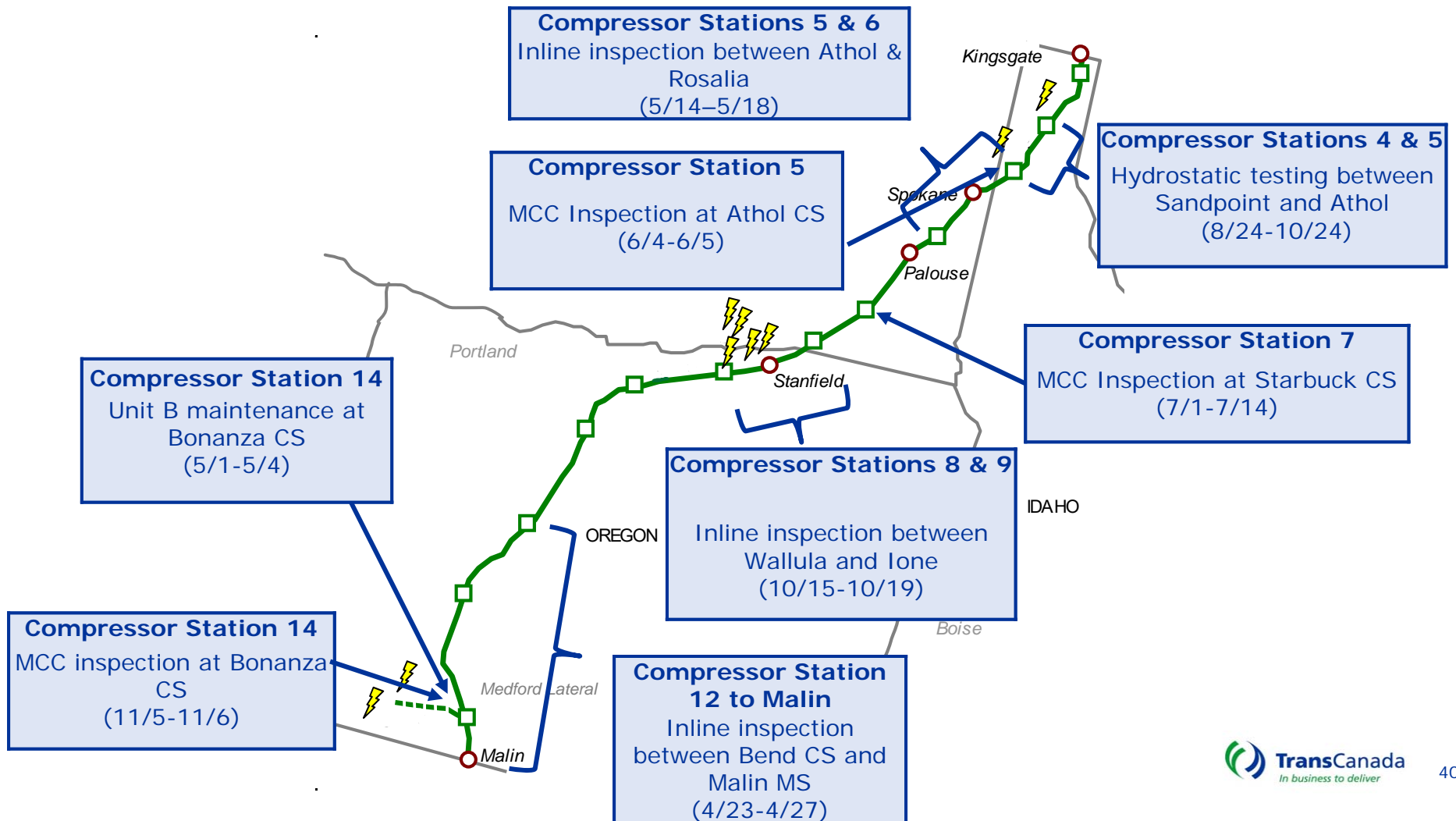


# GTN Monthly Power Loads



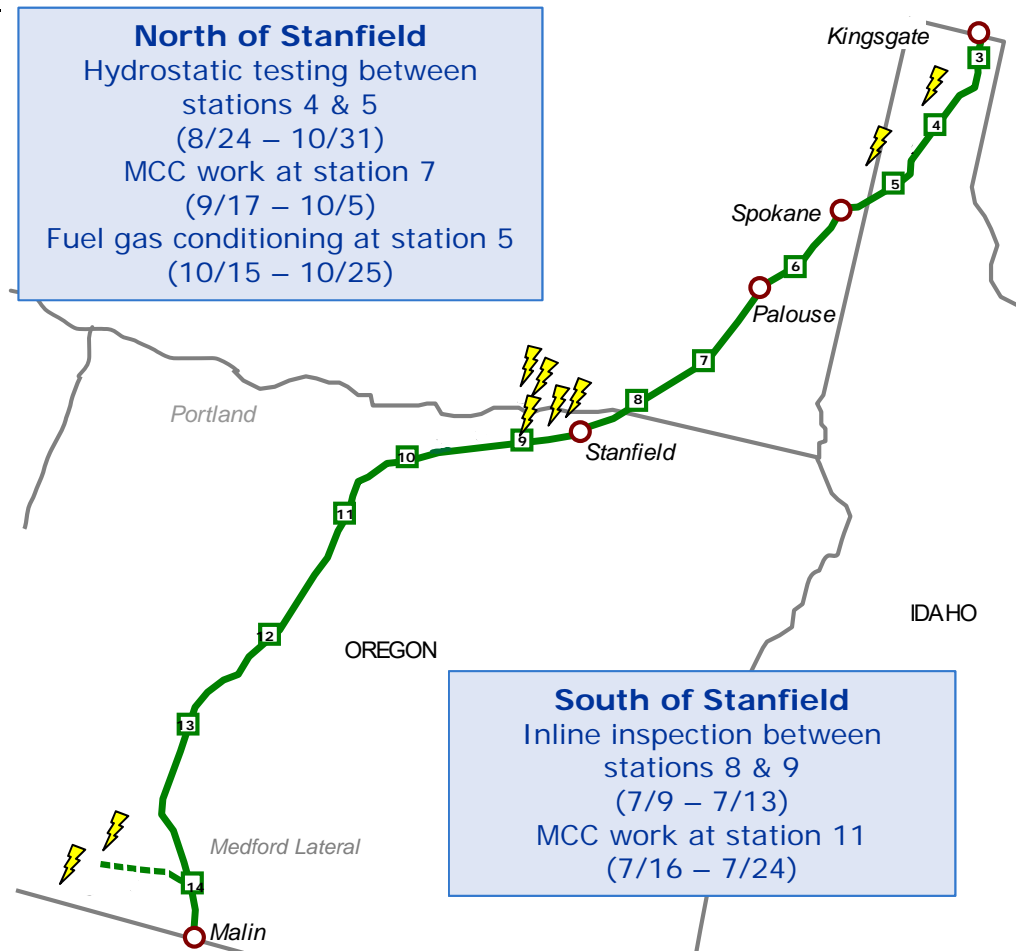
# 2018 Maintenance Schedule

## Gas Transmission Northwest

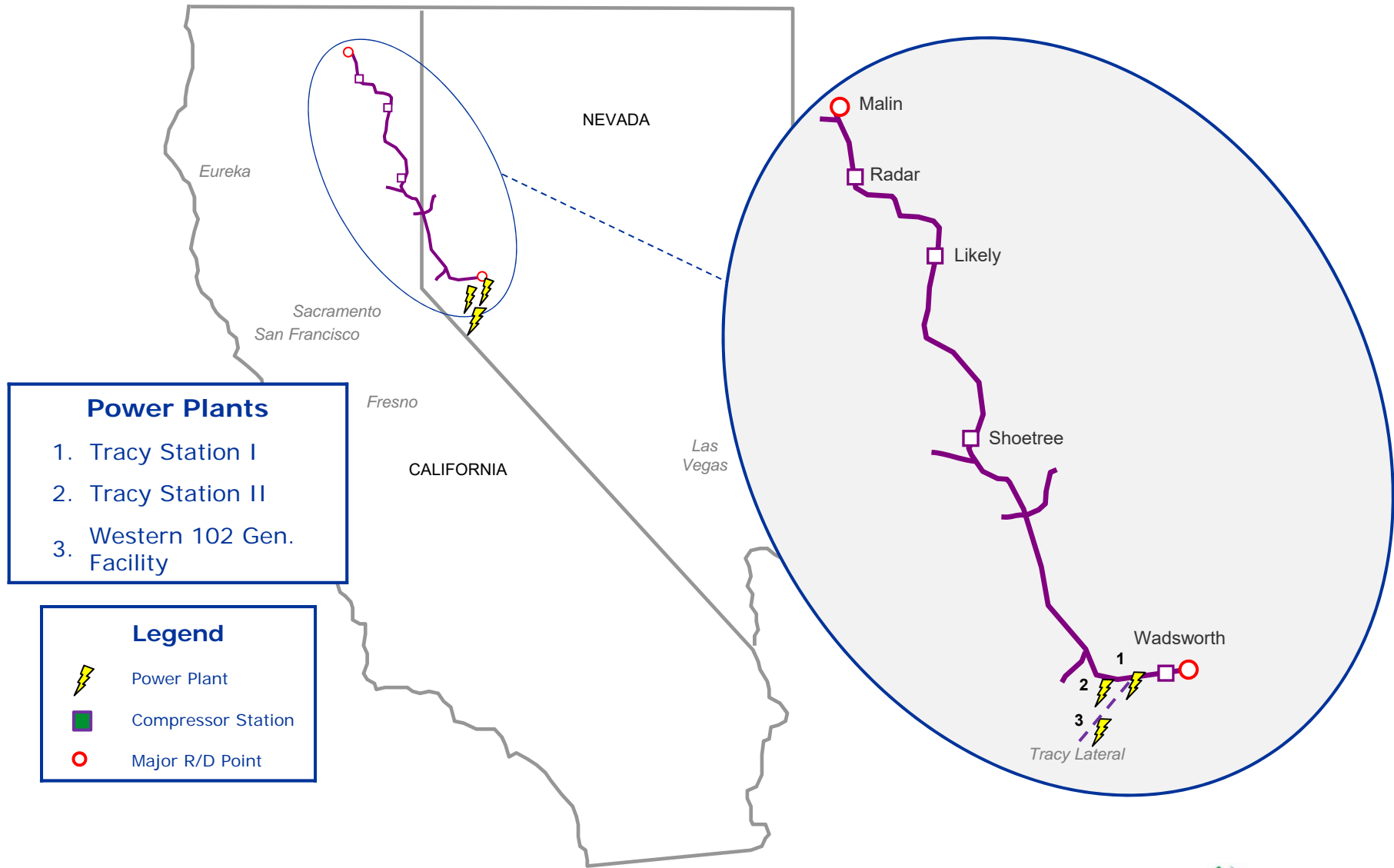




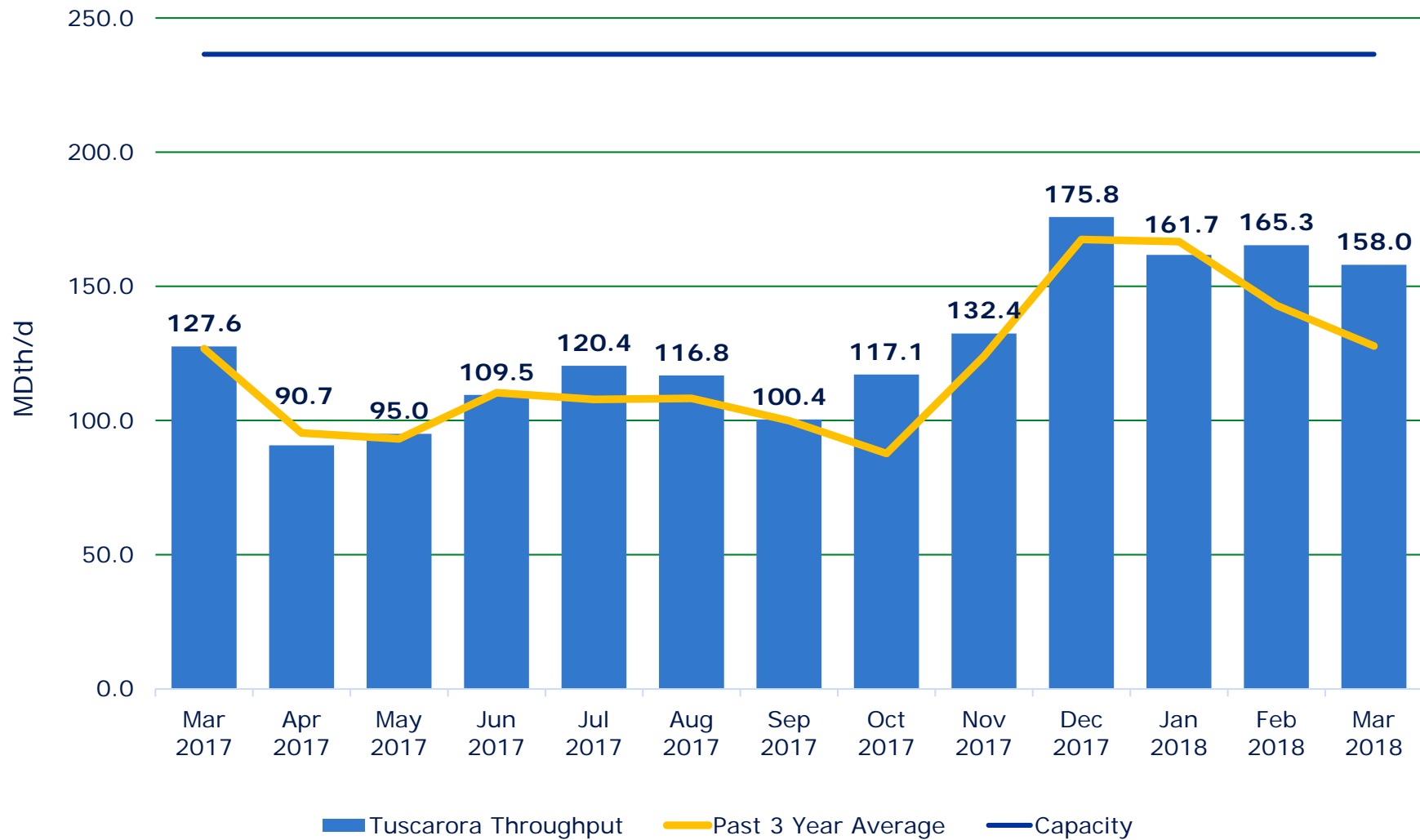
# 2018 – Remaining Maintenance Gas Transmission Northwest



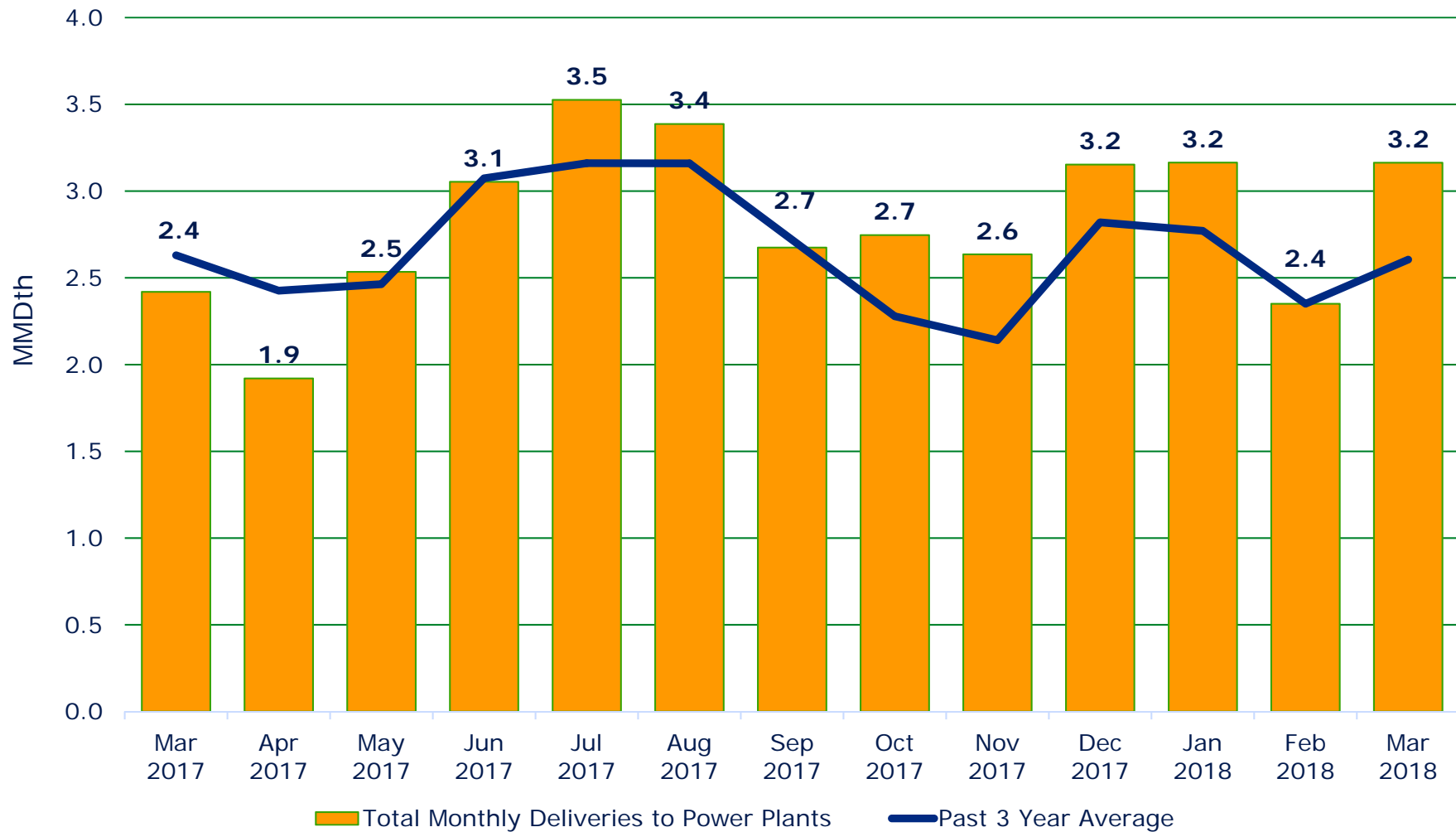
# Tuscarora Transmission System



# Tuscarora System Throughput

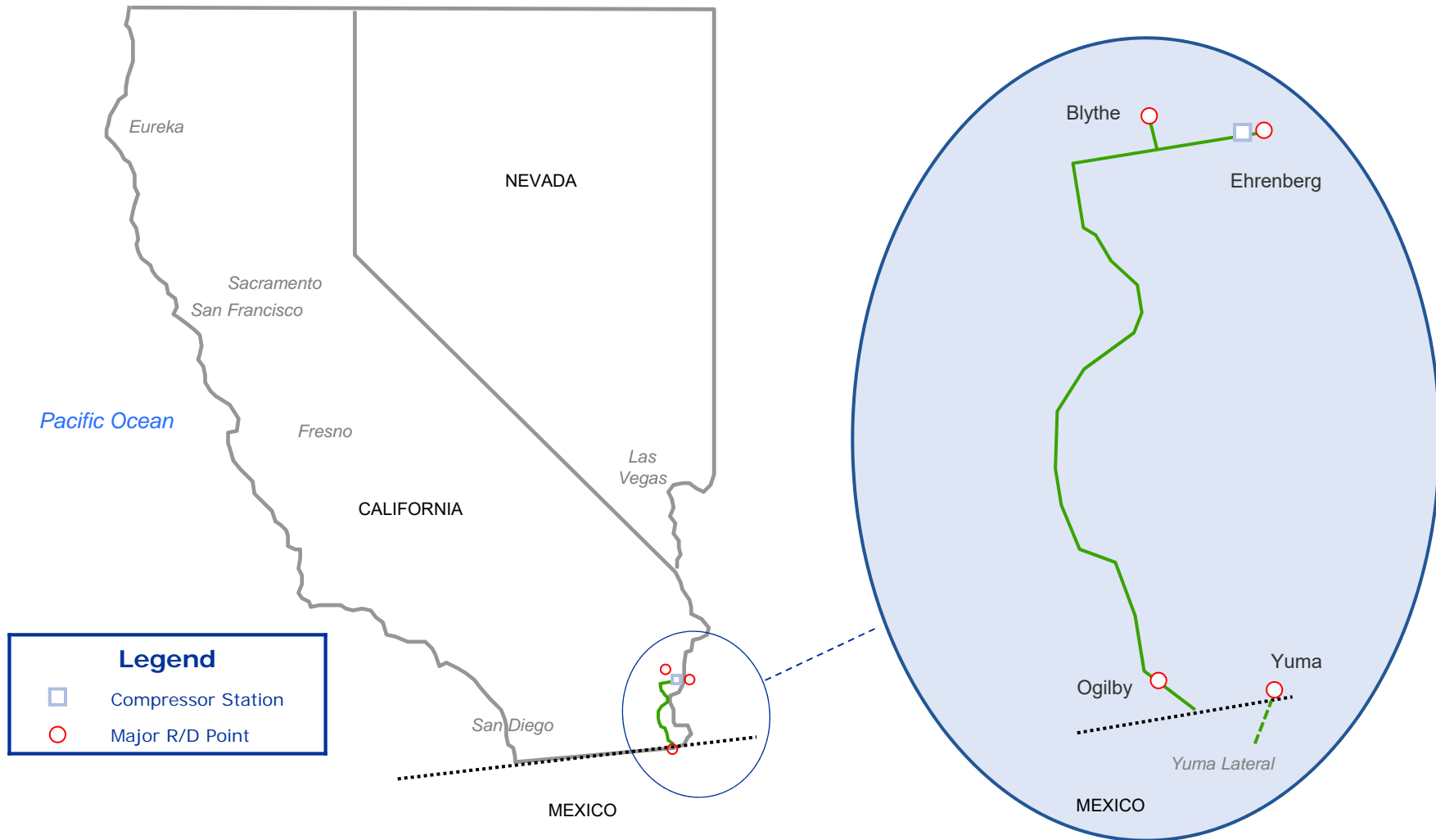


# Tuscarora Monthly Power Loads

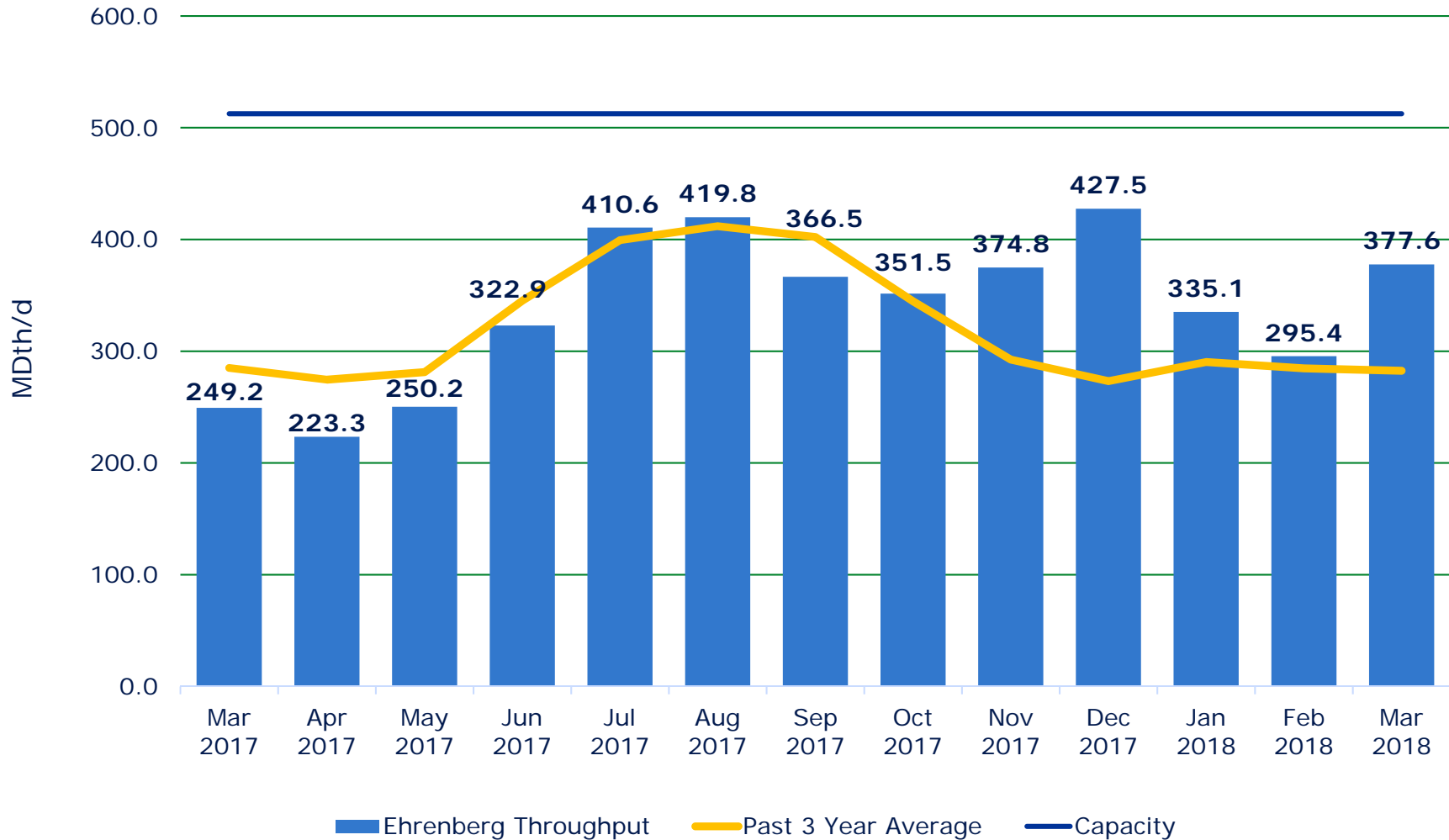




# North Baja Pipeline System



# North Baja System Throughput



## 2018 – Remaining Maintenance Tuscarora & North Baja



- **There is no maintenance scheduled that will impact capacity in 2018.**





## Current State of Affairs



- **Uncontested settlement filed with FERC in April 2015**
- **Current rate = 12.4% reduction from pre-settlement rates through December 2019**
- **Further 8.1% rate reduction at Jan 1, 2020**
- **Post-Settlement Developments**
  - Upstream debottlenecking has improved contracting on system
  - Necessitates modernization of system – review of scope underway
  - Federal tax rate change and related FERC issuances
- **New filed rates to be effective no later than Jan 1, 2022**

## March 15, 2018 FERC Orders



- 1. Docket No. PL17-1, Revised Policy Statement on Treatment of Income Taxes:** FERC states that it will no longer permit an MLP to recover an income tax allowance in its cost-of-service
- 2. Docket No. RM18-11, Rate Changes Relating to Federal Income Tax Rate [Notice of Proposed Rulemaking (NOPR)]:** Proposed process to allow FERC to evaluate pipeline rates in light of recent reduction in corporate income tax rate and changes to FERC's income tax allowance for MLPs
- 3. Docket No. RM18-12, Notice of Inquiry (NOI) Regarding the Effect of the Tax Cuts and Jobs Act on Commission-Jurisdictional Rates:** FERC seeking comment on how it should address changes relating to accumulated deferred income taxes and bonus depreciation

# Challenges Presented by Relevant FERC Proceedings



- **Policy Statement ignores corporate ownership of MLP units (Lakehead Policy) and does not address tax allowances for non-MLP pass-through entities. Rehearing requests filed.**
- **NOPR and NOI Interrelated Issues**
  - Intent of NOPR and related Form 501-G to address impact of tax rate change in terms of tax allowance in rate design
  - NOI seeks input on impact on and treatment of related ADIT, which will impact rate design
  - A number of industry stakeholders have filed comments with FERC asking that FERC consider these interrelated issues concurrently rather than piecemeal

## GTN & FERC Process



- March 15 – Tax related FERC orders
  - April 16 – MLP Tax Policy Statement comment/rehearing date
  - April 25 – Tax Change NOPR comment date
  - May 21 – Deferred Tax NOI comment date
- Regarding the MLP Policy Statement – TC Pipelines, LP is considering a number of options which may impact how its pipes are structured
- Tax Change NOPR
  - GTN included in Group I
  - Proposal establishes 501-G filing date 28 days from the effective date of a final rule
  - If NOPR stays on separate track, final rule may be out by end of July



## GTN Considerations



- Recognized the need to adjust rates to reflect the lower federal income tax rate
- GTN currently working through the analysis, but recognizes challenges resulting from current lack of clarity from FERC
- TC Pipelines, LP evaluating corporate structure
- GTN appreciates the relationship it has with its shipper community and prides itself on striving to reach settled outcomes with customers
- GTN proposes engaging with shippers to address adjustments to current settlement rates following FERC action on its March 15 orders



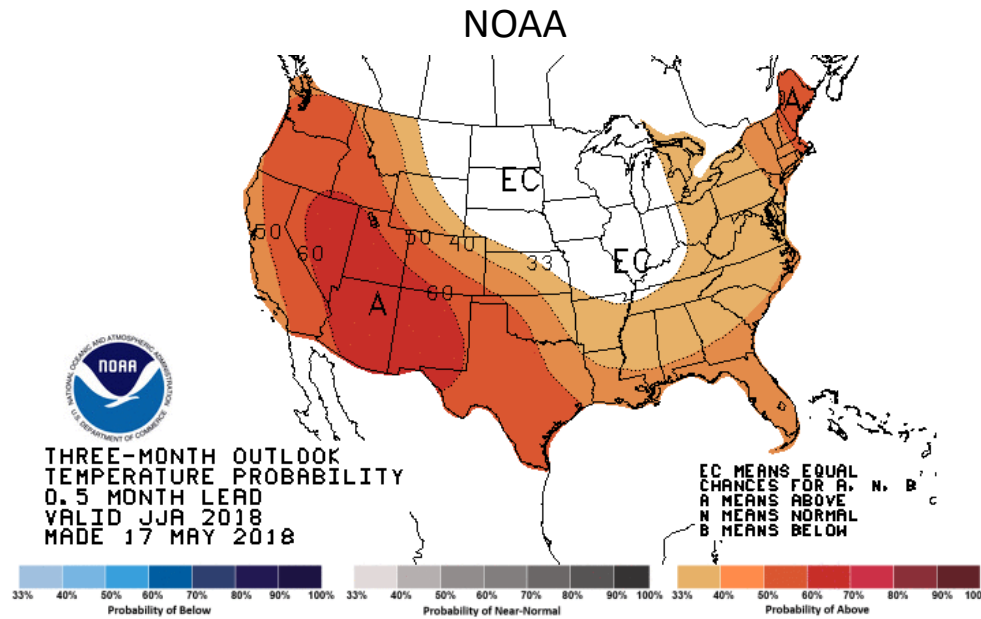
## Marketing & Fundamentals

Sean McDonald  
Account Director, U.S. Short Term Marketing & Optimization

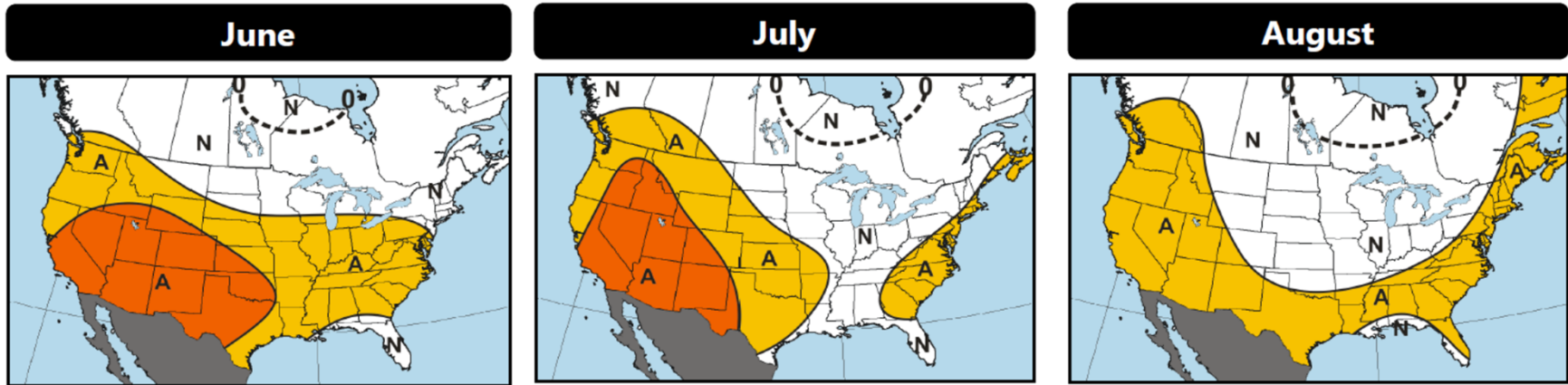


# Peak Summer Weather Forecasts

## June to August

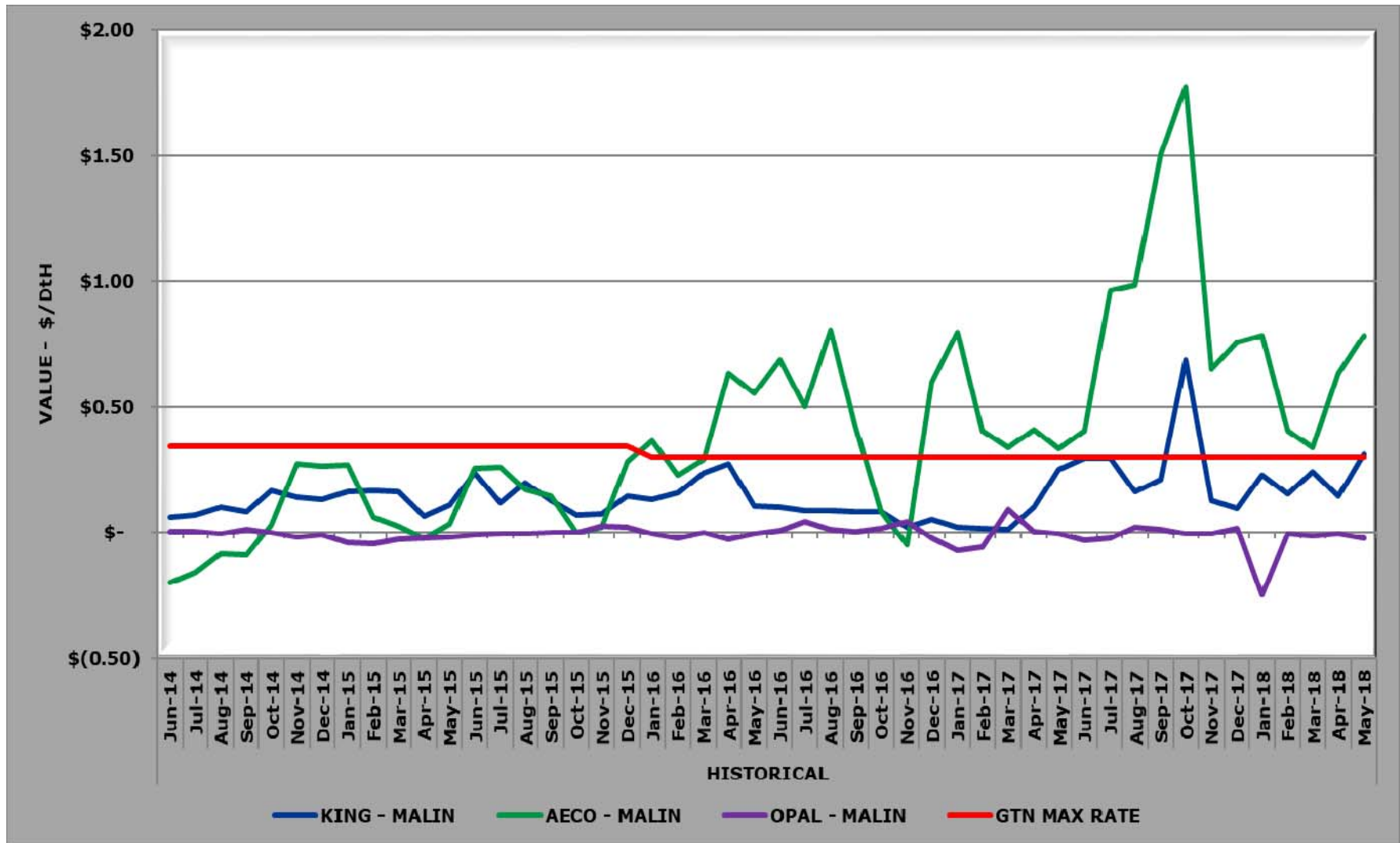


### Radiant Solutions



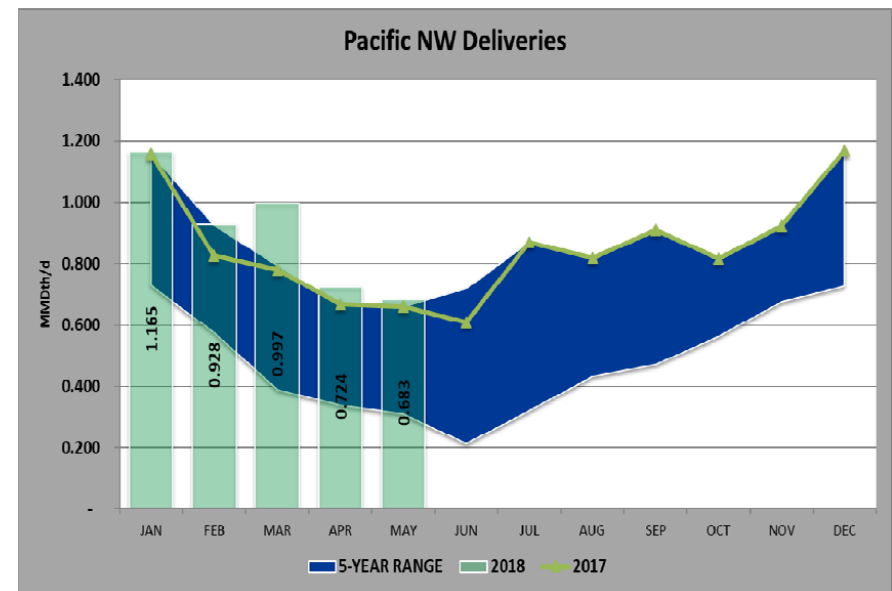
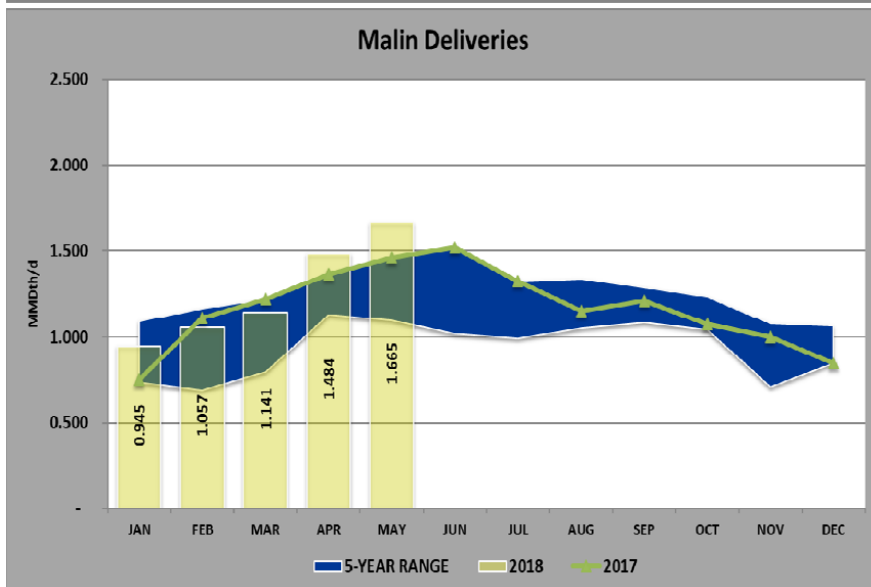
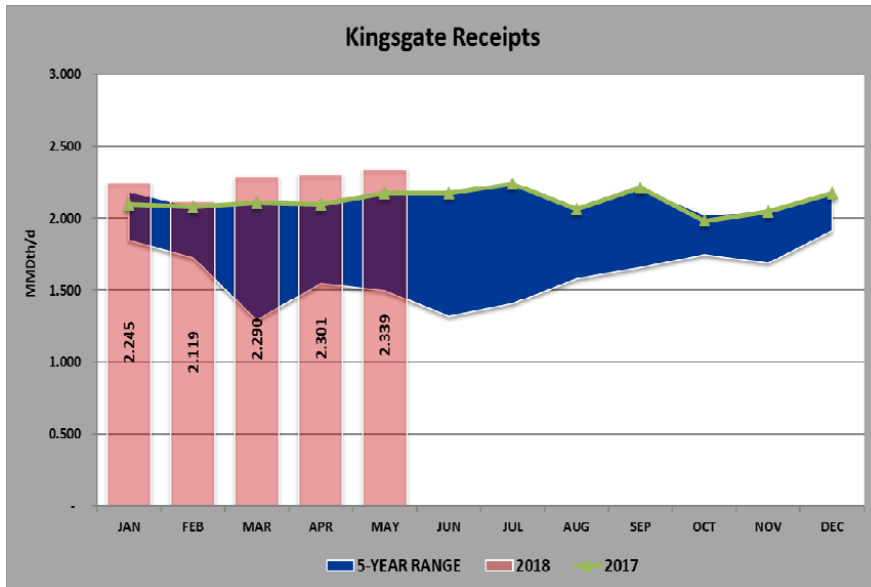
Source: NOAA and Radiant Solution Weather Services  
For Discussion Purposes – Confidential Communication

# Monthly Average Daily Values to Malin

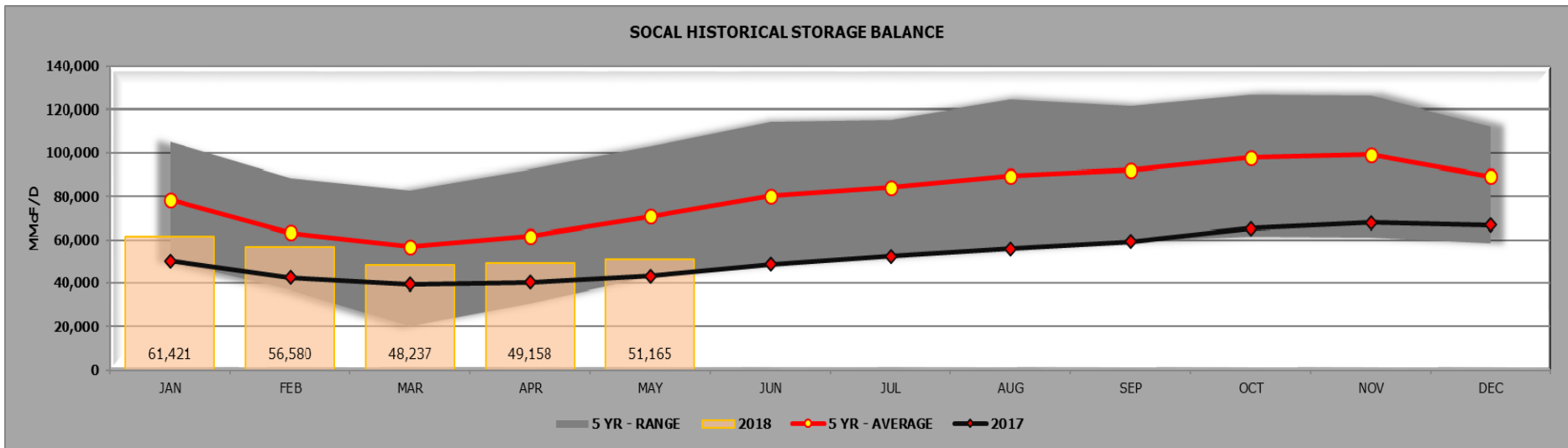
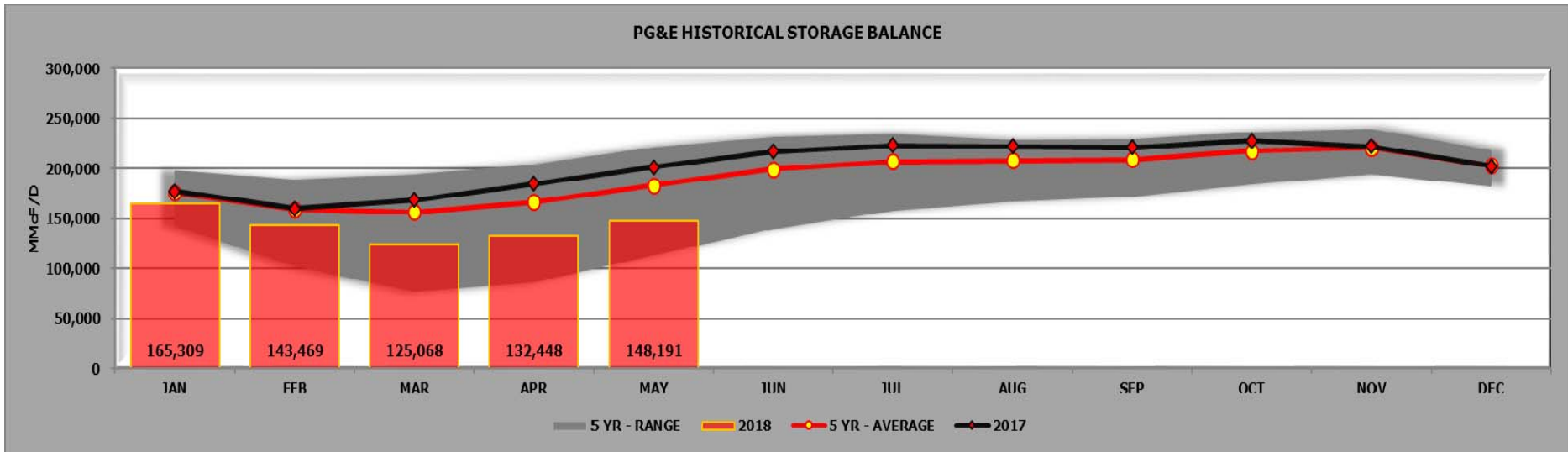




# Current Volumetric Flow



# California Storage

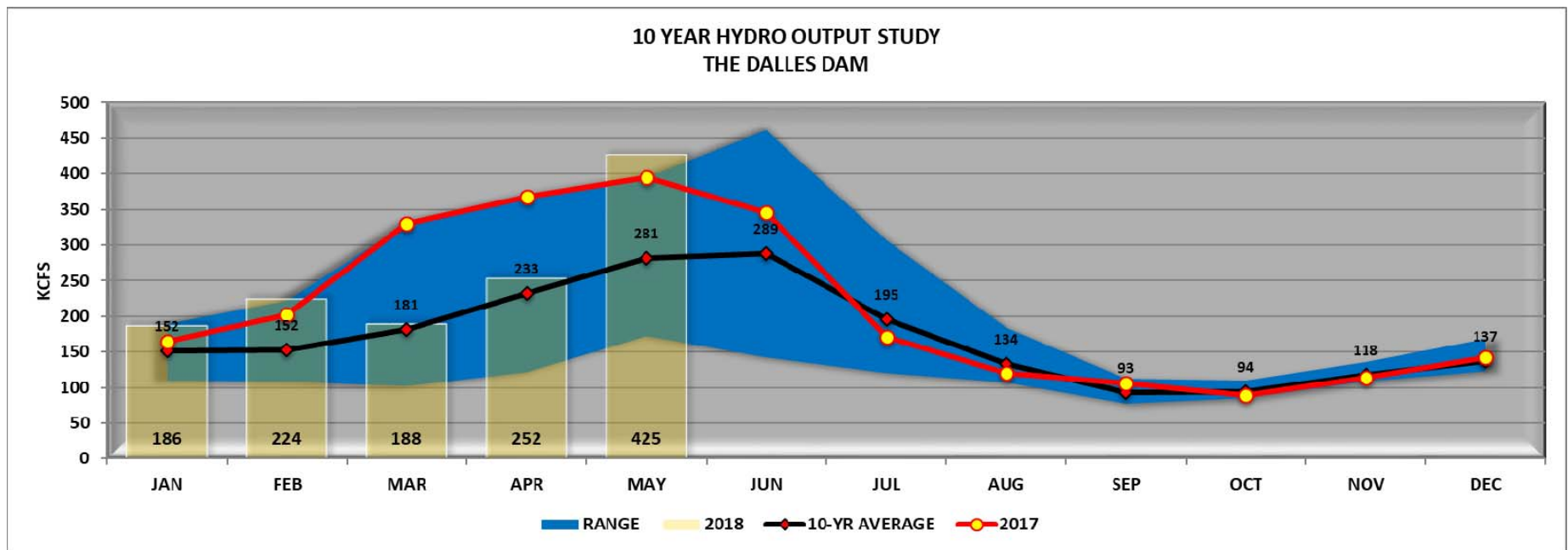


# Hydro Outlook

## Pacific Northwest & California

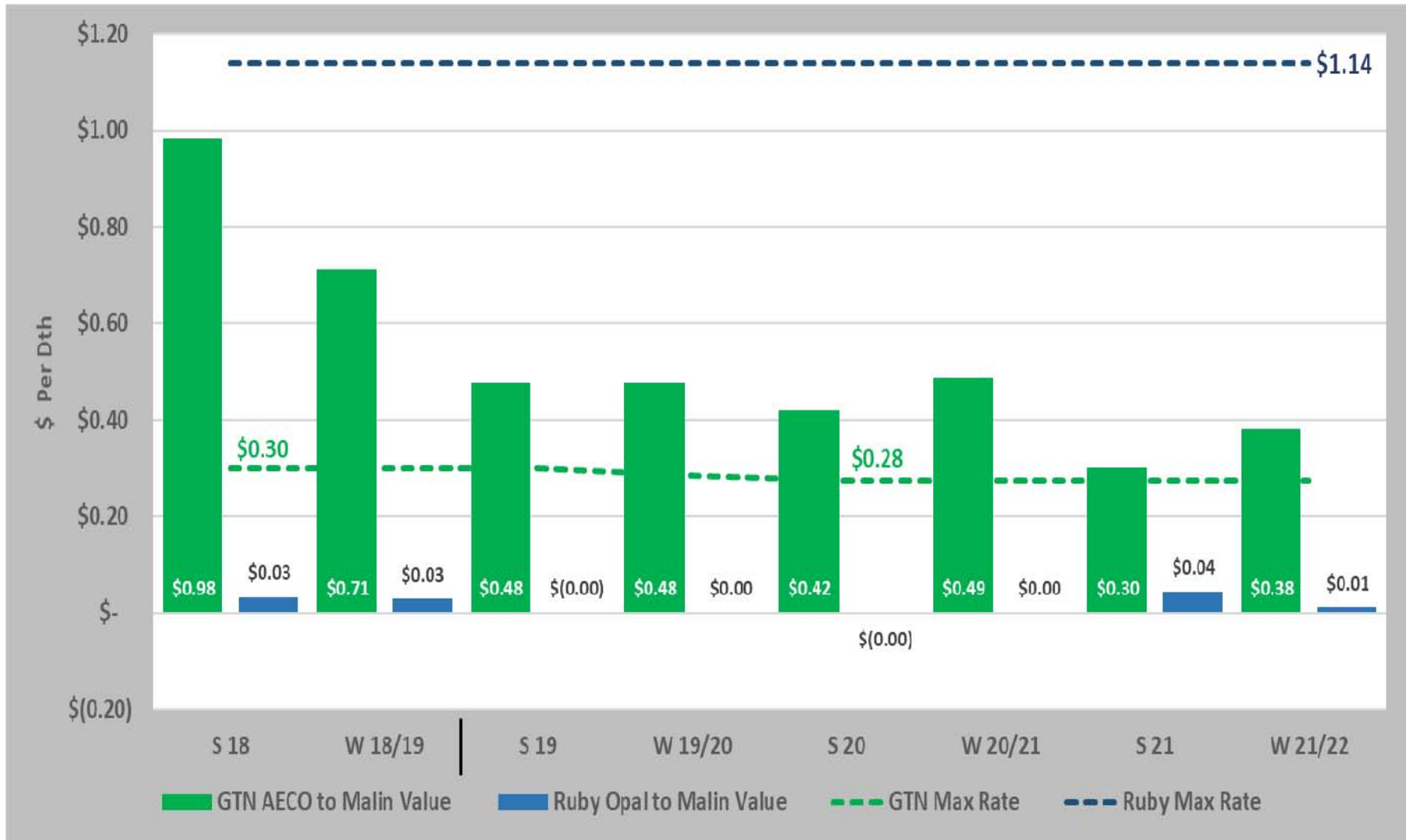


- Lower year over year hydroelectric generation will support higher power sector gas demand in 2018
- Mid April snowpack levels were 56% below the long term median in California
- For the Pacific Northwest, far northern and western areas have near to above average snowpack while the southern portions of region are well below average snowpack

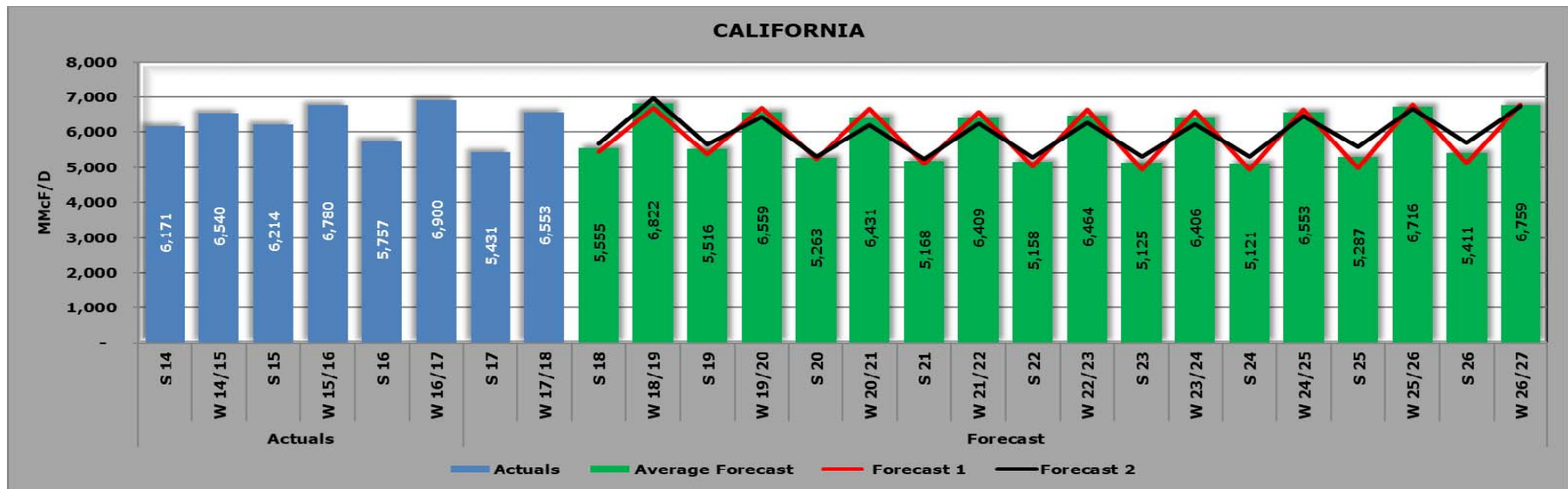
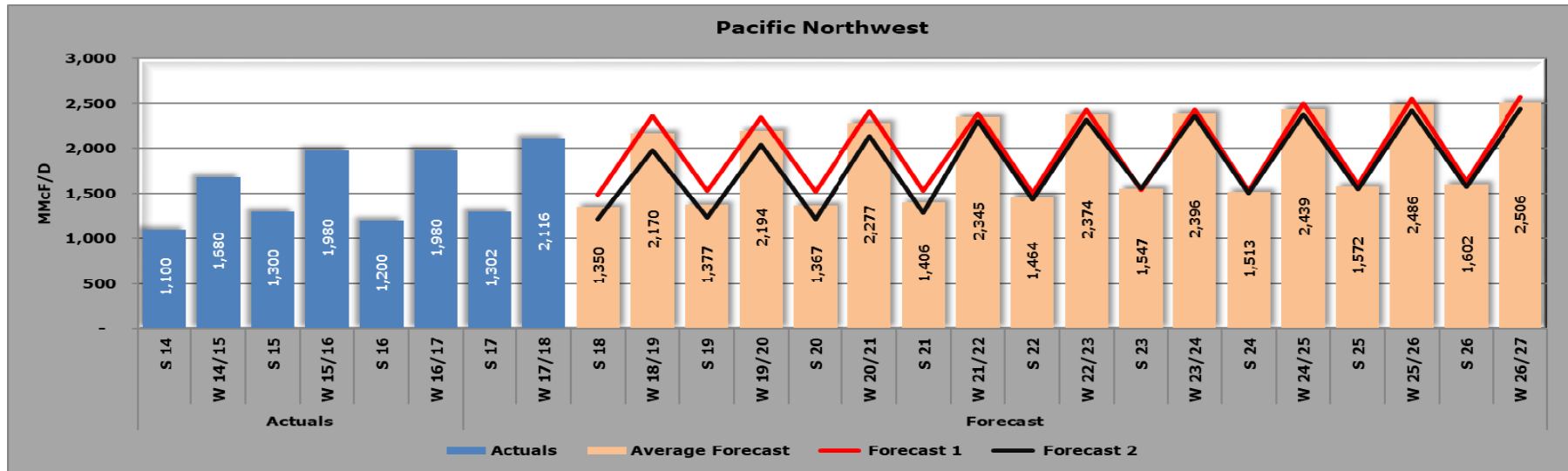


# Forward Pricing to Malin

## AECO vs Rockies Values



# Demand Projections Pacific Northwest & California

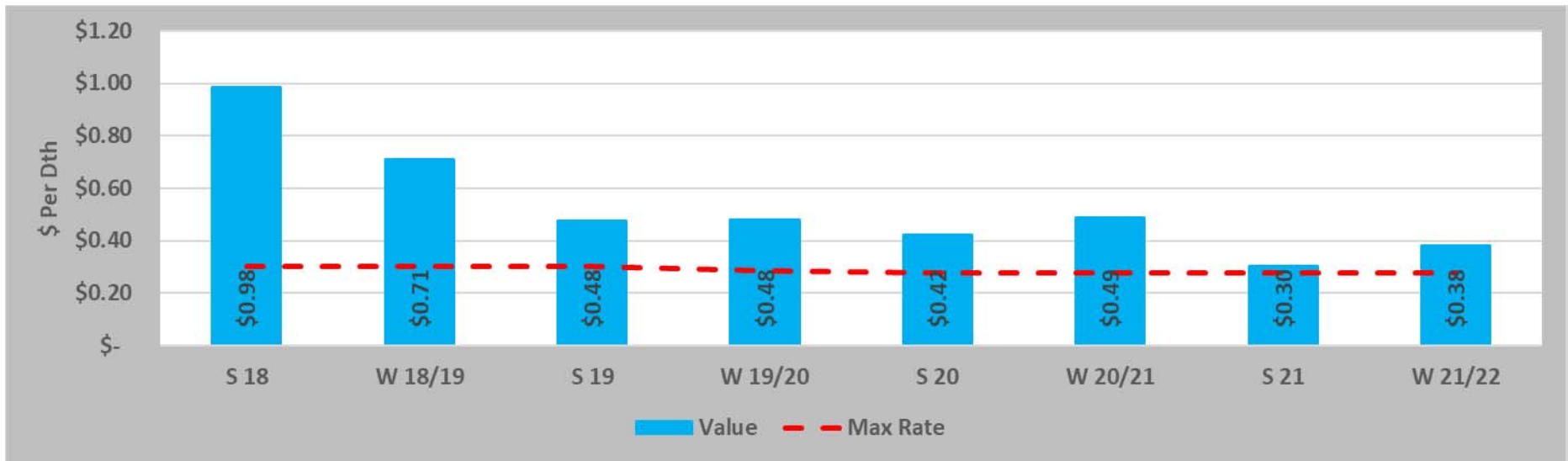
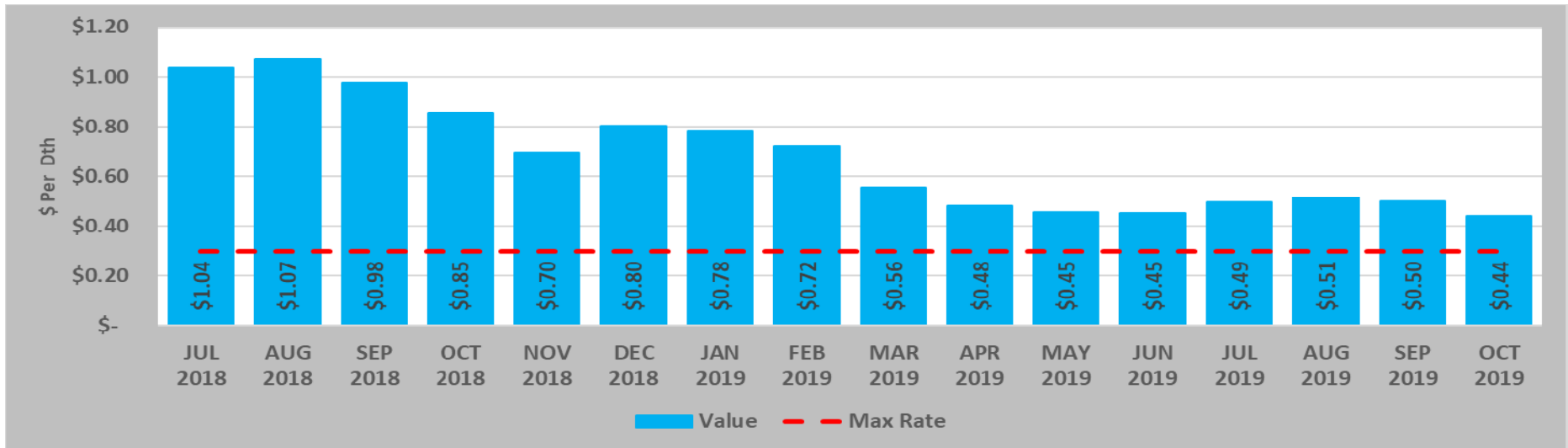




# Forward Pricing AECO to Malin Value



Values as of 06/05/2018





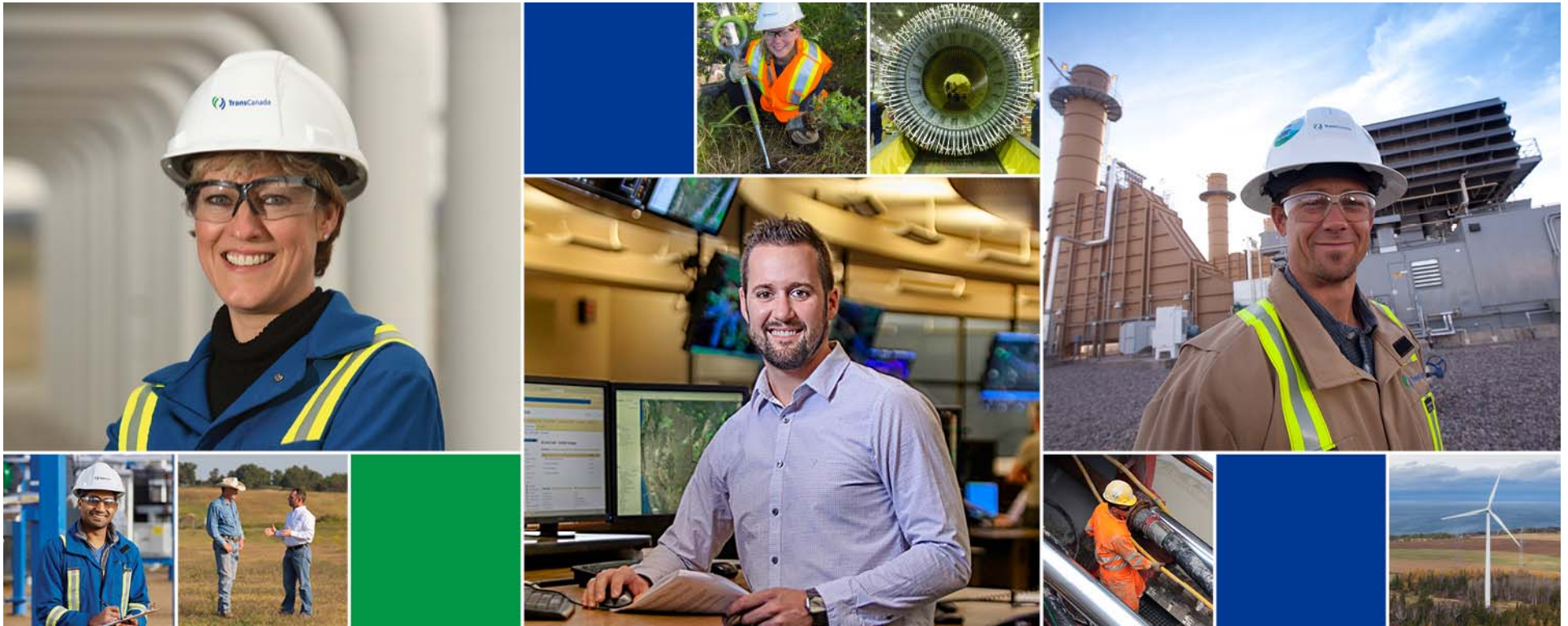
## Opportunities & Impacts to Pipeline Values

# Opportunities & Impacts to Pipeline Values



- **Supply fundamentals**
- **NGTL performance at ABC and the eastern gate**
- **NGTL export enhancements to ABC for 2018 and beyond**
- **Northwest loads, including hydro impact**
- **California storage levels**
- **Marcellus/Utica flow direction**
- **Competition for supplies in the south**
- **TransCanada Mainline contracting**
- **Park & Loan services**





## NGTL & Foothills Pipelines Update

Candice Engel  
Manager, Commercial West Markets

Ashley Stowkowy  
Account Manager, Commercial West Exports



# Canadian Natural Gas Pipelines



## CANADIAN PIPELINE SYSTEMS

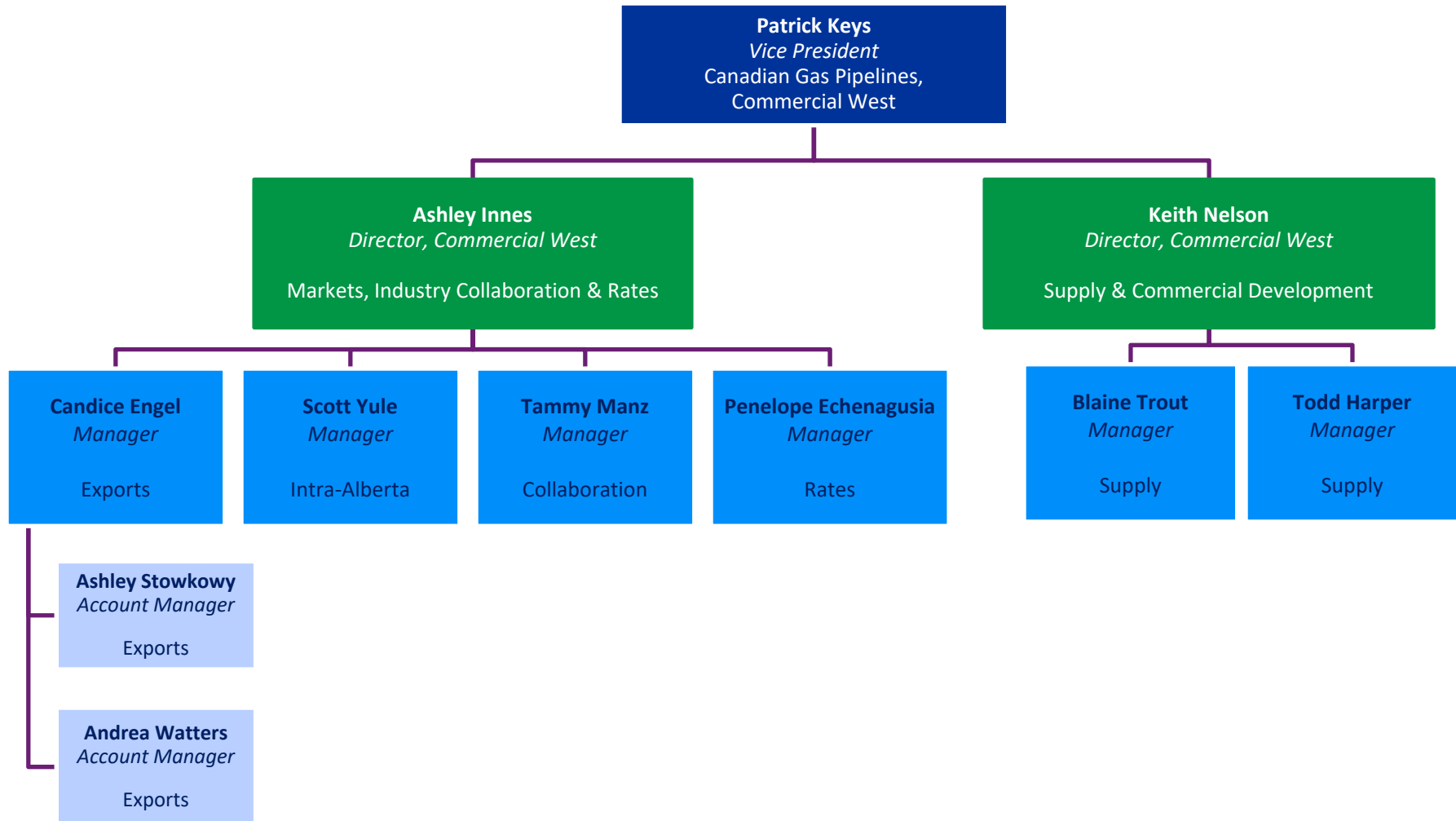
- NGTL System
- Canadian Mainline
- Foothills Pipeline
- Trans-Quebec and Maritimes Pipeline

## LEADERSHIP

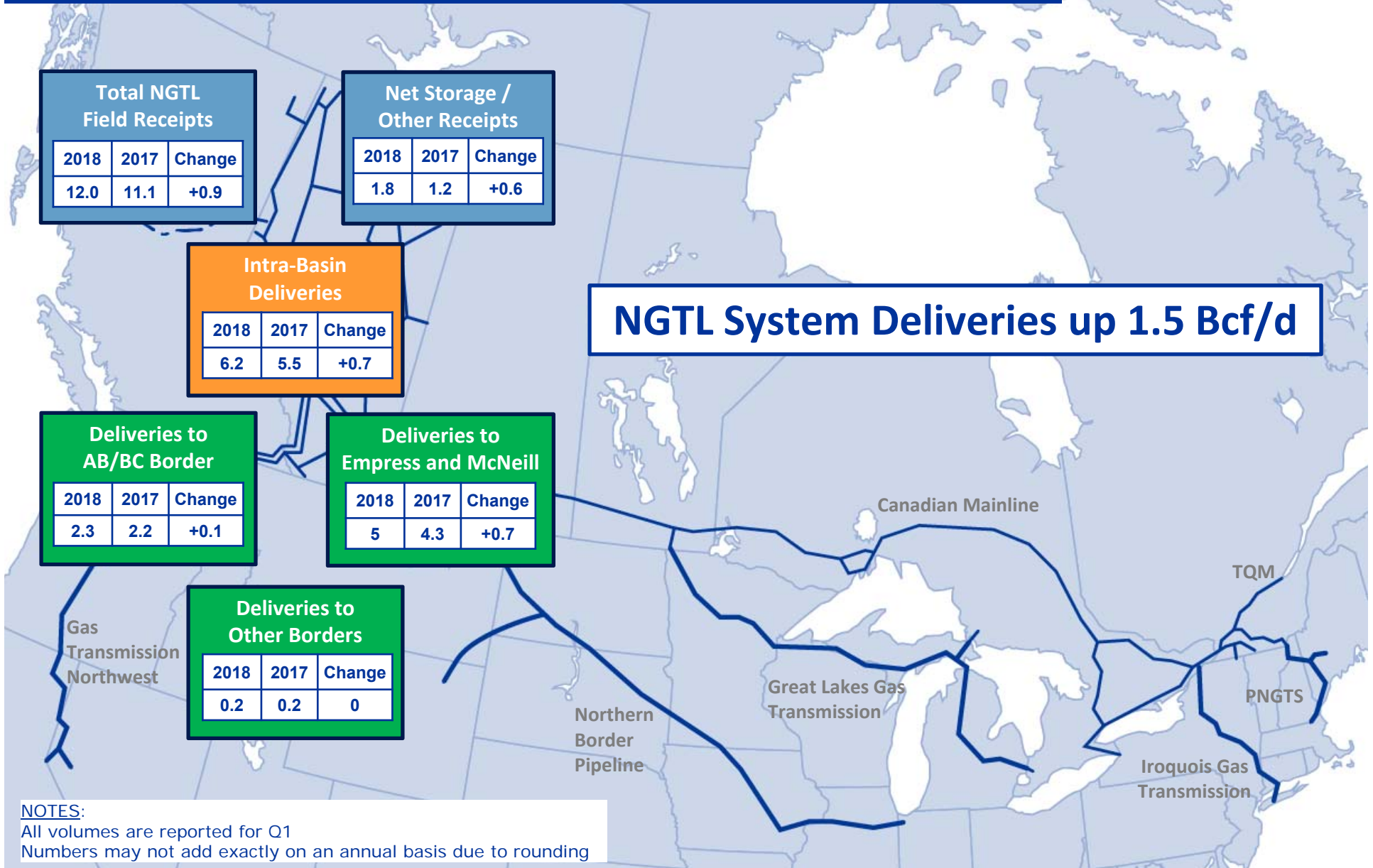
- Tracy Robinson, Senior VP Canadian Gas
- Patrick Keys, VP Commercial West
  - NGTL System
  - Foothills Pipelines
- Stephanie Wilson, VP Commercial East
  - Canadian Mainline
  - Trans-Quebec and Maritimes Pipeline
- Jawad Masud, VP Commercial Services and Optimization and Design



# Commercial West – Organizational Chart

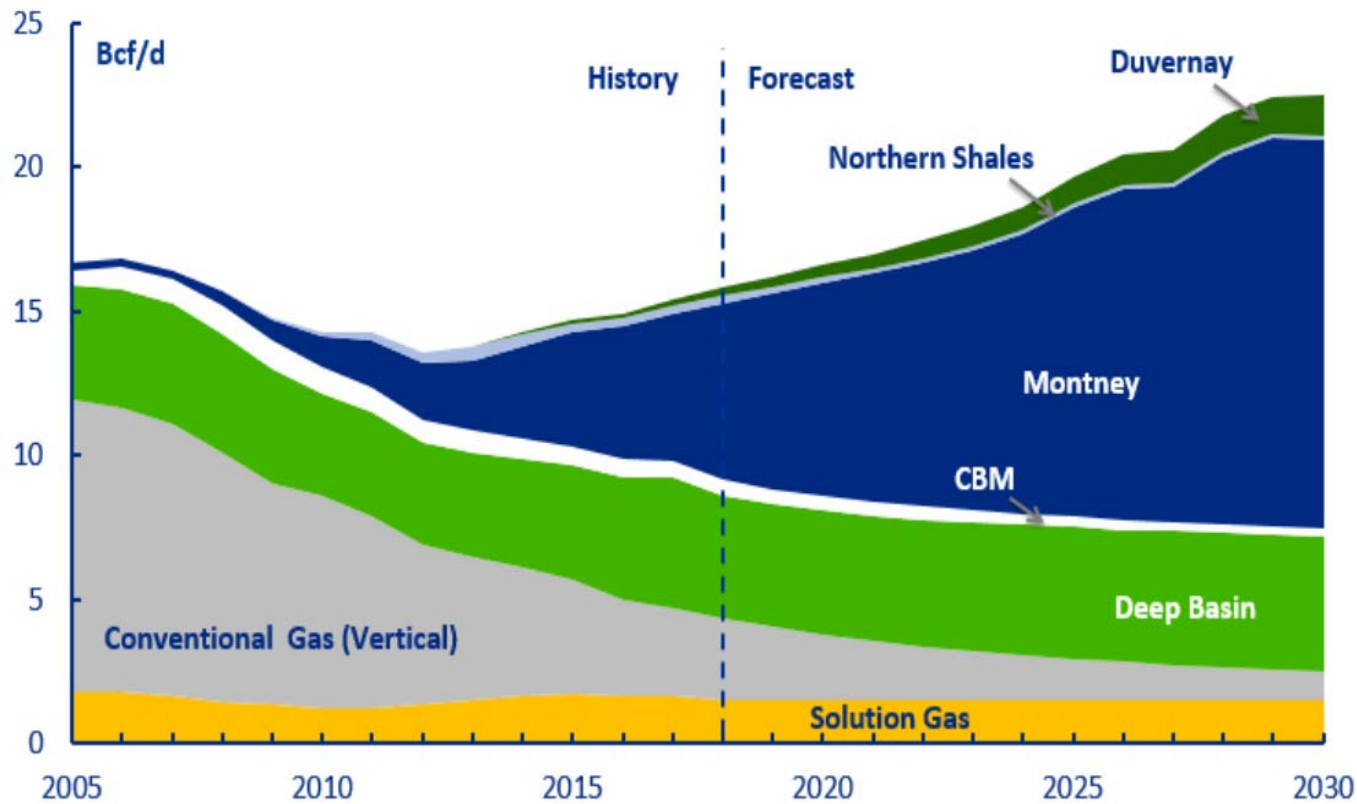


# NGTL Flow Comparison Q1 2018 vs Q1 2017 (Bcf/d)

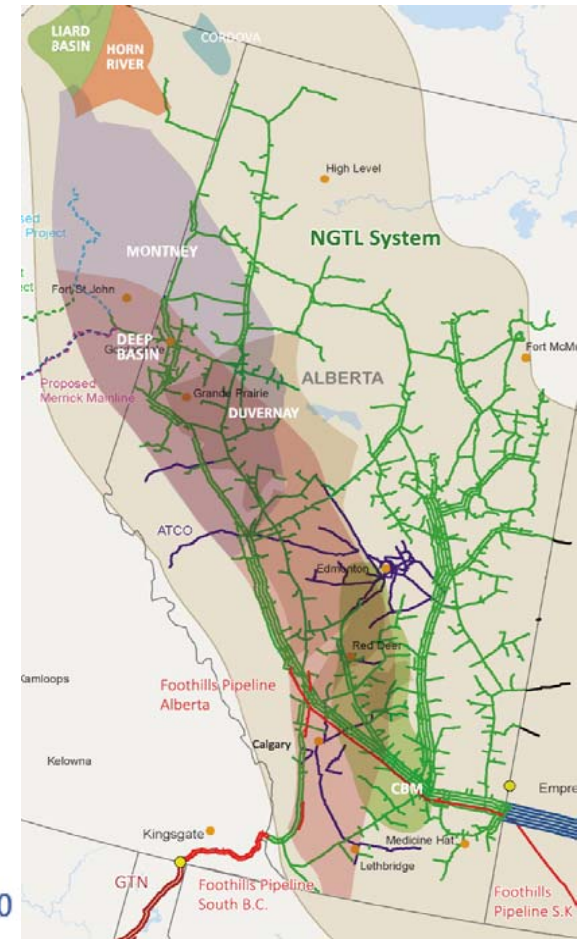


**NOTES:**  
 All volumes are reported for Q1  
 Numbers may not add exactly on an annual basis due to rounding

# WCSB Supply - 2018 Forecast



SOURCE: TransCanada Forecast

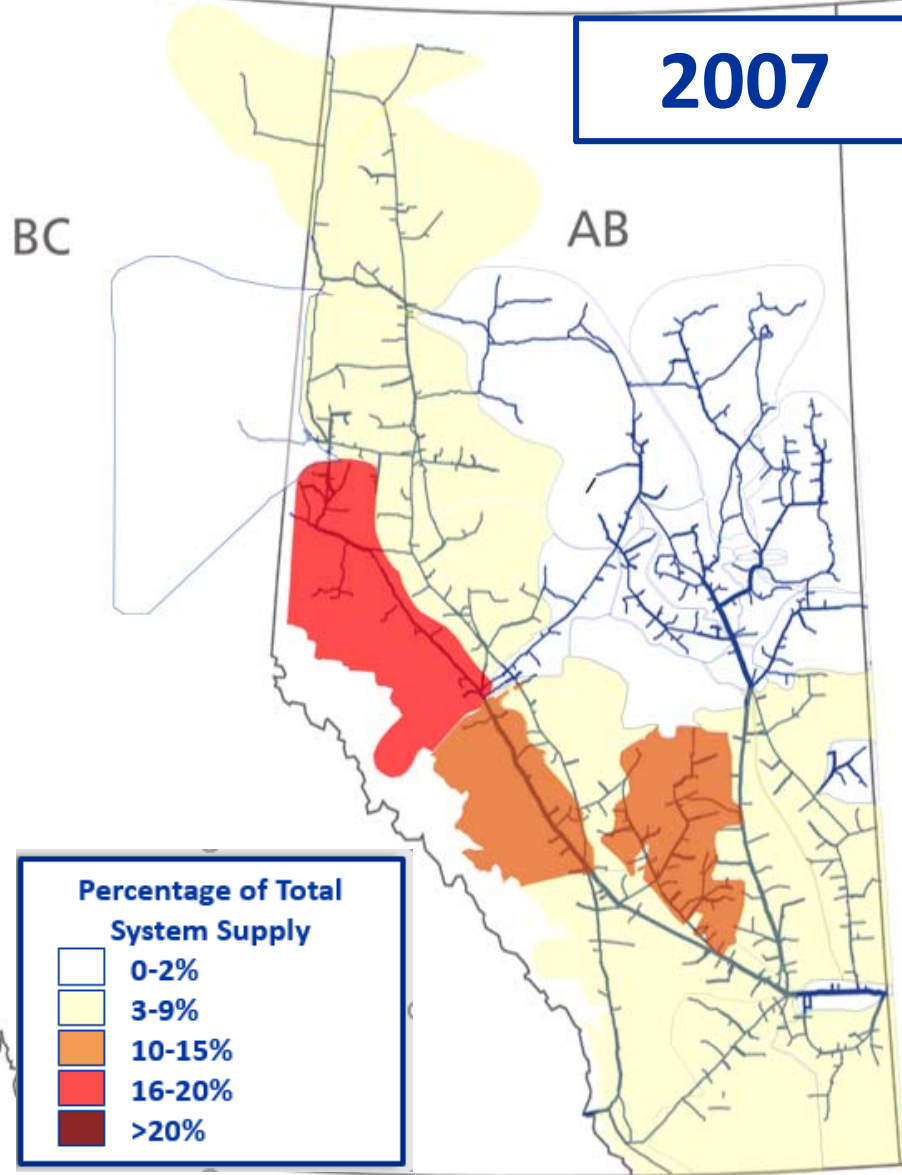


*Dry Conventional Gas on Decline  
Liquids-Rich Montney is Key Supply Driver*

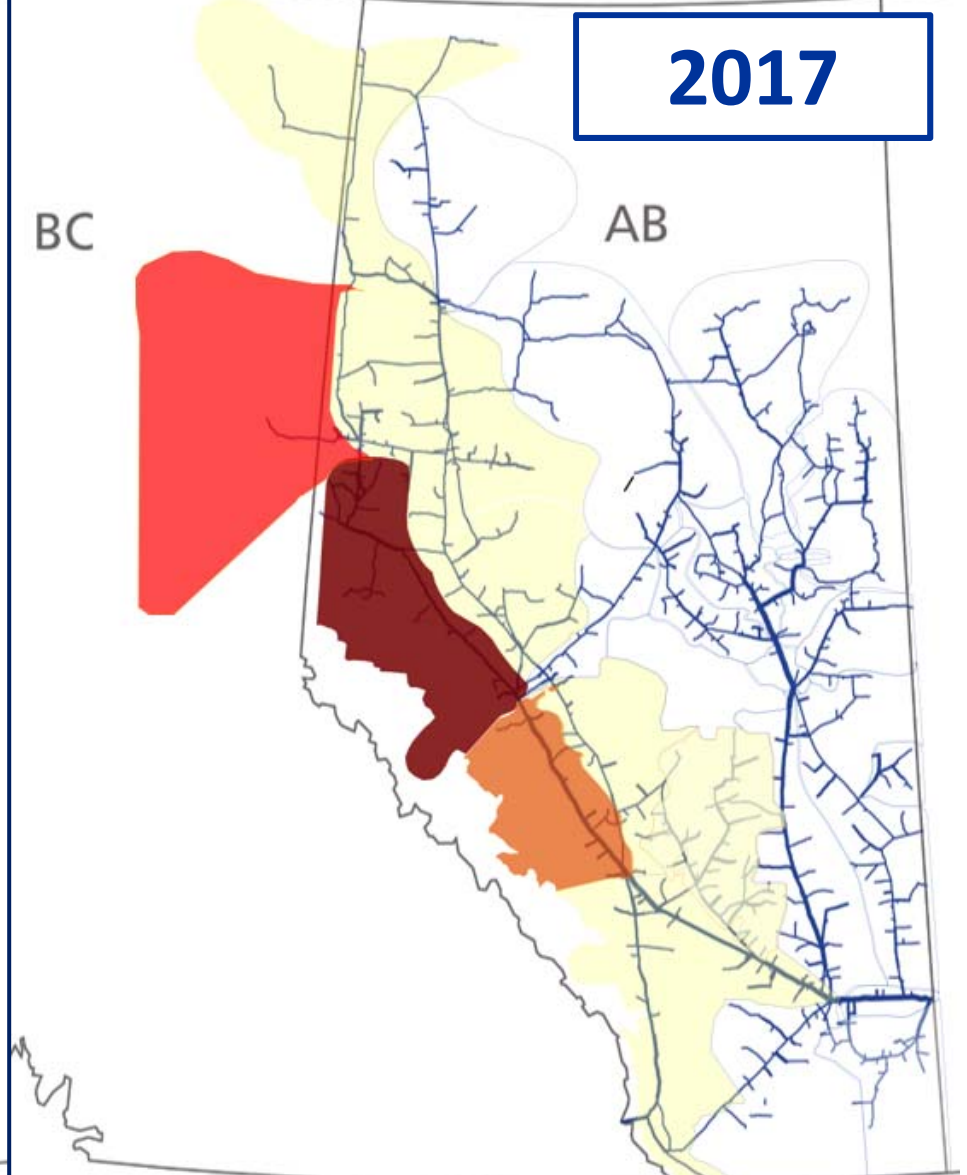
# Evolution of Supply Distribution



2007



2017



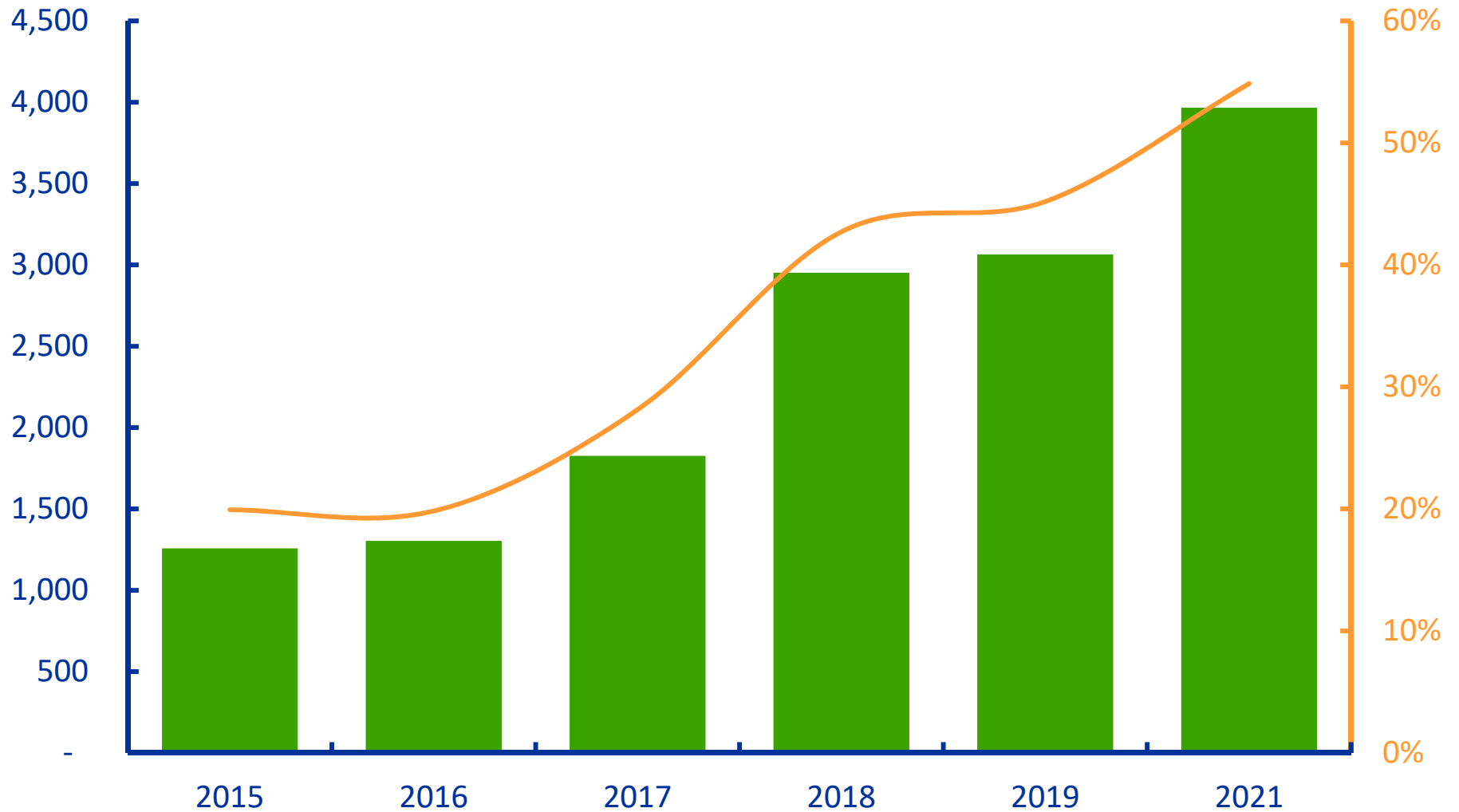


# FT-D1 Contracts Held by FT-R Shippers



FT-D1 (Mmcf/d)

% of border throughput

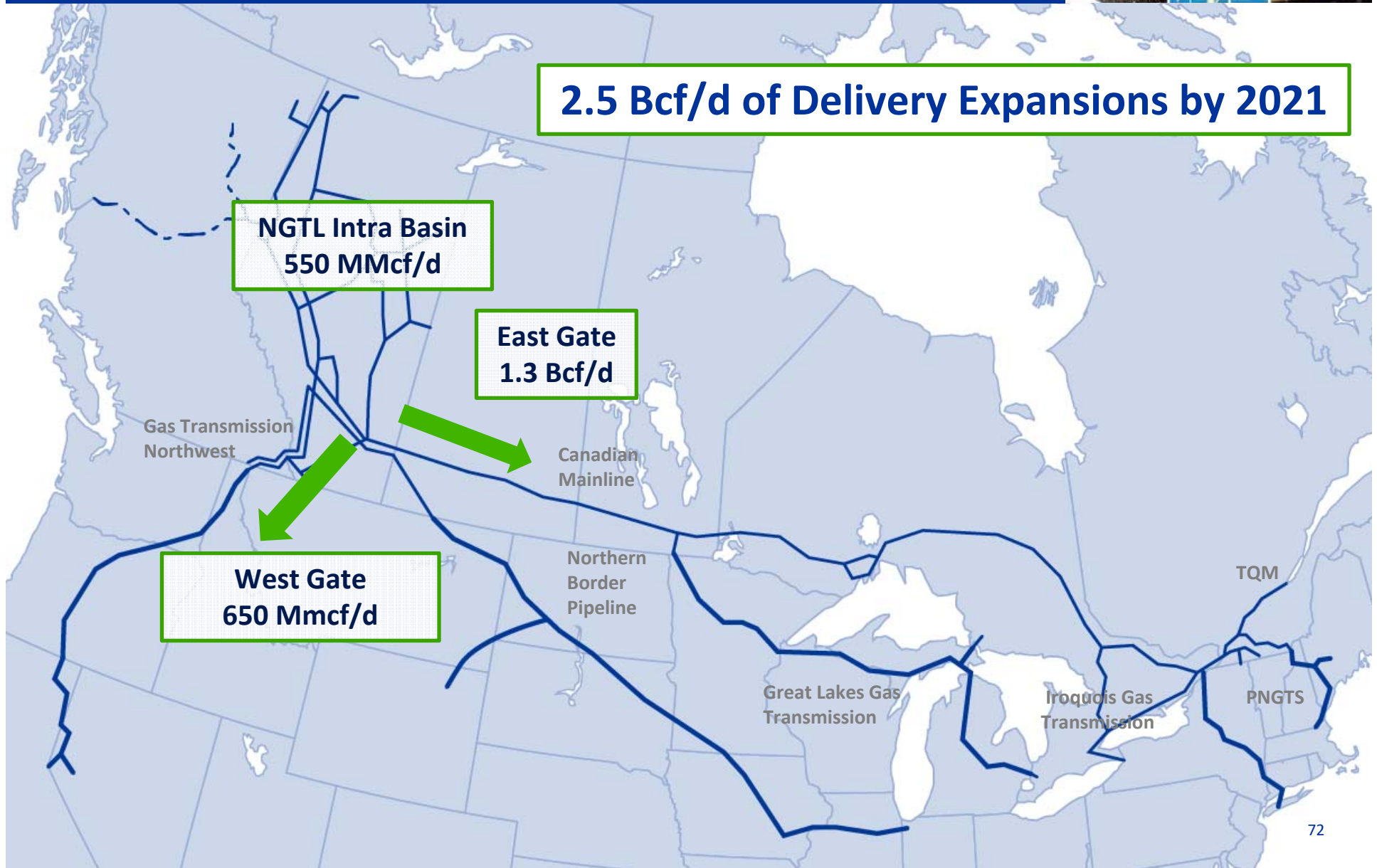




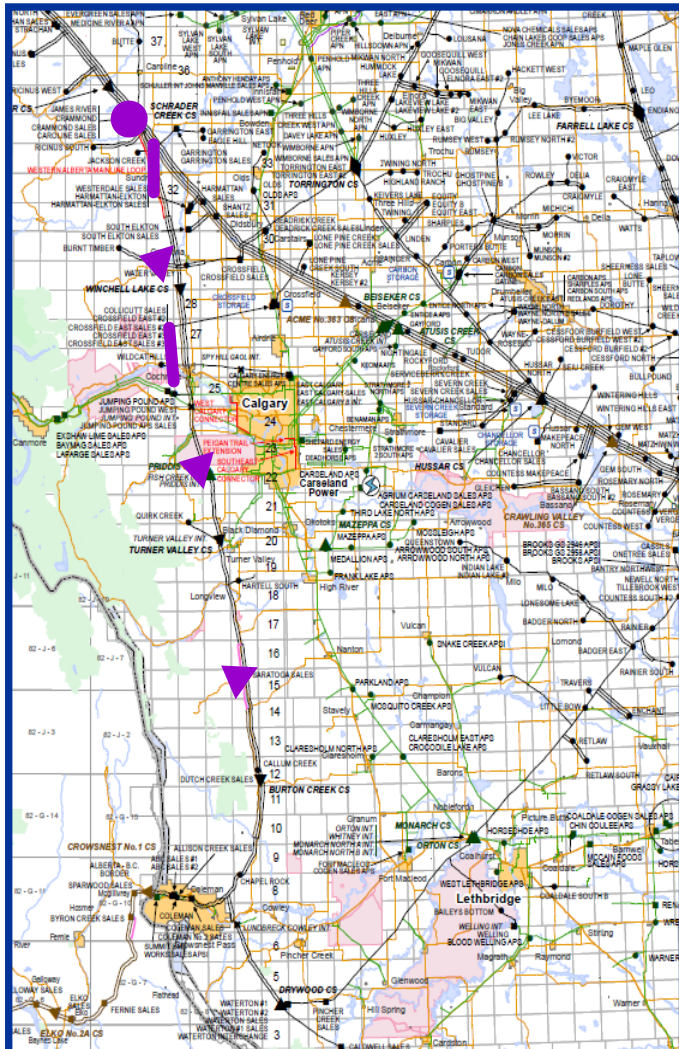
# Significantly Expanding Market Connectivity 2018-2021



**2.5 Bcf/d of Delivery Expansions by 2021**



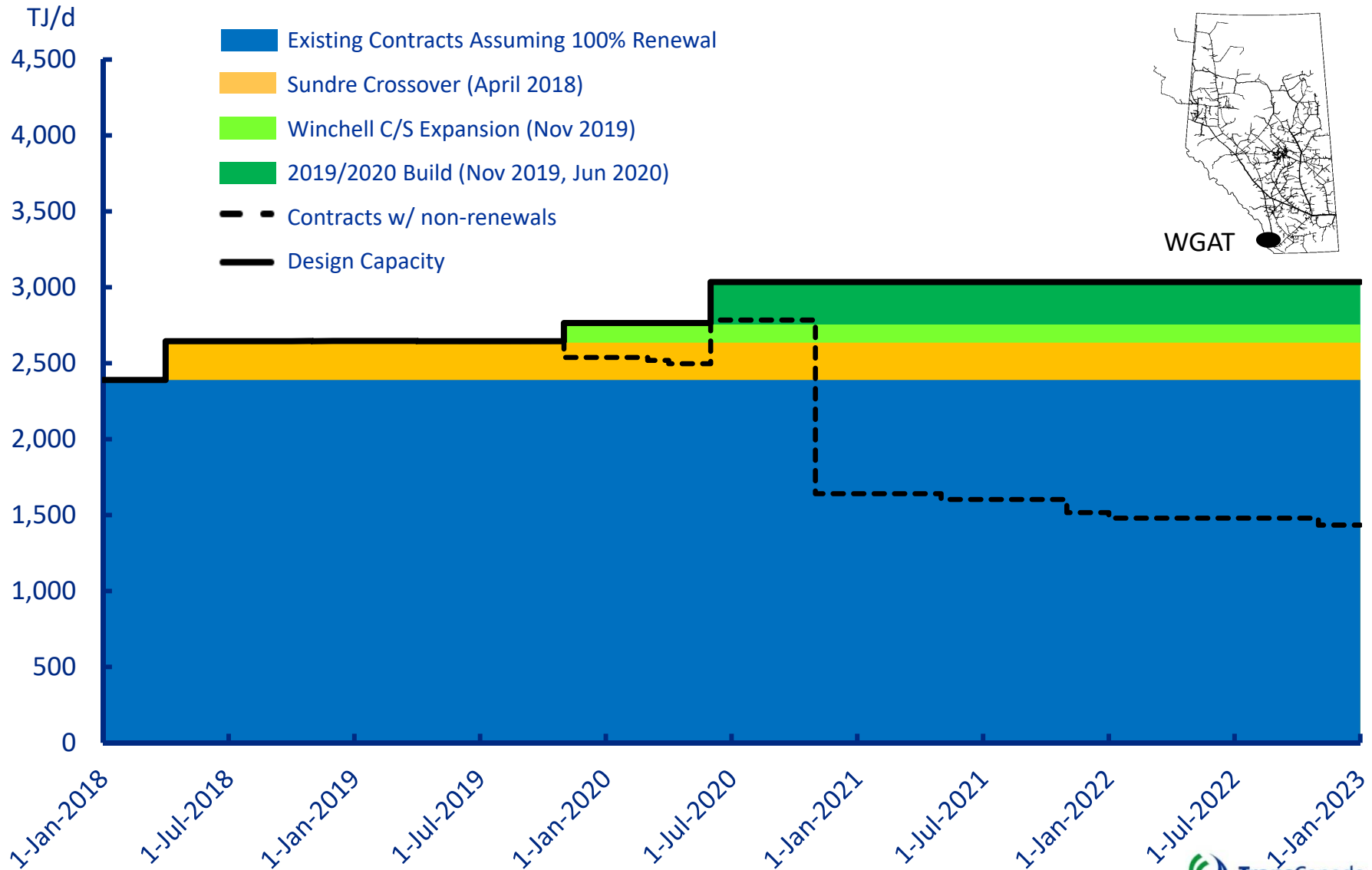
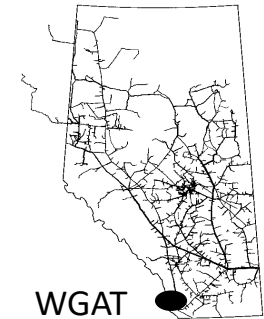
# NGTL West Path Expansions 2016-2020



	James River Bypass	Sundre Crossover	Winchell Compressor Unit Addition	West Path Expansion
In-Service Date	June 2016	April 2018	Targeted Nov. 2019	Targeted June 2020
Project Scope	Minor Modification	20km Pipe Loop	One Compressor Unit Addition	2 Compressors & 22km Pipe Loop
Incremental Contracts	150 TJ/d	245 TJ/d	120 TJ/d	288 TJ/d
Project Costs	\$5.6M	\$99M	\$99M	\$409M
NGTL Design Capacity (at time of ISD)	2,390 TJ/d	2,645 TJ/d	2,765 TJ/d	3,053 TJ/d

*NGTL West Path is fully contracted*

# Alberta and B.C. Border Capacity and Contract Profile



# NGTL Revised 2018 Interim Rates and Foothills Rates



NGTL System and Foothills B.C. - Transport Rate Sheet				
Revised Interim 2018 Rates (effective May 1, 2018)				
Delivery Service	Revised Interim 2018 Rates (May 1, 2018)		Interim 2018 Rates - <i>Previous</i> (January 1, 2018)	
	\$/GJ/mo	c/GJ/d	\$/GJ/mo	c/GJ/d
<b>NGTL FT-D Group 1 Demand Rate (1 year term):</b>				
<b>Alberta-B.C. Border</b>	4.99	16.4	4.89	16.1
Empress/McNeill Borders	5.38	17.7	5.27	17.3
<b>NGTL IT-D Group 1 Interruptible Rate:</b>				
<b>Alberta-B.C. Border</b>	-	18.05	-	17.70
Empress/McNeill Borders	-	19.45	-	19.07
<b>NGTL FT-D Abandonment Surcharge:</b>	No Revision	No Revision	0.28	0.0091
<b>Foothills B.C. Firm Service Rate:</b>	No Revision	No Revision	2.22	7.3
<b>Foothills B.C. Interruptible Service Rate:</b>	No Revision	No Revision	-	8.0
<b>Foothills B.C. Abandonment Surcharge:</b>	No Revision	No Revision	0.0942	0.0031

## NGTL Price Points

1-2 year term: 100% (Price Point Z)

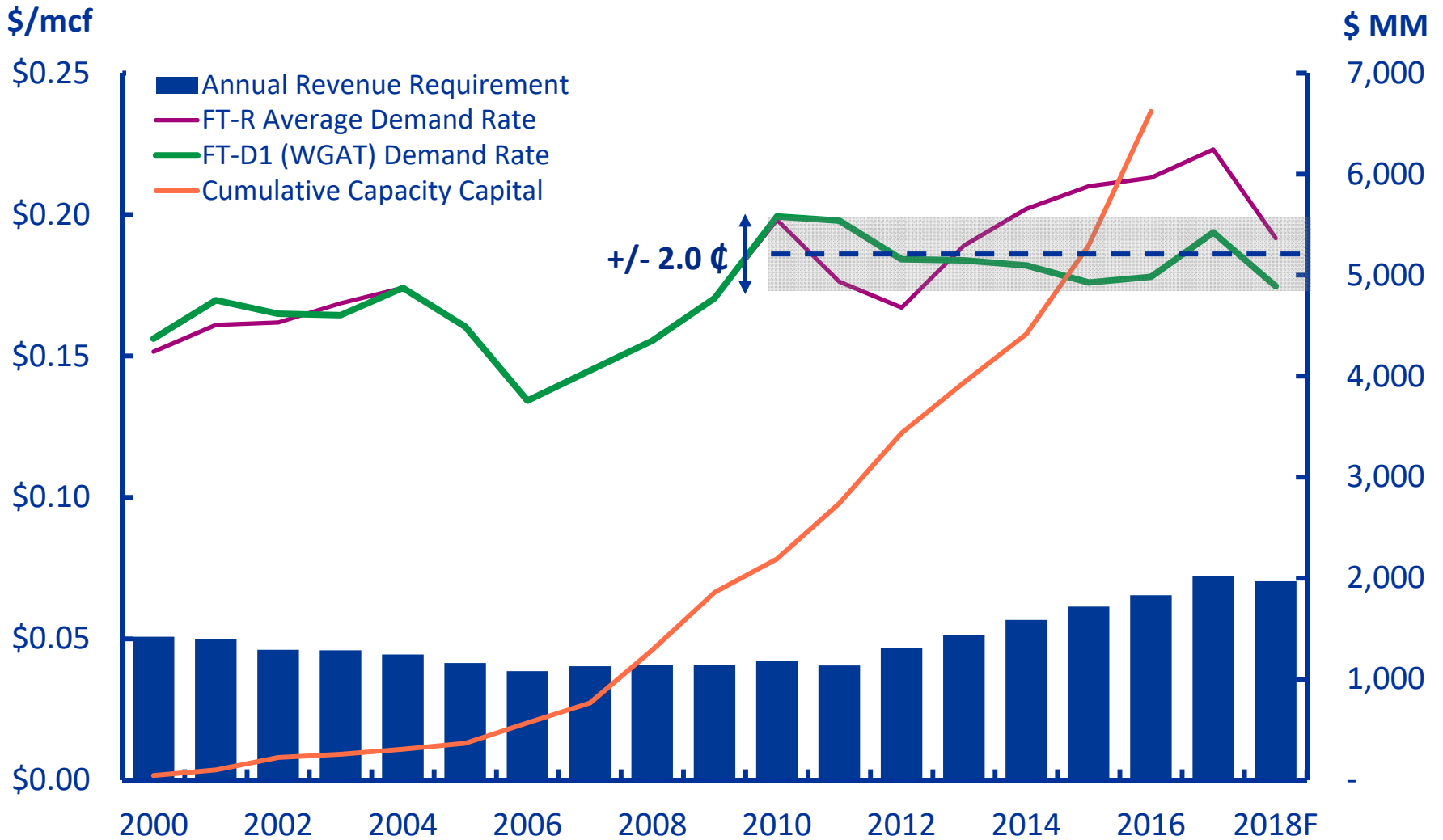
3-4 year term: 95% (Price Point Y)

5+ year term: 90% (Price Point X)

No Price Points on Foothills B.C.



# NGTL Revenue Requirement and Annualized System Tolls



*Stable and moderately declining FT-D1 WGAT toll  
with substantial capital additions*

For Discussion Purposes – Confidential Communication



# Customer Communication – Pipeline Operations



- Daily Operating Plan
- NRG bulletins
- Customer Account Managers
- Customer Ops Meetings
- Call Centre



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**Canadian Mainline**

**Foothills System**

**Great Lakes Pipeline Canada**

**Trans-Quebec and Maritimes Pipeline**

**USA**

- ▶ [ANR Pipeline Company \(ANR\)](#)
- ▶ [Bison Pipeline](#)
- ▶ [Gas Transmission Northwest System](#)
- ▶ [Great Lakes Gas Transmission System](#)
- ▶ [Iroquois Gas Transmission System](#)
- ▶ [Northern Border System](#)

**NGTL/FH Daily Operating Plan**

Please select a report for viewing.

Report naming format:  
YYYY\_MM\_DD\_hh\_mm

- ▶ [2018\\_03\\_29\\_16\\_36 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_28\\_17\\_32 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_27\\_16\\_16 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_26\\_20\\_37 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_23\\_15\\_21 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_22\\_15\\_16 \(HTML . CSV\)](#)
- ▶ [2018\\_03\\_21\\_15\\_12 \(HTML . CSV\)](#)

**Capability and Historical Flow Charts**

- ▶ [Alberta/British Columbia Border \(PDF\)](#)
- ▶ [Empress/McNeill Border \(PDF\)](#)
- ▶ [Oil Sands Delivery Area \(PDF\)](#)
- ▶ [Upstream James River Receipt Area \(PDF\)](#)

**Other Information**

- ▶ [Base Capability Table \(CSV\)](#)

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*Continually working to improve timeliness, quality, and content*

# Foothills BC Summer 2018 Maintenance



## Outage Scope:

NPS 36 Foothills BC Mainline Pipeline Integrity Maintenance

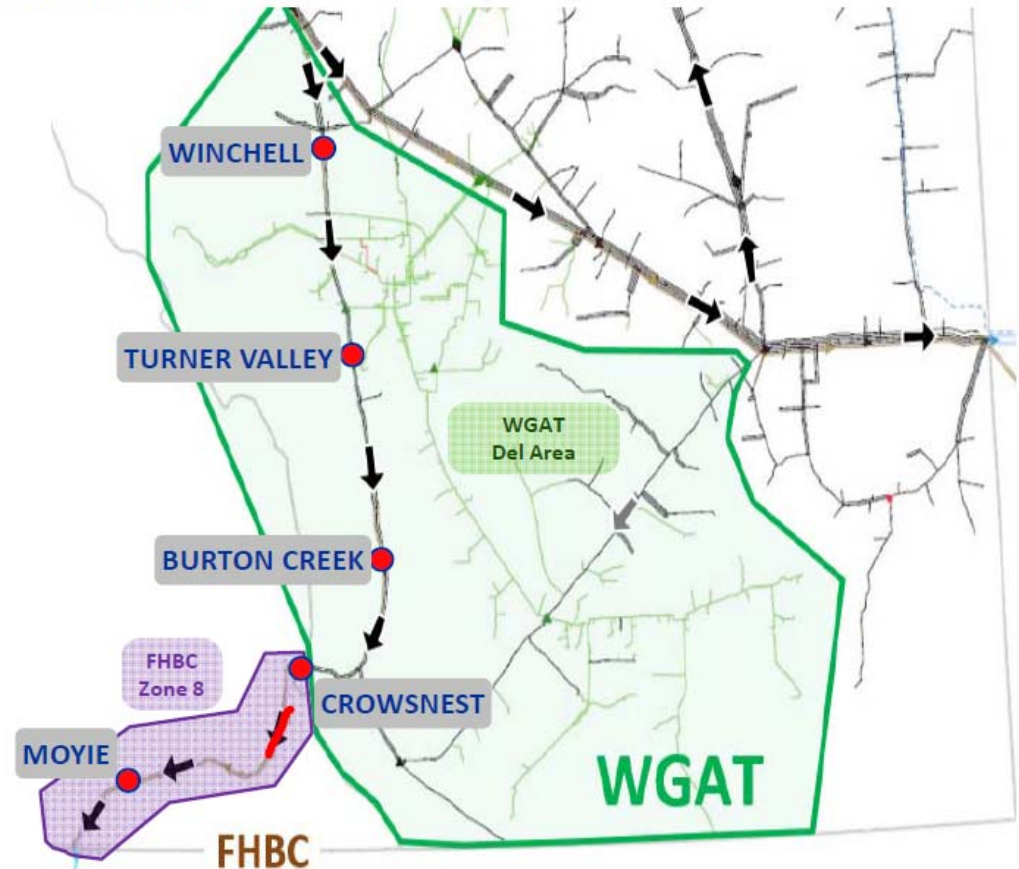
- Integrity digs: Jul 4 – Aug 30, 2018  
Outage Capability = **69** 10<sup>6</sup>m<sup>3</sup>/d
- Integrity repairs: Jul 30 – Aug 12, 2018  
Outage Capability = **59** 10<sup>6</sup>m<sup>3</sup>/d

## ABC Border Base Capability:

Jul – Aug 2018 = **73** 10<sup>6</sup>m<sup>3</sup>/d; Sep 2018 = **75** 10<sup>6</sup>m<sup>3</sup>/d

## Bundled maintenance:

- Burton Creek #1, Burton Creek CS
- Winchell Lake CS
- Turner Valley #1, Turner Valley CS
- Crowsnest A
- Moyie CS



Service restriction specifics (date, time, area, type) are subject to change. Refer to DOP and NrG Notice for official outage related service availability

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# 2019 Capital Expansion – Outage Review



## Expected Timing, Area of Impact and Service Allowable:



Expansion Facility Description	Outage Requirement	Outage Timing	Estimated Impact TJs/d	Service Allowable Location/Area
Winchell Lake, new unit	Winchell Lake CS	Jul 8-21, 2019	300 - 400	WGAT Partial Firm Service

Outages will be added to DOP when hydraulic analysis and/or bundling activities are complete.

## Strongly Engaged on the Collaborative Front



### TTFP Chair:

Tammy Manz

Manager, Commercial West Collaboration and Strategy

Phone 403-920-6330

Email: [tammy\\_manz@transcanada.com](mailto:tammy_manz@transcanada.com)

### The Tolls, Tariff, Facilities and Procedures (TTFP) is an active, collaborative forum

- 45 formal shipper meetings in 2017
- Policy and Operational Communication
- Customer Operation Meetings

### Numerous Task Force topics to date in 2018, including:

- Rate Design & Services Review
- Revenue Requirement
- Delivery Service Transfer Attributes
- Access to Storage Task Force
- Operational Storage Task Force
- Intra-Basin New Service for Electricity Market Task Force
- System Reliability (Supply)

*Industry collaboration  
is critical,  
NGTL remains  
committed to engaging  
with shippers*



## NGTL and Foothills Contacts – Export Markets



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