CASCADE NATURAL GAS CORPORATION®
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In the Community to Serve®

Cascade Natural Gas

2014 Integrated Resource Plan Overview

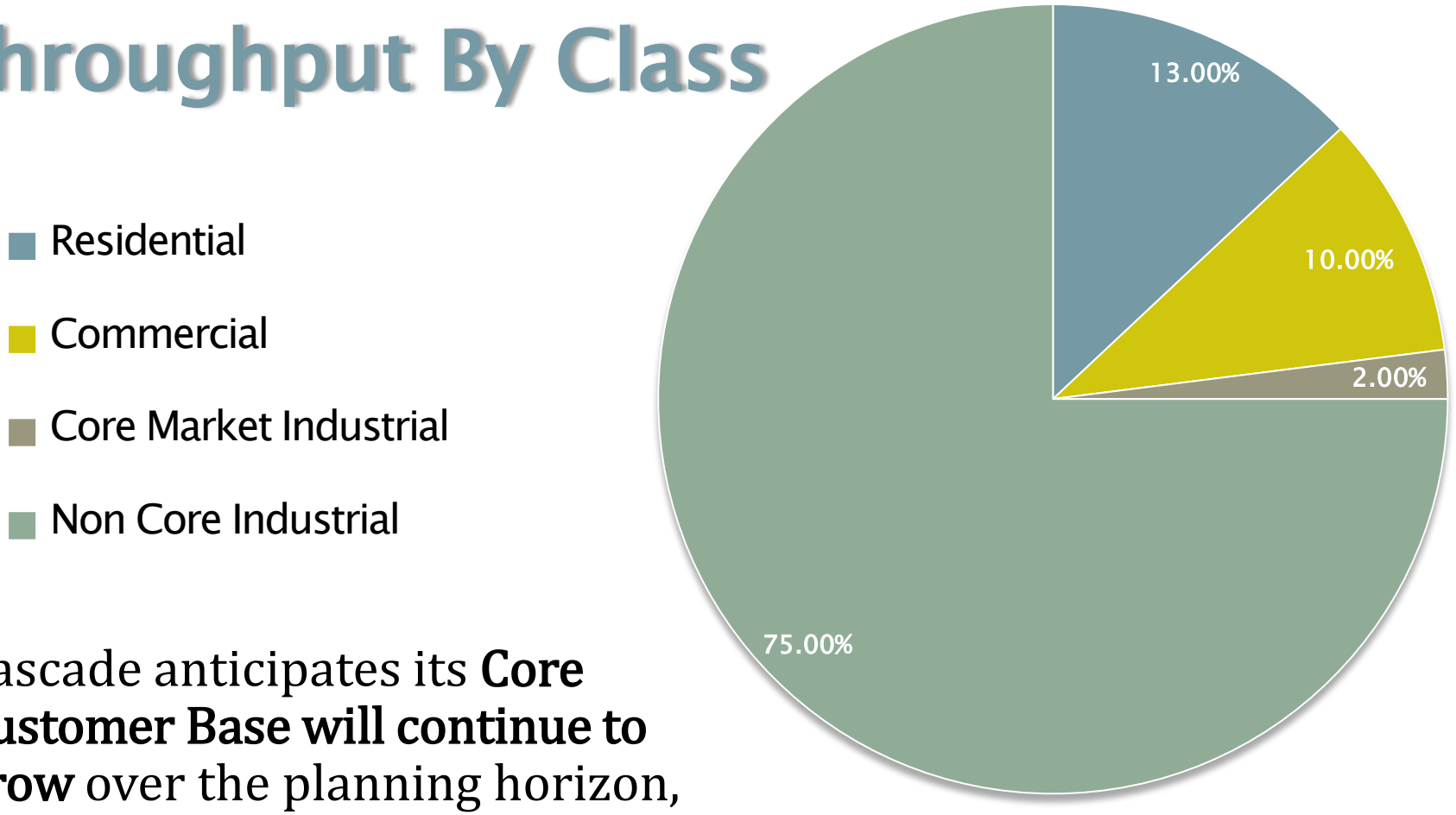
September 10, 2015
WUTC Presentation
Olympia, Washington

Overview

- Introductions ☑
- **2014 IRP**
  - **Demand Forecast**
  - Distribution System Enhancements
  - Demand Side Management
  - Supply Side Resources
  - Resource Integration

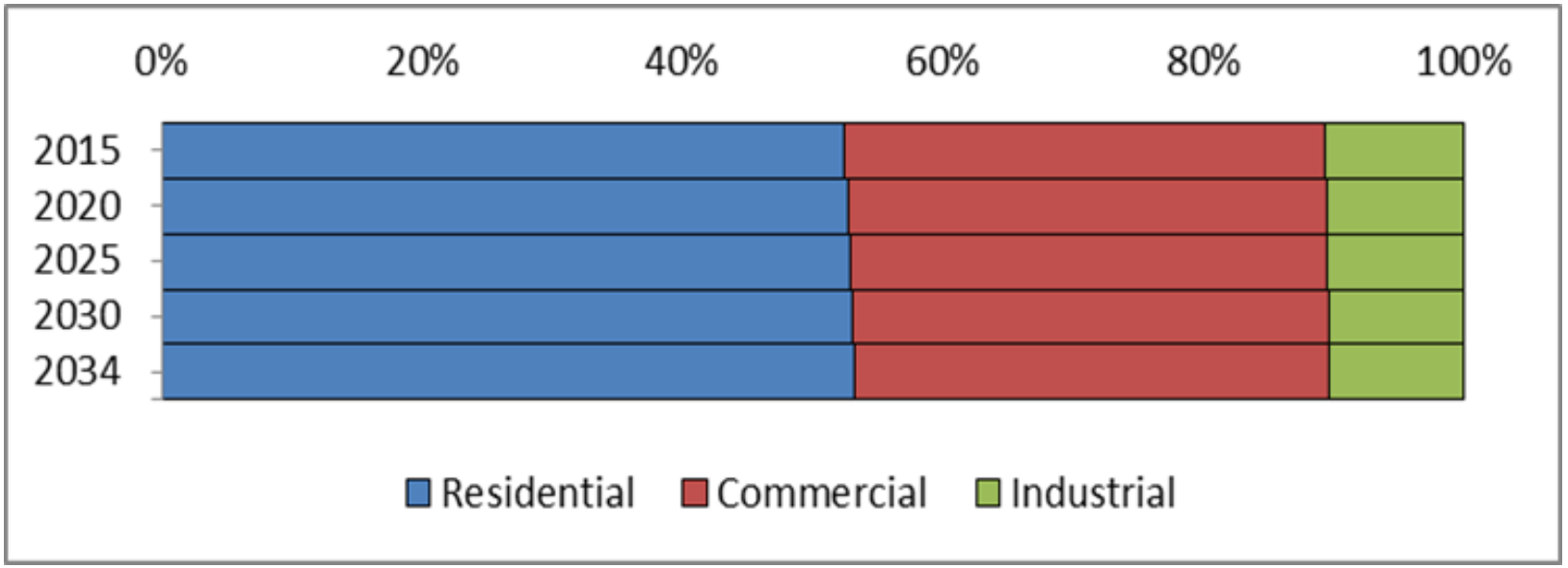
Two-Year Action Plan: Action Items will be noted throughout.

Throughput By Class



Cascade anticipates its **Core Customer Base will continue to grow** over the planning horizon, with annual throughput anticipated to increase **between 1.0% and 1.2% per year**.

Demand Forecast Summary



	Residential	Commercial	Industrial	System
2015 - 2019	1.30%	1.14%	0.95%	1.20%
2020 - 2024	1.24%	1.09%	0.94%	1.16%
2025 - 2029	1.17%	1.04%	0.92%	1.09%
2030 - 2034	1.09%	0.98%	0.89%	1.03%
2015 - 2034	1.20%	1.06%	0.93%	1.12%

Load Growth

Period	Low	Mid	High
2012	299,970,548	301,803,755	303,636,961
2020	310,390,084	321,795,524	333,666,127
2025	317,840,415	339,187,714	362,250,502
2030	326,362,761	357,990,520	393,367,474
2034	332,954,119	372,970,513	418,914,457
Deviation	*(40,016,394)*		*45,943,944*

Peak Day Forecast:

To ensure satisfaction of core customer demand on the coldest days

- Developed in conjunction with annual basis load forecasts.
- Enable Cascade to make prudent distribution system and peak capacity planning decisions to fulfill our responsibility to provide heating under all but force majeure conditions.
- Method:
  - Historically, Cascade developed peak day forecasts based on a 65 HDD day (0°F) to reflect the coldest day in Cascade's 60-year weather history.
  - In 2008, Cascade's IRP changed this practice to reflect the coldest day during the past 30 years. This record is held by December 21, 1990 at 61 HDDs.
  - In 2014, Cascade's IRP changed the HDD reference temperature to 60°F, therefore, a 60 HDD day is 0°F. The coldest day on record is still held by December 21, 1990 at 56 HDDs.
  - HDDs for the December 21, 1990 day is applied to each CityGates regression and escalated into the future at the forecasted therm usage annual growth rate.

Peak Day Forecast:

- This method rests on the assumption that core market load shape does not significantly change throughout the forecast horizon.
- Cascade believes the peak day forecast conservatively overestimates peak day usage because the base forecast does not explicitly include future conservation measures implemented by customers that would act to increase energy efficiency and reduce daytime therm usage.

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Distribution System pipeline, gate station, and other related projects

2015-2019 SPECIFIC PROJECTS

2015 Direct Cost	2016 Direct Cost	2017 Direct Cost	2018 Direct Cost	2019 Direct Cost	Total Direct
$ 41,140,277.59	$ 55,462,695.75	$ 54,878,529.67	$ 26,037,915.63	$ 20,477,377.43	$ 197,996,796.07

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Washington
Demand Side Management

Presented by Monica Cowlishaw
Manager, Energy Efficiency and Community Outreach

AGENDA:

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➢ Highlights

- Nexant Potential Study
  - EM&V
  - Inputs & Assumptions
  - Model
  - Inputs & Assumptions
  - Outcome
  - Incentive Level Scenarios
- Political & Technological Frontier
- Low Income Program Status
- Action Plan

HIGHLIGHTS

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- Separation of Oregon & Washington
- Nexant Study

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EM&V

Table 3-2: Total Participant vs. Billing Analysis Subsample Summary

Source	Metric	Residential		Commercial[17]	
		DHW	Furnace	Furnace	Boiler
Cascade Participant Database	Participants	83	833	18 (Census)	23 (Census)
	Equipment Eff. Installed	65%	90%	Assumed 91%	Assumed 90%
	Average Savings (Therms per Measure)	24	86	272	2644
Qualified Billing Analysis Participants	# of participants	50	53	8	5
	Confidence / Precision	90/8	90/11	90/20	90/30
	Avg. Equipment Eff. Installed	67%	95%	95%	91%
	Average Savings (Therms per Measure)	33	111	349[18]	1566
Actual Savings vs. Projected		39%	29%	28%	-41%

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INPUTS & ASSUMPTIONS

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- 20 year volume & customer figures by rate class
- Load Profile
- 2014 Avoided Costs
- Long-term Discount Rate = 4.17%
- Inflation Rate = 2%
- Transmission Loss Rate = 0.1959%
- Incentive level = 30%
- UCT under UG 121207
  - Cost effectiveness ≥ 0.90

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MODEL

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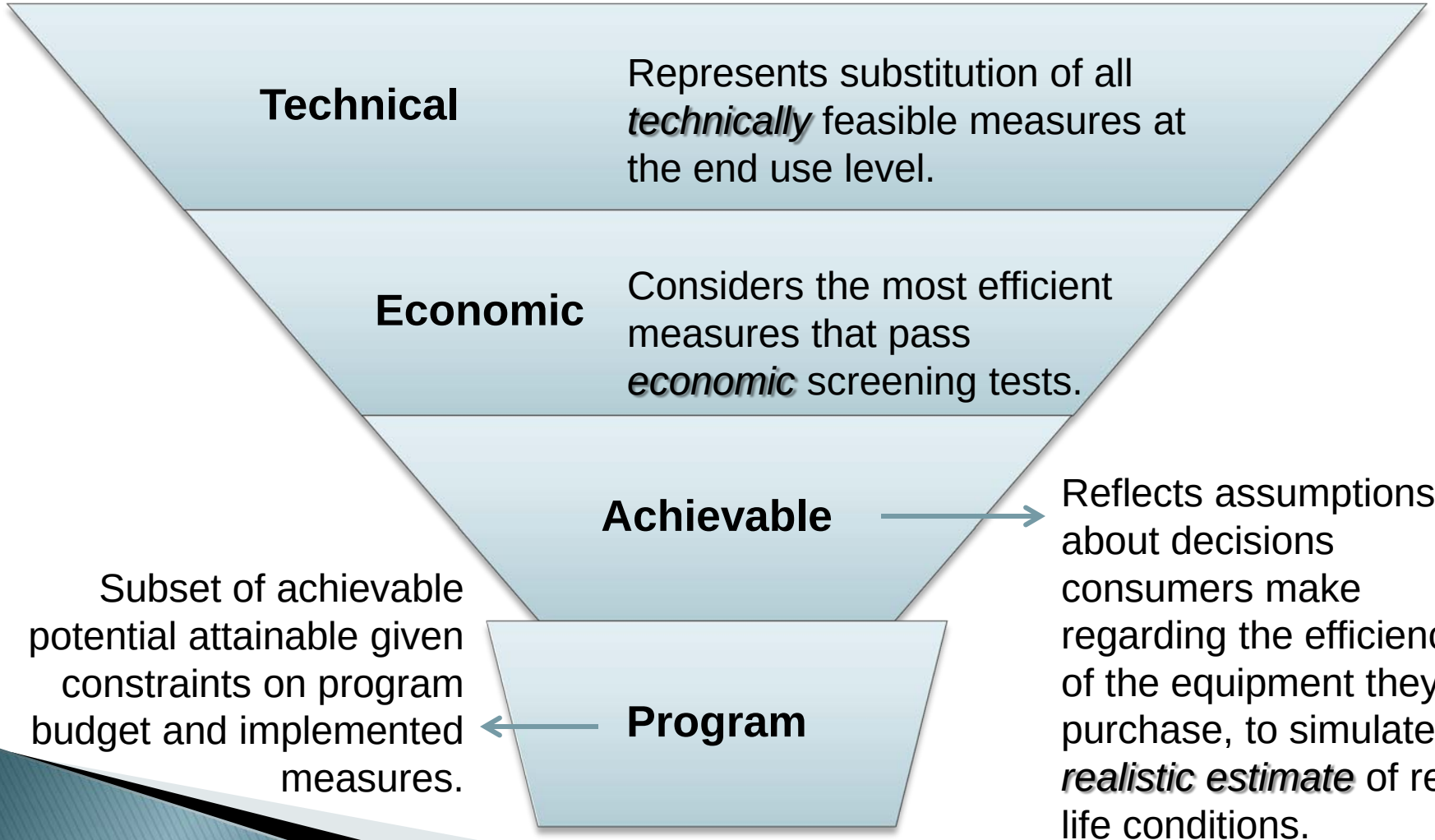

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PLAN

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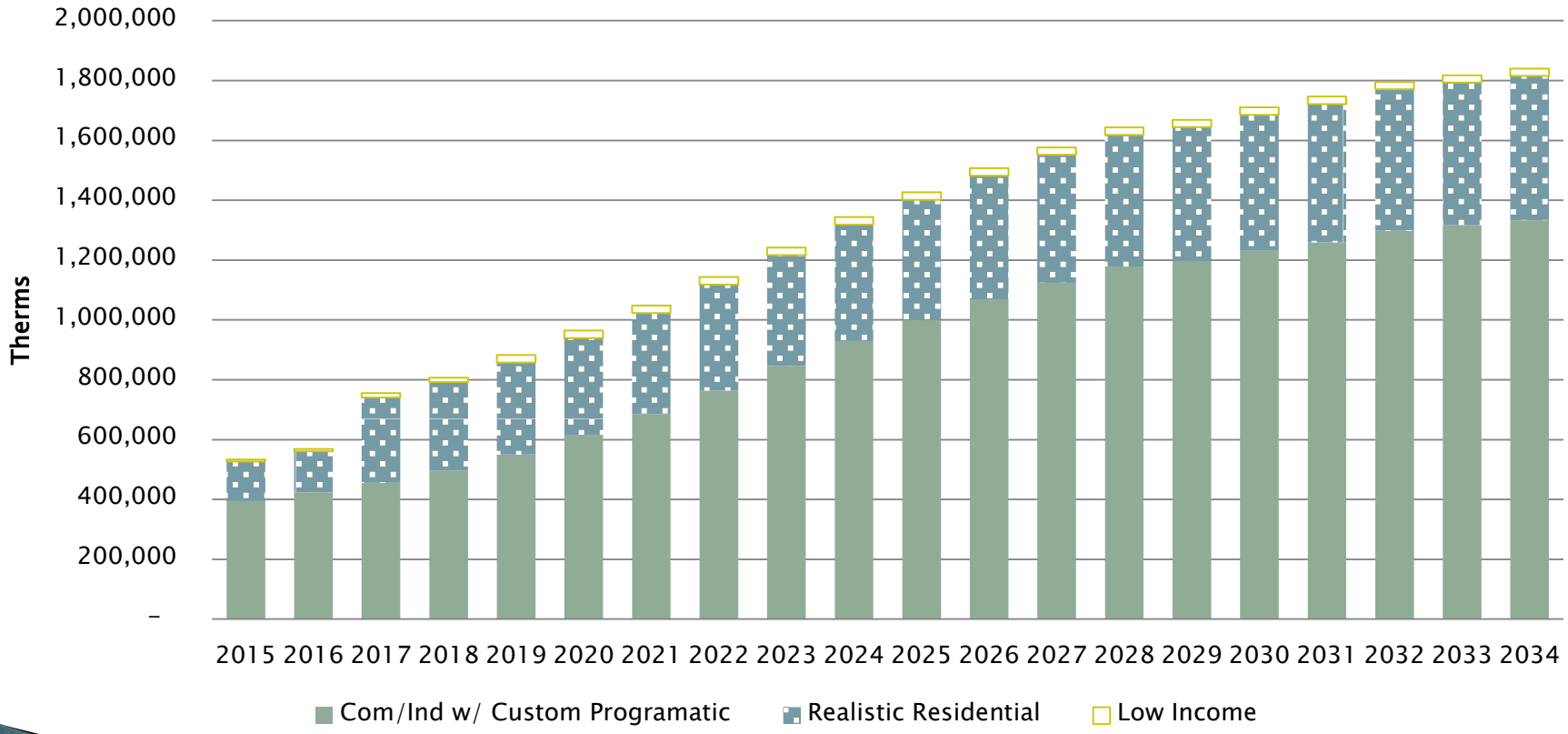
Annual Incremental Energy Savings
Program Goal Forecast 2015-2034



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INCENTIVE LEVEL MEASURE IMPACTS

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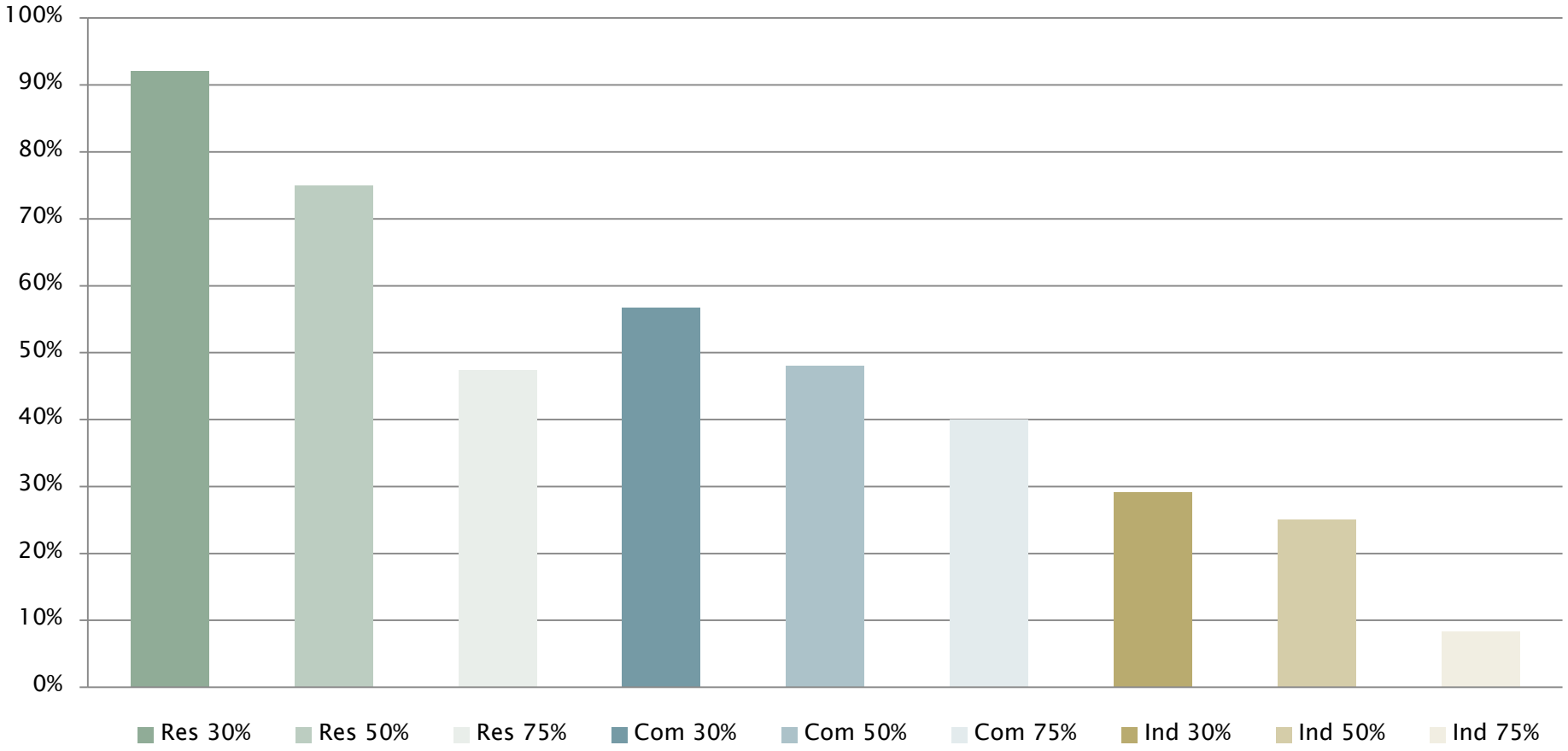

Current Measures Passing Cost-Effectiveness by Incentive Level

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TECHNOLOGICAL FRONTIER

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- Energy code changes
  - Water Heaters
  - Air Sealing
  - Furnaces
- NWPCC Building Forecast
- Emerging Technologies & NEEA Results
- Incorporation of new measures

POLITICS

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- State Legislation
  - SB 5854
- DOC Biennial Energy Report
- WCI GHG Cap & Trade Design
- Federal legislation traction
- C02/GHG Tax Options

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LOW INCOME

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- Declining trend in weatherization for Low-Income Natural Gas Heated Homes
  - US DOE-WAP Priority Guidelines
  - Current Low Income Weatherization Environment
- 2015 Therm savings projection is similar to 2014 therm savings achieved.
- The company has decreased expected savings from the 2012 IRP estimates due to these factors.

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- ➢ **Action Plan**

ACTION PLAN

- Reducing DSM chapter and transitioning to Conservation Plan in December, 2015.
- Support communities participating in the GUEP.
- Collaborate with NEEA to promote market transformation, technology research and implementation strategies.
- Discuss alternative incentive level options and potential tariff revisions with our CAG.

Questions?

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Overview

- Introductions ☑
- 2012 IRP
  - Demand Forecast ☑
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  - **Supply Side Resources** ⬎
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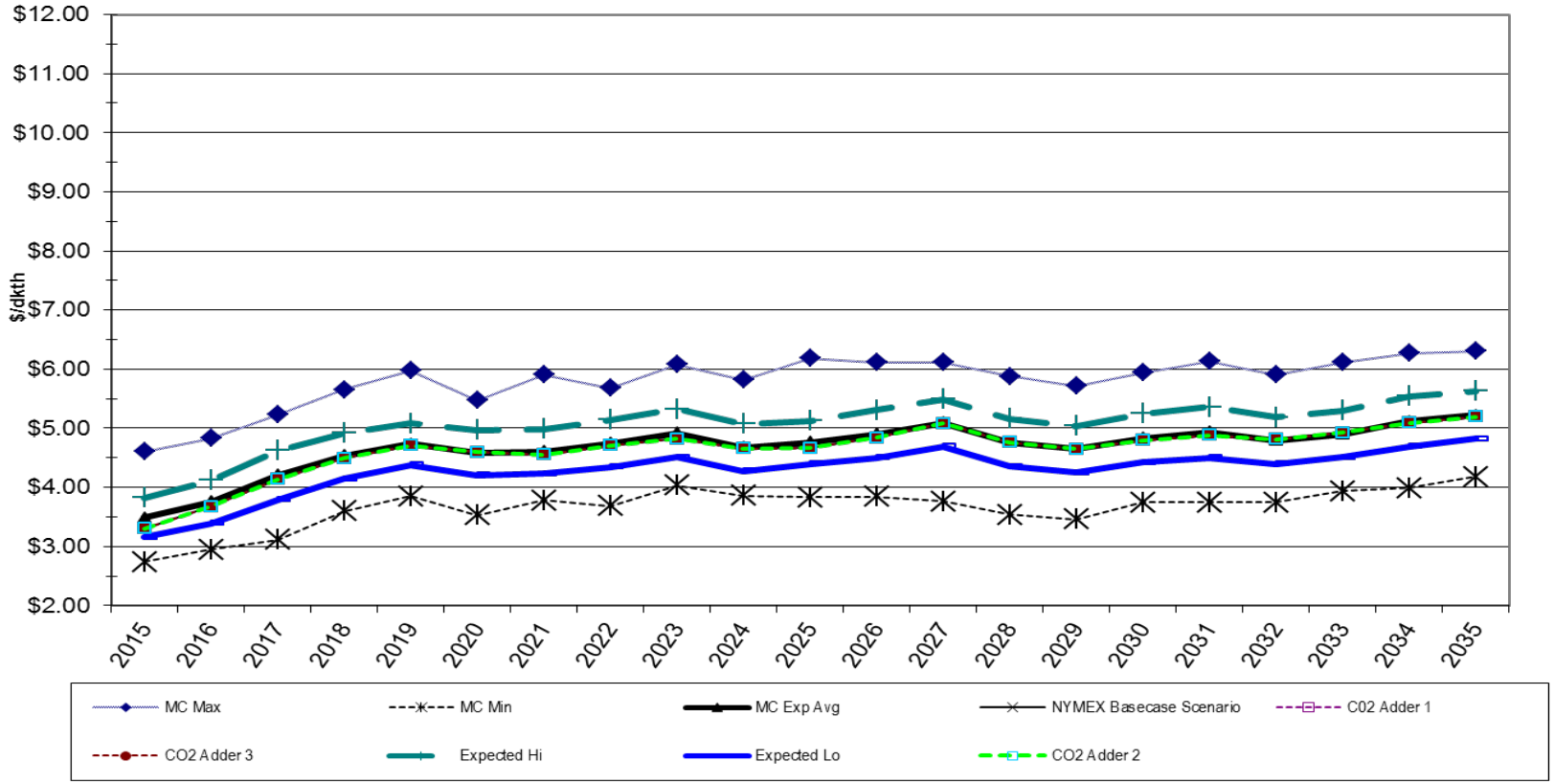
Two-Year Action Plan: Action Items will be noted throughout.

GSOC & Risk Management

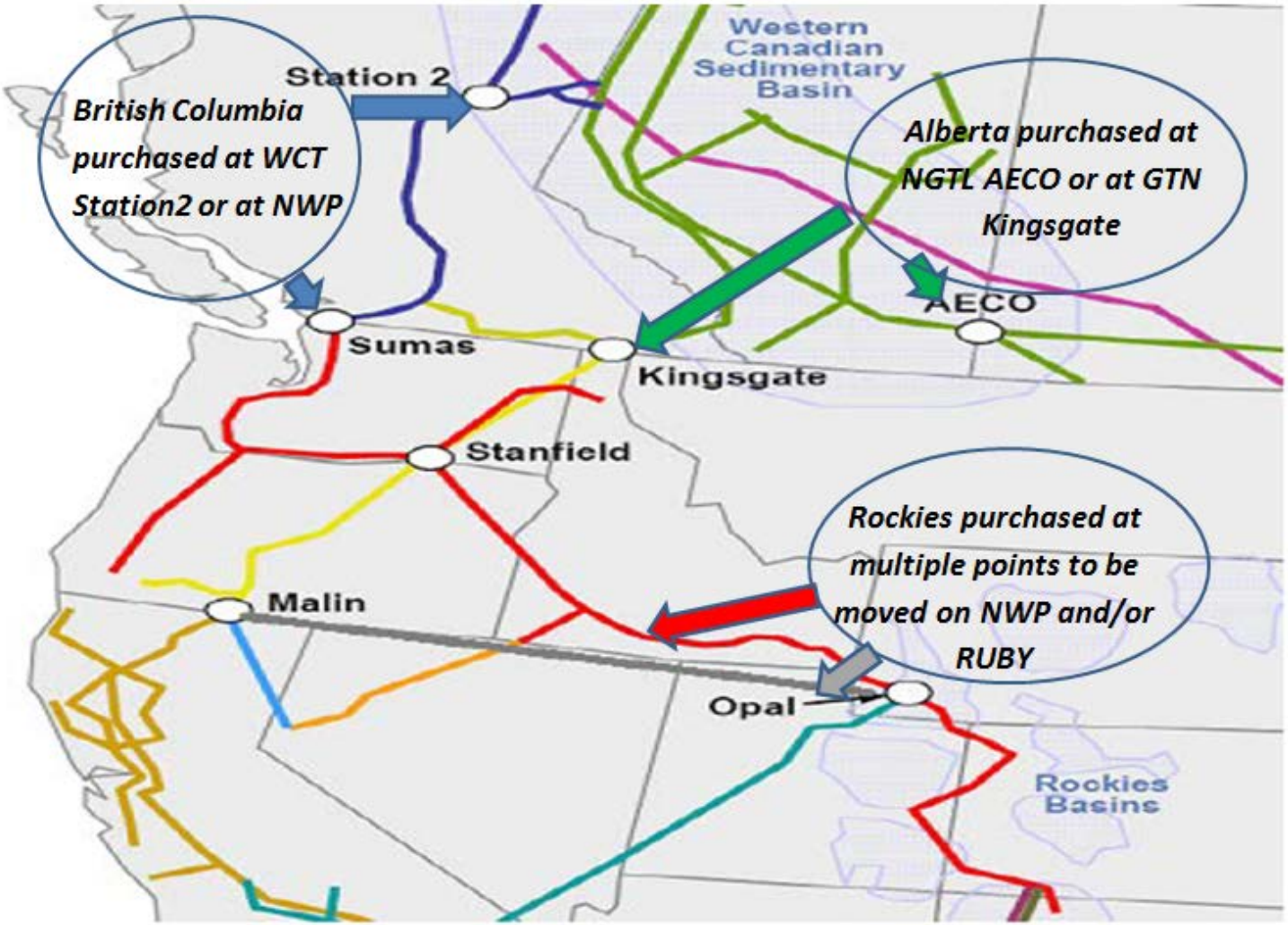
- In the 2014 IRP, Cascade has assumed that current forward price curves for natural gas are comparatively low and expected to remain in the $3-6 range.
- Approximately Year 1: 70-80% of annual requirements; Year 2: 40%, Year 3: 20%. GSOC should consider a modification from portfolio if: 1) reasonable concerns exist regarding the availability of supply in a particular basin; 2) the outer year 3 year forward price is 20% higher/lower than the front month over a reasonably sustained period.
- Due to expected lack of prolonged or significant price volatility, no financial derivatives are to be included in the portfolio. Hedging in the portfolio is through fixed priced physical gas supply contracts.

Price Picture

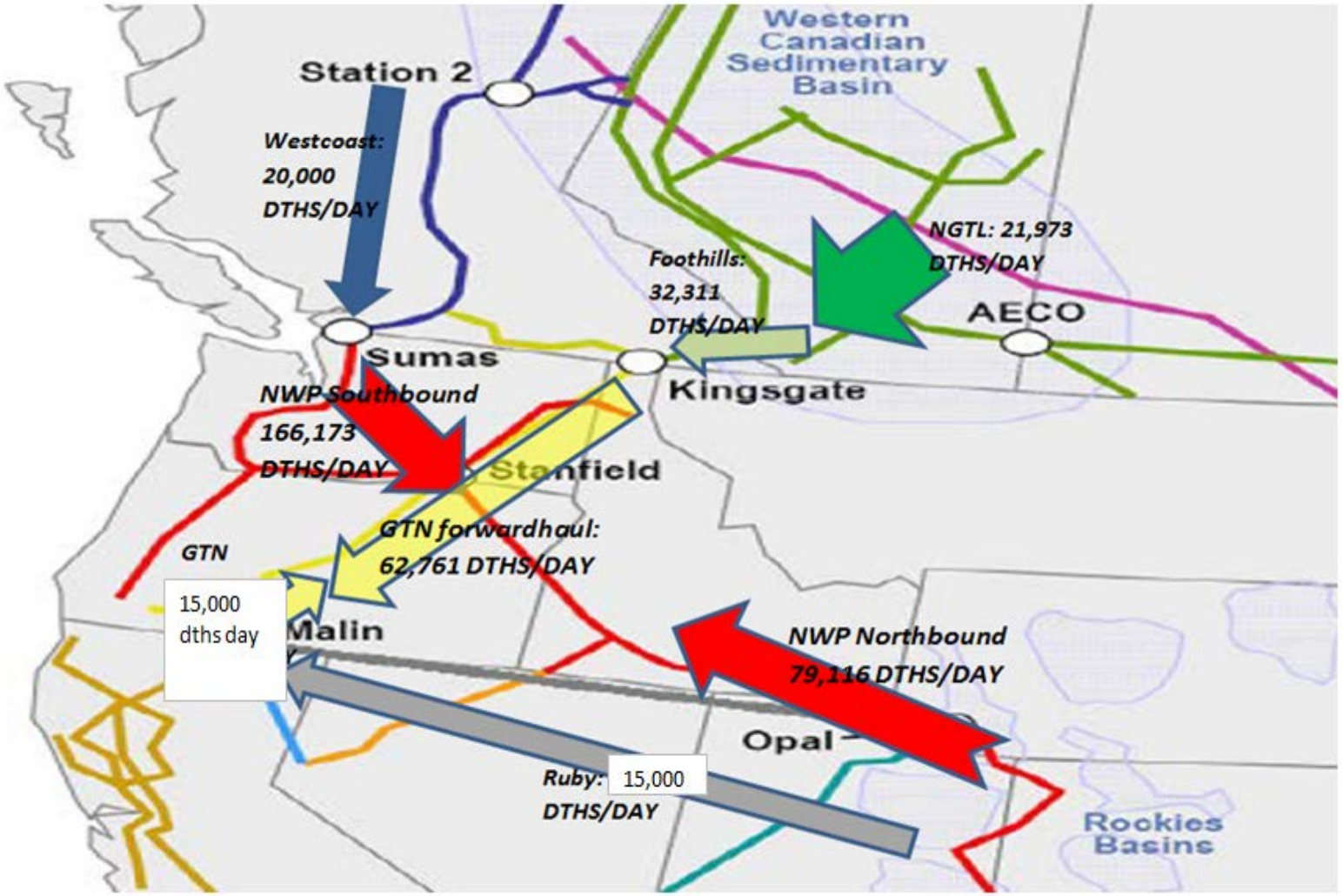
FIGURE 7-H
PRICE FORECAST-NYMEX
Average Annual Price



Principle supply and transport paths



Transport paths at time of 2014 IRP

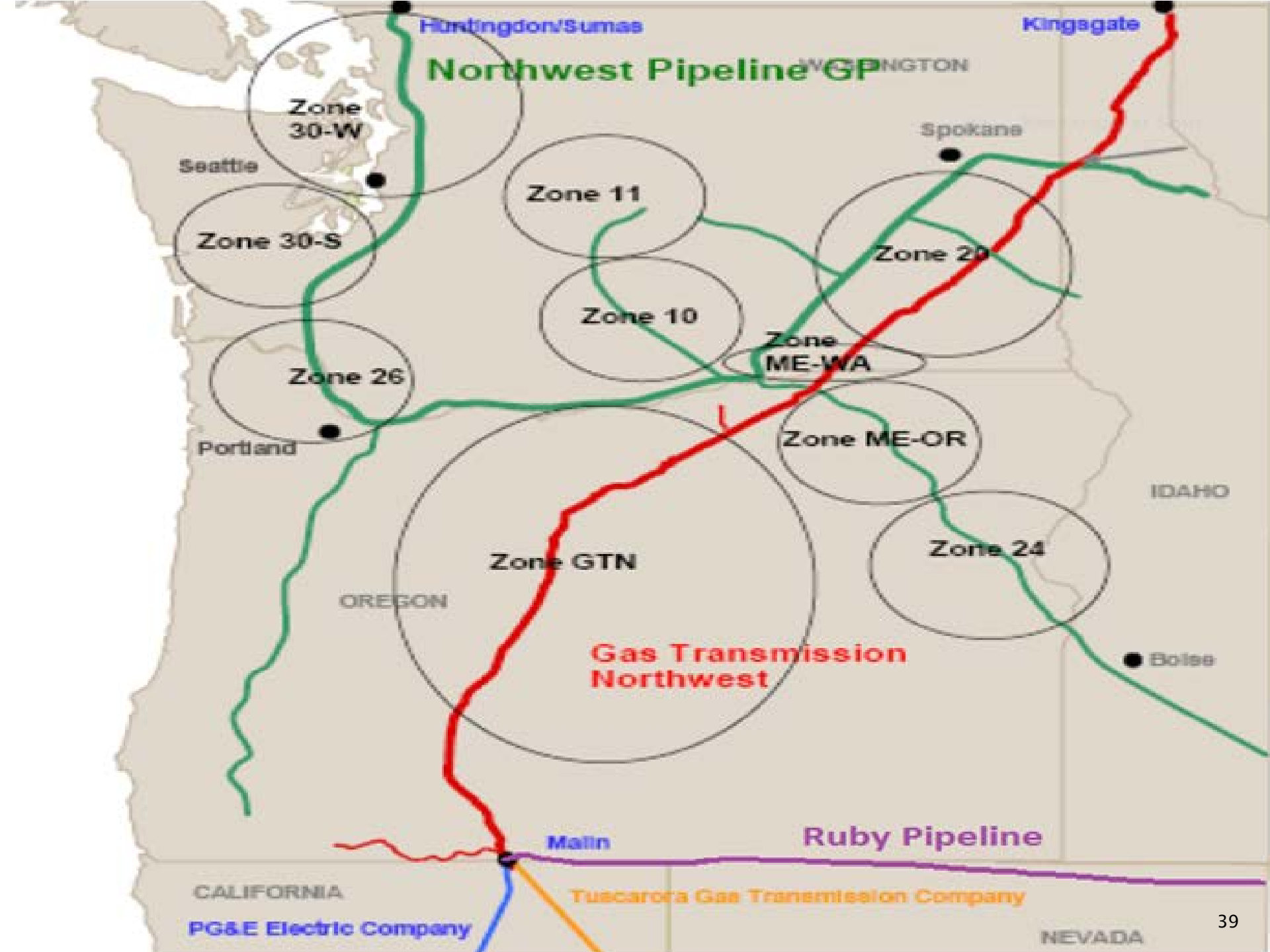


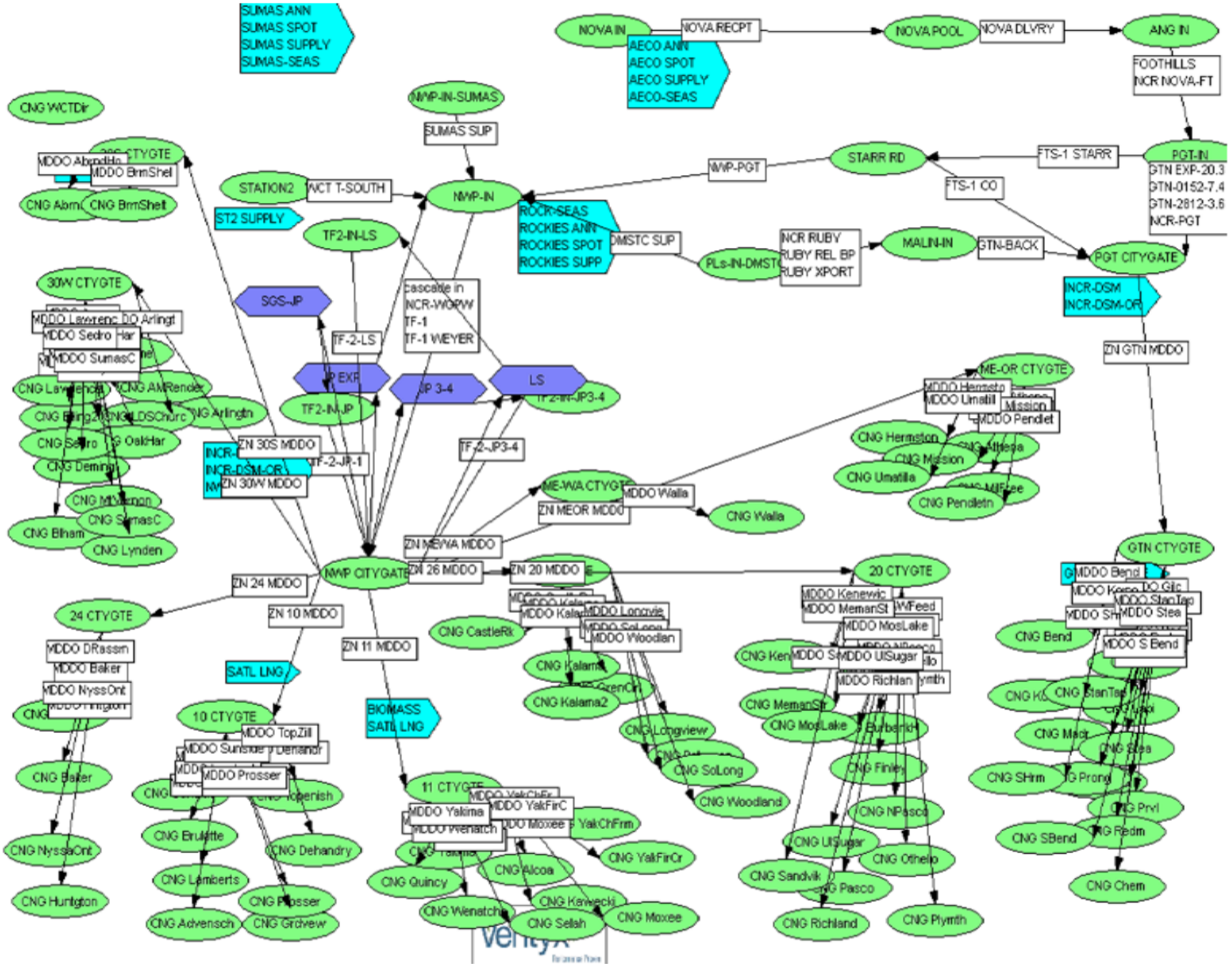

Huntingdon/Sumas
Kingsgate
Bellingham
/Ferndale
Mount Vernon
Oak Harbor/Stanwood
Seattle
WASHINGTON
Northwest
Pipeline
Spokane
Starr Road
Wenatchee
Jackson Prairie
Storage
Selah
Plymouth LNG Storage
Stanfield
Interconnect
Portland
Pendleton
Mission
Tap
IDAHO
OREGON
Gas Transmission
Northwest
Boise
Malin
Turquoise
Flats
CALIFORNIA
Ruby Pipeline

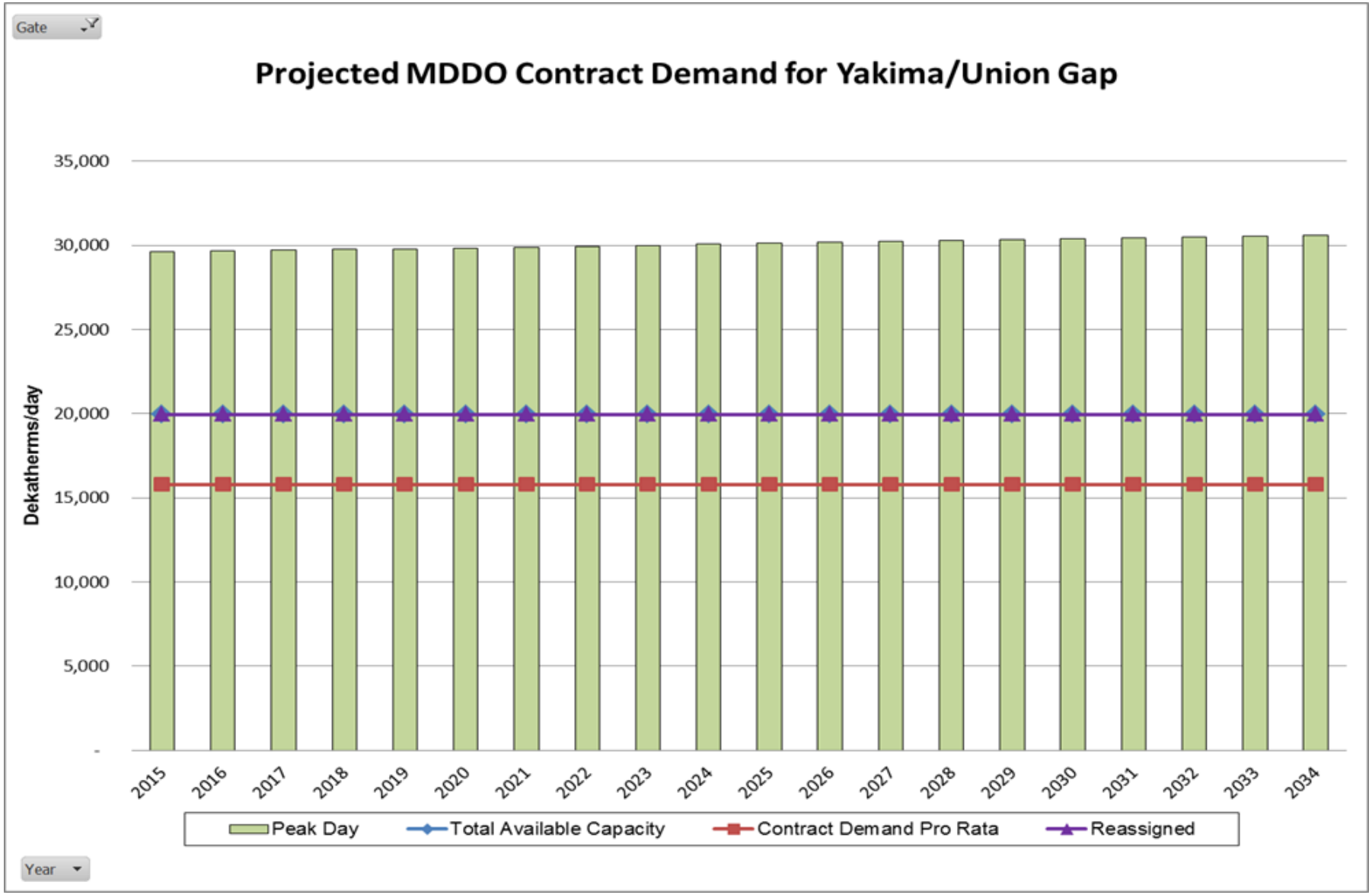
Storage Services

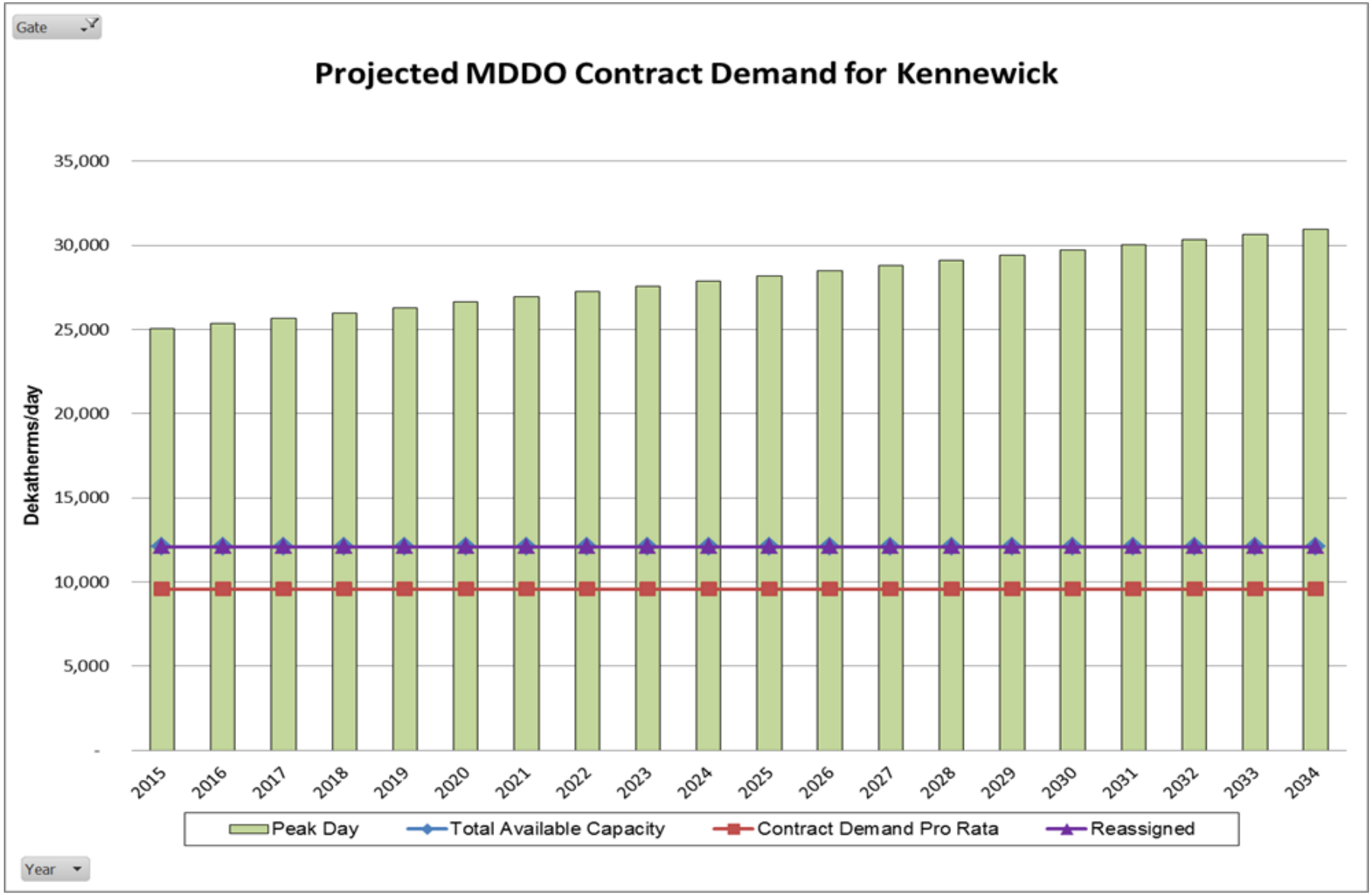
	Storage Capacity (therms)	Withdrawal (therms/day)
Jackson Prairie (Principle)	6,043,510	167,890
Jackson Prairie (Expansion)	3,500,000	300,000
Plymouth LNG	5,622,000	600,000
Jackson Prairie (new - 2012)	2,812,420	95,770

- Both of the Jackson Prairie facilities and Plymouth are located directly on NWP's transmission system.
- Because of that, storage withdrawal rates can be changed several times during an individual gas day to accommodate weather driven changes in core customer requirements.


Huntingdon/Sumas
Kingsgate
Northwest Pipeline GP
Zone 30-W
Seattle
Spokane
Zone 11
Zone 30-S
Zone 20
Zone 10
Zone ME-WA
Zone 26
Portland
Zone ME-OR
IDAHO
Zone GTN
Zone 24
OREGON
Gas Transmission Northwest
Boise
Malin
Ruby Pipeline
CALIFORNIA
Tuscarora Gas Transmission Company
PG&E Electric Company
NEVADA


SUMAS ANN
SUMAS SPOT
SUMAS SUPPLY
SUMAS-SEAS
NOVA IN
NOVA RECPT
NOVA POOL
NOVA DLVRY
ANG IN
AECO ANN
AECO SPOT
AECO SUPPLY
AECO-SEAS
FOOTHILLS
NCR NOVA-FT
CNG WCTDir
NWP-IN-SUMAS
SUMAS SUP
STARR RD
FTS-1 STARR
PGT-IN
GTN EXP-20.3
GTN-0152-7.4
GTN-2812-3.6
NCR-PGT
STATION2
WCT T-SOUTH
NWP-IN
NWP-PGT
FTS-1 CO
ST2 SUPPLY
TF2-IN-LS
ROCR-SEAS
ROCKIES ANN
ROCKIES SPOT
ROCKIES SUPP
DMSTC SUP
NCR RUBY
RUBY REL BP
RUBY XPORT
MALIN-IN
GTN-BACK
PGT CITYGATE
30W CTYGTE
SGS-JP
Cascade in
NCR-WOPW
TF-1
TF-1 WEYER
NCR-DSM
NCR-DSM-OR
TF-2-LS
JP EXP
JP 3-4
LS
TF2-IN-JP
TF2-IN-JP3-4
ZN GTN MDDO
ME-OR CTYGTE
ZN 30S MDDO
ZN 30W MDDO
TF-2-JP-1
TF-2-JP3-4
ME-WA CTYGTE
ZN MEOR MDDO
MDDO Walla
CNG Walla
ZN MEWA MDDO
NWP CITYGATE
ZN 26 MDDO
ZN 20 MDDO
ZN 24 MDDO
ZN 10 MDDO
ZN 11 MDDO
24 CTYGTE
20 CTYGTE
GTN CTYGTE
SATL LNG
BIOMASS
SATL LNG
10 CTYGTE
11 CTYGTE
CNG CastleRk
CNG Kalama
CNG Kalama2
CNG Longview
CNG SoLong
CNG Woodland
CNG Bend
CNG Baker
CNG NyssaOnt
CNG Huntgton
CNG Ericsn
CNG Brulette
CNG Dehandry
CNG Lamberts
CNG Advensch
CNG Grdview
CNG Quincy
CNG Wenatchi
CNG Alcoa
CNG Kenwicki
CNG Sellah
CNG Moxee
CNG YakFirCr
CNG Richland
CNG Sandvik
CNG Othello
CNG NPasco
CNG Finley
CNG Plymth
CNG Chem
CNG Hermston
CNG Umatilla
CNG Pendleto
CNG Mission
CNG Lynden
CNG Blham
CNG MtVernon
CNG SumasC
CNG Deming
CNG Arlingtn
CNG Lawrenc
CNG Sedro
CNG OakHar


Gate
Projected MDDO Contract Demand for Yakima/Union Gap
35,000
30,000
25,000
20,000
15,000
10,000
5,000
-
Dekatherms/day
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
Peak Day
Total Available Capacity
Contract Demand Pro Rata
Reassigned
Year


Gate
Projected MDDO Contract Demand for Kennewick
35,000
30,000
25,000
20,000
15,000
10,000
5,000
-
Dekatherms/day
2015
2016
2017
2018
2019
2020
2021
2022
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2027
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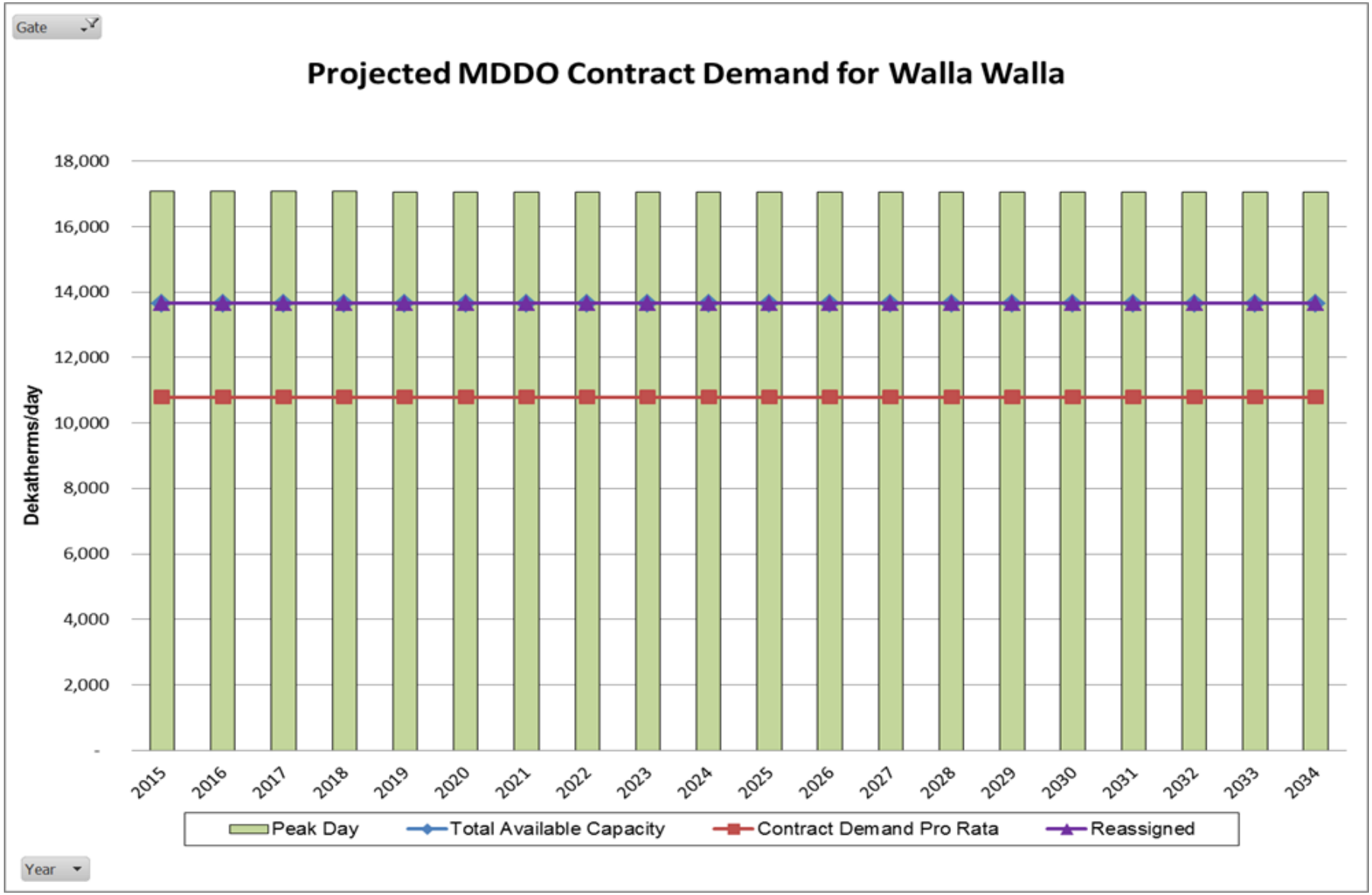
2030
2031
2032
2033
2034
Peak Day
Total Available Capacity
Contract Demand Pro Rata
Reassigned
Year


Gate
Projected MDDO Contract Demand for Walla Walla
Dekatherms/day
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
-
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
Peak Day
Total Available Capacity
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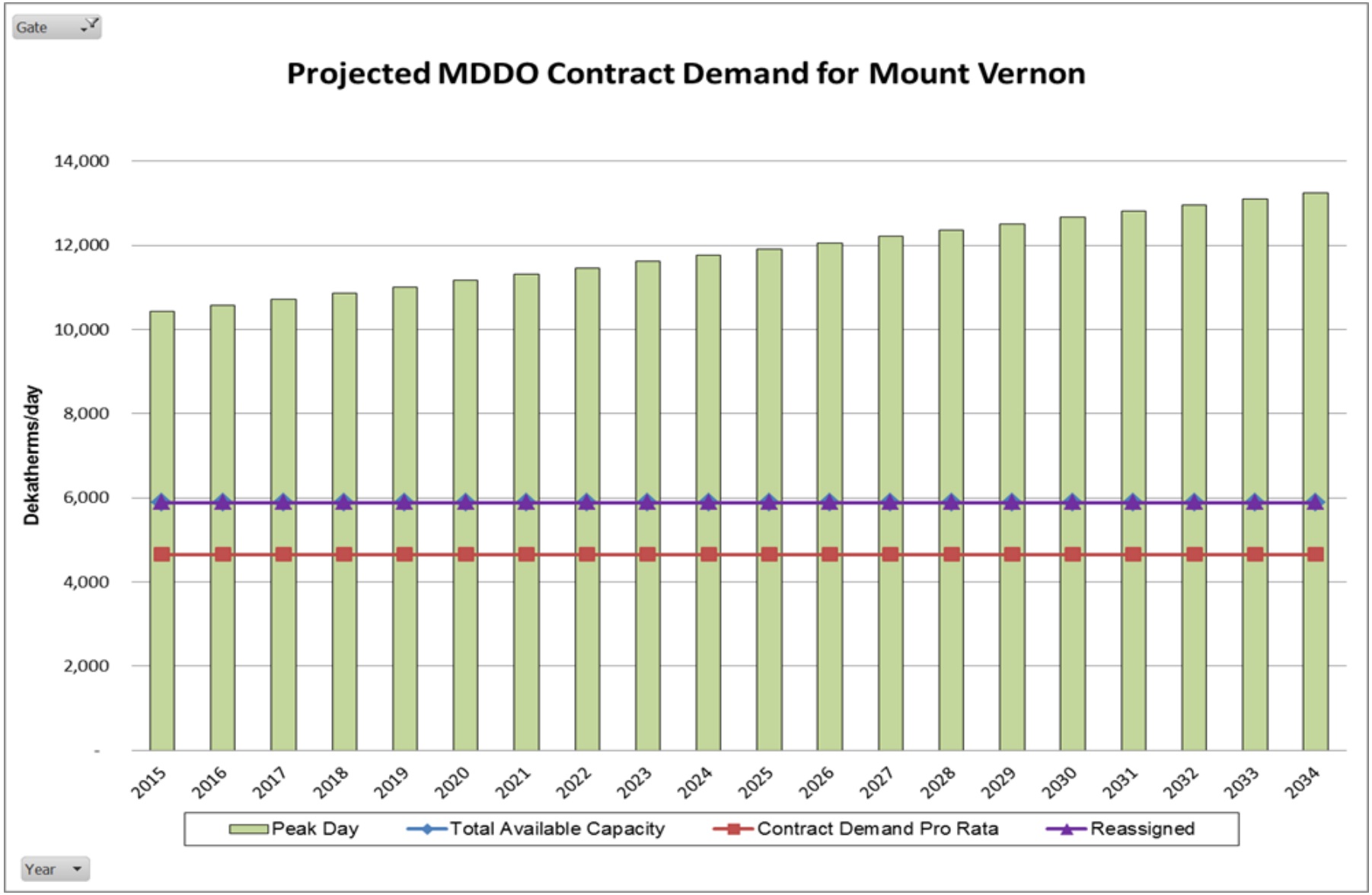
Reassigned
Year


Gate
Projected MDDO Contract Demand for Mount Vernon
14,000
12,000
10,000
8,000
6,000
4,000
2,000
-
Dekatherms/day
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
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2030
2031
2032
2033
2034
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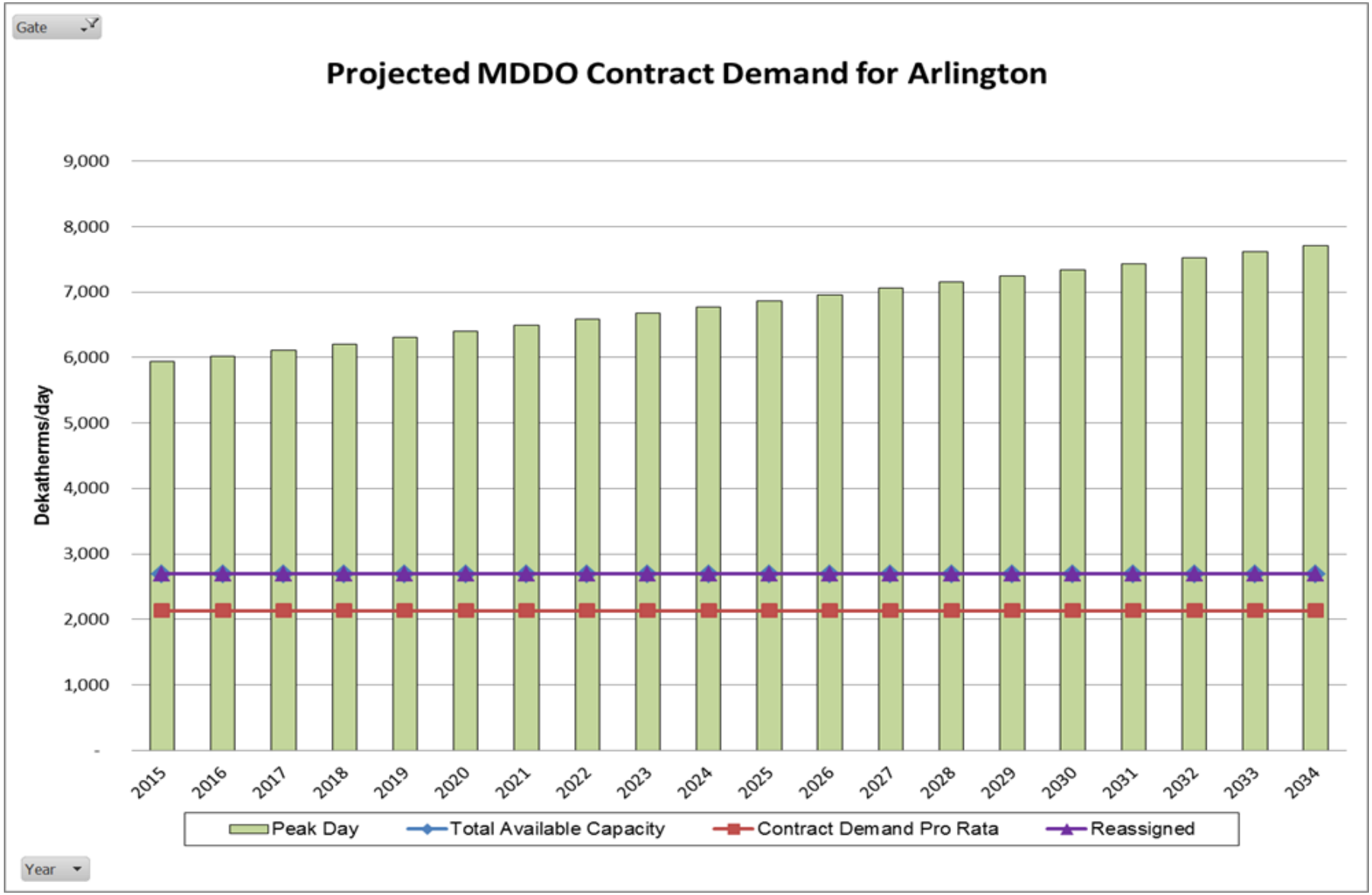
Gate
Projected MDDO Contract Demand for Arlington
Dekatherms/day
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
-
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
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Contract Demand Pro Rata
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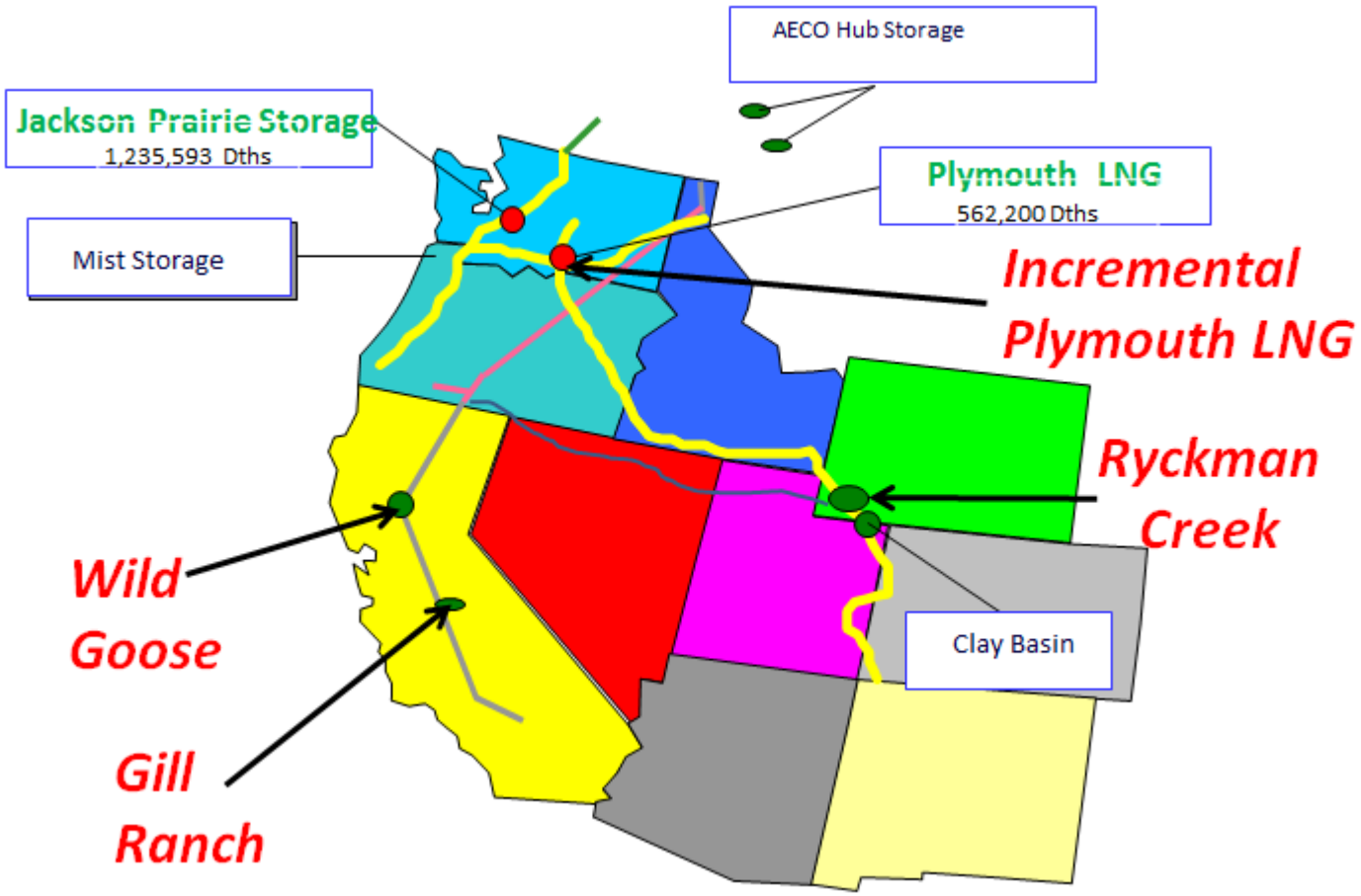
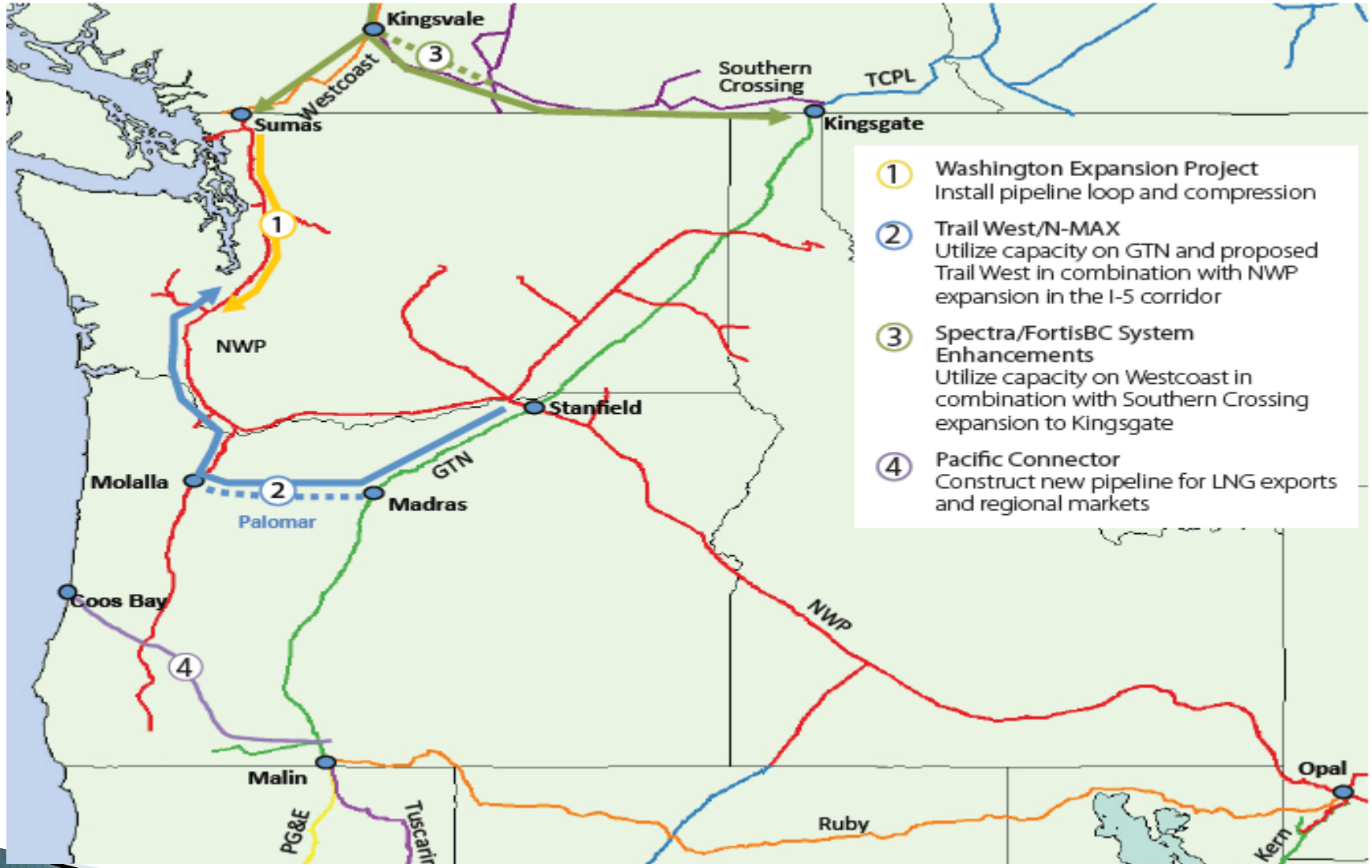
Sampling of citygates with peak day upstream pipeline capacity concerns

Citygate	2021 Capacity Under-utilized/(Short) on Peak Day	2026 Capacity Under-utilized/(Short) on Peak Day	2031 Capacity Under-utilized/(Short) on Peak Day	2032 Capacity Under-utilized/(Short) on Peak Day	2033 Capacity Under-utilized/(Short) on Peak Day
Arlington	-3,795	-4,266	-4,735	-4,829	-4,922
Beauchene Rd (Moxee)	-1,335	-1,373	-1,410	-1,418	-1,425
Bend	-5661	-7516	-9355	-9722	-10087
East Stanwood	-578	-658	-738	-753	-770
Kennewick	-14,842	-16,408	-17,954	-18,262	-18,568
Madras	-1272	-1366	-1463	-1482	-1502
Mount Vernon	-5,428	-6,179	-6,925	-7,074	-7,222
North Pasco	-7,136	-7,675	-8,207	-8,313	-8,418
Oak Harbor/Stanwood	-3,980	-4,673	-5,365	-5,503	-5,640
Redmond	-7510	-8590	-9662	-9875	-10088
S. Bend	-8800	-11156	-13495	-13960	-14425
Stearns	-2485	-3071	-3652	-3767	-3883
Walla Walla	-3,414	-3,409	-3,408	-3,408	-3,408
Yakima/Union Gap	-9,942	-10,210	-10,480	-10,533	-10,587

Area Storage



Alternative Resources– another view (source: NWGA)



Addressing Resource Concerns

Peak Day Capacity shortfalls at Arlington, East Stanwood, Mount Vernon, Oak Harbor:

- Best met through the participation in NWP's Sumas Expansion, with an expected 2018 start date.
- In the interim we the company will continue to work with NWP to better align MDDOs with contract demand, acquire additional contract demand (receipt rights).

Peak Day capacity shortfalls regarding Kennewick, North Paso, Walla Walla, and Yakima and in part Central Oregon (Bend, South Bend, Redmond, Stearns, Madras:

- Seems most prudent to work with NWP to look at a combination of incremental Plymouth LNG and segmented NWP capacity to help serve the area lateral.
- Cascade is currently working with several parties, including NWP, whereby our secondary subordinate scheduling priority under TF-2 will be elevated to primary firm based on unutilized corridor rights.
- Essentially make improve reliability to use Plymouth to delivery gas not just to Washington but also to deliver storage volumes to Stanfield and onto GTN to help meet serve load in Central Oregon (Bend, Madras, Redmond, South Bend, Sterns). We plan to secure this arrangement within the next year.

Addressing Resource Concerns

This will still leave approximately 10-15,000 dths/ of peak load shortfall in Central Oregon that will need to be addressed

- Modeling suggests that 350,000 dths of working inventory at Ryckman Creek beginning in 2018, combined with existing Ruby and GTN capacity can be utilized to meet these needs and provide arbitrage opportunities.
- Uncertain at this time as concerns regarding reliability at Ryckman
- On a parallel path to work with NGTL, Foothills and GTN pipelines to secure incremental capacity to move AECO supplies to serve Central Oregon. We are working with NGTL and Foothills on potential expansions beginning in 2018
- A decision regarding which of these options to aggressively pursue will be made during the 2016-2017 timeframe.

The Company will continue to explore options to incorporate biogas into its portfolio, as specific projects are identified in our service territory. A few potential projects have been proposed by outside parties. We are currently evaluating these proposals and considering appropriate tariff and operating guidelines.

20 Year Portfolio Costs NPV

SCENARIO NAME	IN $000s	AVG. COST PER THEM
As Is Scenario	$ 5,198,207	$ 0.609505
Base Case	***$ 5,198,207***	***$ 0.609505***
All in Case	$ 5,199,687	$ 0.609835
Ryckman Creek	$ 5,209,426	$ 0.620024
Limited Canadian Imports	$ 5,212,722	$ 0.620410
Mist	$ 5,247,142	$ 0.624446
All Storage Options	$ 5,265,794	$ 0.626633
T-South Enhancement with incremental Sumas (WA Expansion)	$ 5,281,914	$ 0.628523
T-South Enhancement/Southern Crossing	$ 5,292,254	$ 0.629736
Pacific Northwest Regional (NMAX, WA Expansion)	$ 5,293,561	$ 0.629889
Wild Goose	$ 5,294,807	$ 0.630035
Gill Ranch	$ 5,313,505	$ 0.632228

Questions?

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