

Northwest Pipeline Shipper Advisory Board Meeting

Spring 2025

April 9, 2025

Shipper Advisory Board Agenda

- Welcome and Safety Moment
- 2. Western Interstates Growth and M&ERP
- 3. North Mist Update
- 4. Northwest Coalition for Energy Choice What's New
- 5. WECC Resource Adequacy
- 6. Rockies Growth Outlook
- 7. Business Development Update
- 8. Government Affairs Keys to Success
- 9. NextGen Gas

Lunch Break

- 10. Market Fundamentals Energy GPS
- 11. Passage Modernization Project
- 12. Seattle District Operations Update
- 13. Invoicing the CRM Surcharge
- 14. Winter Recap and Summer Road Map
- 15. Mastio Customer Survey
- 16. Closing

Gary Venz

Jerimiah Ross

Jordan McDonough

Christine Wallat

Scott Johnson (NWN)

Natasha Jackson

Kris Raper (WECC)

Jason Connelly

Christine Wallat

Jimmie Hammontree

Kasey St. John

Chad Bracher

Jeff Richter

Beau Galloway

Sam Chesnut

Brad Dillon

Mark Warren

Carolyn Ebner

Mark Mohan

SAB Business Meeting – April 9, 2025

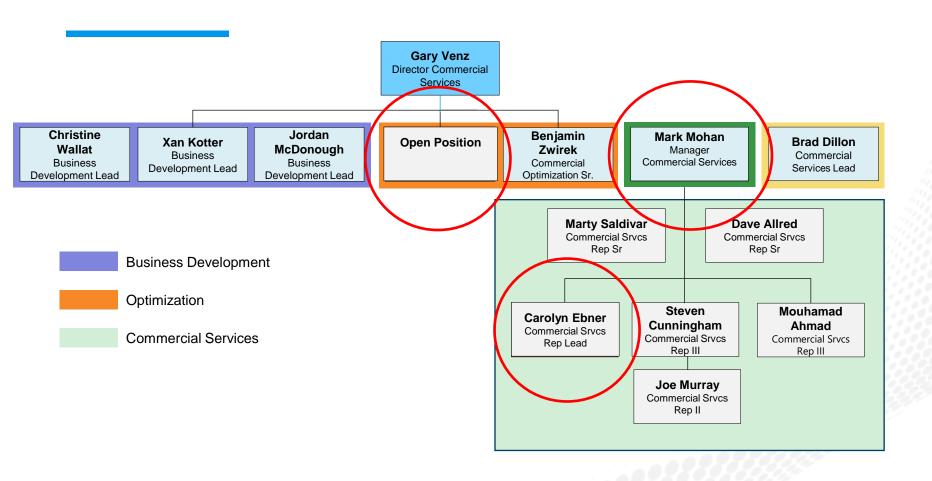
- Feel free to ask questions at any time.
- To keep the atmosphere light and fun we have asked presenters to share a joke.
- Feedback is appreciated.
- Breaks will be provided to accommodate both B&B.
- Lunch will be provided (at lunch time)
- Presentation is posted at: Williams - Northwest Pipeline
- Fall SAB is right around the corner. Please think about agenda items you would like us to consider...and share.



Welcome & Safety Moment

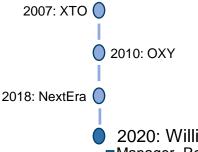
Gary Venz, Director Commercial Services

Northwest Pipeline Commercial Team - Organizational Update



Introduction

Professional Timeline



- 2020: Williams
- ■Manager- Regulated Rev Acctg
- ■Commercial Development- Transco



Mark Mohan Manager Commercial Services



Houston Tower

281-217-5295 mark.mohan@williams.com

Hobbies

- Family time
- Coffee Shops
- Movies
- **Houston Sports**
- **Tennis**



2024 Northwest Pipeline Highlights

What kept us busy:

#3 Mega Pipes

Mastio Customer Survey

- 69 respondents
- Improvement in nearly every category

Executed M&ERP

Commitment to program

- Sumas
- Green River
- Mecham
- Pleasant View

Government Affairs

Proactive Posture

 Investment in GA&O as strategic partner

10 Year Contract Life

Critical to financial strength

 Fully contract between Sumas and Opal – Both directions

Commercialized Four Projects

Responsive to customer needs

- Kelso Beaver Reliability Wild Trail
- Naughton Coal-to-Gas
- Huntingdon Connector

Damage Prevention

Public awareness



2nd Highest Throughput

Critical energy delivery system

- 930 Bcf transported in 2024
- Record peak day January 15 -~4.5 Bcf

Gas/Electric Coordination

Stood up After MLK Weekend

- Winter readiness
- Regional energy study
- · Development of common messages
- Regional symposium

Plymouth Vaporization

Modernization and investment

 Critical to NWP operation during peak events and customers who contract for services

2025 Northwest Pipeline Focus Areas

What we are working on:

Get better everyday

- Respond to customer feedback
- Organizational agility to grow NWP commercial talent
- Provide creative solutions to meet customers' needs that are executable

Execute on Projects

Do what we said we were going to do

- · Plethora of projects require deliberate organizational alignment
- Growth/M&ERP

Commercial Excellence | Gas/Electric Coordination |

Ongoing participation

2025 has key deliverables associated with work started in 2024

Digital Transformation

Investment in technology

Passage future state

Safe/Reliable Operator

Critical energy delivery system

- · Complete planned maintenance and keep gas flowing to our customers
- Winter readiness focus

What else?

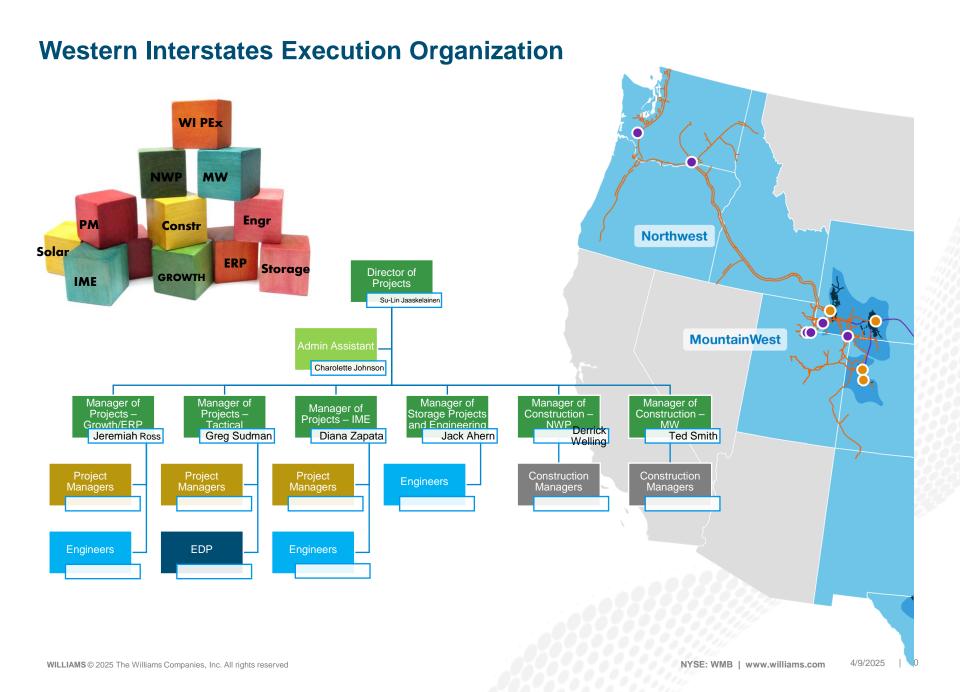
Focus on Being #1

- **Environmental Stewardship**
- GA&O front and center
- M&ERP phase II Development
- Doing things the right way for the right reasons



Western Interstates Growth and M&ERP

Jeremiah Ross, Manager Projects Western Interstates Jordan McDonough, Business Development Lead Christine Wallat, Business Development Lead



Western Interstates Priorities



Culture of Transparency & Innovation

Financial Acumen & Presentation Quality

PM Bootcamp Revamp

Leadership Development



Business Process Modernization

Schedules for **Every Project** Benchmarking & Estimating Tools

Value Engineering & **Alternatives** Analysis

Project Hub & Project Workflow



Outage Optimization Maintenance Capital Programs & Optimization

Western Interstates Execution Strategy

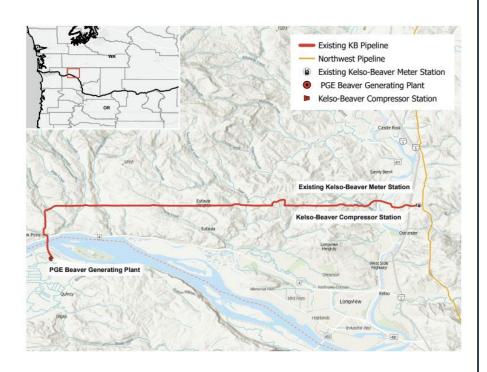
Document Controls Strategy Advance

Baseline

Baseline Performance

Kelso-Beaver Reliability Project

The Kelso-Beaver (KB) Reliability Project will provide the firm lateral transportation service necessary for shippers to access and utilize the state-approved North Mist Project.



Project Benefits:

- The KB Reliability Project adds the natural gas infrastructure necessary to meet the growing energy needs of the Pacific Northwest.
- By enhancing system reliability, the KB Reliability Project ensures consistent energy delivery even during periods of erratic winter demand, providing peace of mind for communities and businesses served by Northwest Pipeline.
- The KB Reliability Project supports reliability for the region through access to diverse storage supply.
- Access to additional storage will support the availability of on-demand natural gas peaking facilities. These facilities help mitigate brownouts or blackouts when power demand exceeds renewable energy sources.
- The additional storage at the North Mist Project will reduce natural gas price volatility, an ongoing concern for the region.

Kelso-Beaver Reliability Project Scope:

Acquisition: KB Pipeline – 18 miles of 20"

Path: Expansion of KB Pipeline to make it bi-directional

Volume: 131 MDth/d into NWP Pipeline and 52 MDth/d delivery

into Mist

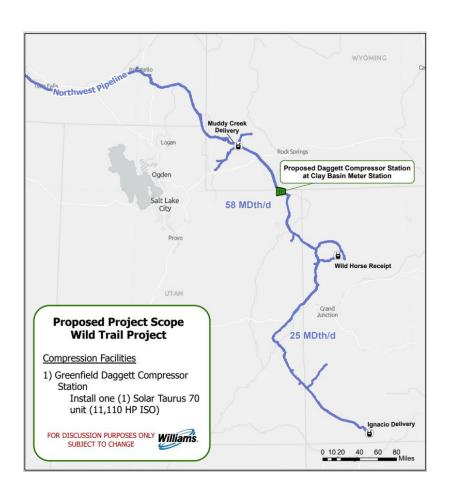
Facilities: 5,500 HP electric compression

Storage: NWP subscribed 1.6 bcf on the Mist Resiliency Project

Target ISD: Q4 2028

Wild Trail

Integrated expansion of the mainline to provide firm incremental transportation of 83 MDth/d from the Wild Horse receipt point in Rio Blanco, CO with delivery to Muddy Creek and Ignacio



Project Benefits:

- Replaces displacement reliant capacity with physical capacity in the expansion corridor providing additional supply for coal conversions and growing demand
- Supports debottlenecking of the White River Hub for egress to access California markets via deliveries to Kern River

Wild Trail Project Scope:

Path: White River Hub to Kern River

White River Hub to El Paso

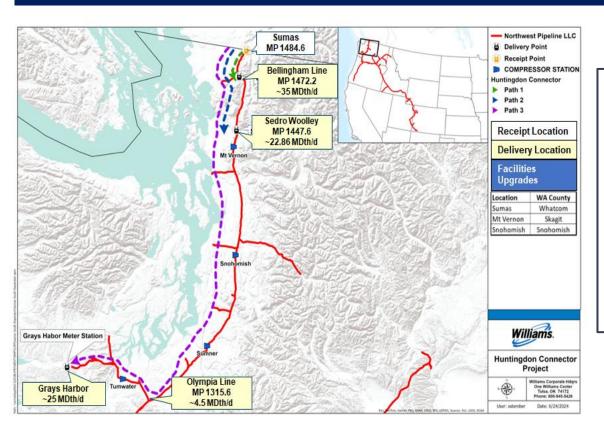
83 MDth/d Volume:

Facilities: Greenfield compressor in Daggett County, UT.

Target ISD: Q4 2027

Huntingdon Connector Project

Integrated expansion of the mainline to provide firm incremental transportation up to 87.4 MDth/d from the Sumas receipt point in Whatcom County, Washington to various delivery points south along the I-5 corridor.



Project Benefits:

Provides a solution for an increase in PacNW demand while reducing NOx emissions

Huntingdon Connector Project Scope:

Path: Sumas to delivery points in the I5

corridor

Volume: Up to 87.4 MDth/d

Facilities: Turbine upgrades and the re-

staging of compressors at

existing compressor stations.

Target ISD: Q4 2026 (Prior Notice)

NWP Projects in Execution



Growth

- KB Reliability Project (2028)
- Huntingdon Connector (2026)
- Wild Trail (2027)
- Ryckman Creek (2025)

ERP HP Replacements

- Sumas (In-service)
- Green River (In-service)
- Soda Springs (2025)
- Pocatello (2026)
- Kemmerer (2027)

ERP Turbine Upgrades

- Pergram Unit 2 (2025)
- Muddy Creek Unit 2 (2025)
- Cisco Unit 1 and 2 (2025)
- Buhl Unit 1 (2026)
- McMinnville Unit 1(2026)



North Mist Update

Scott Johnson, Director Gas Supply, Northwest Natural Gas



Northwest Coalition – What's New

Natasha Jackson, Director of State Affairs, NWGA



WECC – Resource Adequacy Assessment

WECC guest





Northwest Pipeline 2025

Kris Raper,

Vice President, Strategic Engagement & External Affairs



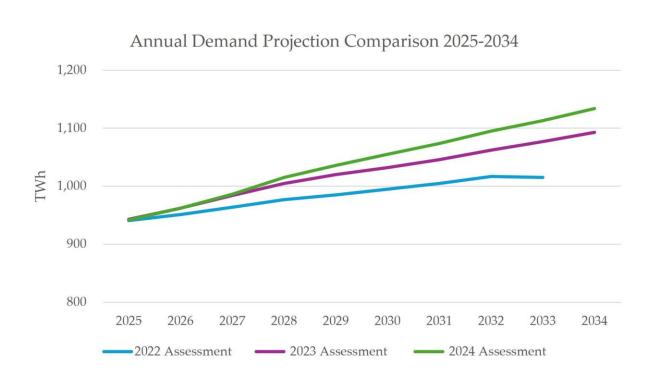
Load Growth

2024 Resource Plans Forecast Annual Demand to Grow 20.4% From 2025-2034

 That is over four times the historical growth rate of 4.5% between 2013 and 2022

Major Driver of Growth is Expansion of Large Loads

 Data centers, manufacturing facilities, and cryptocurrency mining operations

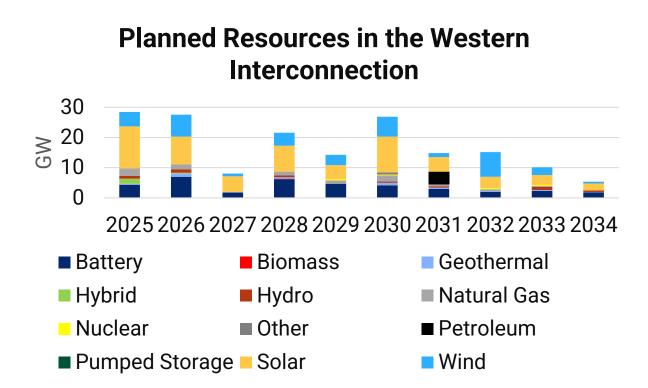




Resource Additions

To Accommodate The Projected Growth, Over 172 GW of New Generation Capacity is Planned To Be Built Over The Next Decade

 More than 85% of that is battery storage, solar, and wind

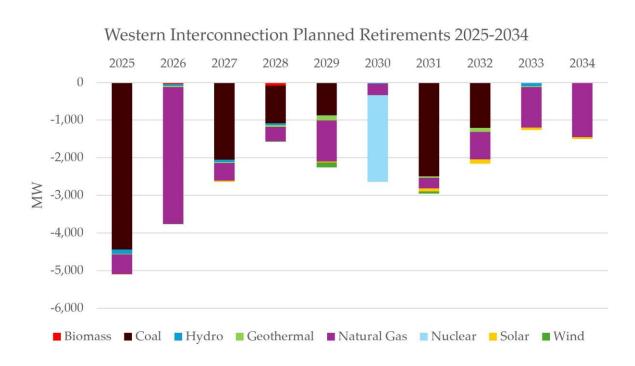




Resource Retirements

25.85 GW of generation retirements over the next 10 years

More than 24 GW are baseload generation (e.g., coal, natural gas, nuclear





Variability

Approximately 147 GW

of energy-limited resources are planned to be built over the next decade: battery storage, hybrid, solar, and wind

The Addition of These Resources,

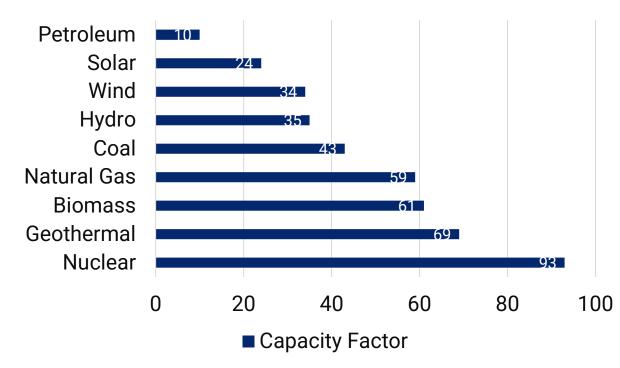
along with the retirement of 26 GW of baseload generation, most of which is coal and natural gas, will increase system variability

This Increases Risk

and creates challenges in system planning and operation

2023 Capacity Factors by Fuel Type

Source: EIA





Integrated Resource Plans

Historically,

the number of new resources built according to plan and on time has varied.



2018 -2023

Between 2018 and 2023, approximately 76% of proposed resource

additions came

year scheduled.

online in the

In 2023,

53% of new resources planned to come online at the beginning of the year actually came online.

202 3



If The Past Is a Model

for building planned resources over the next 10 years, resource adequacy will be at risk.



- WWW.WECC.ORG | (801) 582-0353
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Rockies Growth Outlook

Jason Connelly, Director Business Development, Strategic Development



Business Development Update

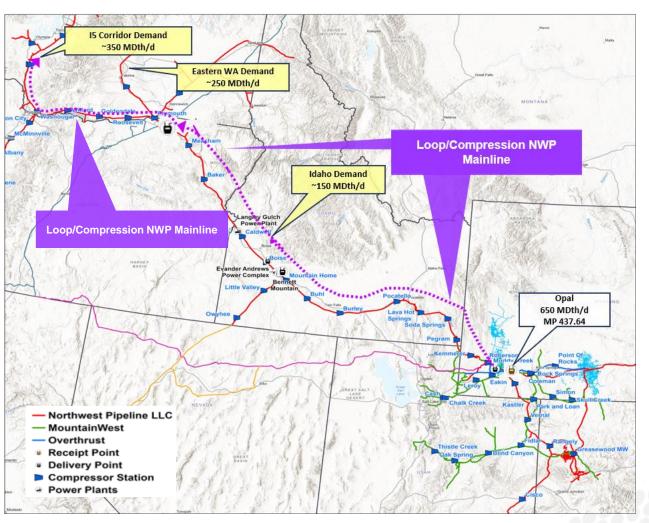
Christine Wallat, Business Development Lead

Why Williams' is focused on the Rockies

Natural gas supply for Idaho, Oregon and Washington primarily originates from the Western Canadian Sedimentary Basin (WCSB) and the U.S. Rockies region. To meet the growing demand in the Pacific Northwest, expansions will be necessary.

- Rockies gas is well-positioned for production growth. Infrastructure constraints limit supply responses from WCSB, Permian, and Northeast regions, necessitating a solution from the Rockies.
 - **Regulatory:** Regulatory factors may affect supply responses from certain basins. Expansion from the Rockies involves fewer federal regulatory agencies compared to a build-out from Canada, resulting in a reduction in time and cost associated with pipeline permitting and development.
 - **Proximity:** The Rockies region is geographically closer to Idaho, Oregon and Washington, potentially reducing transportation costs and time. Reduction in miles of new pipeline capacity when compared to regional alternatives.
 - **Existing Infrastructure**: There is robust infrastructure in place, including multiple long-haul pipelines and storage facilities, which can efficiently support the supply.
 - **Cost:** Demand growth in the PacNW is distributed between Idaho, Eastern Washington and the I-5 corridor offering a unique opportunity to provide value engineering and leverage economies of scale.
 - **Regional Resiliency:** Providing access to ample natural gas supply from Opal/Stanfield into the I-5 corridor balances regional supply diversity between Canadian and domestic supply, mitigates supply disruption risk, reduces reliance on displacement, and increases regional energy resiliency in the PacNW.
 - **Environmental:** GHG emissions reductions by adding loop in the Columbia River Gorge estimated to reduce emissions by 30-50% over current state operations.
 - Brownfield Expansion: Maximizes existing right-of-way construction for a majority of route alternatives,
 while minimizing loop sections (potential to rationalize latent capacity and backhaul opportunities on
 regional pipelines, while reducing the construction and environmental impact between Opal and Stanfield).

ROSE (650 MDth/d) and North Star (350 MDth/d)



Project Fundamentals:

 Regional increase in forecasted demand is creating opportunities to leverage economies of scale for infrastructure not experienced in the last decade

Project Overview:

- Integrated expansion of NWP creating seamless path between Opal and I-5 corridor
 - o Receipts: Opal area and Stanfield
 - Delivery options: Idaho, E.
 Washington and I-5 corridor
- Target ISD: Q4 2030

Strategic Rationale:

- Provide Rockies sourced supply to support PacNW demand additions including data centers
- Williams has a strong position in inter-Rockies infrastructure

Current Status:

- Refining scenarios in progress
- Commercial meetings underway with prospective Shippers
- Initial GA&O work indicates no showstoppers

Rockies Opal Supply Enhancement (ROSE) 650 MDth (Opal to Stanfield)

Concept:

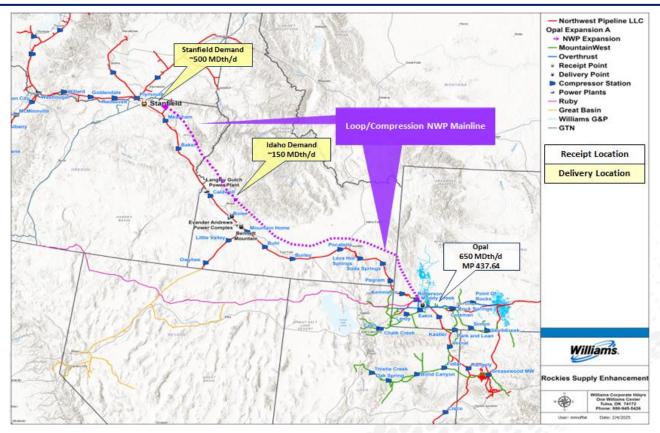
• Integrated expansion of the mainline to provide up to 650 MDth/d of incremental firm transportation to access Rockies supply at Opal to delivery point(s) in Idaho and Stanfield, Oregon to support PacNW demand additions including data centers.

Project Scope: (650 MDth/d):

Path: Opal to Stanfield

Pipeline: Traditional Expansion or Bullet Line (brownfield or greenfield)

Compression: Increase compression



North Star 350 MDth/d (Stanfield to I5) – Current Load Assumptions

Concept:

Integrated/combined expansion to provide up to 350 MDth/d of firm transportation to access Rockies supply from the proposed ROSE project Opal to Stanfield, OR at the interconnection with GTN and flow from Stanfield, OR to serve demand growth along the I-5 Corridor.

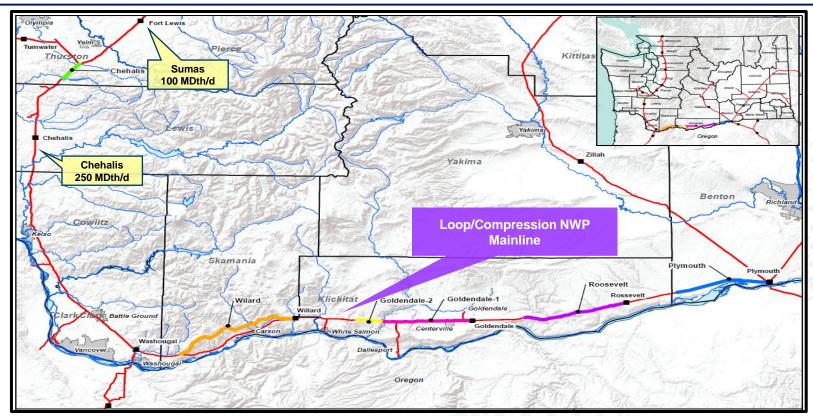
Project Scope: (350 MDth/d):

Path: Stanfield to Sumas

Pipeline: 167 miles of looping. Includes 9 miles of 30" at Chehalis and 158 miles of 24" along the Columbia Gorge (960 MAOP)

Compression: 49,210 ISO HP – (Plymouth C/S – Taurus 70, Washougal C/S Taurus 70 & Mars 100, Chehalis C/S Taurus 70)

Unit 1 @ Chehalis, Unit 1 @ Washougal Retirements:



Next Steps / Project Schedule

Next Steps:

- Meetings with prospective customers to understand needs
- Refine expansion opportunities for varying scenarios
- Precedent Agreement reviews for potential anchor shippers
- Planning for a Q2/Q3 Open Season in 2025

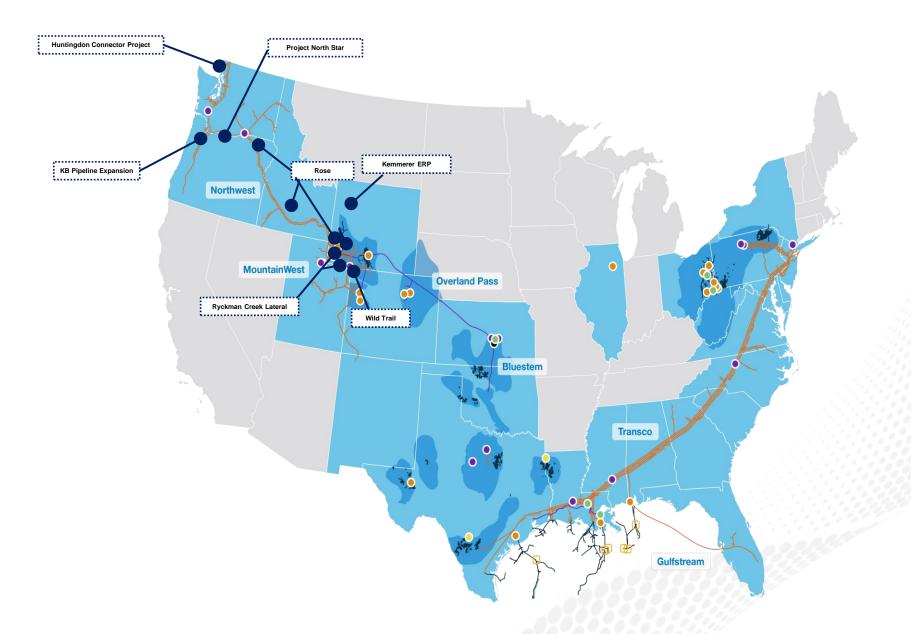
Project Schedule:

- 2Q/3Q 2025 Anchor Shipper PAs Executed
- 2Q/3Q 2025 Non-binding Open Season
- 2Q 2026 FERC Pre-filing
- 2Q 2027 FERC Filing
- 1Q 2029 FERC NTP
- 2029/2030 Construction



Government Affairs – Keys to Success

Jimmie Hammontree, State Gov't & Regulatory Affairs Kasey St. John, Community & Project Outreach









Williams Perspective on Legislative Sessions







Government Affairs and Outreach Strategy

Awareness of political nuances leads our proactive approach. We continue to build relationships and trust, ultimately driving education and brand awareness.

Tools in our toolbox:

- Stakeholder briefings/meetings
- Polling
- Social media monitoring
- Demographic research
- Landowner risk analysis
- Charitable giving / community engagement
- Regular coordination with customers
- On-the-ground consulting teams



Update on Recent Activities

- Briefings with state legislators for projects in multiple states
- Meeting with Governor Bob Ferguson's Climate and Energy Policy Advisor Kate Brouns
- Discussion with Washington State Building & Construction Trades Council
- Ongoing energy huddles with Utah Governor's Energy Advisor Emy Lesofski
- Stakeholder identification and engagement for KB Reliability Project and Huntingdon Connector
- Community meeting for KB Reliability Project







What's Next?

- Meeting request with Washington Governor Ferguson
- Meeting with Utah Governor Cox at end of April
- ☐ Wrap up meetings with state legislators for Huntingdon Connector, North Star, and Wild Trail projects
- ☐ Finalize initial Government Affairs and Outreach effort on North Star
- ☐ Alignment with customers on outreach strategy/efforts
- ☐ Support from Washington and Oregon legislators for the KB Reliability Project



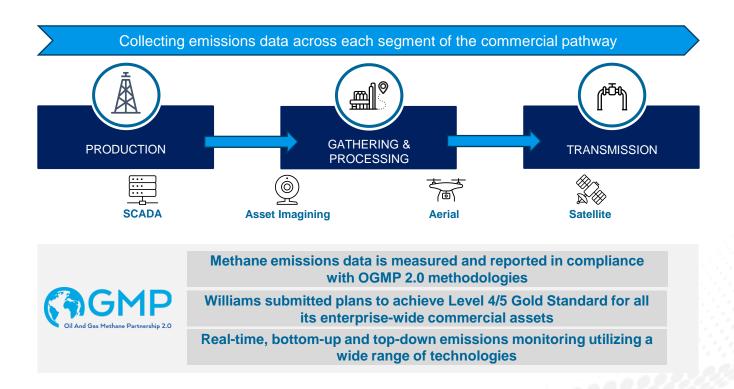


NextGen Gas

Chad Bracher, Business Development Lead

NextGen Gas is Setting the Standard for Certified Gas

Williams' Quantification Monitoring Reporting and Verification (QMRV) Program



Certification & Marketing of Environmental Attributes

Williams' emissions data is processed by our strategic partner, Context Labs, verified by KPMG and then market by Sequent



Sequent Energy Management



Sample NextGen Gas Certificate

Long Island Lighting Certificate Batch Volume Flowpath CH4 Intensity: Flowpath CO2e Intensity: Lifecycle Carbon Intensity: 1,500,000 MMBtu 0.056% 0.0012 mt CO2E/MMBTU 4.087 g CO2e/kWh Methane Emissions Along Flowpath, mt CH4 Total Greenhouse Gas Emission, mt of CO2e @ CO2 @ CH4 2 000 10.5 1,750 1,500 1,000 4.5 3.0 500 250 Production G&B Transmission Total G&B Transmission Decarbonization-as-a-Service™ Certificate of Verified Carbon Intensity Trusted end-to-end data integrity backed by direct measurement-based quantification, machine learning/Al-driven analytics, and cryptographically secured distributed ledger technology, providing an immutable verifiable chain of custody KPMG LLP performed verification procedures to Measurement-based direct emissions DaaS™ quantification help identify any discrepancies that required Certificate O Multi-source ingestion, integrating multiple further review Digital best-in-class measurement sensors and This PDF has a blockchain-ledgered digital twin SCADA systems Immutable blockchain-backed provenance to prove: Meets and exceeds multiple sustainability . This data has been measured and monitored along the accounting frameworks, including: entirety of the designated facility, system, or flowpath OGMP 2.0 Level 5 . This data has not been altered in any way . The data existed as represented and was digitally signed by verified identities ee3353a1-1af1-4f14-8273-84a42b05f168 Context Labs DaaS Decertonization Powered by # Immutably Contextlahs or



Flow path &

volume specific

Emissions

summary

Blockchain

protected



Williams' certified natural gas: your solution in a changing environment



Regulatory Compliance

Trusted emissions data for compliance with most international standards and reducing carbon tax exposure.



Emission Reduction Goals

Reliable quantification of total CO₂e data for achieving emissions reduction targets.



Market Differentiation

Lower carbon products can garner pricing premiums and gain access to evolving global markets.



Lowering Cost of Net Zero

EA certificates can be bundled with, and lower the total cost of, many carbon offset products for Net Zero.

Chad Bracher chad.bracher@williams.com 918.691.2433



Northwest Pipeline Shippers Advisory Board Spring 2025

- Hydro/Battery
- Summer Assessment
- Future Outlook



- Hydro/Battery
- Summer Assessment
- Future Outlook

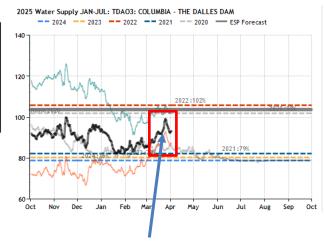


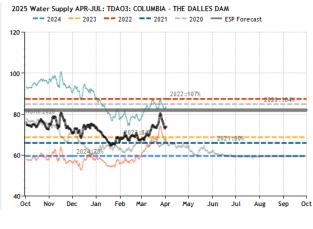
Hydro – PNW Late Season Charge?

ESP Run 4/2/25 (Water Year 2025)			Prior Actuals in MAF					30yr Normals	
Period	ESP Fcst in MAF	Chg	2024	2023	2022	2021	2020	1991-2020	1981-2010
Jan-Jul	93.2 (90%)	0.3 (+0.3%)	79 (76%)	80 (77%)	106 (102%)	82 (79%)	102 (98%)	103.71	101.54
Apr-Jul	73.9 (90%)	0.3 (+0.4%)	60 (73%)	69 (84%)	87 (107%)	66 (80%)	85 (104%)	81.93	79.83
Apr-Aug	80.3 (90%)	0.2 (+0.3%)	66 (73%)	74 (83%)	96 (108%)	72 (80%)	92 (103%)	89.20	87.40
Apr-Sep	85.2 (90%)	0.0 (+0.0%)	70 (74%)	78 (83%)	100 (107%)	76 (81%)	97 (103%)	94.17	92.52

Flood Control Summary - 2025

ı	Date	Туре	MAF	GCL Elev (ft)		
	3/7	Actual	75.1	1282.3		
	3/26	Interim	84.1	1254.2		
ı	3/31	Interim	80.8	1266.3		
ı	Current	Discuss	80.3	1267.4		
ı	4/7	Actual	??	??		

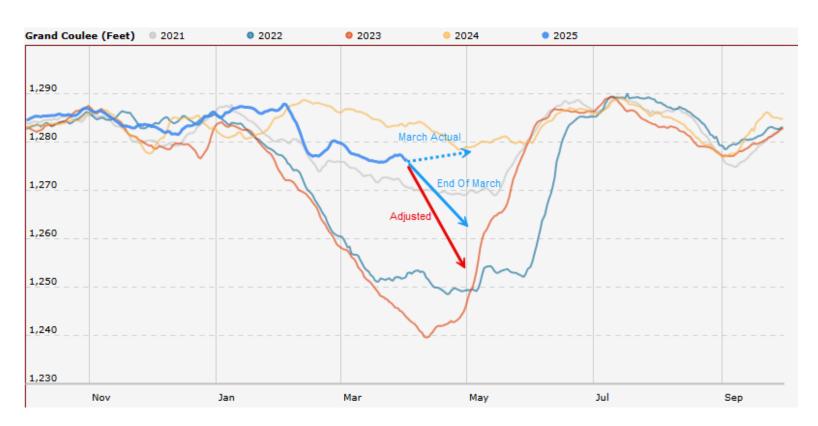




Hydro Volatility



Hydro – Release Storage (Draft)





Hydro – PNW Highlights

Late Season Push

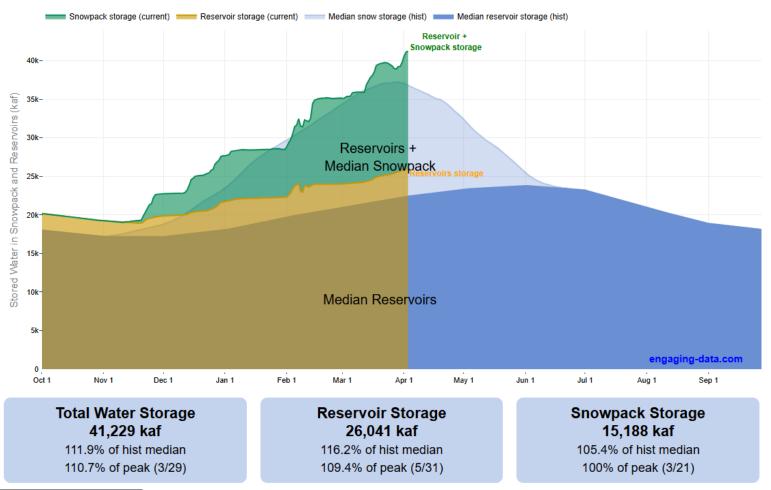
- Cold and Wet March (Snowpack Accumulation)
- April Flood Control Adjustments
- Draft Storage/Westside Buildup

British Columbia

- Site C in play
- Alberta Flex

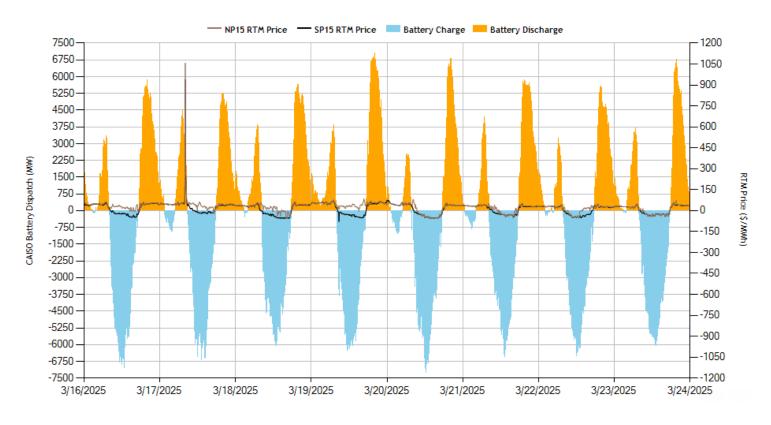


Hydro – California 5/3/???



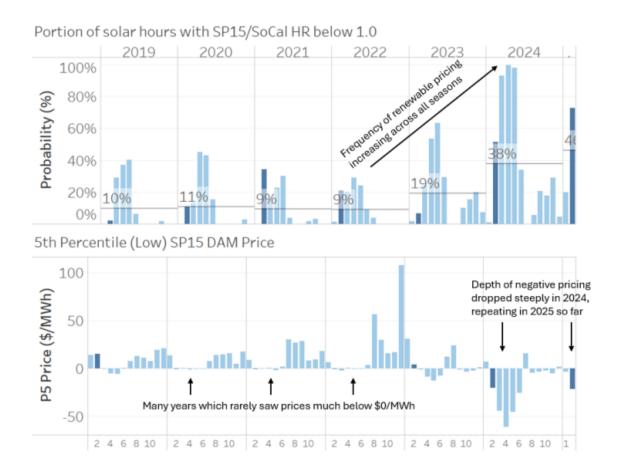


Battery Impact – Real Time Results





Battery Impact – Frequency Escalating

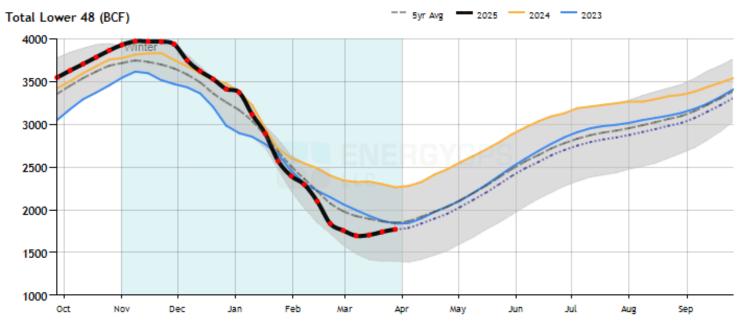




- Hydro/Battery
- Summer Assessment
- Future Outlook



Summer Assessment – Lower 48 Storage



Cold Q1-2025

- Storage withdrawals quite high
- Lack of production

Price Signal Triggers

- Prompt Month topped \$4.75/Forward Curve Moved Up enough for production?
- Prompt Month Toggle \$4.00, uncertainty abound



Summer Assessment – Spring Power Burns



Spring (Q2-2025)

Middle Third (ERCOT/SPP/MISO)

- Solar Buildout
- Wind Profiles Strong

PJM

- Solar Buildout
- Modest Power Demand

Desert Southwest

Solar and Batteries

California

- Hydro
- Renewables

Pacific Northwest

Hydro

Summer (Q3-2025)

ERCOT

- North/West Texas Data Centers
- Summer Heat?? New normals

Rockies/Desert Southwest/MISO

- Solar and Batteries
- Load Growth Data Centers

California

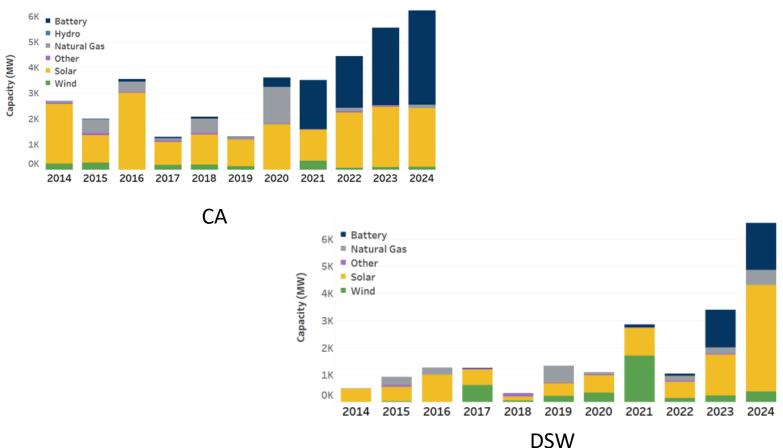
Coastal Heat

Pacific Northwest

- Structural Demand
- Lean on California

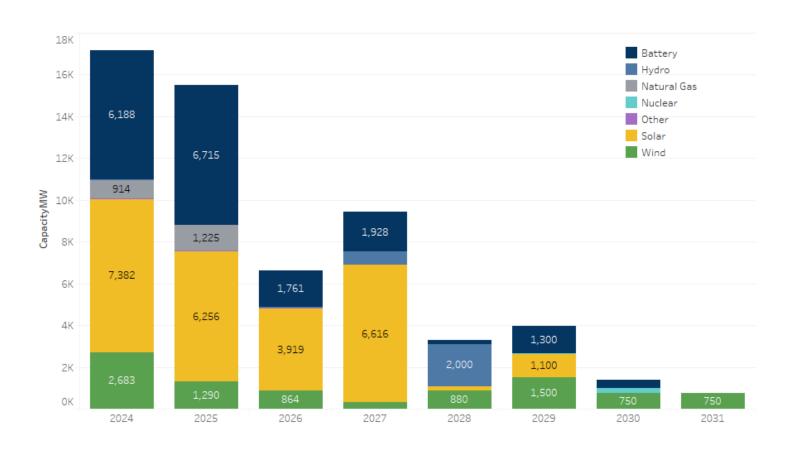


Summer Assessment - Regional Supply Buildout





Summer Assessment – Forward WECC Supply Buildout





- Hydro
- Summer Assessment
- Future Outlook



Future – Power Burns



Spring (Q2-2025)

Middle Third (ERCOT/SPP/MISO)

- Solar Buildout
- Wind Profiles Strong

PJM

- Solar Buildout
- Modest Power Demand

Desert Southwest

Solar and Batteries

California

- Hydro
- Renewables

Pacific Northwest

Hydro



Summer (Q3-2025)

ERCOT

- North/West Texas Data Centers
- Summer Heat?? New normals

Rockies/Desert Southwest/MISO

- Solar and Batteries
- Load Growth Data Centers

California

Coastal Heat

Pacific Northwest

- Structural Demand
- Lean on California

Winter/Beyond (2026-??)

Lower 48

- Load Growth pace
- Weather
- Renewables

Renewables

- Battery Capacity
- Weather (2025 got lucky cold/sun)

New Build

- Reliable/Affordable
- · Natural Gas Units

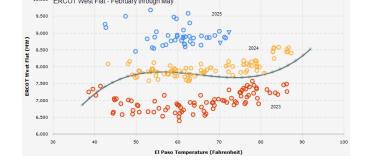
Logistics/Policy

- Transmission Constraints
- Oueue Constraints
- Washington DC

Future Outlook – Discussion Points

Key Elements

- Load Growth
- Weather Patterns Changing
- Energy Transition/Policy
- NG Storage Capacity



Existing Grid Optimization

- Consolidation of Markets
- One Regional Transmission Organization (West seems to be going with TWO)

Reliability Must Haves - Upgrades

- Power
 - Transmission
 - Distribution Network
 - New Build queue overhaul
- Natural Gas
 - Pipeline Expansions
 - Quantity of resource
 - Turbine Availability







Contact Information

- Product/Consulting Contact Information
 - Email | <u>sales@energygps.com</u>, <u>support@energygps.com</u>, <u>Contact Us</u>
- EGPS Staff Jeff Richter
 - Jeff Richter
 - Cell/Whats App | 503-989-9540
 - ICE | jrichter3 or jrichter@energygps.com
- Newsletter Blog www.energygps.com





Passage Modernization Project

Beau Galloway, Director Commercial Technology

Commercial Technology – What We Do

SYSTEMS

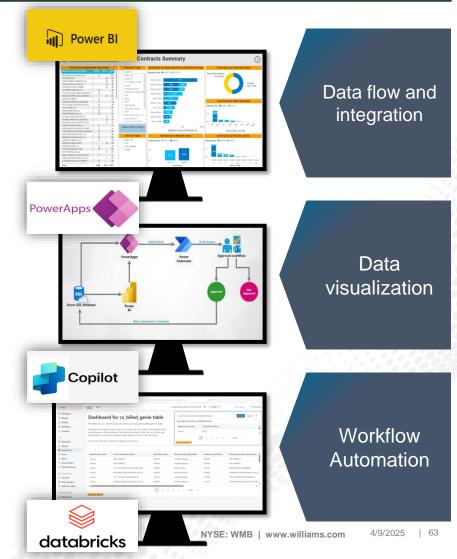
ANALYTICS

Maintain commercial systems

Support customers and commercial reps

Identify and implement enhancements





Passage Current State



- The NW Passage system, used for transportation scheduling and billing, is facing challenges due to its outdated design and unsupported software.
 This impacts efficiency and overall performance.
- Additionally, its limited automation and onpremises setup make it difficult to keep up with new technology and evolving business needs.
- To address these issues, we need to evaluate the feasibility of upgrading or replacing NW Passage with modern software solutions. This will involve a comprehensive business gap assessment to identify areas for improvement while maintaining the features you value.
- Our goal is to ensure continued operational efficiency, streamline workflows, and enhance system performance, with strong support throughout the transition.

Passage Evaluation

Consolidate Williams' Systems

- Higher reliability
- Less systems for customers / marketers to manage
- Enhanced Scalability
- High capital investment
- Timeline to complete
- Change management

Modernize Passage



- Minimal change management
- Modern code base
- Cloud hosted
- High capital investment
- Still have multiple systems to maintain
- Timeline to complete

New Software Solution

- Consolidated systems
- Daily support outsourced
- Integration cost
- Change management
- Enhancement execution





What's Next

Phase I

Consolidation Review

- Tarriff assessment Complete
- Functional Assessment Q2
- Technical Assessment Q3
- Determine cost, resource and completion estimate Q3

Modernization Review

Determine cost, resource and completion estimate – Q3

New Software Solution Review

- Evaluate options
- Review options with customers

Decision to be made by Sept 30th

Phase II

- Project planning and implementation
- Customer input throughout the project

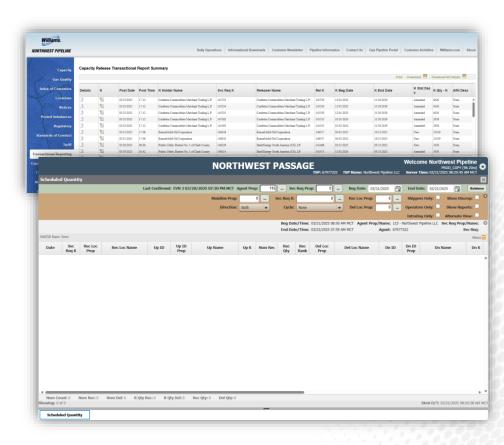
Current Enhancements

Sub Cycle 2 Automation

- Provides consistent final scheduling results
- Minimizes errors in the scheduling process
- Immediate transfer of data with trading partners
- Improves overall efficiency

Reduction Reason Enhancement

- Displays gas cut locations
- Introduces directional cut codes
- Empowers customers to self identify scheduling cuts

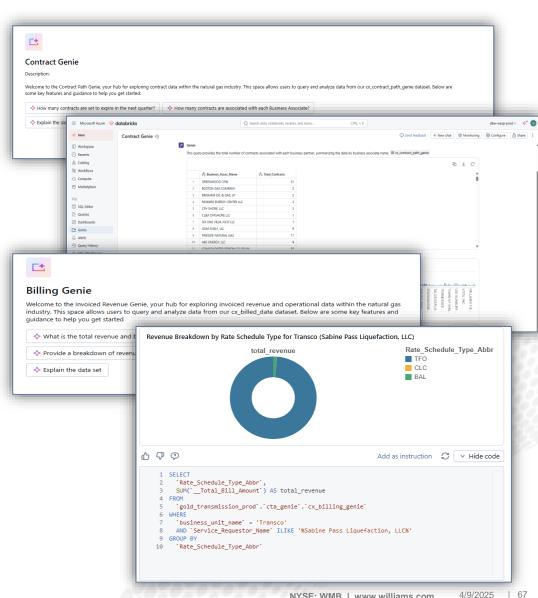


- Testing system tuning underway
- Changes expected to be in production by the end of the month

Upcoming

Al Natural Language Model

- Allows for commercial representatives to query the data within our commercial system with natural language
- Faster turnaround time for customer questions
- Increase accuracy and consistency





Seattle District Highlights Sumas ERP Project

Sam Chesnut, Supervisor Operations



Sumas Legacy Compression



2

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NYSE: WMB | www.williams.com 4/9/2025 | 70

November 2023 Initial Reroute and Outage



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Project Kickoff





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Continuing Work





6



Keeping the Gas Flowing

Re-compressor Units



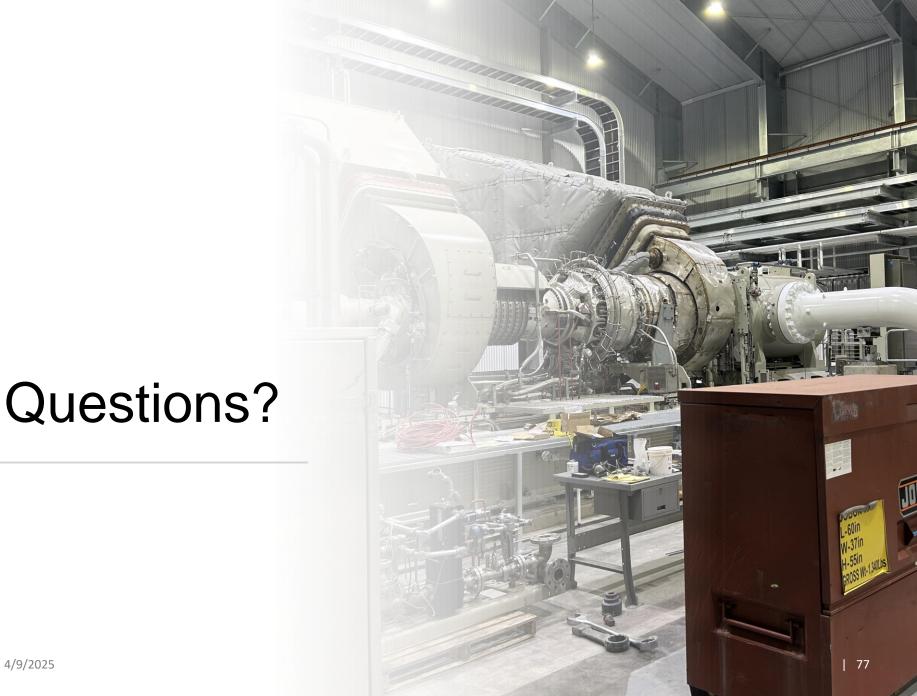
- Seal Gas Compressor: Takes normally vented gas from seals and puts it back into the pipeline
- Process Gas Compressor: Moves gas from the unit piping and compressor that would need to be vented to atmosphere back into the pipeline for maintenance work.

7

Commissioning



- Compression in service on time.
- Emissions reduction of 77%
- Reliability increased by replacing legacy horsepower
- Methane Emission Reduction of 84%





Invoicing the CRM Surcharge

Brad Dillon, Commercial Services Lead

Bill Pty: Company A Del Month/Year: April 2025

Inv ID: ******* Inv Date: 05/05/25

Loc Ind: PRPDXXXX

Line No	Chrg Type	TT	Rec Loc Name	Del Loc Name	Pkg ID	Repl/ Rel SR K	Adj Type	Beg/End Tran Date	Days	Qty	Unit Price/Chrg Type Rate	CRM	ACA	Total Rate	Amt Due
1.001	RES - FIRM TRANS	129		7				04/01/25 - 04/30/25	30	1,000	0.37250	0.02256		0.39506	11,851.80
													Tota	I Charges:	\$11,851.80
1.002	RES-CAP REL CR	129		_		123456		04/01/25 - 04/30/25	30	-1 000	0.37250	0.02256		0.39506	-11 851 80

Total Credits: -\$11,851.80

Total K Charges: Total K Credits: \$11,851.80

Al K Credits: -\$11,851.80

Inv Tot Amt Due Payee for K: 111111 \$0.00

Svc Req K: 111111 Rate Sch: TF-1



Bill Pty: Company Y

Del Month/Year: April 2025

****** Inv ID:

Inv Date: 05/05/25

Svc Reg K:

Rate Sch:

TF-1

PRPDXXXX Loc Ind

Line No	Chrg Type	TT	Rec Loc Name	Del Loc Name	Pkg ID	Repl/ Rel SR K	Adj Type	Beg/End Tran Date	Days	Qty	Unit Price/Chrg Type Rate	CRM	ACA	Total Rate	Amt Due
51.001 F	RES - FIRM TRANS	129				111111		04/01/25 - 04/30/25	30	1,000	0.37250	0.02256		0.39506	11,851.80

Total Charges: \$11,851.80

123456

Total K Charges: Total K Credits:

\$11,851.80

\$0.00

Inv Tot Amt Due Payee for K:

123456

\$11,851.80



Winter Recap and Summer Roadmap

Mark Warren, Manager Pipeline Control

Pipeline Control - Topics

- Organization Overview
- Weather Resiliency Plan Implementation
- Upcoming Maintenance



Pipeline Control – Organization Overview

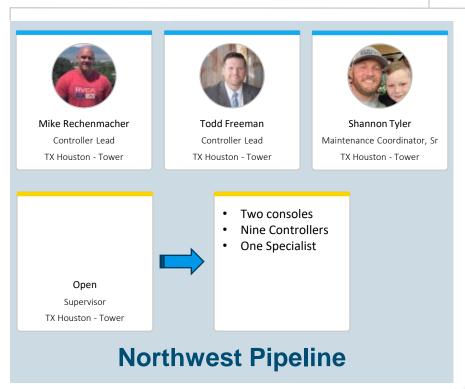
Pipeline Control Western Interstates

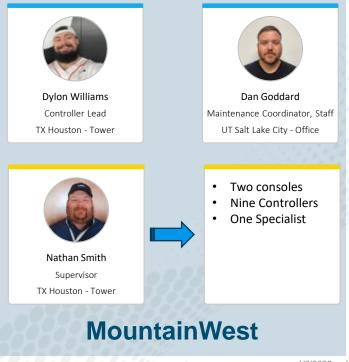


Mark Warren

Mgr Pipeline Control Sr

TX Houston - Tower





Pipeline Control – Weather Resilience Plan Implementation

- Weather Resiliency Plan (WRP)
 - Developed in 2024
 - Sponsors
 - Camilo Amezquita VP GM Northwest Pipeline
 - Melissa McGillen VP Central Services
 - Intent continuously improve system reliability and performance during extreme weather events
 - Elements
 - Annual actions
 - Pre-event
 - During event
 - Post event
- Mock / Limited Implementation executed January 2025



Situation

- Cold weather forecasted to enter part of NWP market area on 1/20/2025
- Load forecast indicated peak of ~3,200 MDTS on 1/20/205, well within system capacity
- Winter storm was forecasted to drop temperatures significantly for most of the US, east of the Rocky Mountains
- This introduced risk of well freeze-offs in Rockies and Texas
- Significant market forces from potential freeze-offs could swing the system from north to south flow
- Risk to the system was deemed to be quite manageable
- Opportunity to execute mock / limited implementation of the newly-developed WRP was identified



Scope

- Commercial and Pipeline Control elements of WRP
- Focus on communication and tools for actively managing system
- Kick-off meeting
- Location Performance meetings 2x per day
- Leverage new PowerBI reporting to identify and address customer, supply and interconnect behavior that is putting the system at risk
- Capture lessons learned
- Debrief for sponsors



Highlights

- Effective collaboration and communication were exercised by Commercial and Pipeline Control
- Monitoring SCADA, Passage, PowerBI provided multiple perspectives on the situation
- WRP document was helpful for setting expectations
- Location Performance meetings
 - Identified underperforming locations
 - Worked as team to mitigate enactment of curtailments
 - Pipeline Control gave operational context to the numbers
 - Commercial proactively engage with customers to support system needs
 - Curtailment was avoided due to proactive, collaborative effort
- Lessons learned
 - Plymouth cooldown decision will be more broadly socialized, earlier
 - Data set for PowerBI report is being expanded



2025 Maintenance Impacts



New Mexico

Flow Impact

348 Dth S

278 Dth N

161 Dth N

166 Dth S

77 Dth N

94 Dth S

357 Dth

504 Dth

45 Dth N

75 Dth S

55 Dth N

135 Dth N

TBD

Impact Mitigation Strategies

- Analyze flow patterns to determine least impactful maintenance timeframes
- Coordinating with power generators, LDCs, end users and interconnects
- Avoid impacts to trading blocks as much as possible
- Utilizing multiple contractors in the same corridor at the same time
- Maximizing storage, line pack and interconnect flexibility
- Capitalizing on new and efficient technology
- Utilize stopple and bypass
- Plan inline inspections earlier in the year to avoid heating season impacts





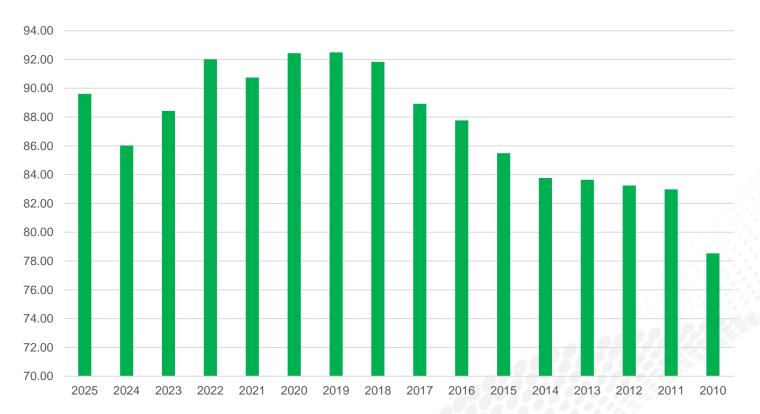
Mastio Customer Survey

Carolyn (Arens) Ebner, Manager Commercial Services

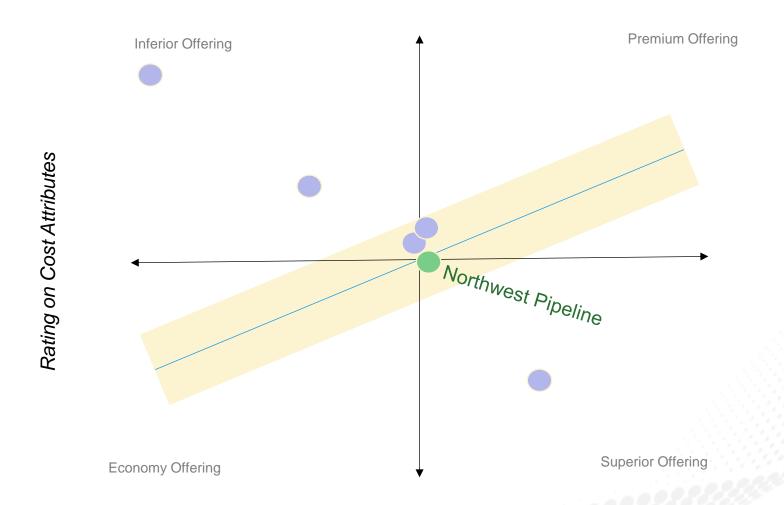
Mastio Customer Survey Results

- The 2025 Mastio Customer Satisfaction Index is 89.62 compared to last year of 86.03.
- We ranked #3 in Mega Pipes, #3 in Major Pipes, and Interstate Pipes #5.
- The Net Promotor Score is 85.5% compared to 2024 78.9% based on "How likely you would recommend to a colleague or another business."

Customer Satisfaction Index



2025 Value Map



Rating on Performance Attributes

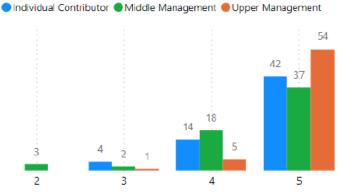
2024 Williams Commercial Customer Survey: Northwest Pipeline Results

Average Scores by Question & Job Level



Highest Score Questions Lowest Scores Questions

Count of Scores by Answer & Job Level



Number represents total count of the associated score by level across all questions

Williams in One Word

Integrity Care Partner

Available of the Partner

Clark of the Par

Voice of Customer Themes

Mastio Survey

- Areas of Strength
 - Prompt responses to questions, requests and issues
 - Maintenance communication
 - · Easy to work with and always willing to help
- Areas of Improvement
 - · Continuation of training
 - Creative and Flexible Solutions
 - Frequency of Entitlements and Maintenance
 - Better / more modernized EBB

Williams Independent Survey

- Areas of Strength
 - Ease of contact
 - · Fair and timely resolutions
 - Competitive
 - Building Relationships
- Areas of Improvement:
 - Creative and flexible solutions
 - Understanding Customer
 - Training
 - Entitlements

Mastio Customer Survey Action Items

- Continue to expand the Representatives knowledge of our customers and their business by creating customer profiles
 - Using Power BI analytic tools, engaging customer with their specific passage training needs, and identify potential business opportunities that meet their needs
- Update existing Help Files and create New Help to address common customer questions.
- EBB Upgrade
 - Passage Gap Analysis commitment to include customer feedback and maintain highest value functionality



"Reps from all levels exhibit the same behaviors: honesty, transparency, problem-solving, and respect for customers."

"Great staff and team are always working hard to accommodate our needs."

"I am very happy with the services provided and overall, I enjoy doing business with them."



Closing

Mark Mohan, Manager Commercial Services

Closing Comments

- Fall SAB expected to be held in October in Portland
 - Date likely be coordinated with Gas/Electric symposium planned for Fall timeframe
- NWGA Annual Energy Conference June 3-5, Sunriver Resort Oregon

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