Annual Members Meeting

Meeting Agenda
Salt Lake City, Utah

Link, Password: WECC
Dial-in Number: 1-415-655-0003
Attendee Access Code: 2633 342 9440

September 18, 2025

8:00 to 9:45 a.m. Mountain Time

1. **Welcome, Call to Order—Ric Campbell**
2. **Review WECC Antitrust Policy—Jeff Droubay**

   The WECC Antitrust Policy can be found on wecc.org.

   Please contact WECC legal counsel if you have any questions.
3. **Approve Agenda—Brian Theaker**
4. **Review and Approve Previous Meeting Minutes**

   Approval Item: Minutes of the meeting on September 18, 2024
5. **Member Class Reports**
6. **Announce Member Advisory Committee and Board Director Election Results—Jeff Droubay**
7. **Public Comment**

Break

8. **Interactive Session**

   The interactive session will address electric and natural gas interdependencies. With the pace and magnitude of change across the interconnection, understanding the interdependencies between the natural gas and electric power systems is increasingly critical for grid reliability.
9. **Adjourn**

Electric Reliability and Security for the West

Annual Meeting of the Members
DRAFT Meeting Minutes
September 18, 2024
Salt Lake City, Utah

1. Welcome, Call to Order

Ric Campbell, Board of Directors (Board) Chair, called the meeting to order at 8:15 a.m. MT on September 18, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Jeff Droubay, Vice President and General Counsel, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Campbell turned the meeting over to Michele Beck, Member Advisory Committee (MAC) Chair, to chair the remainder of the meeting.

Ms. Beck introduced the proposed meeting agenda.

On a motion by Brian Theaker, MAC Vice Chair, the MAC approved the agenda.

4. Review and Approve Previous Meeting Minutes

Ms. Beck introduced the minutes from the meeting on September 13, 2023.

On a motion by Patrick O'Connell, the MAC approved the minutes from September 13, 2023.

5. Member Class Reports

Reports were provided as follows:

a. Jonathan Aust, Class 1, on behalf of the Class 1 and 2 members, reported on the previous day's meeting in which members discussed dynamic ratings, general utility concerns, outreach and education efforts, and Net Energy Load (NEL) cost allocations;

b. Brian Theaker, Class 3, provided a summary of the previous day's meeting where members discussed class communication and MAC's role post bifurcation. Mr. Theaker also responded to a question on engagement;

c. Chris Parker, Class 4, on behalf of the Class 4 and 5 members, reported on the previous day's meeting, where members discussed the Interregional Transfer Capability Study

(ITCS), WECC engagement and role in the FERC transmission processes, and a discussion on transmission and current issues.

6. Announcement of Member Advisory Committee and Board of Directors Election Results

Mr. Droubay reported the results of the Board of Directors and MAC elections:

The following were elected or reelected to the WECC Board of Directors:

- Richard Campbell
- Mary Rose Martinez
- David Morton
- Sarah Mugel

The following were elected or reelected as MAC Class Representatives in their corresponding classes:

- Class 1 – Shaun Foster, Portland General Electric
- Class 2 – Tim Kelley, Sacramento Municipal Utility District, and Dale Dunckel, current interim representative, Okanogan PUD
- Class 4 – Michele Beck, Utah Office of Consumer Services
- Class 5 – Grace Anderson, California Energy Commission

7. Public Comment

No comments were made.

8. Interactive Session

Mr. Droubay and Kris Raper, Vice President of Strategic Engagement and External Affairs, led an interactive session on the WECC Long-term Strategy (LTS) refresh. Discussion included language edits, how to reach various stakeholder groups, having an actionable plan attached, executive outreach opportunities, and ERO Enterprise alignment.

9. Adjourn

The meeting was adjourned without objection at 10:05 a.m.

Exhibit A: Attendance List

MAC Members in Attendance

Jonathan Aust ..... Class 1

Grace Anderson (virtual) ..... Class 5

Michele Beck ..... Class 4

Duncan Brown ..... Class 3

Dale Dunckel ..... Class 2

Shaun Foster (virtual) ..... Class 1

Fred Heutte (virtual) ..... Class 4

Linda Jacobson-Quinn (virtual) ..... Class 2

Sophie Hayes ..... Class 4

Tim Kelley ..... Class 2

Yansong Leng ..... International

Patrick O'Connell ..... Class 5

Chris Parker ..... Vice Chair

Carrie Simpson (virtual) ..... Class 3

Brian Theaker ..... Chair

Evan Valeriote ..... International

Matt Weber ..... Class 1

MAC Members not in Attendance

Ernesto Olivas ..... International

WECC

Annual Member Meeting
Member Class Reports

Verbal Updates

September 18, 2025

ELECTRIC RELIABILITY AND SECURITY FOR THE WEST

Annual Member Meeting
Election Results

Verbal Update

Jeff Droubay, Vice President and General Counsel

September 18, 2025

<Public>

Interactive Session

Annual Member Meeting
September 18, 2025

Background

According to WECC's System Performance Data Portal, approximately one third of generation capacity and generation produced in the Western Interconnection in 2024 came from natural gas resources. With the continued retirement of dispatchable resources, such as nuclear and coal-fired generating resources, and with the increase of large loads, the West will rely on natural gas generation as a dependable source of energy for years to come. With the pace and magnitude of change across the interconnection, understanding the interdependencies between the natural gas and electric power systems is increasingly critical for grid reliability. For this interactive session, guest speaker Gary Venz, Director of Commercial Services with Williams' Northwest Pipeline, will share his first-hand experience about natural gas system challenges, particularly during extreme weather events, and the coordination necessary between the two industries to avoid an adverse event that puts lives at stake. Kris Raper, Vice President External Affairs and Strategic Engagement, and Branden Sudduth, Vice President Reliability Planning and Performance Analysis, will then lead a discussion on how WECC might focus its work to ensure collaboration and coordination between industries for the benefit of grid reliability.

To help guide the conversation, some questions to consider are:

- What types of reliability risks come from natural gas-electric interdependence?
- What unique natural gas-electric interdependence issues does the West face apart from the rest of the continent?
- If WECC were to conduct a reliability assessment of natural gas-electric interdependence, what events or scenarios should be studied?
- What data or information would be useful for decision-makers when considering the impacts of extreme natural events on natural gas and electric systems?
- How can coordination and information sharing between the natural gas and electric sectors be improved?
- Are there localized gas-electric interdependence studies or analyses that should be expanded to an interconnection-wide level?

WECC Board Discussion

September 2025

Northwest Pipeline (NWP): Backbone of the Pacific Northwest

Northwest Pipeline (NWP)

Federal Energy Regulatory Commission (FERC) regulated interstate natural gas pipeline
- Commitment to safety culture with a focus of regulatory compliance, reliability and continual improvement

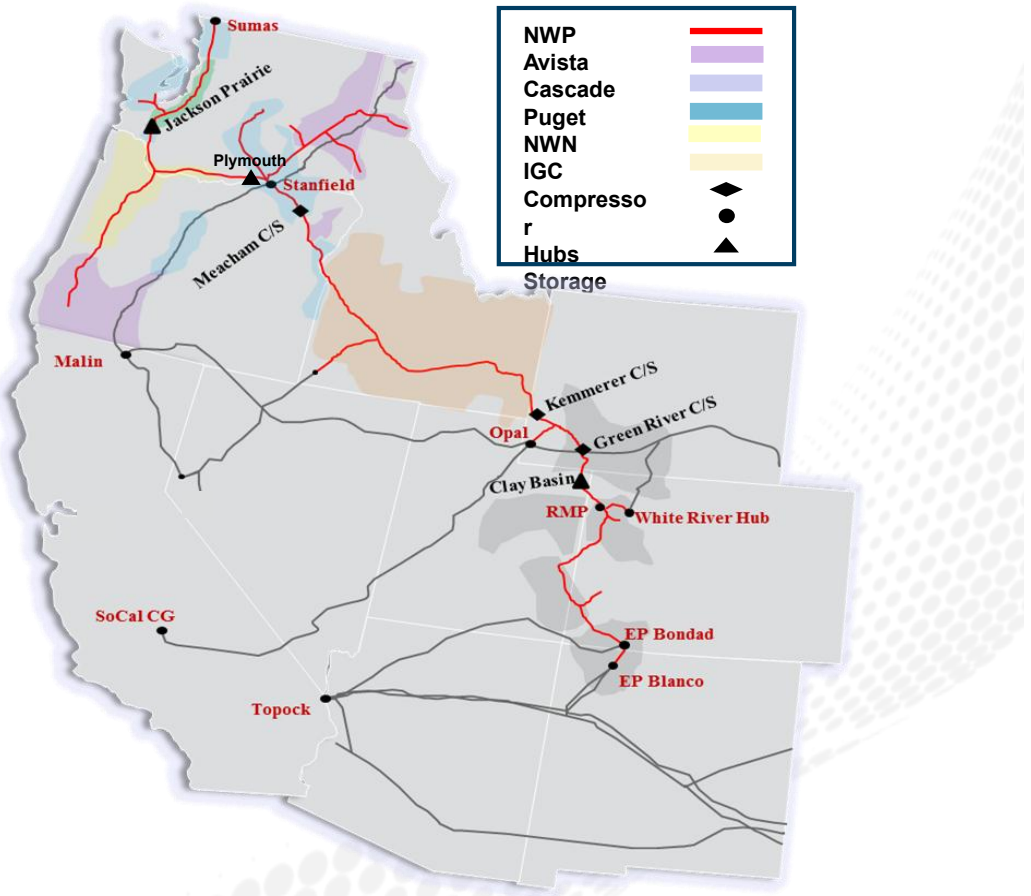
Low-cost, primary service provider in the Pacific Northwest and other markets
- ~4,000 -mile system with 3.8 Bcf/d peak design capacity
- ~135 Bcf of access to storage along pipeline, with high injection and deliverability capability in market area
- Fully Contracted with > 10-year average contract life

Postage stamp rates
- New rates went into effect January 1, 2023

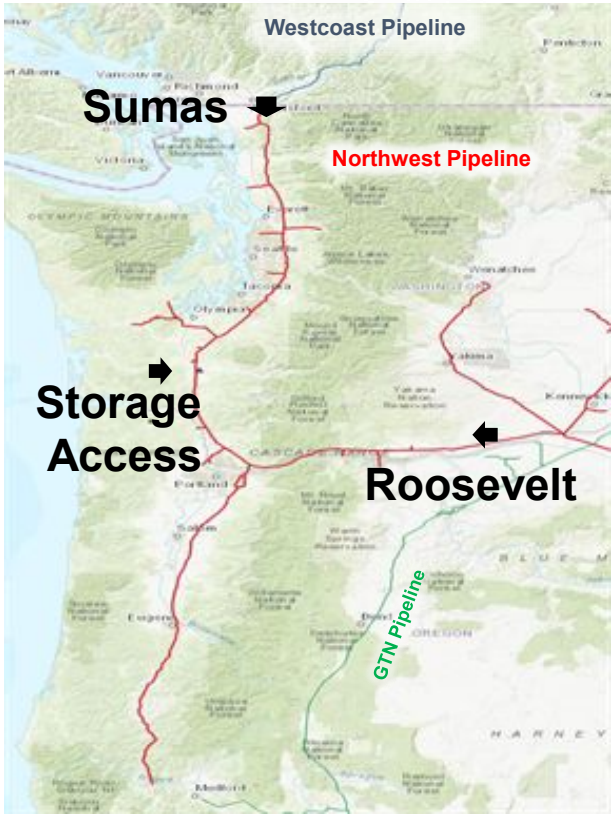
Bi-directional design
- Provides flexibility (Rockies to market and Sumas to market)
- Cheapest supply drives flow patterns

Numerous supply sources
- 61 receipt points totaling 11.6 Bcf/d of supply from Rockies, Sumas, Western Canadian Sedimentary Basin (WCSB), San Juan, emerging shales

Significant market options
- 366 delivery points totaling 9.7 Bcf/d of delivery capacity
- Interconnects with 9 interstate pipelines



Northwest Pipeline Market Area (I-5 Corridor) Introduction



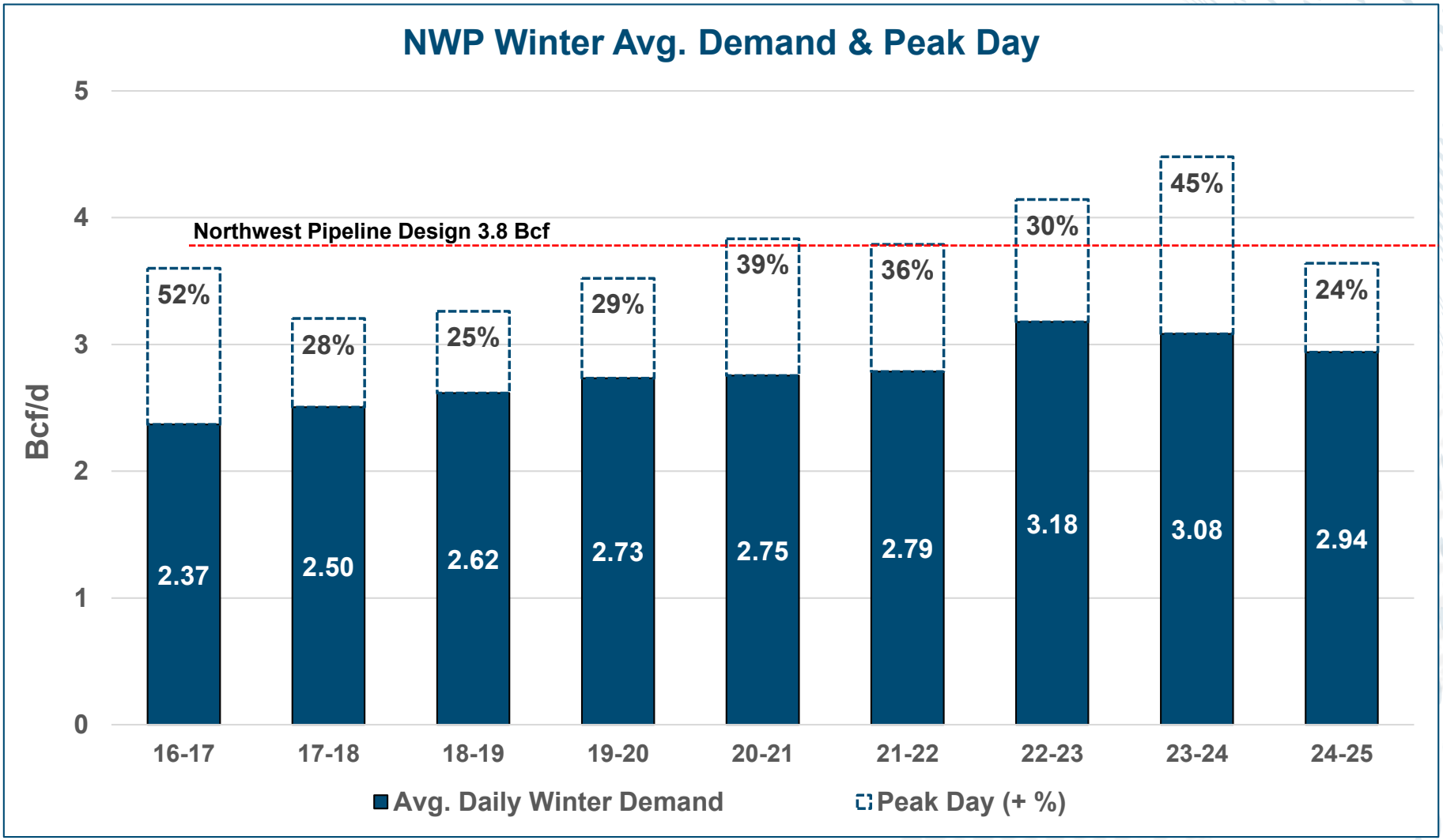
- Local Utilities, Power Generation Plants, and Industrial Facilities rely on Northwest Pipeline as the primary source of gas in significant portions of Western Washington and Oregon
- Northwest is bi-directional and enables customers to transport gas from Canadian or Domestic supply sources, with gas entering the market area at Sumas Receipt or through Roosevelt Compressor:
  - Sumas Receipt can receive up to 1.3 Bcf/d of Canadian production from Westcoast Pipeline at the Canadian border
  - Roosevelt Compressor can flow up to 0.55 Bcf/d from multiple domestic interconnects and producers
- Jackson Prairie Storage (~25 Bcf capacity) can deliver up to 1.2 Bcf/d into the market area and is used for system balancing by Northwest Pipeline

Northwest Pipeline – Current State

- The Northwest Pipeline system has achieved **record throughput** in recent years
  - Gas for power demand has grown **>5%** over the same period
- Each year, new **peak day records** are being established, with Winter 23/24's peak day exceeding the previous year by 11%
- There has been **no net increase** in mainline infrastructure additions on the Northwest Pipeline system, including storage and peak day resources, since 2008
- Regional infrastructure has shown **vulnerabilities**
  - The Northwest Mutual Assistance has been relied upon three times (since 2018) to stabilize the northwest natural gas systems
- Natural Gas plays a **pivotal role** in ensuring electric reliability on high demand days

Delicate Balance in Energy Supply and Demand

Northwest Pipeline Critical Market Area Infrastructure

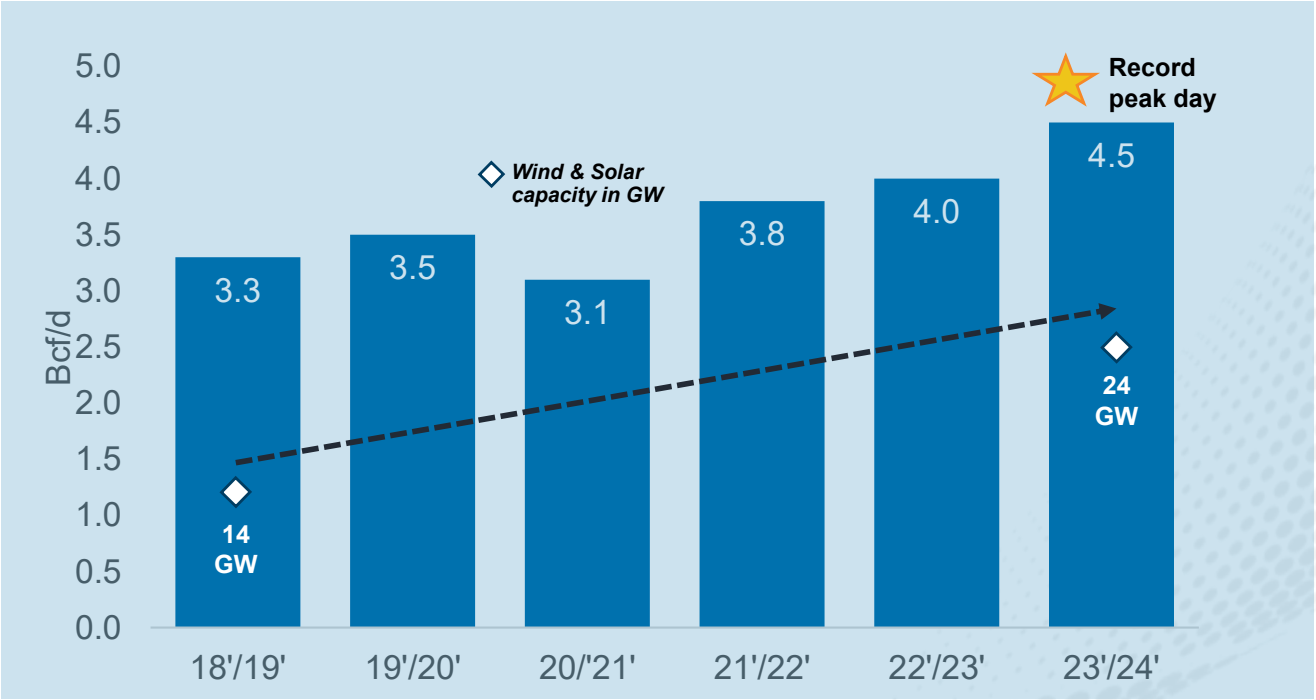


Increasing peak demand on Northwest Pipeline

Northwest Pipeline contracted capacity continually needed to supply regional demand and grid reliability on days of peak demand alongside ongoing renewable capacity buildouts and coal retirements in our pipeline markets

- Each year, new peak day records are established, with Winter 23/'24 peak day exceeding previous record set in 2022 by 11%
- No net increase in mainline infrastructure additions on Northwest Pipeline system, including storage and peak day resources, since 2008

Northwest Pipeline Winter Natural Gas Peak Day Volumes in Bcf[1] vs. Renewables Capacity Growth in the same markets since '18/'19 Season



Source. U.S. Energy Information Administration

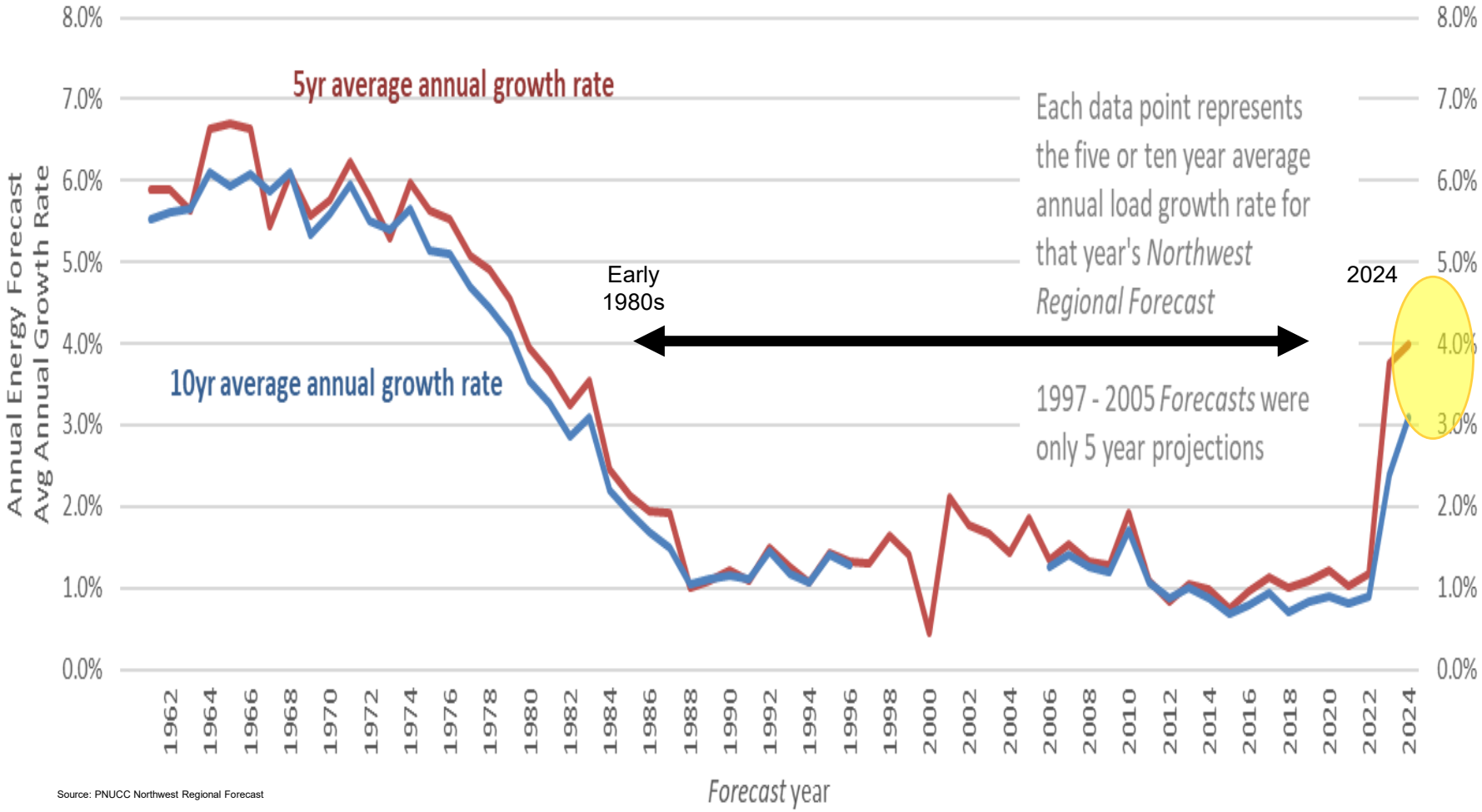
[1] Dekatherms converted to cubic feet at 1,000 cubic feet = 1 dekatherm.

Northwest Pipeline – Future State

- Woodfibre LNG is projected to add 300 MDth/d of new gas demand to the region in 2027
- WA State has mandated the **elimination of coal** from utility power supplies by 2025
  - The retirements of Centralia and Colstrip coal generation are underway
  - More pressure on existing gas fleet
- The region faces **intensified peak day gas demand** due to ongoing renewable buildout and electrification mandates
  - McKinsey predicts over a **~60% increase** in peak day gas-fired power generation in WECC post-2021 levels
- Natural gas is expected to be critical to support **AI's growth (data centers)** in the region
- The role of natural gas infrastructure will be **even more important** to ensure energy security and act as a partner in achieving the regions clean energy targets

Supply-demand balance will teeter towards peak day failure due to various emerging factors

Spike in demand expectations signals end of stagnant growth era



Source: PNUCC Northwest Regional Forecast

Northwest Mutual Assistance Agreement

- Consists of entities that control assets that utilize, operate, or control natural gas transportation or storage facilities in the Pacific Northwest
- Each member has an interest in exercising due diligence in its operations and planning to be able to provide and maintain firm natural gas supply, storage, or transportation service during emergency conditions
- In such events and with combined assistance, duration of emergency conditions to affected markets could be minimized
- Restoration to normal service is expected as quickly as possible
- Members agree to voluntary cooperation and assistance in a natural gas emergency if such aid is requested, offered, and accepted

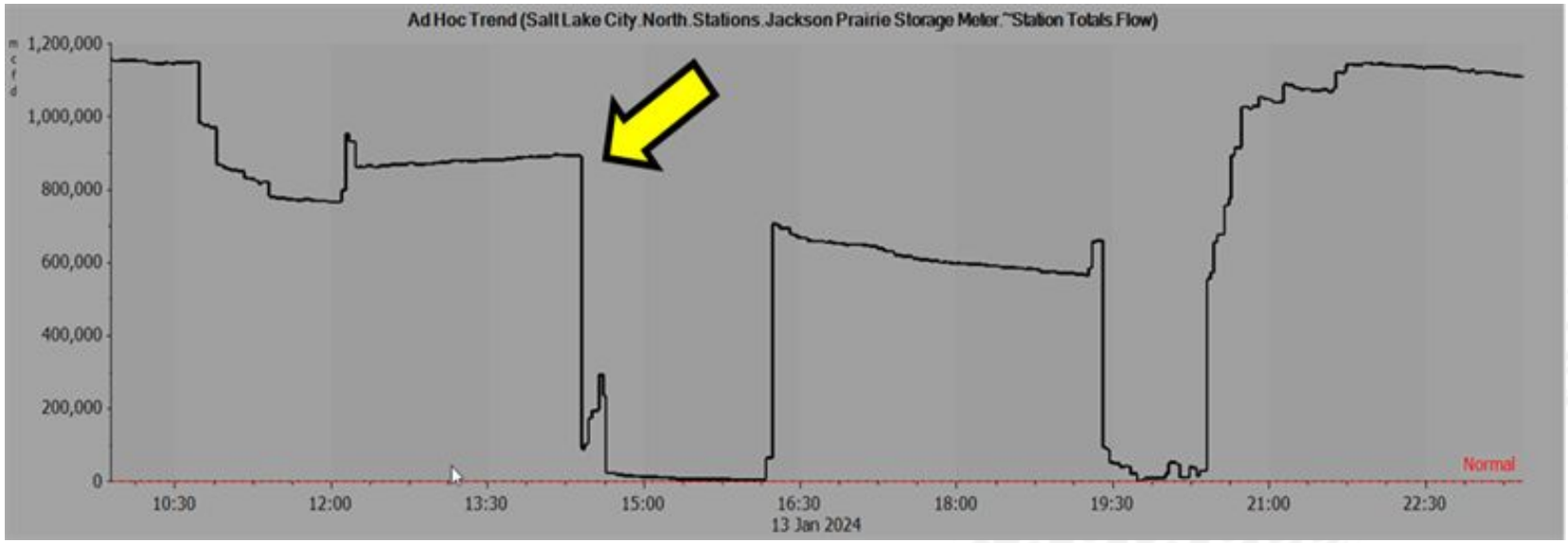
January 13th Critical Loss of Natural Gas Supply on Northwest Pipeline

Temperatures Degrees Fahrenheit								
Date	YVR	Seattle	Calgary	Spokane	Boise	Salt Lake	Kemmerer	Tri-Cities
1/9/2024	44	42	12	35	36	28	18	45
1/10/2024	40	37	(5)	29	31	29	17	36
1/11/2024	31	36	(21)	24	30	25	11	34
1/12/2024	13	20	(27)	1	28	30	18	11
1/13/2024	16	19	(24)	(4)	14	32	19	7
1/14/2024	22	24	(25)	2	17	36	27	12
1/15/2024	25	29	(3)	5	9	30	15	11
1/16/2024	29	31	14	11	9	21	13	12
1/17/2024	30	35	2	14	17	32	28	17

Jackson Prairie Storage Outage – MLK Weekend 2024

Loss of Critical Supply During Peak Event

- Communications at the facility caused JP to completely shut down. Cause was unknown at the time. Free flow was not an immediate option for remediation
- Customer nomination was net 1,087,422 Dth
- Current physical withdrawal was 984,000 Dth
- At this time, free flow was not an option



“Gary, we are running this risk of turning a natural gas emergency into an electric emergency. How do we not let that happen?”

Key Takeaways

- Preparedness is a Shared Responsibility
  - The region's gas infrastructure is highly interdependent.
  - Every member plays a vital role in system resilience.
- NWMAA: A Proven Emergency Framework
  - Successfully activated during major events (2018, 2024).
  - Demonstrated value of rapid, coordinated response.
- Voluntary Cooperation, Real Impact
  - Though voluntary, NWMAA collaboration has reduced the severity and duration of emergencies.
  - Member support is the foundation of regional energy security.
- Tabletop Exercises = Real-World Readiness
  - Annual mock emergencies:
    - Test communication protocols.
    - Strengthen inter-company relationships.
    - Prepare members for real events.
- Know Your Network
  - Relationships built today enable faster coordination tomorrow.
- Continuous Improvement
  - As demand grows and infrastructure ages, preparedness must evolve.
- Final Thought:
  - "When the unexpected happens, be ready—together."
  - Readiness today ensures resilience tomorrow

What are the Next Steps?

- Acknowledge the signposts!
  - Coordinated message about regional energy adequacy must be developed and shared
- Infrastructure development is cornerstone – Both gas and power
  - Infrastructure additions need to be focused on adding resiliency that:
    - Support growth and economic development
    - Provide solutions to meet peak day realities
    - Maintain regional focus on decarbonization goals
    - All the above approach
- Recognition that there is a sense of urgency!

Questions