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Transco Overview & Winter 2024/2025 Lookback

PJM Electric-Gas Coordination Subcommittee

March 27, 2025

Williams Overview



Gas Transmission
Capacity

32.3 MMDth/d



Gas Gathering
Capacity

28.5 Bcf/d



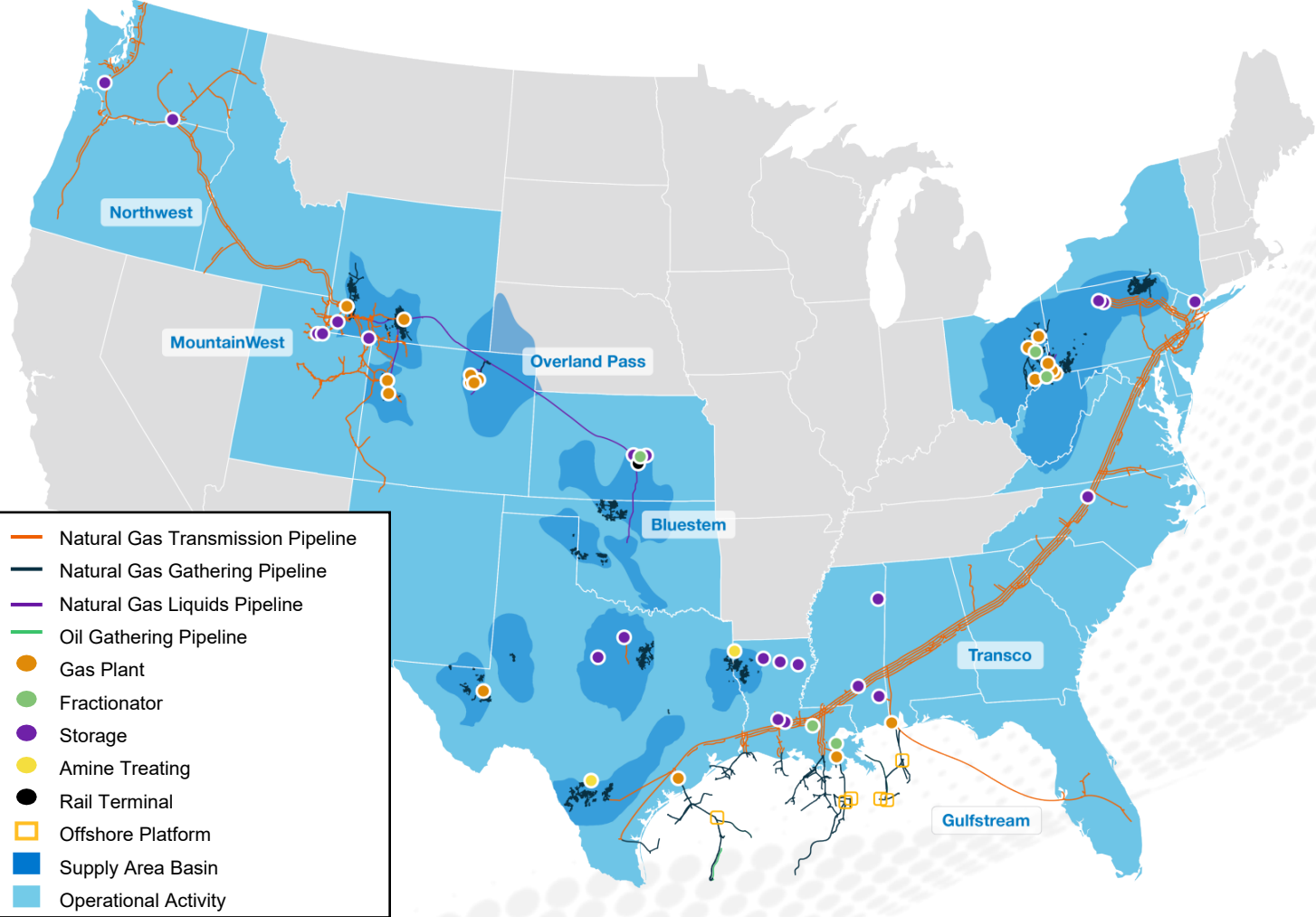
Gas Processing
Capacity

8.3 Bcf/d



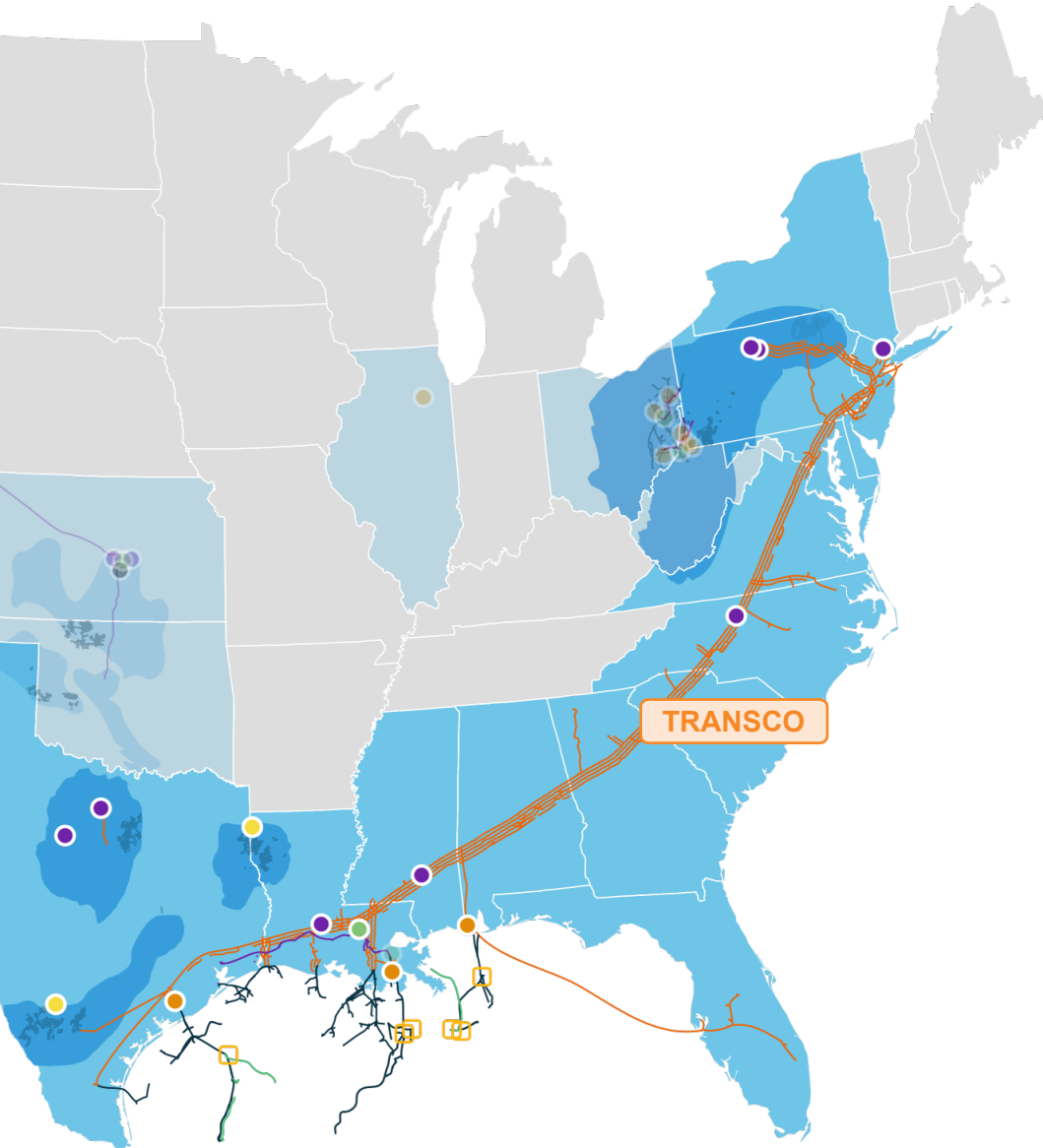
Gas Storage
Capacity

405.4 Bcf



Map as of September 2024. Figures represent 100% capacity for operated assets, including those in which Williams has a share of ownership as of 8/31/2024.

Transco Pipeline




- Transco Overview
 - Design capacity of 19.8 MMDT's per day
 - Transports ~15% of the gas in the U.S.
 - 10,000 miles of pipelines
 - 60 compressor stations & 2.4 million horsepower
 - Transco provides 50% of the gas consumed in New York City and 90% of the gas in the Carolinas
 - Connected directly to 62 power generation facilities
- System Growth in 2024/2025
 - The system has experienced significant growth this year with several new projects and interconnects coming online.
 - REA: 829 MMcf/d
 - SRE: 423 MMcf/d
 - Carolina Market Link: 78 MMcf/d
 - MVP: 2,000 MMcf/d interconnect
 - Matterhorn: 448 MMcf/d interconnect

Delivering Reliable Service with a Weather Resiliency Plan

Winter Storm Elliott prompted an evaluation of business processes currently in place, and as a result we have made improvements to reinforce the integrity of our system. This was implemented last winter and saw it be successful. This winter was a cold one across the East Coast and Transco had 5 different WRP events for a total of 28 days. The system performed well and did not experience any significant operational issues.

Enhancing resiliency during extreme weather



Enhanced Communications

Lesson learned from Elliott:
Customers valued formal touchpoints in a group setting in additional to individualized conversations

Changes implemented:

- Held formalized zonal shipper meetings prior to, during and after the event with large stakeholders
- Continued to reach out personally to commercial counterparts

Active Confirmations

Lesson learned from Elliott:
Transco needed to improve response time to underperformance at supply points.

Changes implemented:

- Utilized newly developed tools to view imbalances and pressure commitments in real time
- Enhanced confirmation process by monitoring locations in real time and confirming down locations that were underperforming thus improving response time

Disallowing Retroactive Activity

Lesson learned from Elliott: Allowing retroactive transactions gave shippers the ability to incur an OFO penalty and later modify the transaction and reverse the penalties. This set up did not incentivize the intended shipper behavior during a critical period.

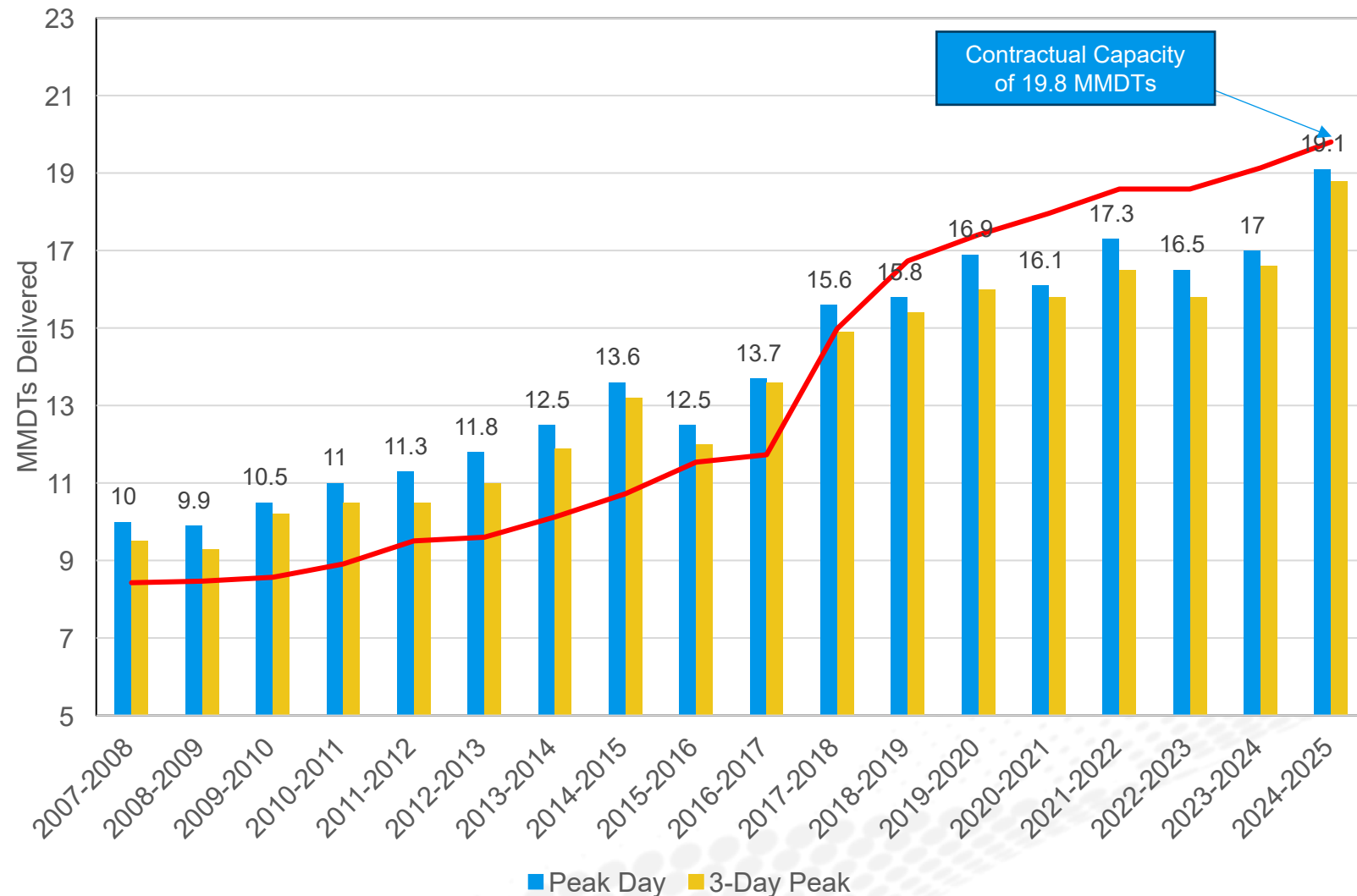
Changes implemented:

- Transco disallowed retros, for the first time, for 5 days during the storm

Peak Day Growth

- Transco hit 10 new peak days this winter
 - 9 of 10 were in January 2025
- Zone 5 demand growth in recent years is starting to surpass Zone 6
- Power generation and LDC's continue to be large drivers for growth along the system
- Recent expansion projects have continued to add capacity, addition of interconnect with MVP has added significant new supply point

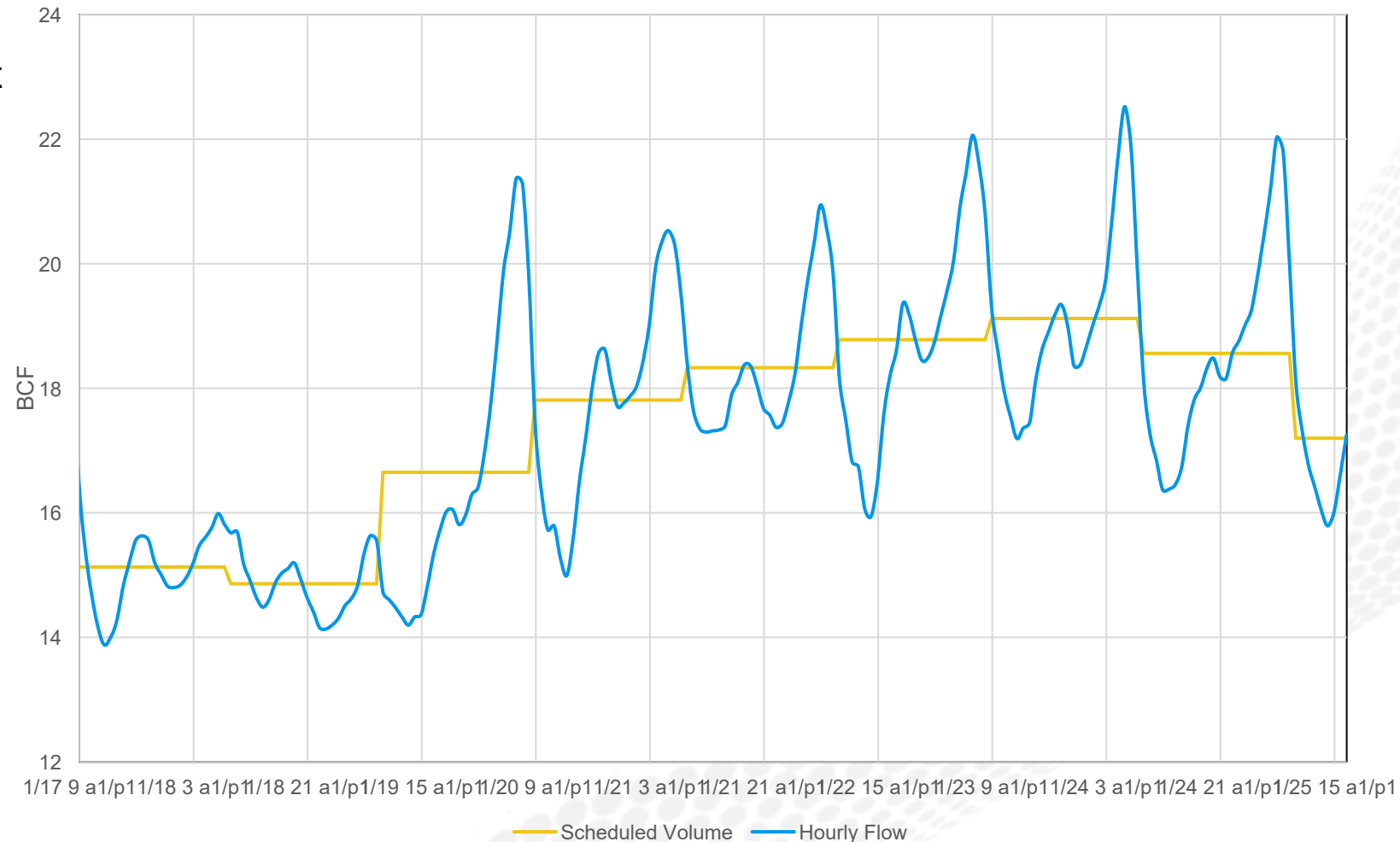
Transco - Peak Day History



January 19 – 24 Winter Storm

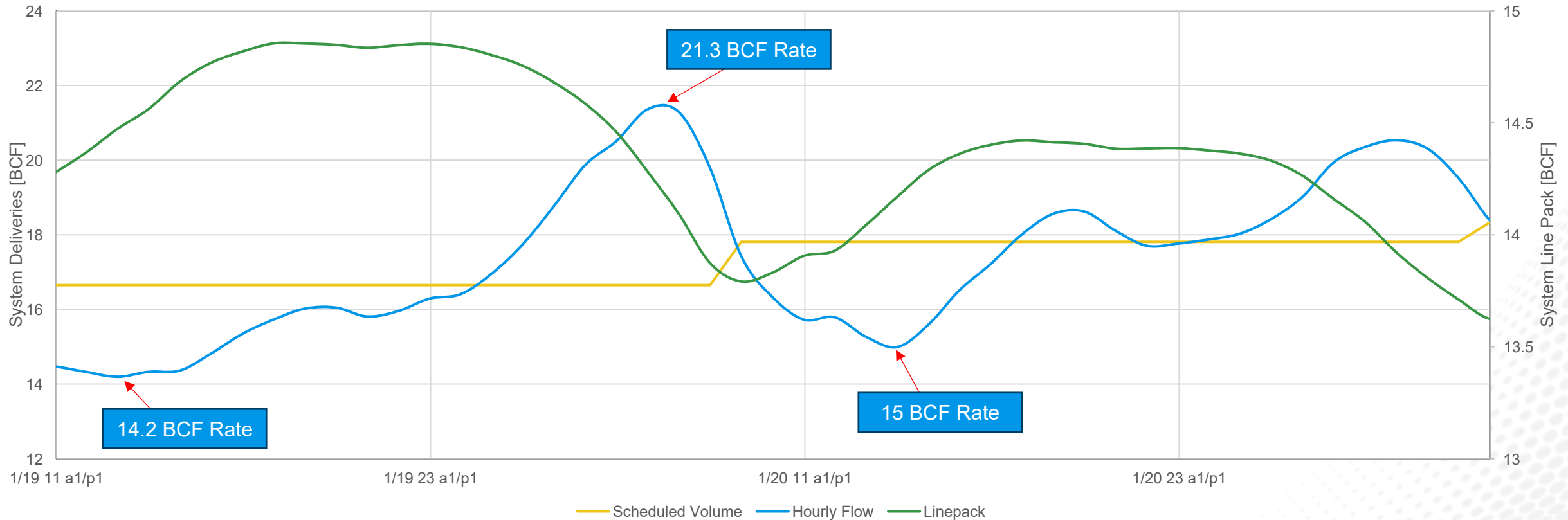
- A major winter storm hit much of the south and east coast over MLK weekend in January 2025
- Transco forecasted demand over that weekend was expected to grow by 3 to 4 BCF from Saturday to Monday.
 - This is difficult for pipelines to manage because of shippers wanting to buy baseload gas for the entire 4-day package.
 - If it is not managed properly, it could result in backing out interconnects and potentially shutting in production.
- Along with varying loads, pipeline operators need to manage significant hourly swings.
 - System experienced peak hourly rates exceeding 20 BCF 6 times within 5 days
 - It is difficult to predict when to start and stop compression.
- Storage is essential to manage daily and hourly demands.

Hourly Load Example (Jan 17 - 23, 2025)



Managing Variability

Hourly Load Example (Jan 17 - 23, 2025)



- System deliveries increased by 7 BCF from 3 PM on Jan 19 to 8 AM on Jan 20
- Delivered a 21.3 BCF rate on a 16.65 BCF scheduled volume
- Volatile hourly loads were managed with line pack and required increased start and stop cycles of horsepower and swinging of storage assets

Summary & Closing Thoughts

- Peak gas demand is increasing, driving further system volatility
- Gas-electric coordination remains important, to address market alignment opportunities
- Storage development and supporting infrastructure will be key to satisfy variable demand and ensure reliability

