



# MEAN Power Supply Committee Meeting

Younes Conference Center South, Kearney, Nebraska

May 21, 2025

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## Call to Order

Tom Goulette  
Committee Chair



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## Call to Order

- Nebraska Open Meetings Act – Section 84-1412 (8)
- Roll Call



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## Public Comment Period



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## Public Participation Policy - Summary

- Any member of the public may speak, subject to these rules
- Individuals must state the following:
  - **Name**
  - **Address** (unless the address requirement is waived to protect the security of the individual), and
  - **Name of any organization represented** by such person
- Public comment period will be a maximum of 30 minutes
- Comments are limited to 3 minutes per person
- Address comments to the Committee as a body and not to any individual member thereof
- Disruptive conduct is not allowed & individual may be asked to leave meeting



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## Consent Agenda

- Approval of Minutes of the January 22, 2025 Meeting
- The next meeting of the Power Supply Committee will be held on August 20, 2025 at the Younes Conference Center South, in Kearney, Nebraska.
- 2025 Summer Season Load and Capability Report



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## Consent Resolution

Approval of the Consent Resolution as shown on page 3 of the meeting packet



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## Asset Management Policies and Procedures Modifications\*

Michelle Lepin  
General Counsel



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## Proposed AMPP Modifications

### New provisions

- Telemetry data access (*patterned off modernized SSM*)
- Communication of telemetry data
- Clarify that AMPP applies to total requirements participants only

### Updates to existing provisions

- Meter accuracy
- Member discontinuance of lease without formal written notice



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## Addition of Section XI.G. and XI.H.

- G. **Telemetry Data Access:** Participant shall provide or cause to be provided telemetry data access to MEAN, or access to MEAN to access the data recorder (or successor recorders which must be compatible with the then-current MEAN equipment) located at the point of measurement, for scheduling and billing purposes. Any and all costs associated with replacing and maintaining the data recorders in order to stay compatible with MEAN's system shall be borne by the Participant.
- H. **Communications:** Participant shall be responsible to provide, and for the cost of providing, any telemetry data requested by a third party pursuant to any applicable Standards.



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## Meter Accuracy

XI.E. If any test of metering equipment discloses an inaccuracy exceeding **the accuracy rating of the metering equipment ~~one percent (1%)~~**, the Participant shall be promptly notified. Such correction and adjustment shall be made from the date the meter became inaccurate, if known; if this cannot be determined, then such adjustment shall be made for the previous month, or from the date of the latest test if within the previous month and for the elapsed period in the month during which the test was made. ...



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## Member Termination of Lease Without Written Notice

XIV.2. Once the written termination notice is received, **or if MEAN's Executive Director deems that constructive notice of termination has been received**, MEAN's Executive Director will refer the matter to the Board unless the Executive Director determines the discontinuance of commitment of capacity will have minimal or no negative impact on MEAN (De Minimis).



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## Asset Management Policies and Procedures Modifications\*

Approval of the resolution as shown on page 6 of the  
meeting packet



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## MEAN 2030 Clean Energy Plan for Colorado\*

Aidan Beckman  
Staff Attorney



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## Clean Energy Plan Requirements for Wholesale Power Marketers - Colorado



- **2030 Plan required**
  - ▶ 2023 legislation required “wholesale power marketers” operating in Colorado to file a Clean Energy Plan (CEP) by June 4, 2024
    - Must demonstrate 46% GHG reduction by calendar year 2027 relative to 2005
    - Must demonstrate 80% GHG reduction by 2030 relative to 2005
- **Colorado Department of Public Health and Environment (CDPHE) regulator verification required within 9 months**
- **Final verified Plan must be filed with CO PUC by June 4, 2025**
  - ▶ MEAN Board must approve the final CEP before filing



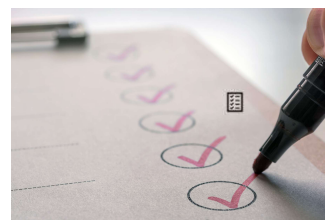
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## Clean Energy Plan Filing Timeline – Colorado

- ✓ **Preliminary filing completed on May 24, 2024**
- ✓ **Regulator verification completed**
  - ▶ During verification process, CDPHE identified minor changes were necessary
  - ▶ CDPHE verified the Plan on March 19, 2025
- ❑ **MEAN Board review/approval of the Plan is now required**
- ❑ **File with Colorado Public Utilities Commission (PUC)**
  - ▶ MEAN must file the Board-approved, verified CEP with the PUC



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## MEAN Clean Energy Plan (CEP) - Background

- CEP reflects West portfolio as it exists today
  - Only West-side resources included
  - Only new projects included are solar PPAs the MEAN Board has already approved
- Changes in portfolio will occur
  - MEAN anticipates adding resources in the future to meet Resource Adequacy Requirements and 2050 Carbon Neutral Vision
  - The CEP as filed anticipates no market expansion
- RTO Expansion will change how MEAN's resources operate
- Colorado law allows MEAN to propose to update its CEP in 2028 to reflect changes to MEAN's portfolio



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## Future Considerations Due to Colorado Clean Energy Plan

- Green Energy Program
  - Colorado requires energy to be accompanied by an associated REC that is retired in the year it is generated on behalf of Colorado customers
    - Review/revise Green Energy Program Terms and Conditions to comply with emerging laws
    - Re-evaluate Green Energy Program subscription levels
- Rates
- Modifications to MEAN Policies
- Resource Acquisitions
- Colorado Energy Office has proposed a similar 100X40 requirement



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# Colorado Clean Energy Plan

## Questions?



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## MEAN 2030 Clean Energy Plan for Colorado

Approval of the resolution as shown on page 7 of the meeting packet



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## City of Pierce, Nebraska Solar Total Requirements Participant (TRP) Resource under MEAN Renewable Distributed Generation Policy\*

Brad Hans

Director of Wholesale Electric Operations



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## Community Solar for Pierce, NE

- TRP Resource approval similar to what we have done in the past for the Solar RFP for communities
- Located on Stuart's system; interested in taking Denver, IA's portion and is currently under consideration
- Remote location is per the DG Policy



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## City of Pierce, Nebraska Solar TRP Resource under MEAN Renewable Distributed Generation Policy

Approval of the resolution as shown on page 8 of the  
meeting packet



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City of Denver, Iowa, Assignment of Solar Power  
Purchase Agreement to MEAN, and Related Solar  
Power Purchase Agreement with Sandhills Energy\*

Brad Hans

Director of Wholesale Electric Operations



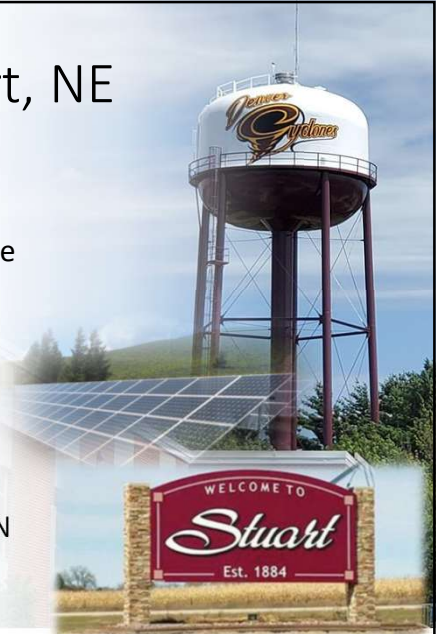
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## MEAN Contracted Solar in Stuart, NE

- Due to logistics of a combined site and installation challenges, remote location on another Transmission Provider's system MEAN is considering leasing 375 kW of solar in Stuart, NE originally set up for Denver, IA to be the off-taker
- First alternative is for a community to receive this under the DG policy
- The solar in communities behind the meter provides benefit as a load reducer for Resource Adequacy Requirements
- Agreement and pricing will be comparable to other MEAN contracted solar resources.



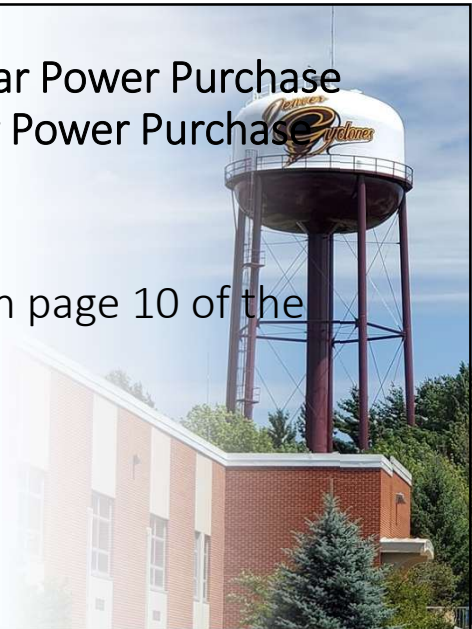
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## City of Denver, Iowa, Assignment of Solar Power Purchase Agreement to MEAN, and Related Solar Power Purchase Agreement with Sandhills Energy

Approval of the resolution as shown on page 10 of the meeting packet



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## City of Scribner, Nebraska SPP Market Assistance Agreement\*

Brad Hans

Director of Wholesale Electric Operations



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- MEAN has provided Scribner SPP Market Assistance since January 1, 2020
  - Current agreement was extended and expires June 30, 2025
  - New agreement will supersede the old agreement
- Scribner has signed the new SPP Market Assistance Agreement with a five-year term from July 1, 2025 to June 30, 2030
  - New agreement contains modernized terms
- After evaluating total requirements power supply versus retaining their Marketing Agreement, they have chosen to move forward with a modernized Marketing Agreement



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## City of Scribner, Nebraska SPP Market Assistance Agreement

Approval of the resolution as shown on page 11 of the meeting packet



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## Resource Portfolio Development and Updates



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# Leased Capacity Units

Brad Hans

Director of Wholesale Electric Operations



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## Leased Capacity Units

- February Winter weather event
- Discussions:
  - Performance Based Accreditation discussions and understanding for our leased capacity units
  - Registration adjustments
- Challenges with NPPD system upgrades with
  - Code background and upgrades required when new generation is installed
  - Grounding Transformer requirement
  - Fiber as an option
  - Roll out of these requirements occurred during the process, not ahead of



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## Resource Adequacy

Nathan Horrell

Manager of Resources Planning & Transmission



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## Resource Adequacy Outlook

RA Impacts for 2026 and beyond

- Performance Based Accreditation (PBA) and Fuel Assurance
- Effective Load Carrying Capability (ELCC)
- Winter PRM Requirement
- RTO Expansion into West
  - ▶ Adds PRM requirements
- Broken Bow units offline



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# PRELIMINARY

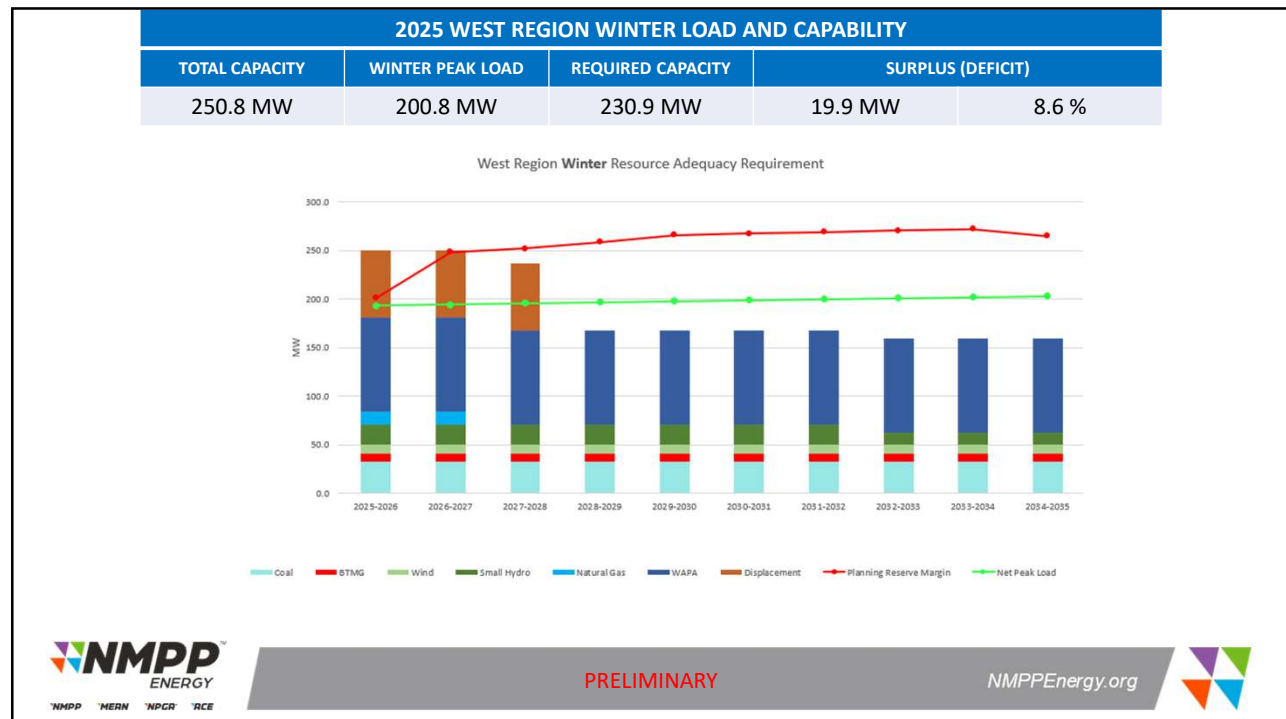
SPP and the West face a shifting regulatory landscape. Resource Adequacy projections shown in the following slides are preliminary and based on the best available information.



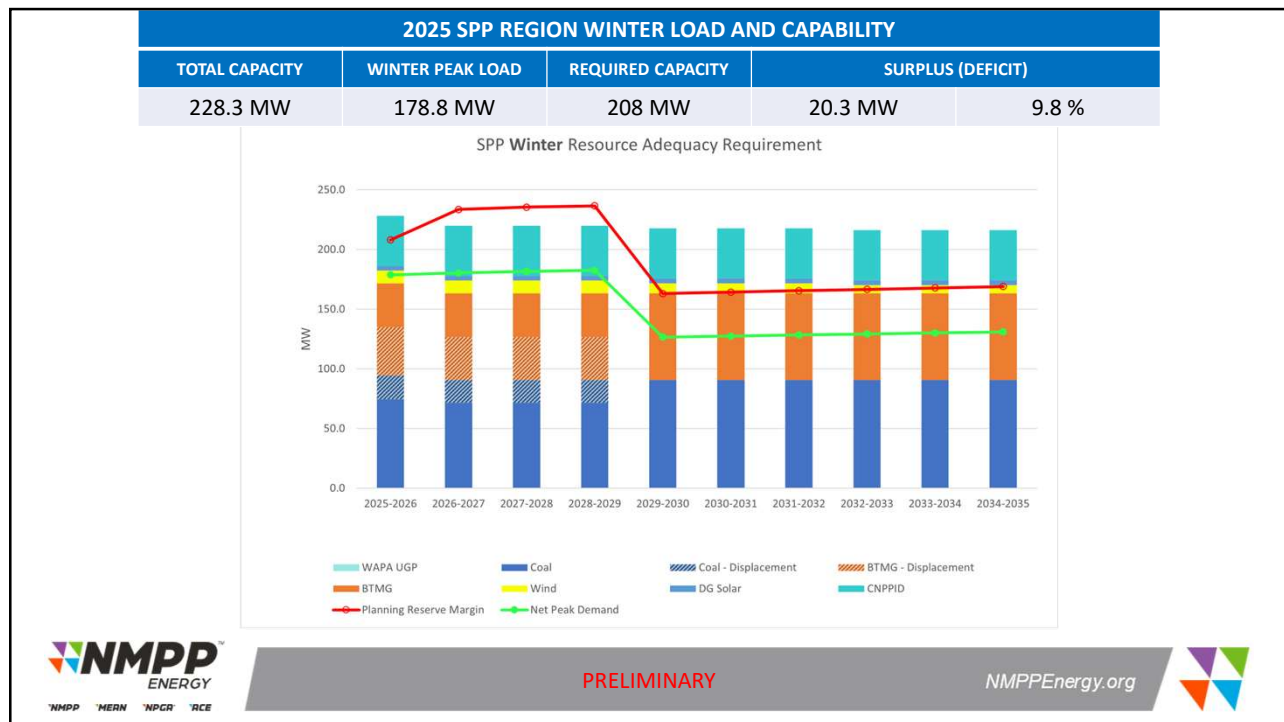
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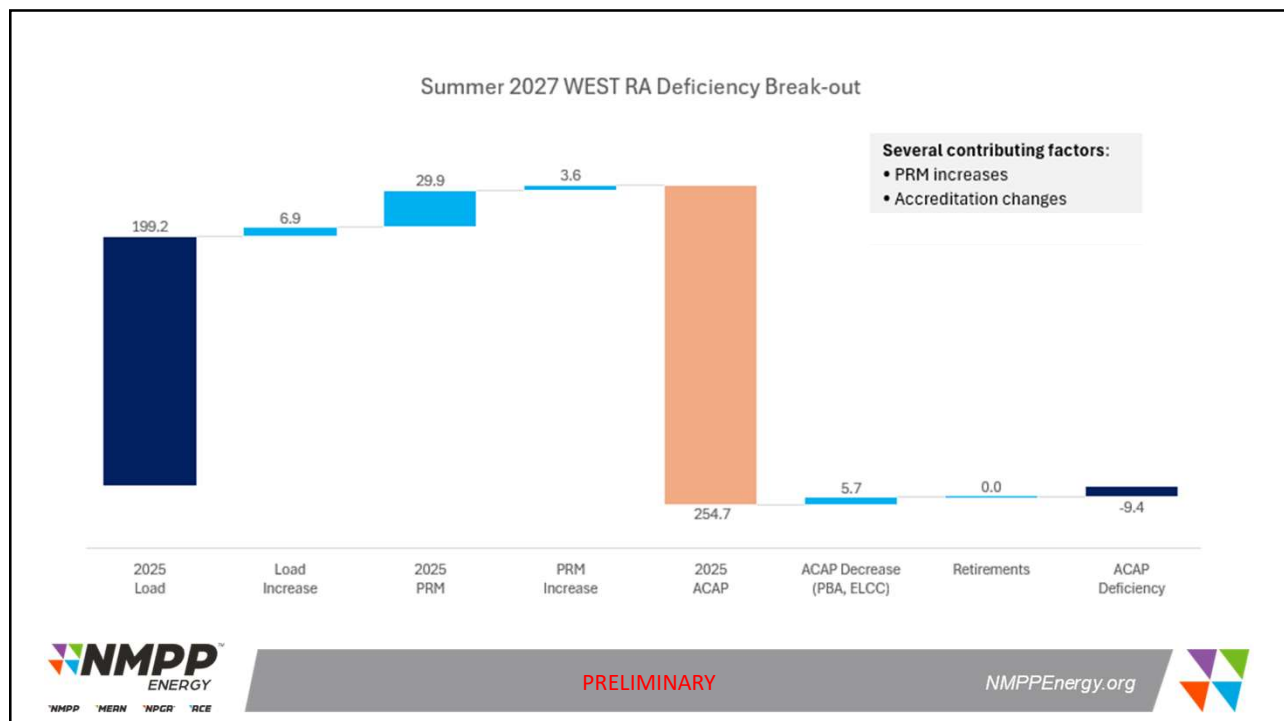
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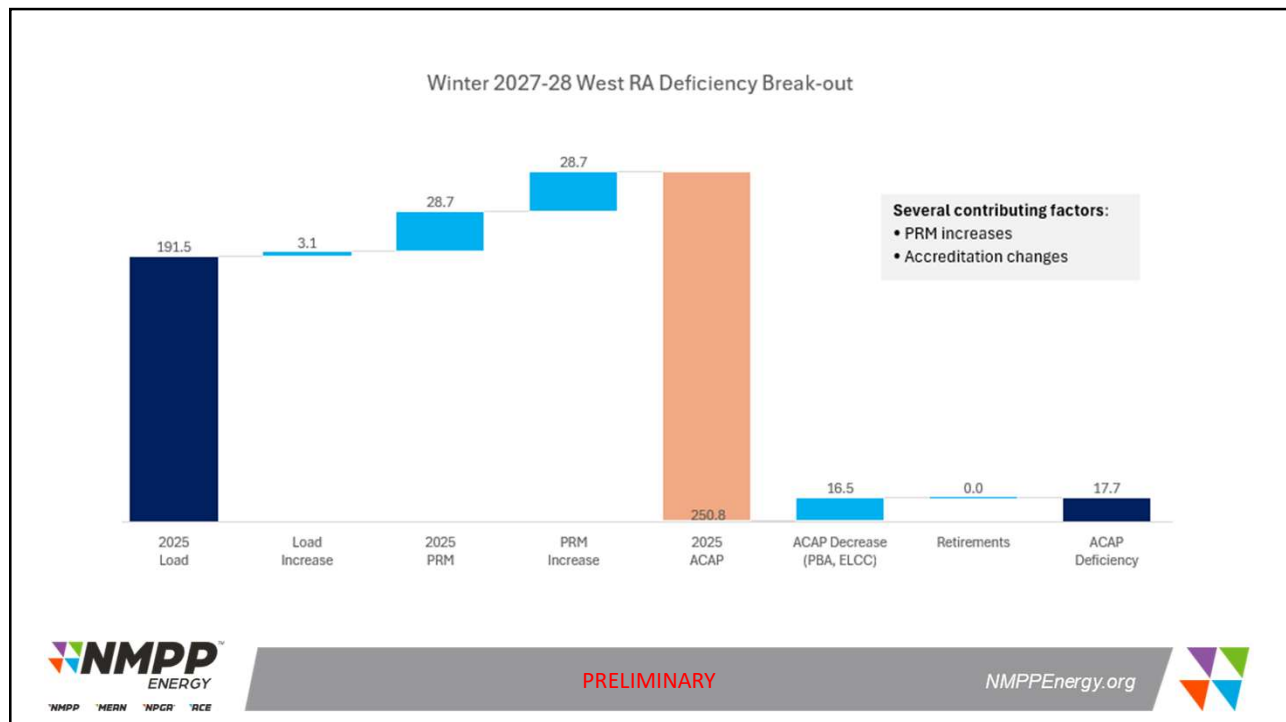
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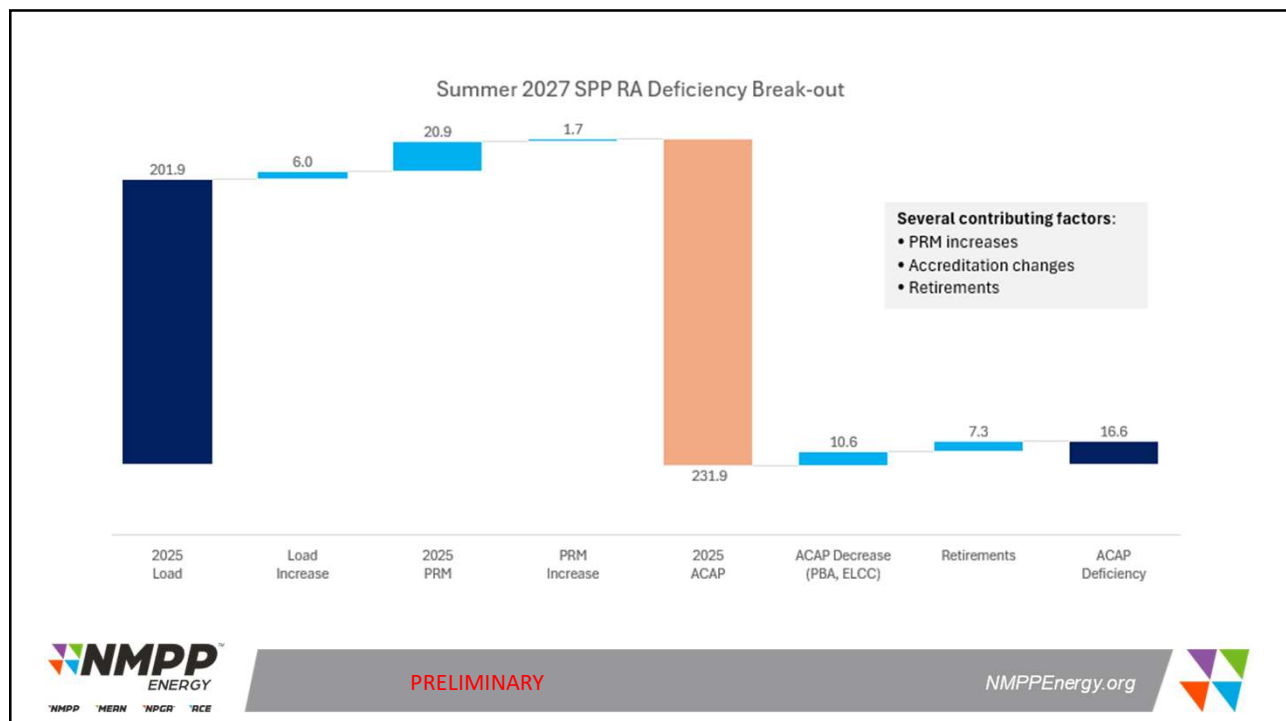
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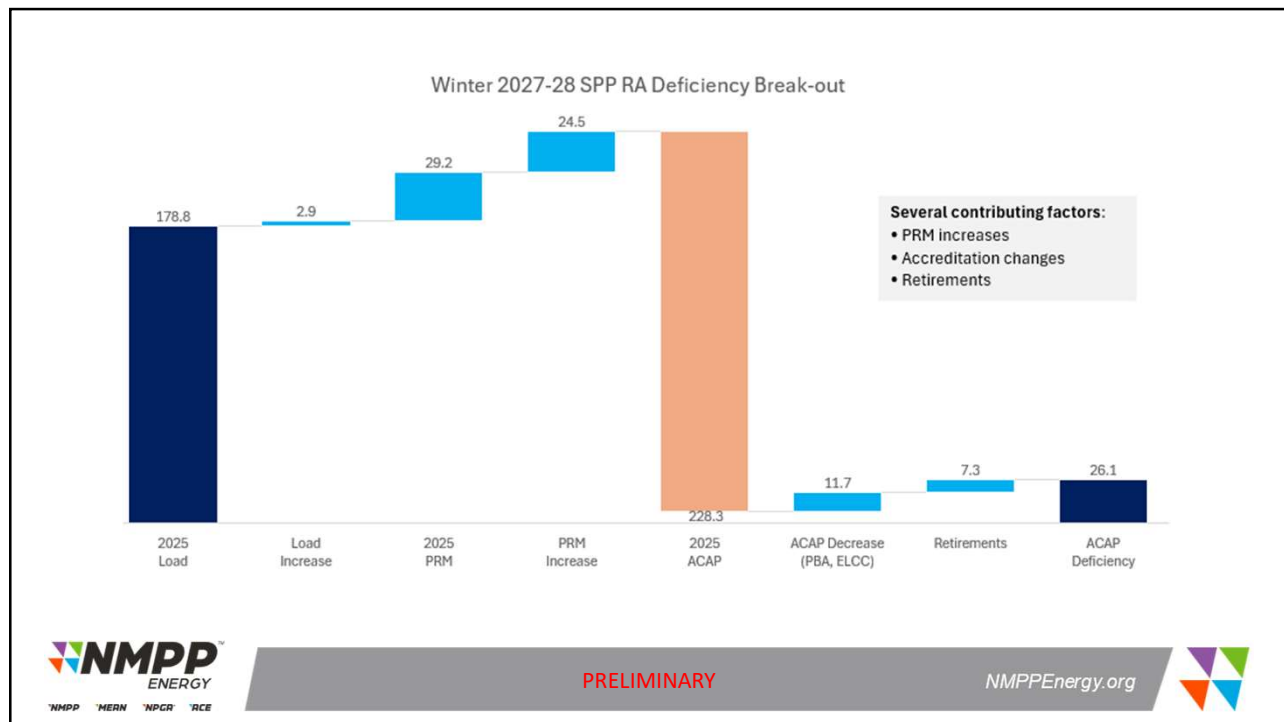
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## Kilgore Wind Project

**Project was approved in May 2024**  
**MEAN Staff continue to evaluate**

- 53MW Wind Farm located near Valentine Nebraska
  - MEAN considering between 10-20 MW
  - Likely replacement for Ainsworth Wind
- Project has been approved for potential PACE financing and granted 20% loan forgiveness
- Final SPP Interconnection results expected in late May per SPP's latest schedule
- Estimated Commercial Operation Date of 4th Quarter 2026
- Transmission Request was made in early June, but kicked out due to Generation Interconnection

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## Battery Storage

- Policy in development
- Discussions held with inquiring communities
- Fast to build
- Fast to degrade
- Market and accreditation uncertainty



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## Solar Projects

### Rolling Prairie – 250 MW

- Location: Cass County, NE
- GI Status: in 2020 queue
  - GIA in July
- Anticipated COD: Q3 2028
- Next Steps
  - GIA & CUP

Project is still in development,  
MEAN staff continue to evaluate



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## Solar Projects

### Solar project near Sidney, NE – 40 MW

- Location: Cheyenne County, NE
- GI Status: active GIA
  - R-Line Contingent
- Anticipated COD: Q4 2027
- Next Steps
  - Sandhills to finalize acquisition

Project is still in development,  
MEAN staff continue to evaluate



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## Raceway Solar (Fort Morgan II): May 2025 Update

- System Size:
  - 7.0 ACMW
  - 8.6MW dc
- Year 1 Production estimate
  - 17,440MWh
- Proposed Schedule
  - Mobilization: November 2025
  - Expected COD: June 2026



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## Sandhills Community Solar and MEAN Contracted Solar

- 16 Communities signed PPAs with Sandhills for Community Solar Projects
- 21.20 MW-AC Community Solar
- ~19.788 MW-AC MEAN Contracted Solar



Resource	MWs (AC)	MWs (DC)	Project Start	Estimated COD	Notes
Pender - Community Solar (fixed tilt)	0.35	0.386	10/21/2024	4/5/2025	Online 4/5/2025
Denver - Community Solar	0.375	0.408	10/21/2024	5/22/2025?	Construction Complete. Awaiting NPPD Approval
Stuart - Community Solar	0.15	0.163	10/21/2024	5/22/2025?	Construction Complete. Awaiting NPPD Approval
Ansley - Community Solar (fixed tilt)	0.12	0.139	10/21/2024	12/19/2024	Site online 12/19/2024
Crete - Community Solar	1.6	1.934	9/9/2024	1/27/2025	Construction Completed. Awaiting Energization
Gering - Community Solar	1.112	1.307	7/17/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Gering - MEAN Contracted Solar	2.888	3.393	7/17/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Sidney - Community Solar	1.6	1.931	6/4/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Sidney - MEAN Contracted Solar	2.2	2.655	6/4/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Alliance - Community Solar	2.4	2.88	5/14/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Alliance - MEAN Contracted Solar	5.4	6.48	5/14/2024	5/22/2025	Construction Complete - Working through WAPA Comms
Imperial - Community Solar	0.525	0.665	8/6/2024	3/15/2025	Online 3/15/2025
Wray - Community Solar	0.35	0.316	6/1/2025	9/30/2025	
Delta - Community Solar	0.875	1.02	6/1/2025	9/30/2025	
Fort Morgan - Community Solar	3.8	4.45	1/6/2025	7/9/2025	Most Panels Installed
Fort Morgan (Raceway) - MEAN Contracted Solar	7.0	TBD	Q3 2024	Q2 2025	TBD
Indianola - Community Solar	3.4	4.2	TBD	9/30/2025	
Sergeant Bluff - Community Solar	0.6	0.7	TBD	9/30/2025	
Yuma - Community Solar	0.5	0.604	2/14/2025	7/31/2025	Construction in process. Pilings mostly installed
Yuma - MEAN Contracted Solar	2.3	2.78	2/14/2025	7/31/2025	Construction in process. Pilings mostly installed
Waverly - Community Solar	3.6	4.1	TBD	9/30/2025	



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## Operations Update

Jeff Lindsay  
Manager of Market Operations

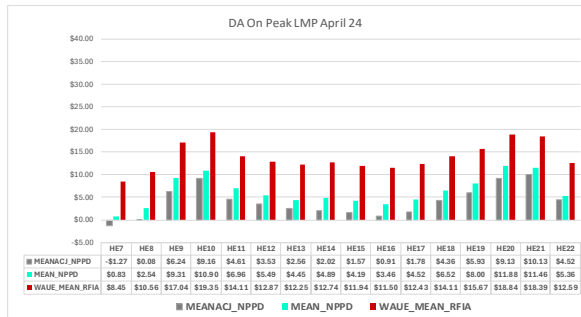


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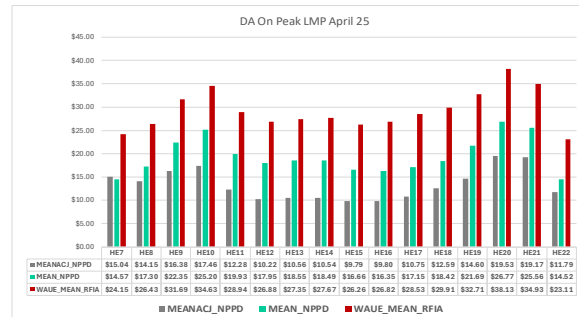


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## MEAN LOAD LMPS 2024 V 2025



2024	OFF PEAK	ON PEAK
MEANACJ_NPPD	-\$3.07	\$4.08
MEAN_NPPD	-\$3.33	\$6.30
WAUE_MEAN_RFIA	\$3.99	\$13.93



2025	OFF PEAK	ON PEAK
MEANACJ_NPPD	\$8.38	\$13.42
MEAN_NPPD	\$4.65	\$19.47
WAUE_MEAN_RFIA	\$12.70	\$29.26

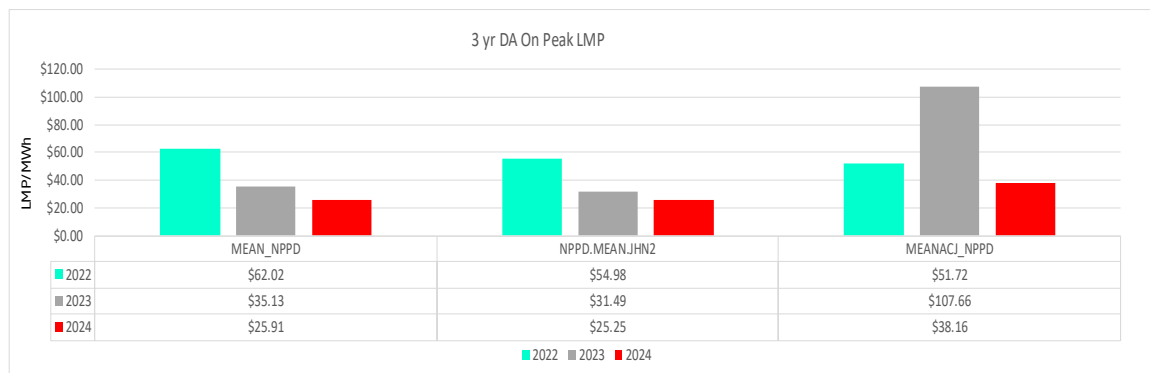


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## LOOK AHEAD- JUNE



- The summer season begins with a forecast that calls for hotter than average temperatures during June.
- Cooling load driven peaks will approach the upper 40GW range quickly and likely exceed the 50GW range at the peak.
- Capacity on outage levels will come down significantly entering the summer season.

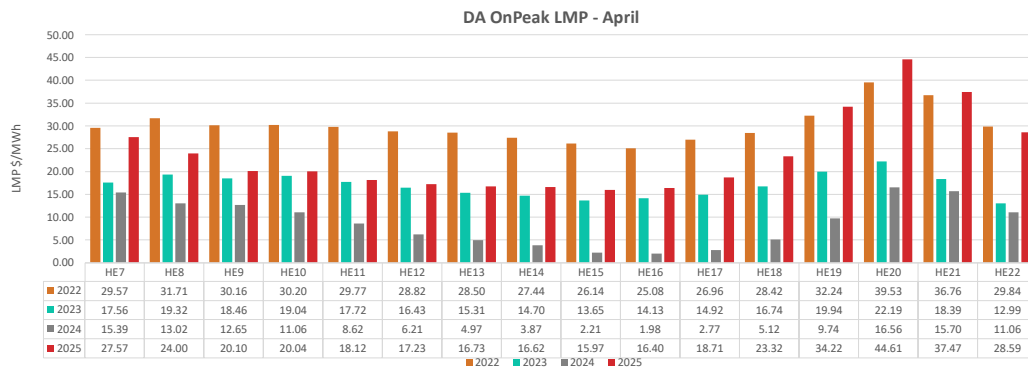


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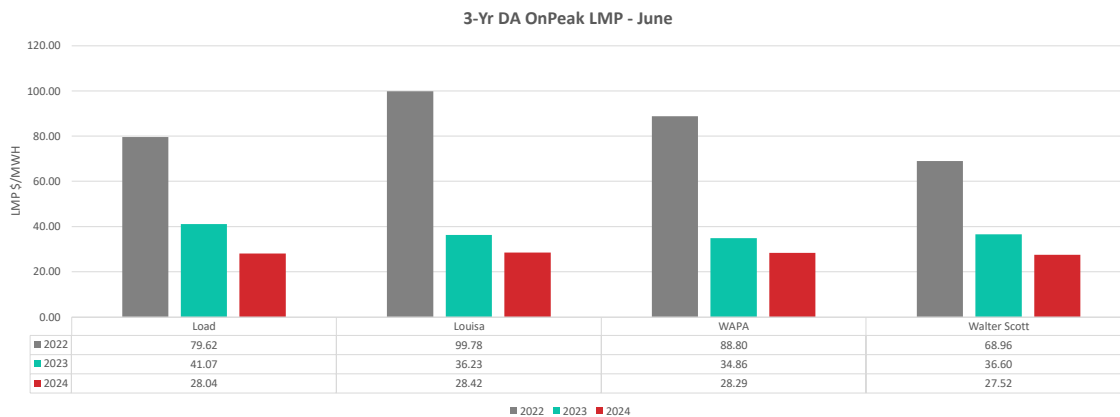
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## MEC.MEAN.LD LOAD LMP



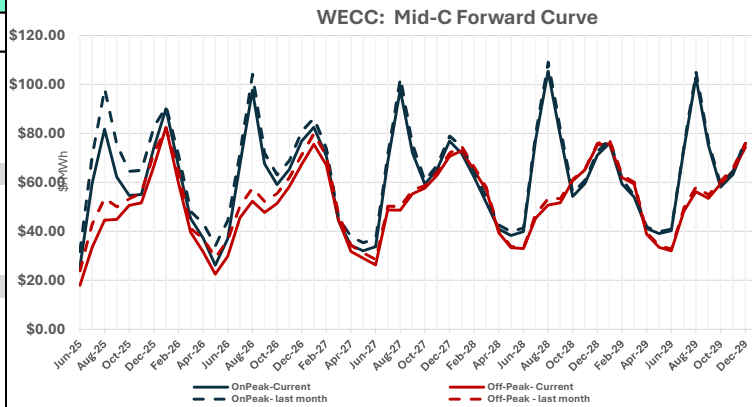
Year	April OnPeak Avg LMP	April OffPeak Avg LMP
2022	\$30.07	\$21.91
2023	\$16.97	\$7.20
2024	\$8.81	\$6.52
2025	\$23.73	\$13.29

## HISTORICAL PEAK PRICING



## WECC: MID C FORWARD CURVE

	ON PEAK			OFF PEAK		
	\$/MWh	M/M change	% change	\$/MWh	M/M change	% change
Calendar 2025	\$58.93	(\$10.89)	-18%	\$44.19	(\$6.09)	-14%
Calendar 2026	\$61.30	(\$4.82)	-8%	\$48.99	(\$4.30)	-9%
Calendar 2027	\$61.44	(\$2.92)	-5%	\$51.49	(\$2.14)	-4%
Calendar 2028	\$62.60	(\$2.15)	-3%	\$54.07	(\$1.16)	-2%
Calendar 2029	\$63.18	(\$1.25)	-2%	\$54.79	(\$1.17)	-2%
Winter 2026	\$78.29	(\$2.74)	-3%	\$71.10	(\$2.00)	-3%
Winter 2027	\$76.64	(\$3.35)	-4%	\$71.29	(\$3.98)	-6%
Winter 2028	\$66.94	(\$2.60)	-4%	\$68.83	(\$1.63)	-2%
Winter 2029	\$67.69	(\$1.63)	-2%	\$68.89	(\$1.21)	-2%
Summer 2025	\$70.56	(\$14.08)	-20%	\$38.89	(\$9.41)	-24%
Summer 2026	\$82.42	(\$5.76)	-7%	\$48.85	(\$5.25)	-11%
Summer 2027	\$83.12	(\$3.99)	-5%	\$48.71	(\$1.54)	-3%
Summer 2028	\$91.40	(\$3.22)	-4%	\$48.07	(\$2.20)	-5%
Summer 2029	\$88.06	(\$1.73)	-2%	\$52.13	(\$1.69)	-3%



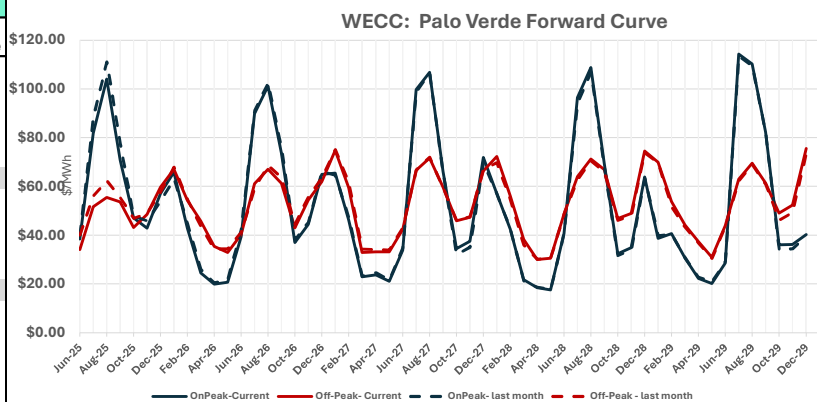
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## WECC: PALO VERDE FORWARD CURVE

	ON PEAK			OFF PEAK		
	\$/MWh	M/M change	% change	\$/MWh	M/M change	% change
Calendar 2025	\$63.16	(\$3.28)	-5%	\$49.43	(\$3.11)	-6%
Calendar 2026	\$52.02	(\$1.09)	-2%	\$52.03	(\$0.63)	-1%
Calendar 2027	\$52.47	\$0.46	1%	\$52.78	(\$0.65)	-1%
Calendar 2028	\$50.29	\$0.66	1%	\$54.03	\$0.94	2%
Calendar 2029	\$50.03	\$0.29	1%	\$54.21	\$1.14	2%
Winter 2026	\$54.39	\$0.40	1%	\$60.65	(\$0.66)	-1%
Winter 2027	\$55.83	(\$0.15)	0%	\$67.13	(\$1.23)	-2%
Winter 2028	\$49.81	\$0.06	0%	\$64.17	\$2.06	3%
Winter 2029	\$39.66	(\$0.41)	-1%	\$61.82	\$1.17	2%
Summer 2025	\$92.96	(\$6.80)	-7%	\$53.50	(\$5.78)	-11%
Summer 2026	\$95.55	(\$1.19)	-1%	\$64.09	\$0.01	0%
Summer 2027	\$103.23	\$0.63	1%	\$69.12	(\$0.30)	0%
Summer 2028	\$102.60	\$2.17	2%	\$67.63	\$0.99	1%
Summer 2029	\$112.26	\$0.85	1%	\$66.18	\$0.45	1%

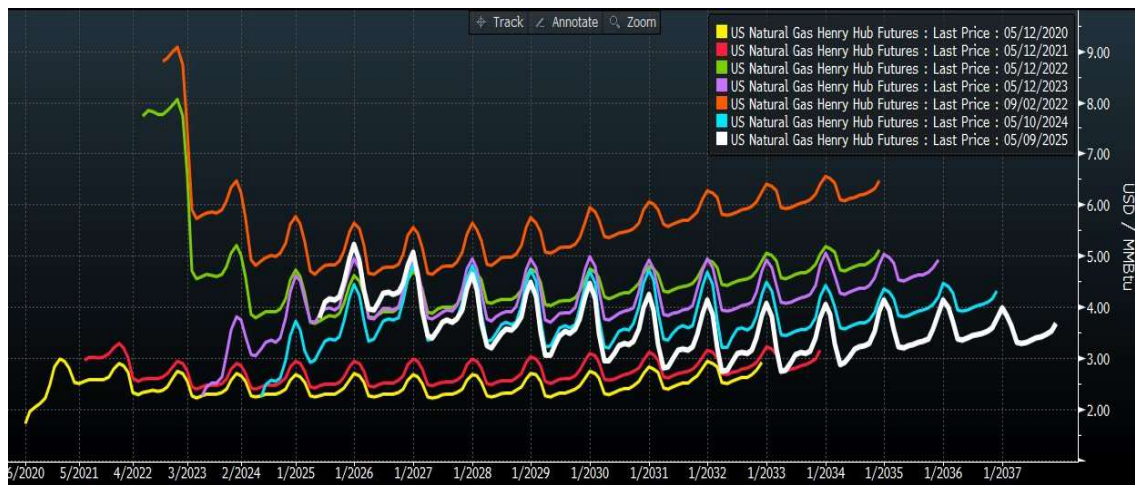


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## NATURAL GAS FORWARD CURVE (5-YEARS)




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- Winter Season Summary
  - MISO
  - SPP
- Spring planned outage update
  - MISO
  - SPP
  - West
- RTOE Update
  - Testing
  - RTOE scheduled to start April 2026.
- MISO and SPP Resource Alerts



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# Adjourn



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