

# NEPOOL Participants Committee Report

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*June 2025*



Vamsi Chadalavada

EXECUTIVE VICE PRESIDENT AND CHIEF OPERATING OFFICER



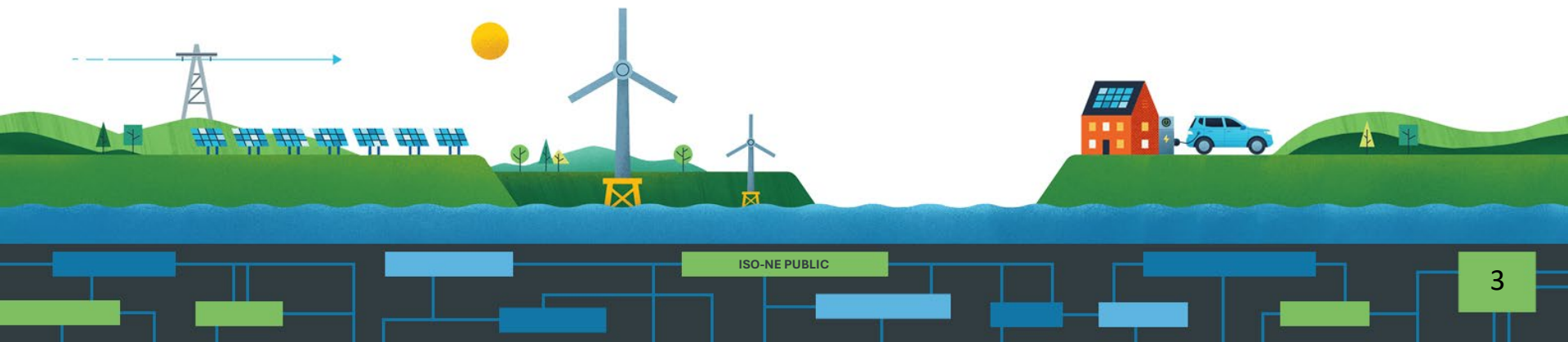
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# Regular Operations Report - Highlights

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# Highlights: May 2025

- **Peak Hour** on May 16
  - 14,633 MW system peak (Revenue Quality Metered/RQM); hour ending 7:00 P.M.
- **Minimum Telemetered Load**
  - 5,451 MW; hour ending 2:00 P.M. on Sunday, May 11
- **Average Pricing**
  - Day Ahead (DA) Hub Locational Marginal Price (LMP): \$35.21/MWh
  - Real Time (RT) Hub LMP: \$32.77/MWh
  - Natural Gas: \$2.55/Mmbtu (MA Natural Gas Avg)
- **Energy Market** value \$332M up from \$260M in May 2024
  - Ancillary Markets\* value \$2.6M down from \$7M in May 2024
  - Average DA cleared physical energy\*\* during the peak hours as percent of forecasted load was 98.7% during May, down from 98.9% during April
  - Updated April Energy Market value: \$400M
- **Net Commitment Period Compensation (NCPC)** total \$1.7M
  - Represents 0.5% of monthly Energy Market value
  - First Contingency \$1.7M
    - Dispatch Lost Opportunity Cost (DLOC) - \$456K; Rapid Response Pricing (RRP) Opportunity Cost - \$144K; Posturing - \$0; Generator Performance Auditing (GPA) - \$0
    - \$136K paid to resources at external locations, up \$24K from April
      - \$104K charged to Day Ahead Load Obligation (DALO) at external locations; \$4K to Day Ahead Generation Obligation (DAGO) at external locations; \$29K to RT Deviations
  - Distribution \$15K ; 2nd Contingency and Voltage were zero
- **Forward Capacity Market (FCM)** market value \$119.7M
  - FCM peak for 2025 is currently 19,342 MWh

Underlying natural gas data furnished by:



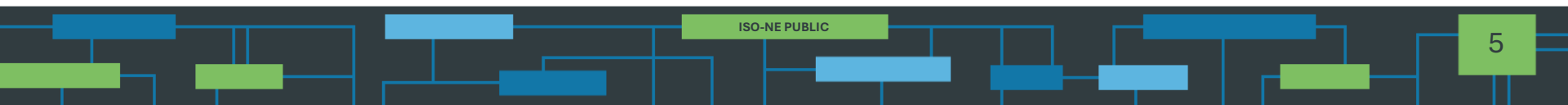
\*Ancillaries = Reserves, Regulation, NCPC, less Marginal Loss Revenue Fund \*\*DA cleared physical energy is the sum of generation, DRR, and net imports cleared in the DA Energy Market and does not include EIR MW. Effective March 1, 2025, EIR MW obligations from physical generation and DRR are additionally procured up to (but not exceeding) 100% of the forecasted energy requirement.



# Year-to-Date Peak Load\* Statistics

- Telemetered System Peak Load: **19,607 MW**
  - hour ending 7:00 P.M. on Wednesday, January 22
- RQM System Peak Load: **19,631 MW**
  - hour ending 7:00 P.M. on Wednesday, January 22
- FCM Peak Load: **19,342 MW**
  - hour ending 6:00 P.M. on Tuesday, January 21
  - At this hour, the capacity zone-level FCM peak loads were 2,761 MW in Northern New England, 1,866 MW in Maine, 7,304 MW in Rest-of-Pool, and 7,411 MW in Southeast New England.

\*Telemetered loads are as reported by the Control Room. RQM loads are of settlement quality and reflect the contribution of Settlement Only Generation (SOG). Due to the difference in calculation methodologies and the impact of SOGs, these values can occur on different days and/or hours. Both are 'net energy for load' concepts and include transmission losses. FCM load values reflect the sum of active, normal load assets that are non-dispatchable, are included in the FCM settlement and do not include transmission losses.

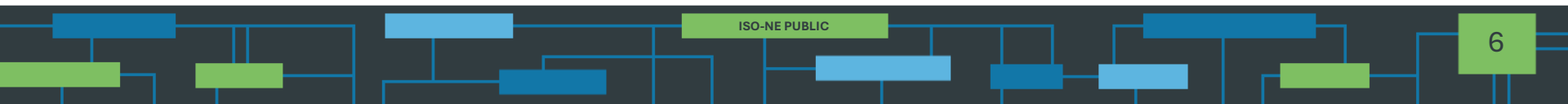


# Day Ahead Ancillary Services (DAAS) Results

- Average daily total DA Energy and Ancillary Services Market value: **\$11M**
- DAAS Settlements:
  - Average daily Gross (pre-closeout) DAAS Credits: **\$190K**
    - Includes EIR, TMOR, TMNSR, and TMOR
  - Net (post-closeout) DAAS Credits per MWh Cleared: **\$0.94/MWh**
  - Net (post-closeout) DAAS Credits as % of total DA E&AS Value: **0.5%**
- FER Credits\* as % of total DA Energy and Ancillary Services Market Value: **5.2%**
- Energy Gap:
  - Average hourly cleared EIR MWh: **155 MWh**
  - Average hourly cleared FER Price: **\$2.06/MWh**

\*Forecast Energy Requirements (FER) credits are paid to all DA cleared energy supply from physical resources (Gen, Imports, DRR).

FER credits are allocated to DA Exports and RTLO excluding RTLO associated with RT Exports and Dispatchable Asset Related Demand Resource (DARDs)



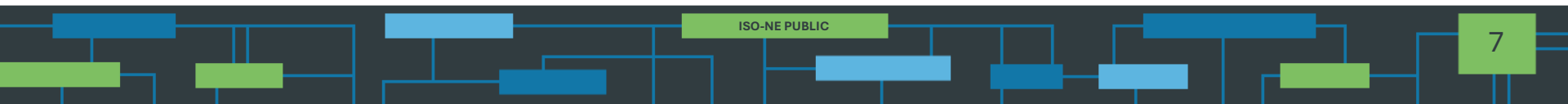
# Day Ahead Ancillary Services (DAAS) Results

Month	Avg. Daily Total E&AS Credit	Avg. Daily DAAS Credit	DAAS Net Credits (post-closeout)	DAAS Net Credits per MWh Cleared	DAAS Net Credits as % of Total E&AS Credit	FER Credit as % of Total E&AS Credit	Avg. Hourly Cleared EIR Obligation MW	Avg. FER Price
March 25	\$17.3M	\$466K	\$202K	\$3.35	1.2%	6.2%	176	\$3.26
April 25	\$13.9M	\$332K	\$175K	\$3.23	1.3%	5.8%	97	\$2.66
May 25	\$11.0M	\$190K	\$52K	\$0.94	0.5%	5.2%	155	\$2.06

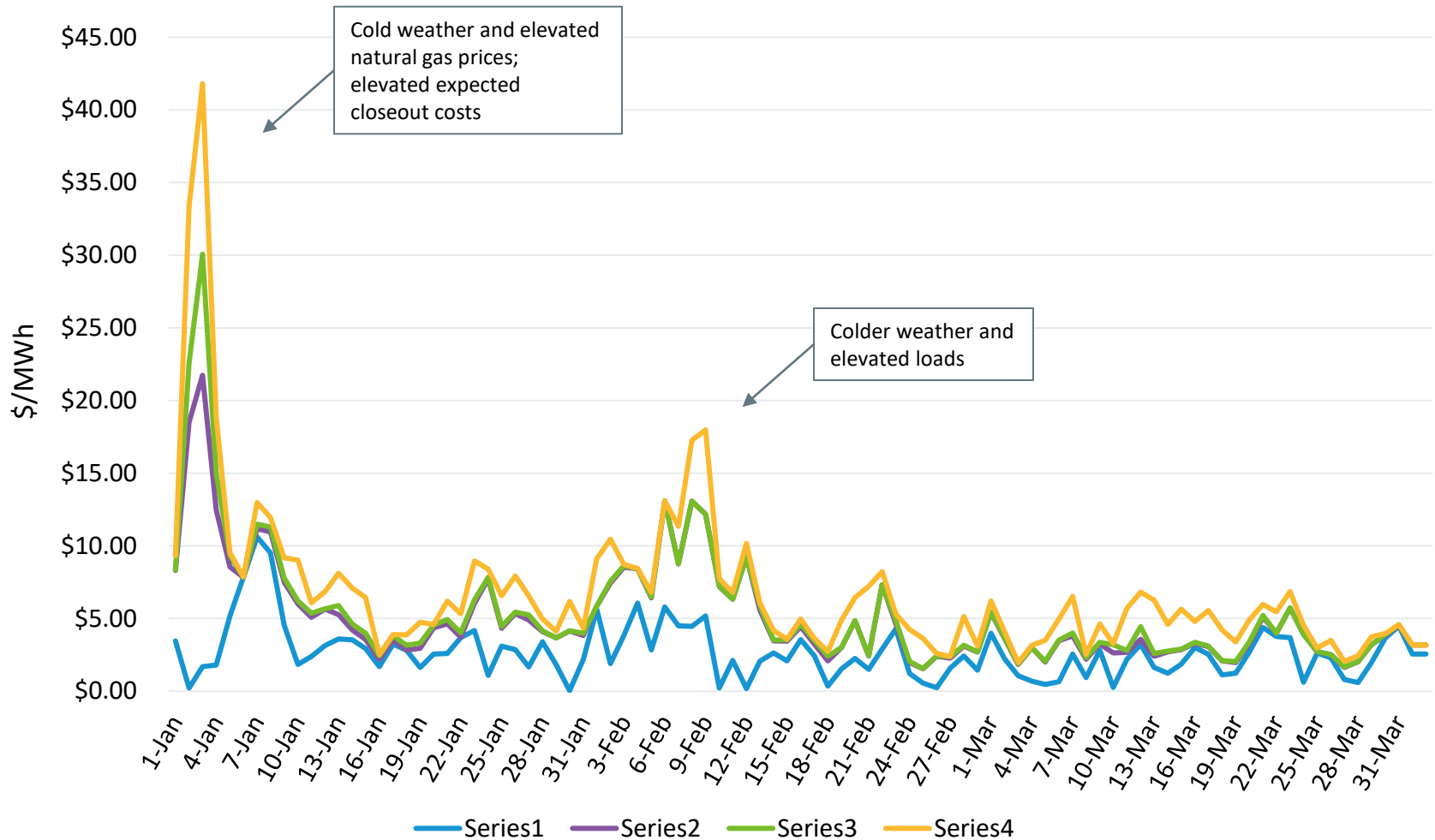
Note: E&AS refers to Energy and Ancillary Services

\*Forecast Energy Requirements (FER) credits are paid to all DA cleared energy supply from physical resources (Gen, Imports, DRR).

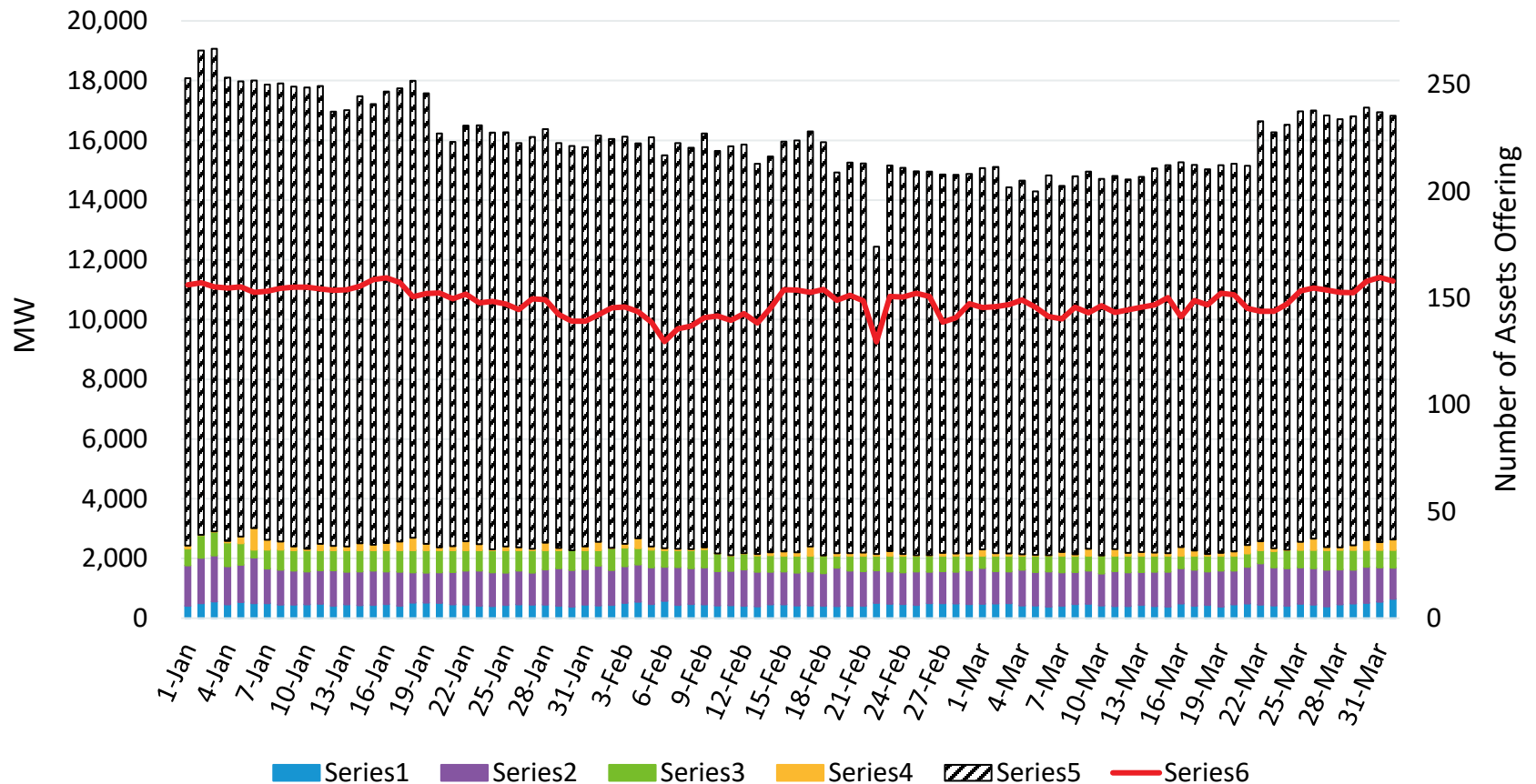
FER credits are allocated to DA Exports and RTLO excluding RTLO associated with RT Exports and Dispatchable Asset Related Demand Resource (DARDs)



# Average Hourly Day-Ahead Ancillary Services (DAAS) Prices (March 1<sup>st</sup>-May 31<sup>st</sup>)



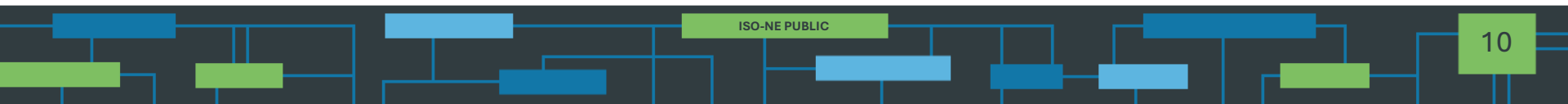
# Average Hourly DAAS Obligated and Unobligated Offer MW\*



\*Unobligated Offer MW reflect *as-offered* MW that remained unobligated (received no MW reward) and may overstate actual available capacity.

# Highlights

- PAC Forum on Grid Enhancing Technologies will take place on June 18 at the Doubletree Westborough
- In response to the April 4, 2025 order on the Order No. 2023 compliance filing, the ISO is targeting narrow date changes that will allow running the Transitional CNR Group Study with the 2025 interim RA qualification process



# Forward Capacity Market (FCM) Highlights

- CCP 16 (2025-2026)
  - The third annual reconfiguration auction (ARA3) was held March 3-5 and results were posted on April 1
- CCP 17 (2026-2027)
  - The second annual reconfiguration auction (ARA2) will be held August 1-5 and results will be posted by September 3
- CCP 18 (2027-2028)
  - ICR and related values for the ARAs to be conducted in 2025 were filed with FERC on November 22, 2024; FERC issued an order accepting the results effective January 21
  - The first annual reconfiguration auction (ARA1) will be held June 2-4 and results will be posted by July 3

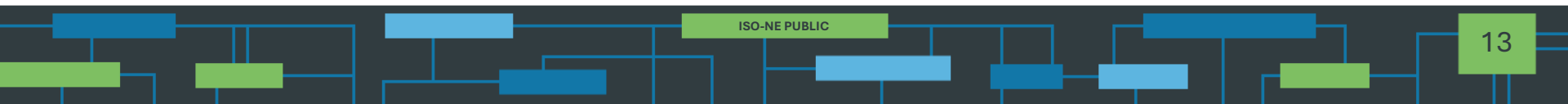
# FCM Highlights, cont.

- CCP 19 (2028-2029)
  - The ISO filed market rule changes to delay FCA 19 for two additional years with FERC on April 5, 2024
    - On May 20, 2024 FERC issued an order accepting the additional delay to FCA 19
  - 2024 interim RA qualification process completed on November 1, 2024
    - A total of 1,389 MW (summer Qualified Capacity) was qualified to participate in future reconfiguration auctions
  - 2025 interim RA qualification process began in April 2025
    - The Show of Interest submission deadline was April 30, 2025
    - In response to the April 4, 2025 order on the Order No. 2023 compliance filing, the ISO is targeting narrow date changes that will allow running the Transitional CNR Group Study with the 2025 interim RA qualification process
  - No ICR and related values will be calculated for CCP 19 until the CAR project is completed

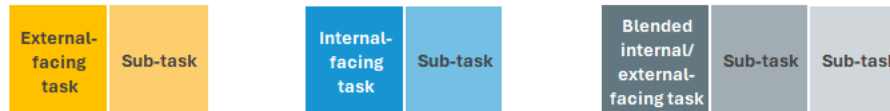


# Load Forecast

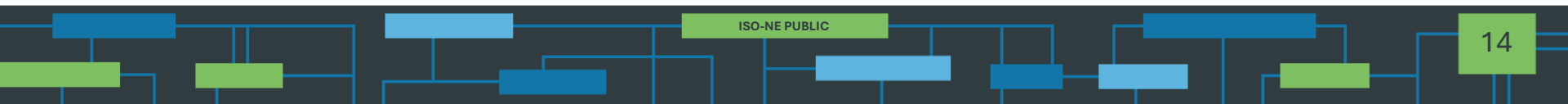
- A new hourly forecast methodology was implemented as part of CELT 2025, and was discussed at the Load Forecast Committee (LFC)
- Stakeholder discussions related to CELT 2026 will begin in September at the LFC



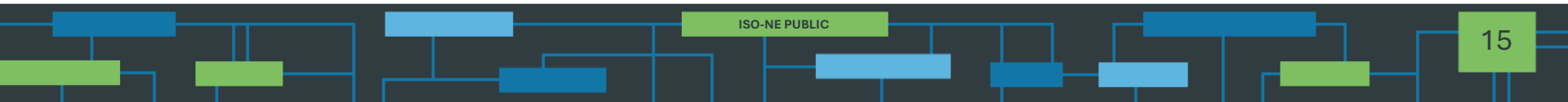
# Asset Condition Reviewer—High Level Project Plan



ACTIVITY	Q2 2025		Q3 2025			Q4 2025			Q1 2026			Q2 2026			Q3 2026			Q4 2026		
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>High Level Project Plan for Permanent ACR process</b>																				
<i>*Interim process - selected projects will be reviewed on a project specific basis in 2025/2026</i>																				
<b>Hire consultant: framework development for permanent ACR process</b>																				
<b>ISO onboards consultant</b>																				
Prepares for introductory stakeholder discussion																				
Group meetings as needed																				
<b>Introductory stakeholder discussion *Forum TBD</b>																				
Discuss ISO's May memo and preconditions																				
Discuss project plan timeline for draft AWP																				
Stakeholder perspectives on their objectives for ACR																				
<b>Interim Process: Define criteria for projects selected for ACP review in interim stage; Review selected projects</b>																				
<b>Develop proposed ACR framework for stakeholder discussion</b>																				
Develop objectives																				
Develop scope of work																				
Develop detailed framework for ACP review; defining information needs																				
Identify timeline for reviews																				
Define stakeholder process for reporting																				
Define roles and responsibilities for ISO and stakeholders																				
<b>Finalize staffing and budgetary information</b>																				
<b>Stakeholder discussion and feedback on proposed framework *Forum TBD</b>																				
Progress report to PAC on status																				
<b>Seek FERC approval for budget</b>																				
<b>ISO stands up staffing and prepares for implementation</b>																				
<b>Implementation of ACR</b>																				



# SYSTEM OPERATIONS



# System Operations

<u>Weather Patterns</u>	Boston	Temperature: Above Normal (0.8°F) Max: 84°F, Min: 44°F Precipitation: 7.25" - Above Normal Normal: 3.25"	Hartford	Temperature: Above Normal (0.5°F) Max: 85°F, Min: 39°F Precipitation: 8.23" - Above Normal Normal: 3.79"
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<u>Peak Load:</u>	14,308 MW	May 16, 2025	20:00 (ending)
<u>Mid-Day Minimum Load:</u>	5,451 MW	May 11, 2025	13:00 (ending)
<u>Mid-Day Minimum Load - Historical:</u>	5,318 MW	April 20, 2025	14:00 (ending)

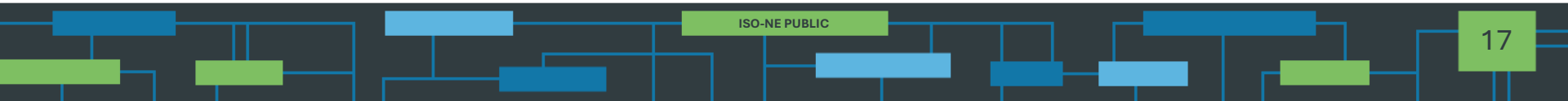
## Emergency Procedure Events (OP-4, M/LCC 2, Minimum Generation Emergency)

Procedure	Declared	Cancelled	Note
NONE			

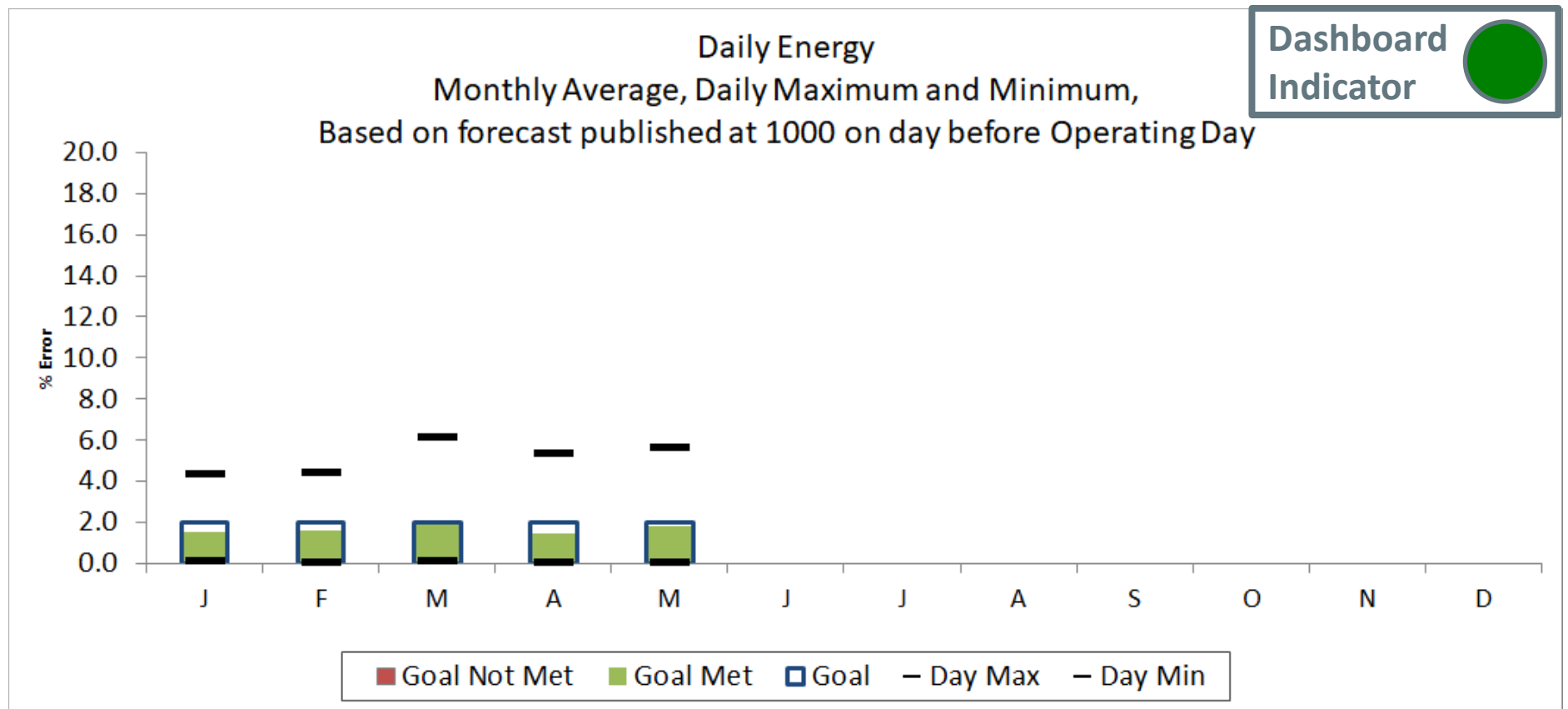
# System Operations

## NPCC Simultaneous Activation of Reserve Events

Date	Area	MW Lost
05/12/2025	IESO	1300

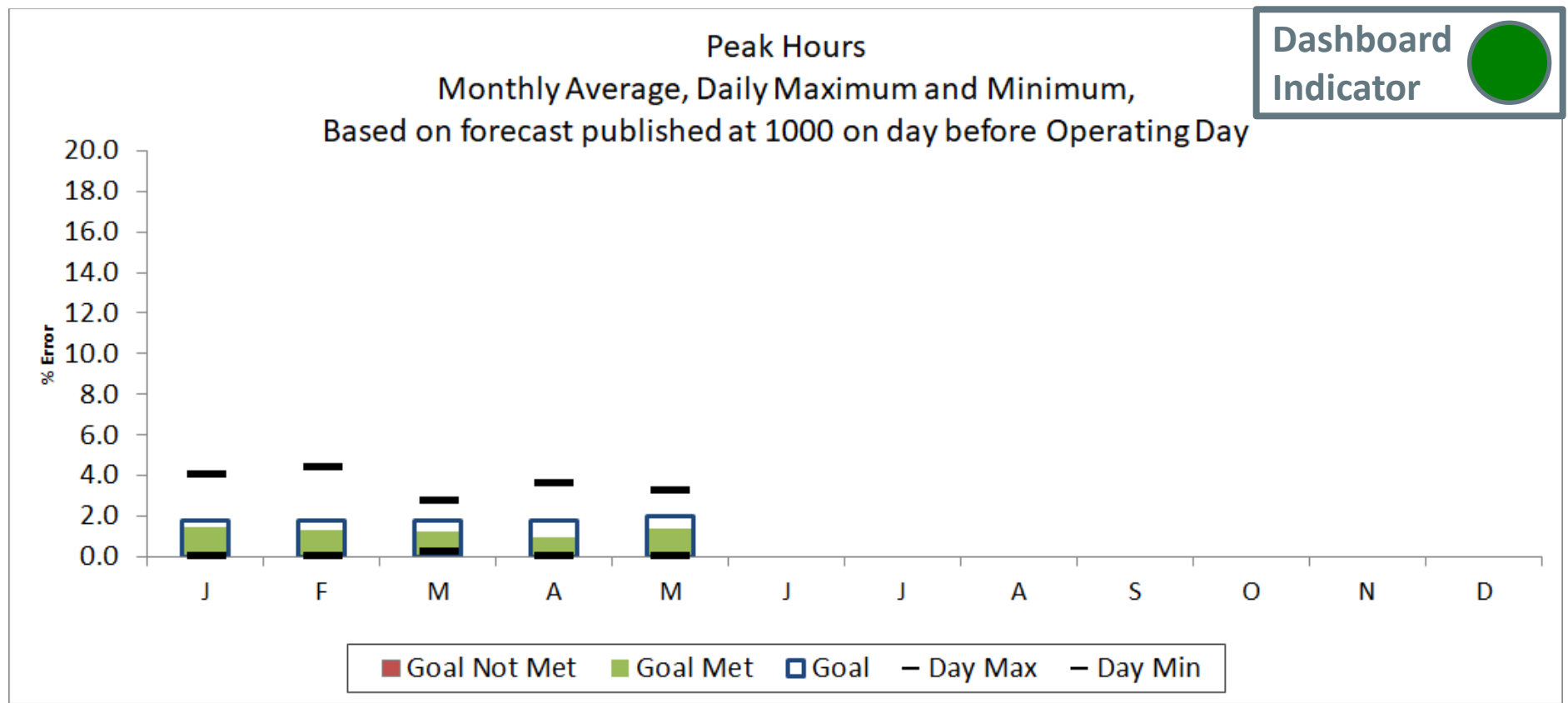


# 2025 System Operations - Load Forecast Accuracy cont.



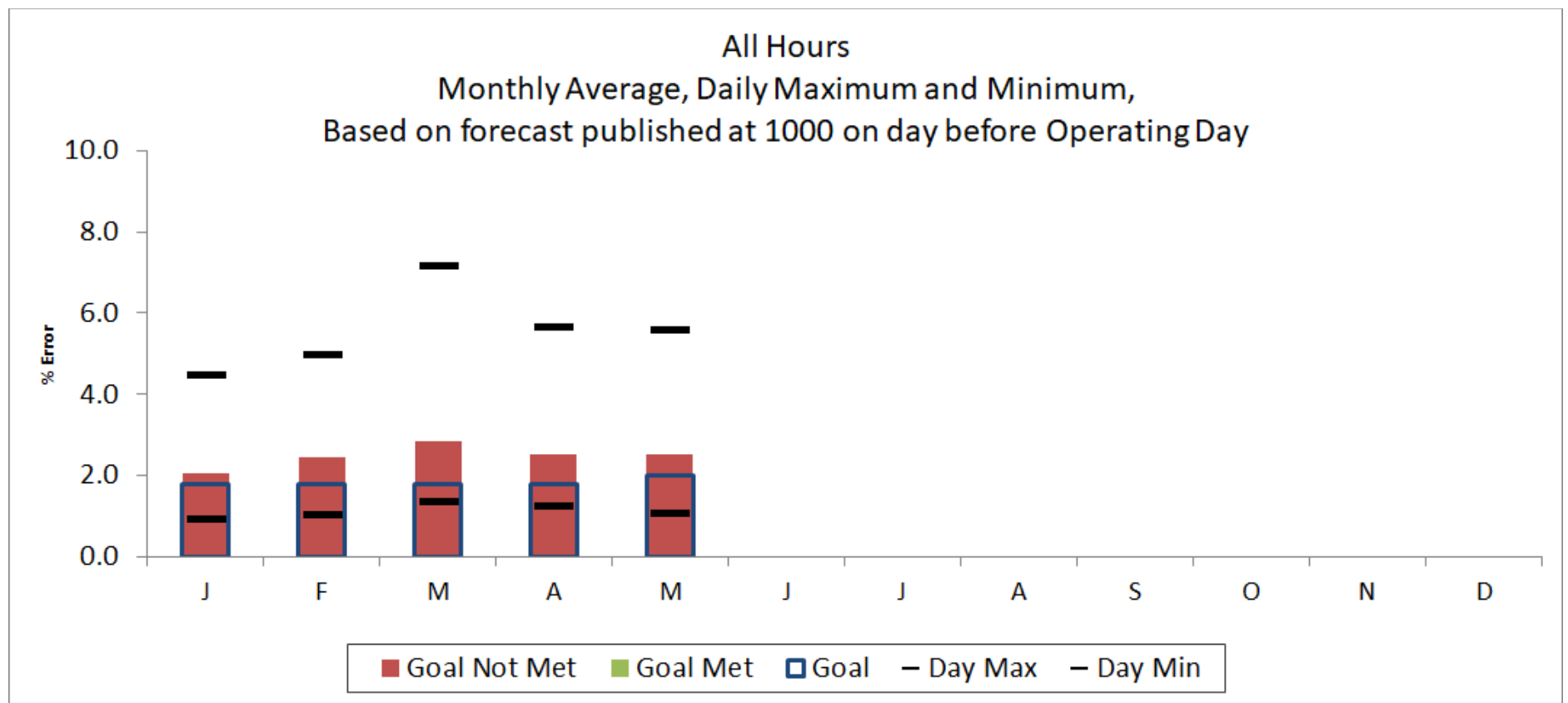
Month	J	F	M	A	M	J	J	A	S	O	N	D	
Day Max	4.31	4.44	6.10	5.36	5.61								6.10
Day Min	0.12	0.04	0.12	0.05	0.06								0.04
MAPE	1.54	1.62	1.89	1.45	1.80								1.66
Goal	2.00	2.00	2.00	2.00	2.00								

# 2025 System Operations - Load Forecast Accuracy cont.

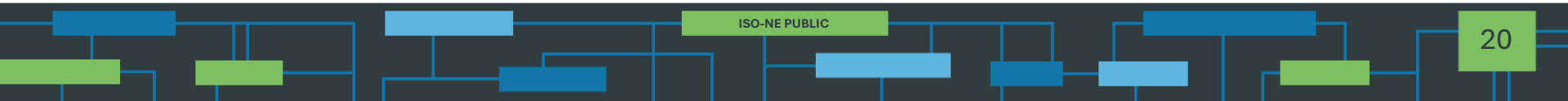


Month	J	F	M	A	M	J	J	A	S	O	N	D	
Day Max	4.04	4.41	2.77	3.63	3.29								4.41
Day Min	0.03	0.06	0.24	0.03	0.06								0.03
MAPE	1.48	1.34	1.29	1.00	1.41								1.30
Goal	1.80	1.80	1.80	1.80	2.00								

# 2025 System Operations - Load Forecast Accuracy cont.

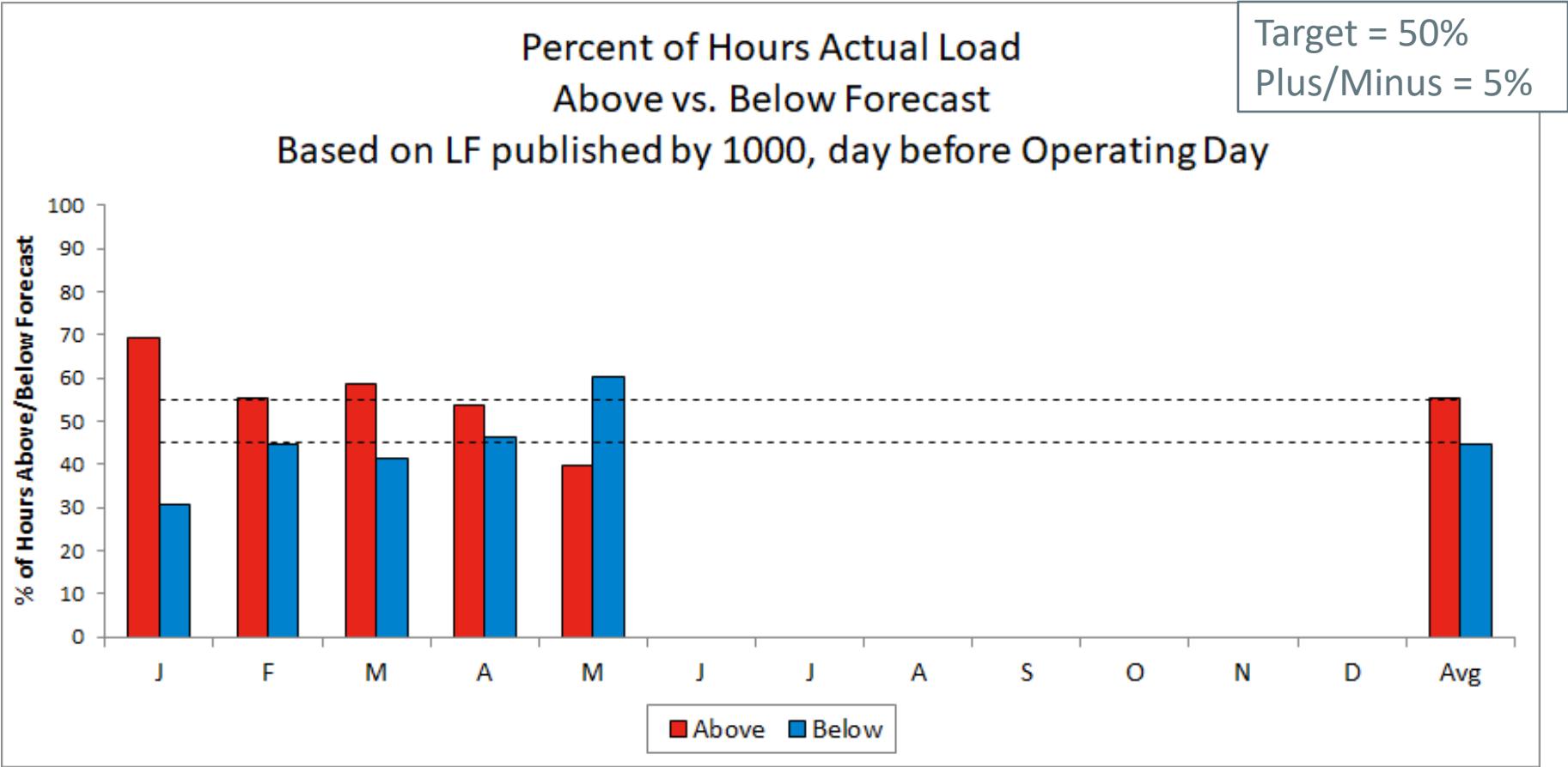


Month	J	F	M	A	M	J	J	A	S	O	N	D	
Day Max	4.46	4.98	7.13	5.65	5.57								7.13
Day Min	0.90	1.02	1.33	1.23	1.07								0.90
MAPE	2.07	2.47	2.83	2.53	2.53								2.49
Goal	1.80	1.80	1.80	1.80	2.00								

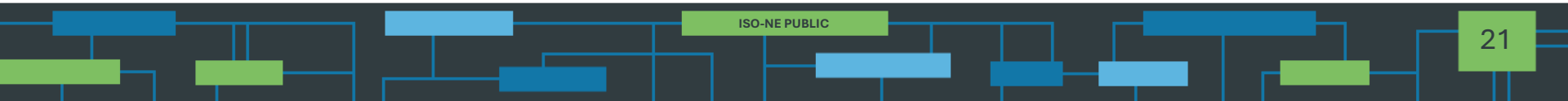




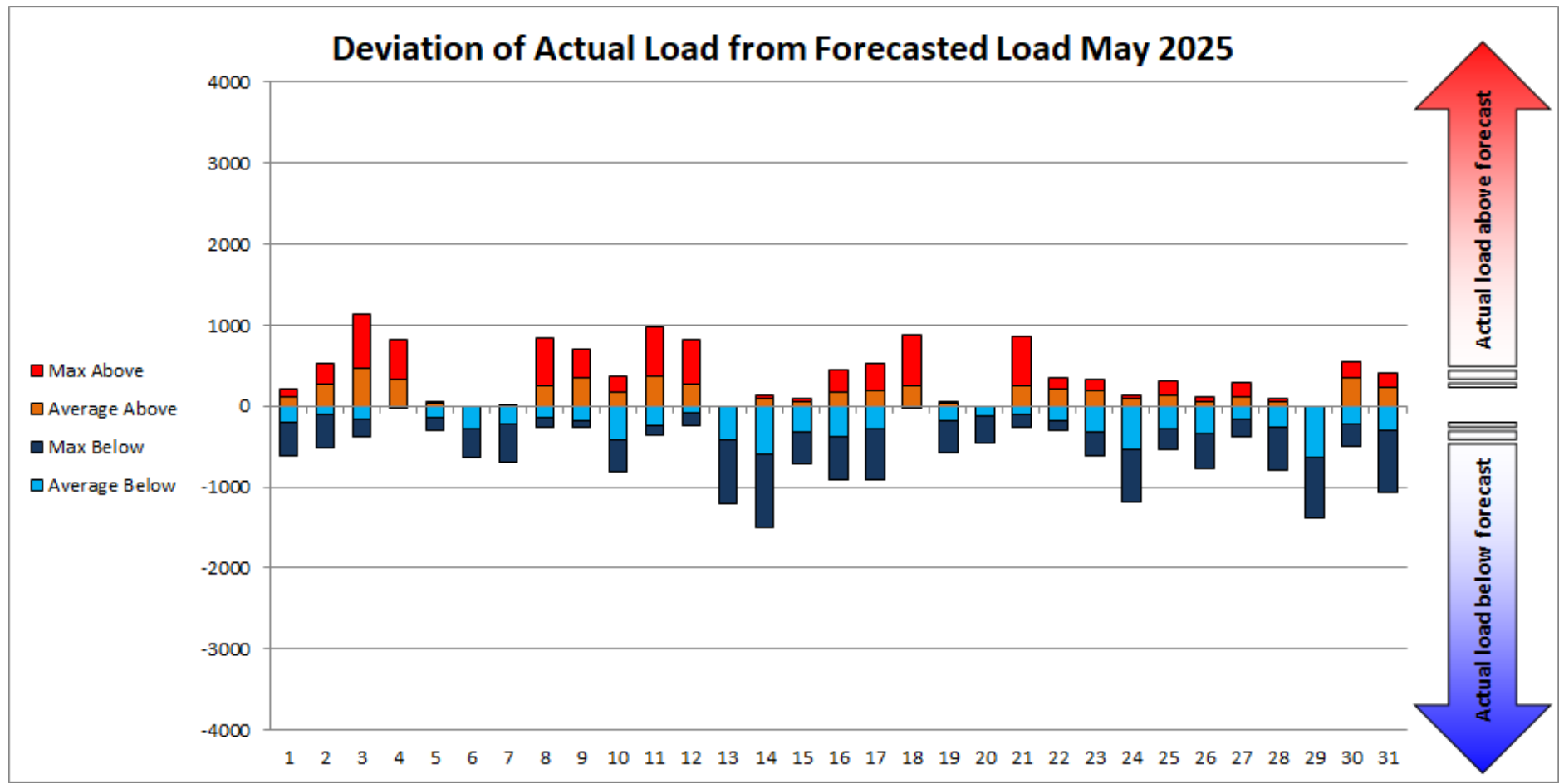
# 2025 System Operations - Load Forecast Accuracy cont.



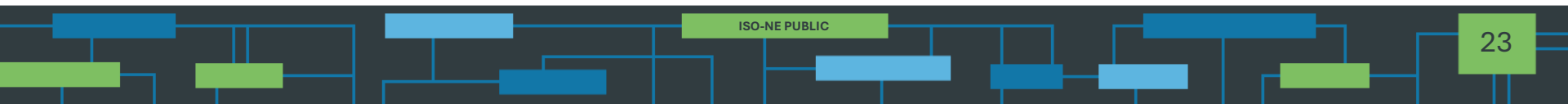
	J	F	M	A	M	J	J	A	S	O	N	D	Avg
Above %	69.2	55.2	58.5	53.5	39.8								55
Below %	30.8	44.8	41.5	46.5	60.2								45
Avg Above	280.5	282.1	246.5	255.8	164.5								282
Avg Below	-178.6	-287.9	-273.2	-190.7	-254.1								-288
Avg All	138	24	12	49	-82								28



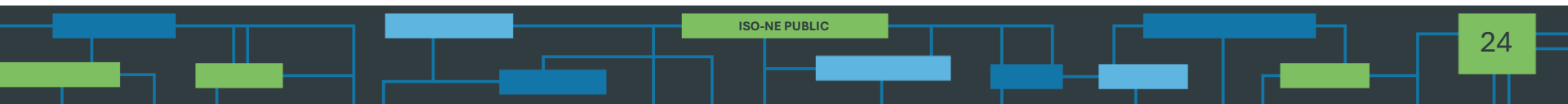
# 2025 System Operations - Load Forecast Accuracy



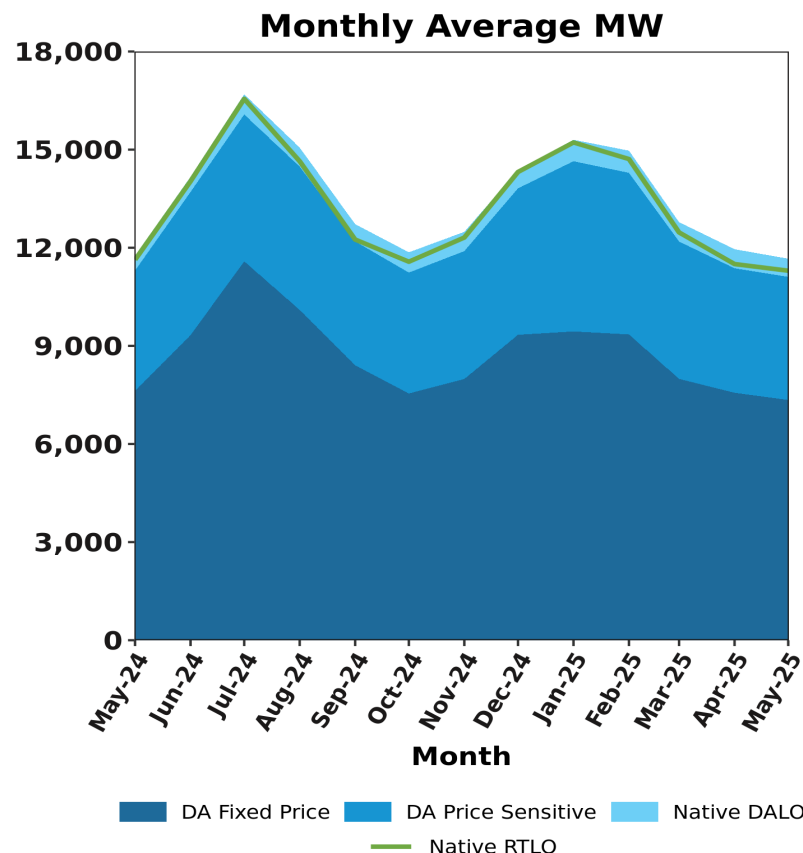
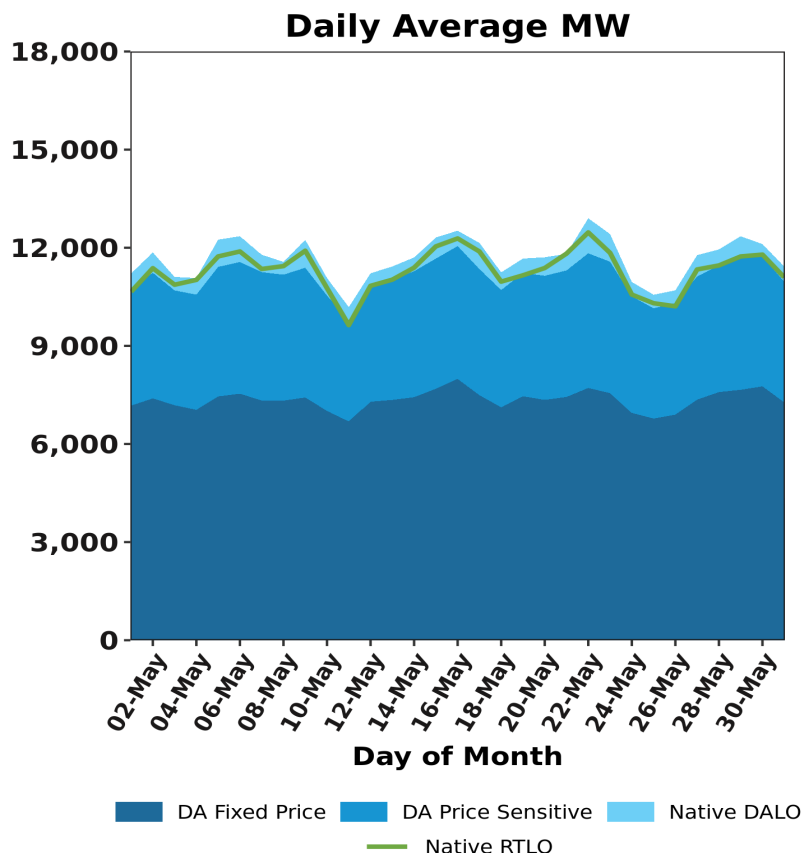
# MARKET OPERATIONS



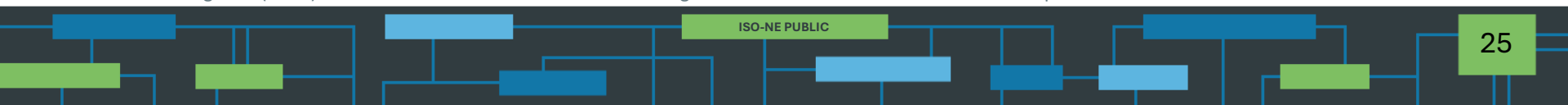
# SUPPLY AND DEMAND VOLUMES



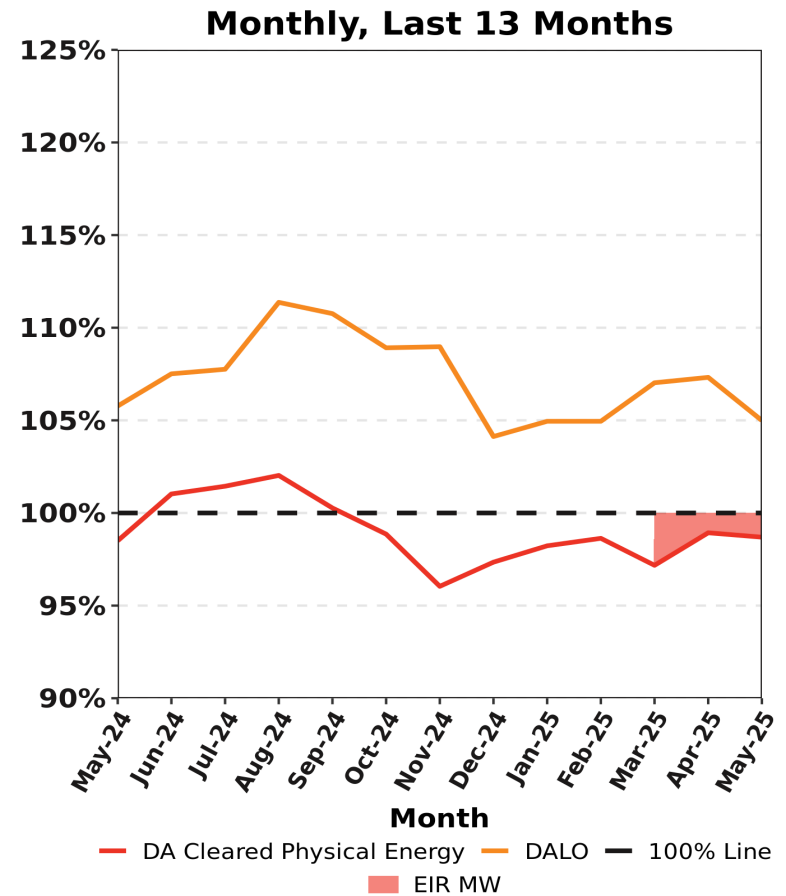
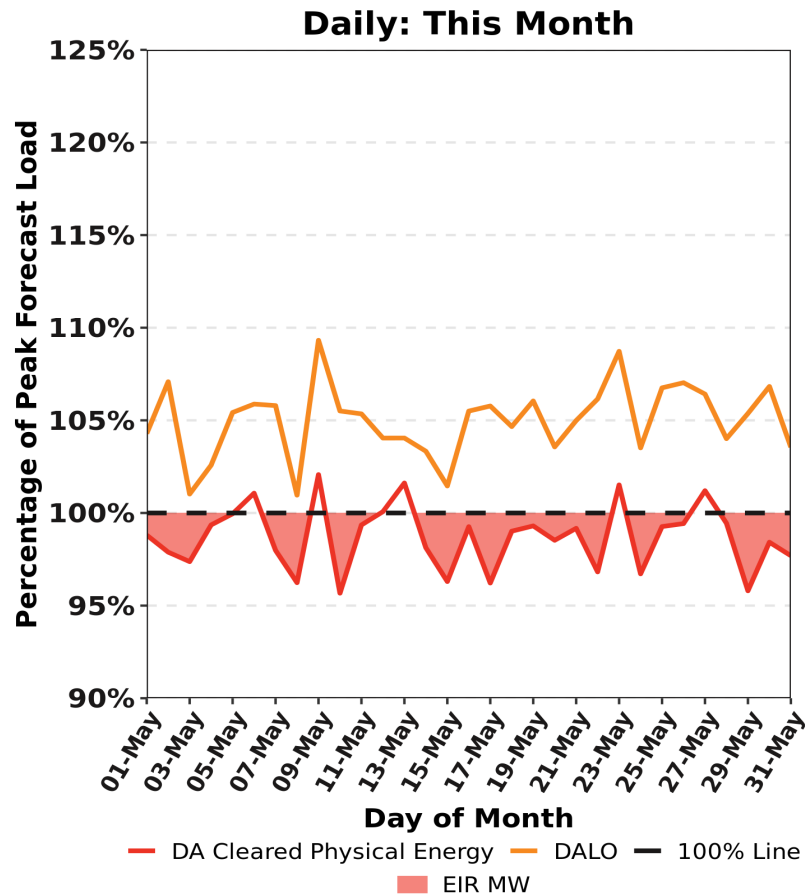
# DA Cleared Native Load by Composition Compared to Native RT Load



Native Day-Ahead Load Obligation (DALO) is the sum of all internal DA cleared load obligation, including internally cleared decrement bids (DECs). Native Real-Time Load Obligation (RTLO) is the sum of all internal real-time load obligation. Modeled transmission losses and exports are excluded in these charts.

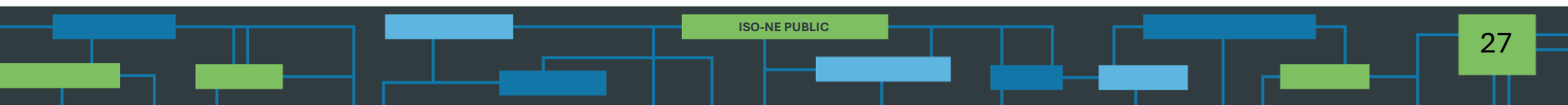
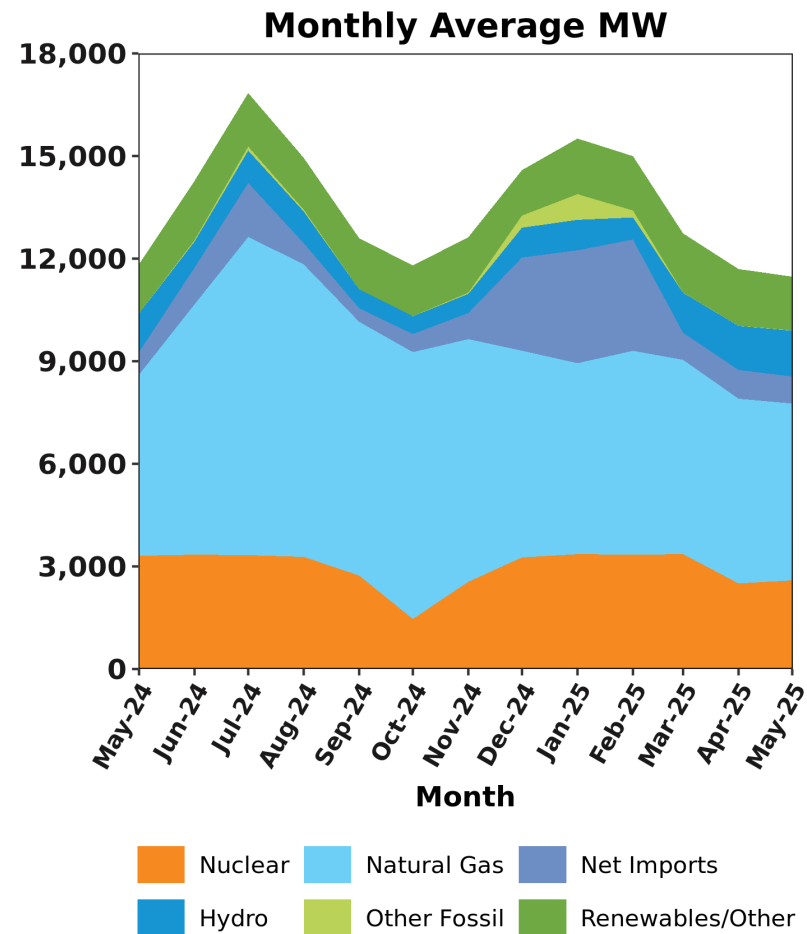
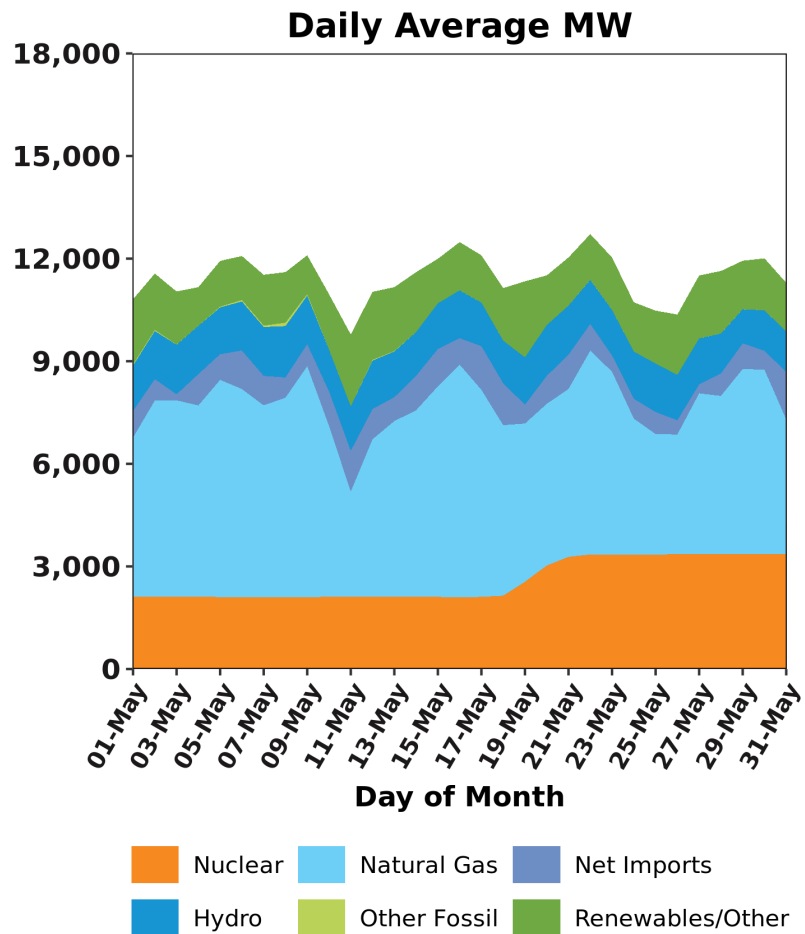


# DA Volumes as % of Forecast in Peak Hour

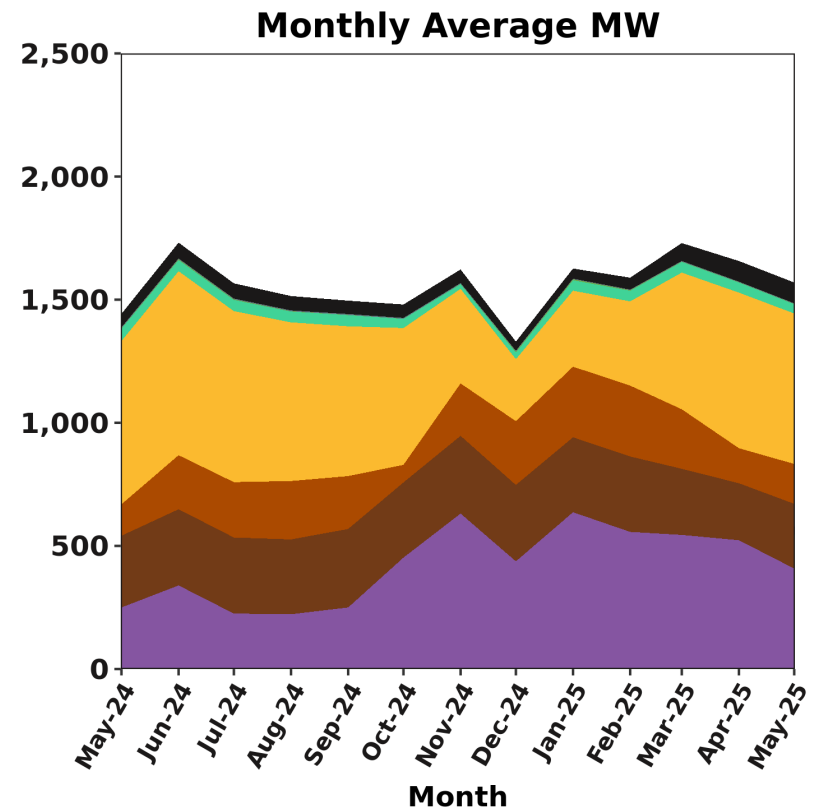
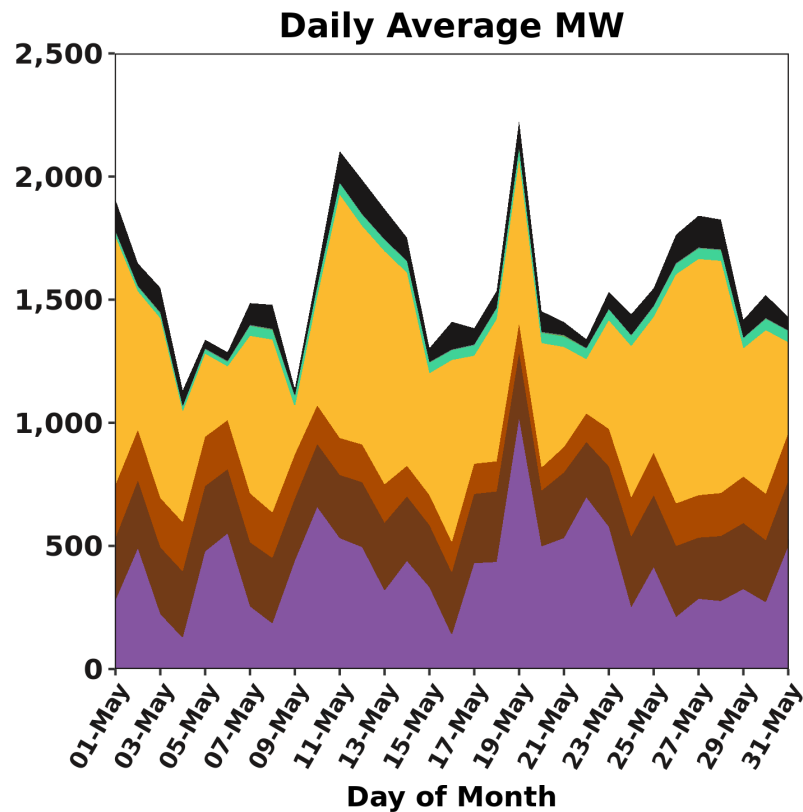


\*DA cleared physical energy is the sum of generation, DRR and net imports cleared in the DA Energy Market and does not include EIR MW. Effective March 1, 2025, EIR MW obligations from physical generation and DRR are additionally procured up to (but not exceeding) 100% of the forecasted energy requirement.

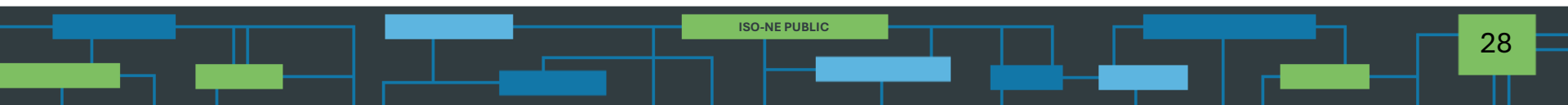
# Resource Mix



# Renewable Generation by Fuel Type

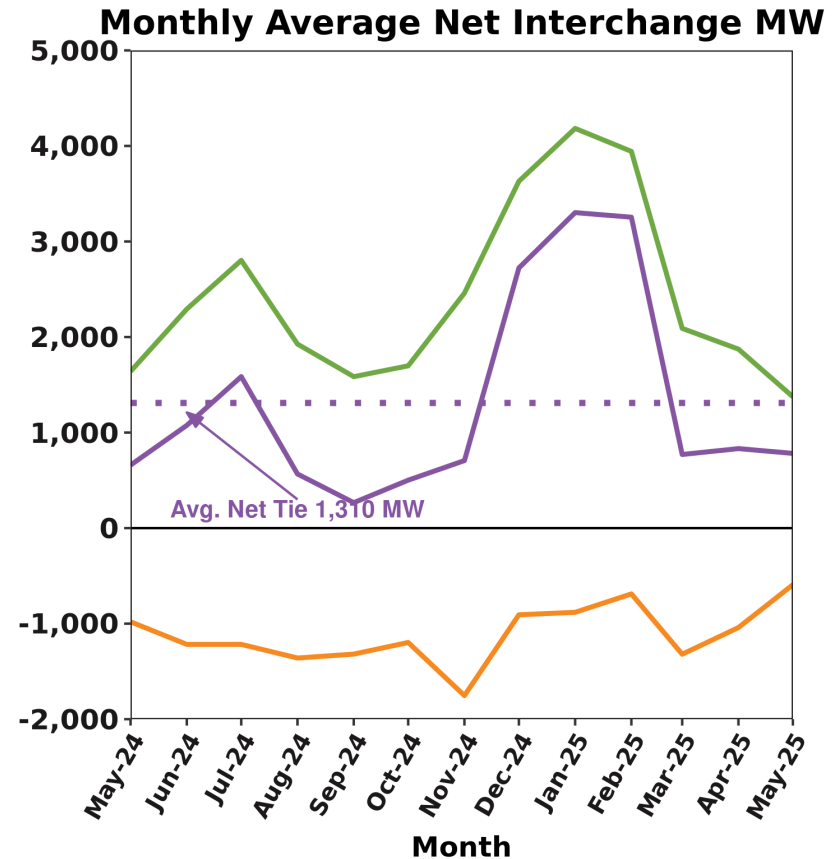
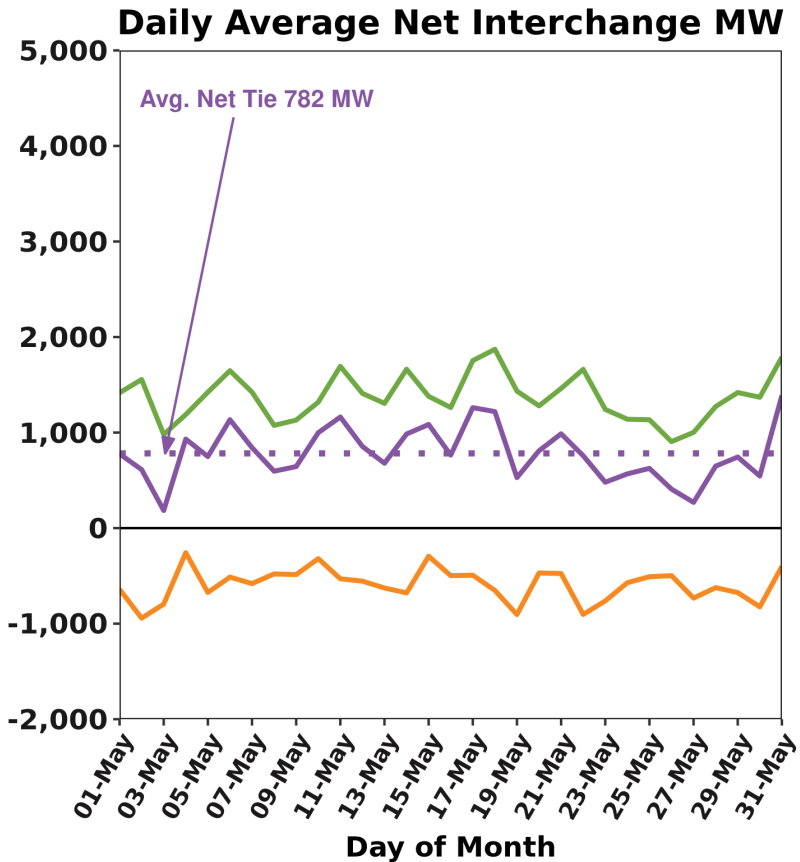


CSF = Continuous Storage Facilities (a.k.a. Batteries)





# RT Net Interchange

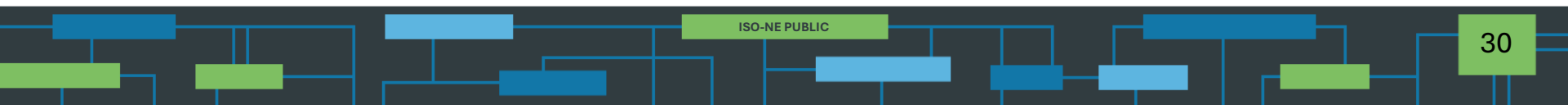
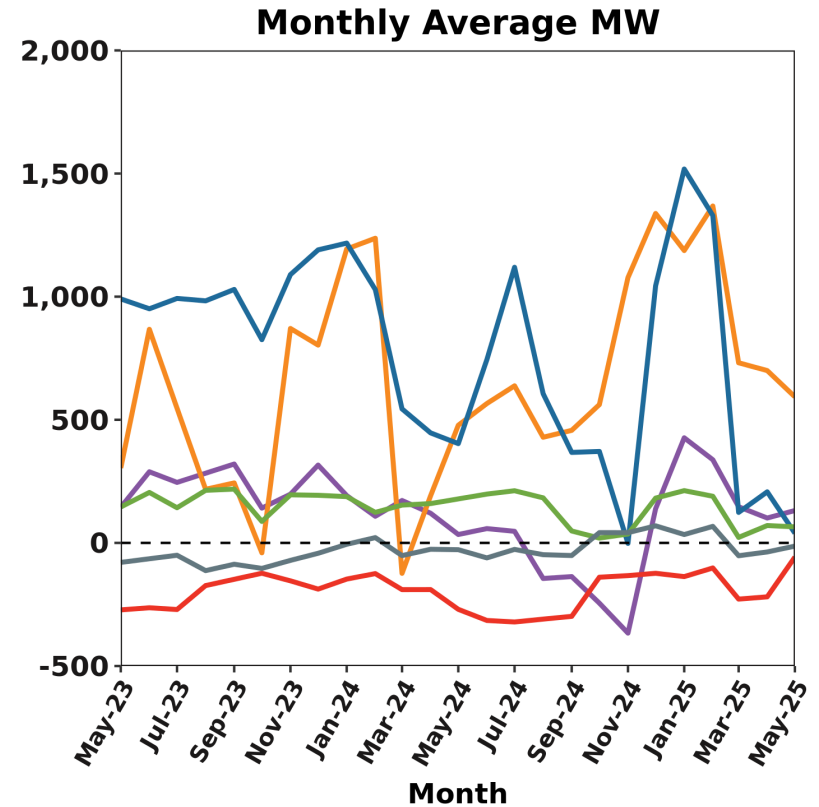
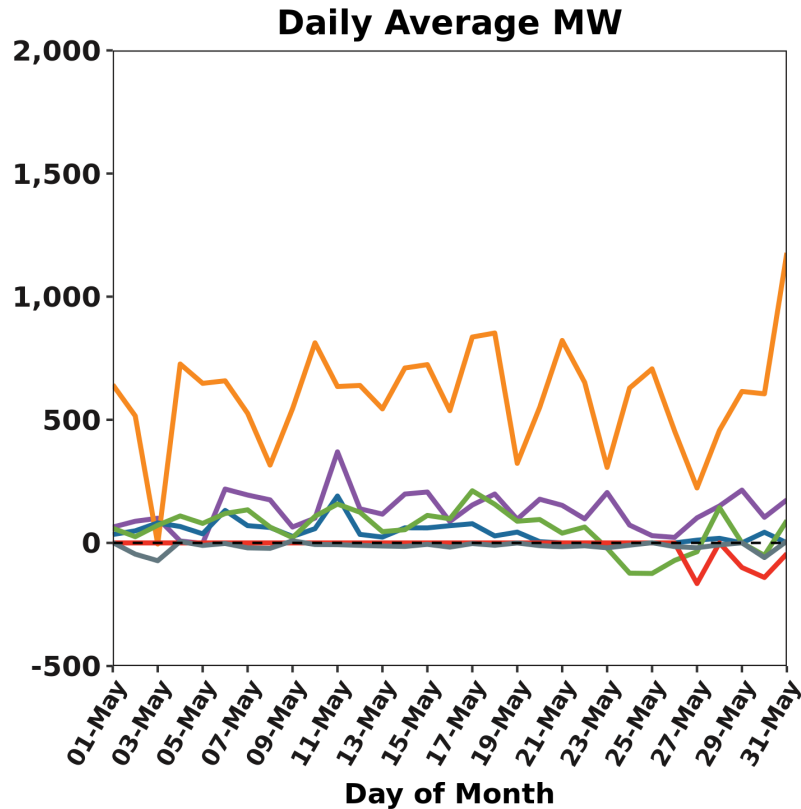


Export Import Net Tie

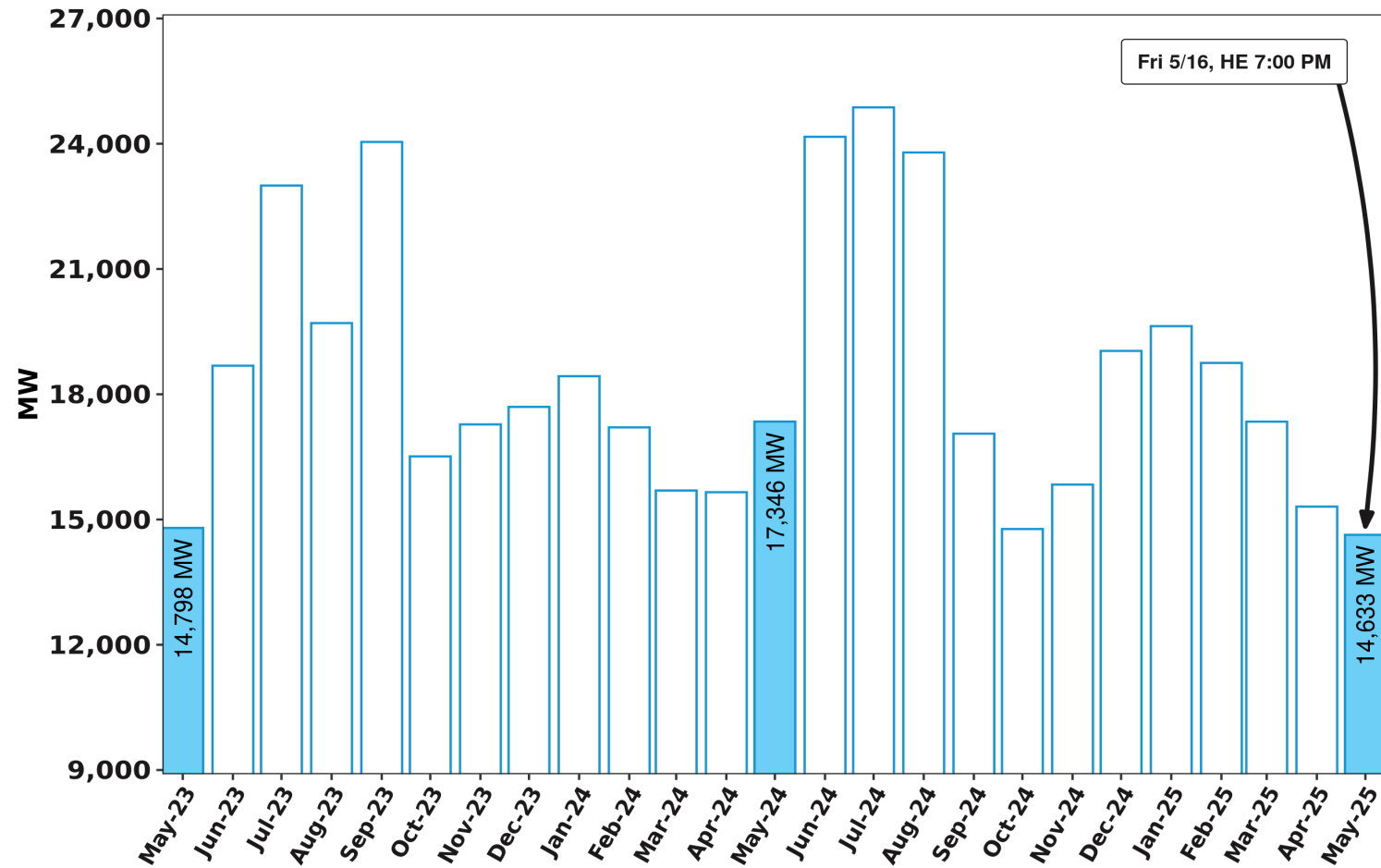
Export Import Net Tie

Net Interchange is the net of Participant scheduled imports (+) and exports (-). Inadvertent flows are not reflected

# RT Net Interchange by External Interface

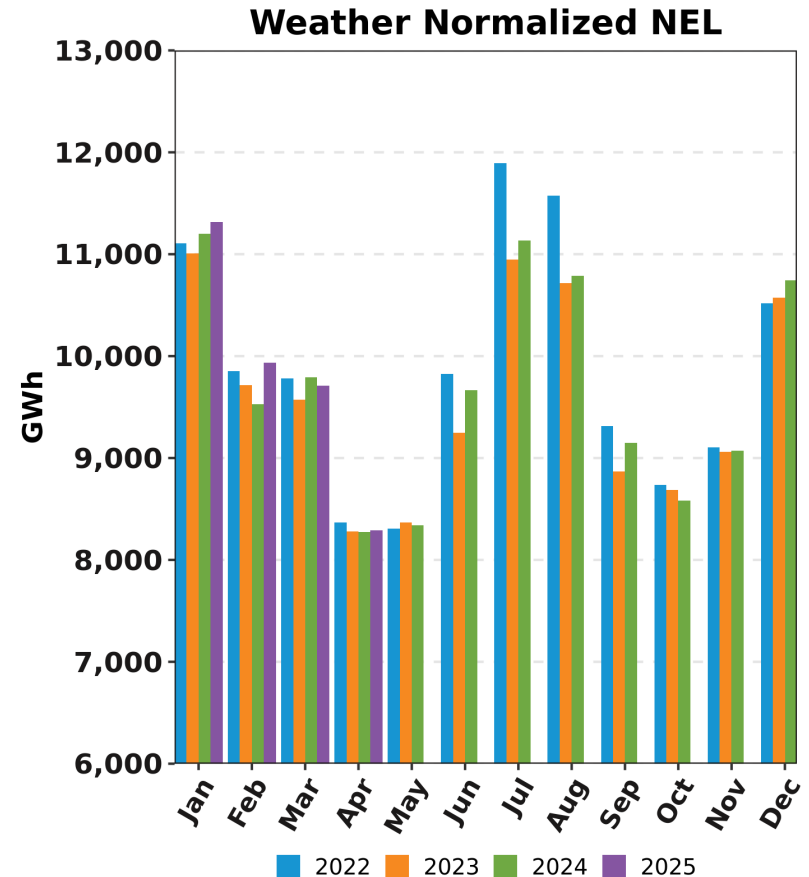
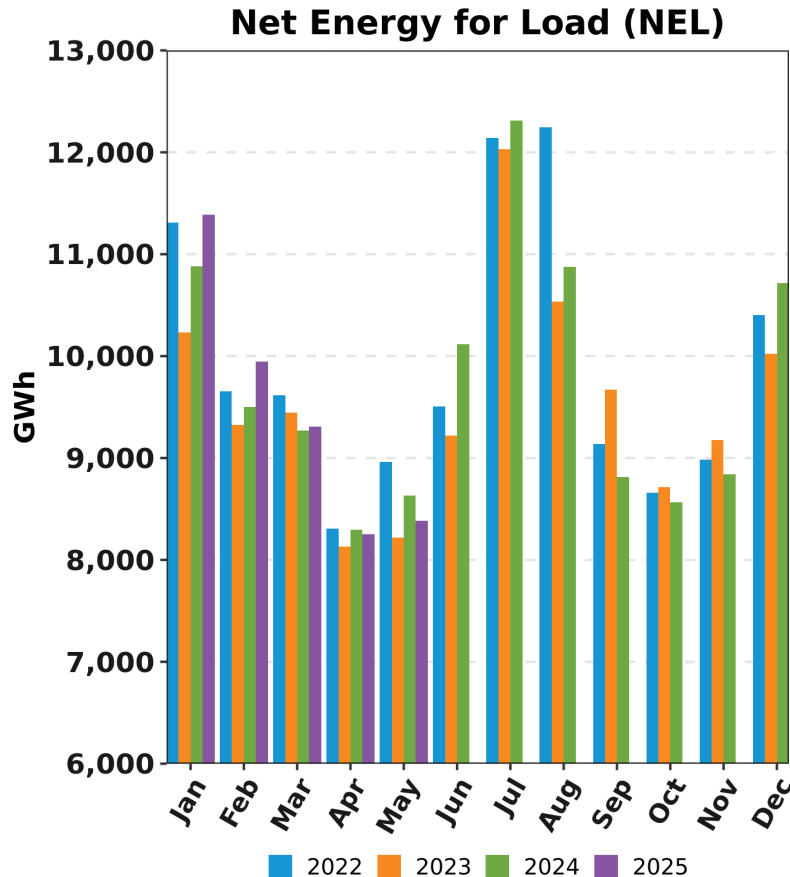


# RQM System Peak Load MW by Month



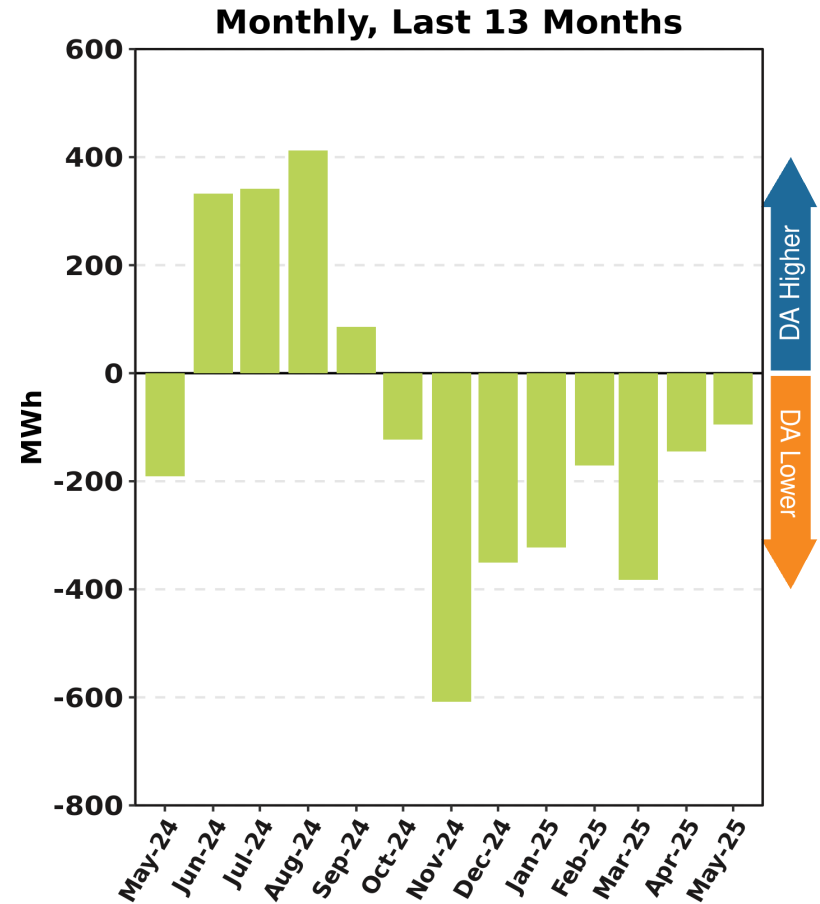
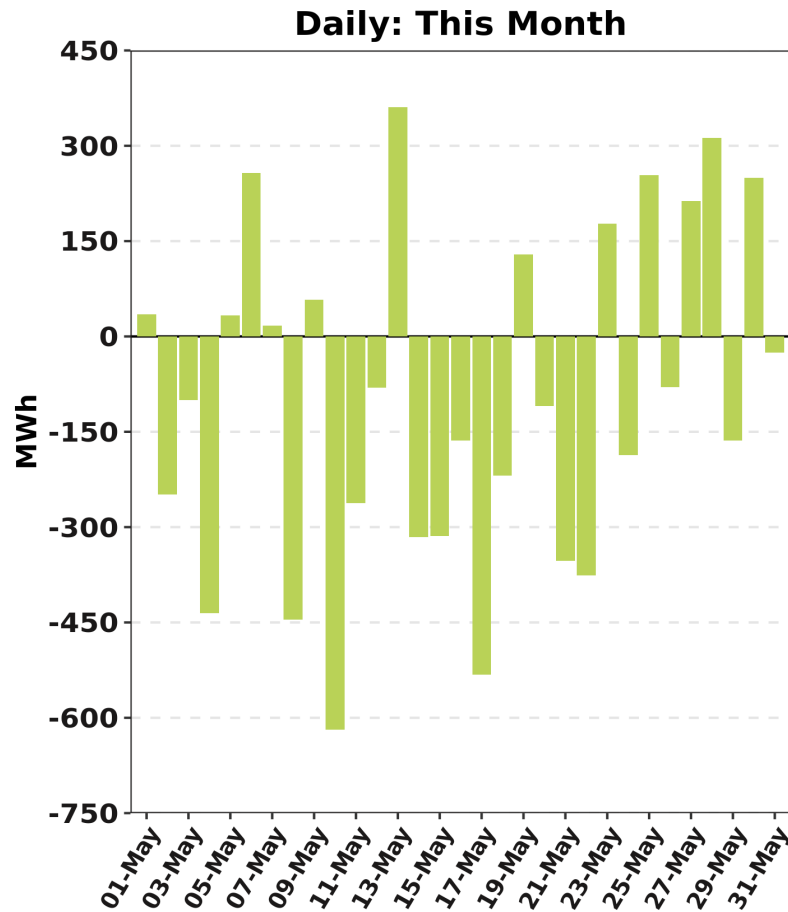
Shaded columns highlight current month and the same month over the prior two years

# Monthly Recorded Net Energy for Load (NEL) and Weather Normalized NEL



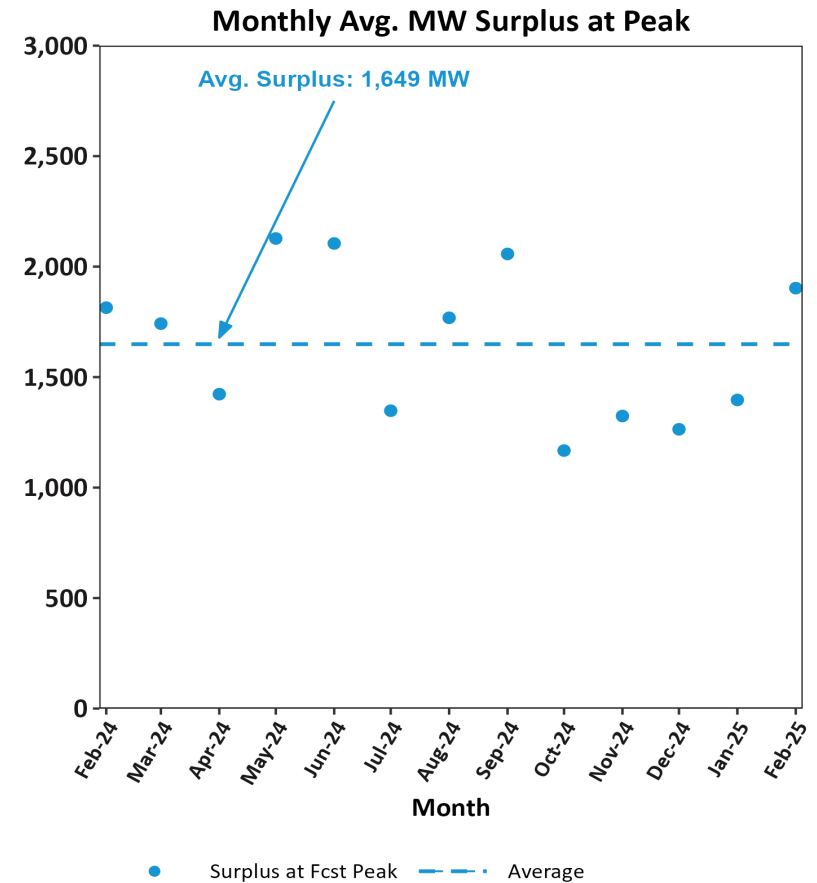
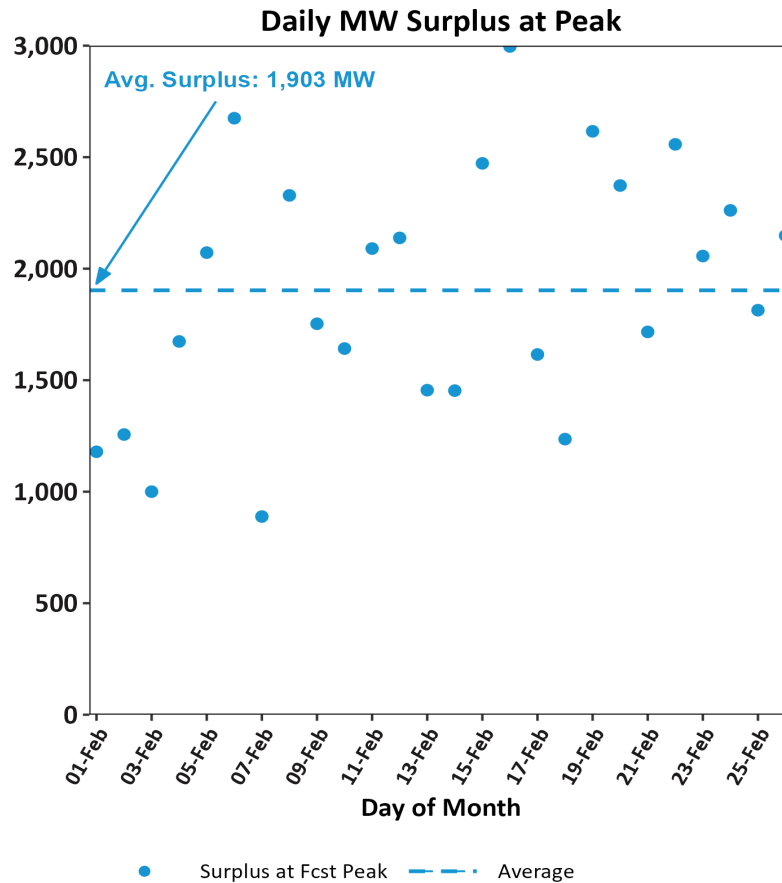
NEPOOL NEL is the total net revenue quality metered energy required to serve load and is analogous to 'RT system load.' NEL is calculated as: Generation + Demand Response Resource output - pumping load + net interchange where imports are positively signed. Current month's data may be preliminary. Weather normalized NEL is typically reported on a one-month lag.

# DA Cleared Physical Energy Difference from RT System Load at Forecasted Peak Hour



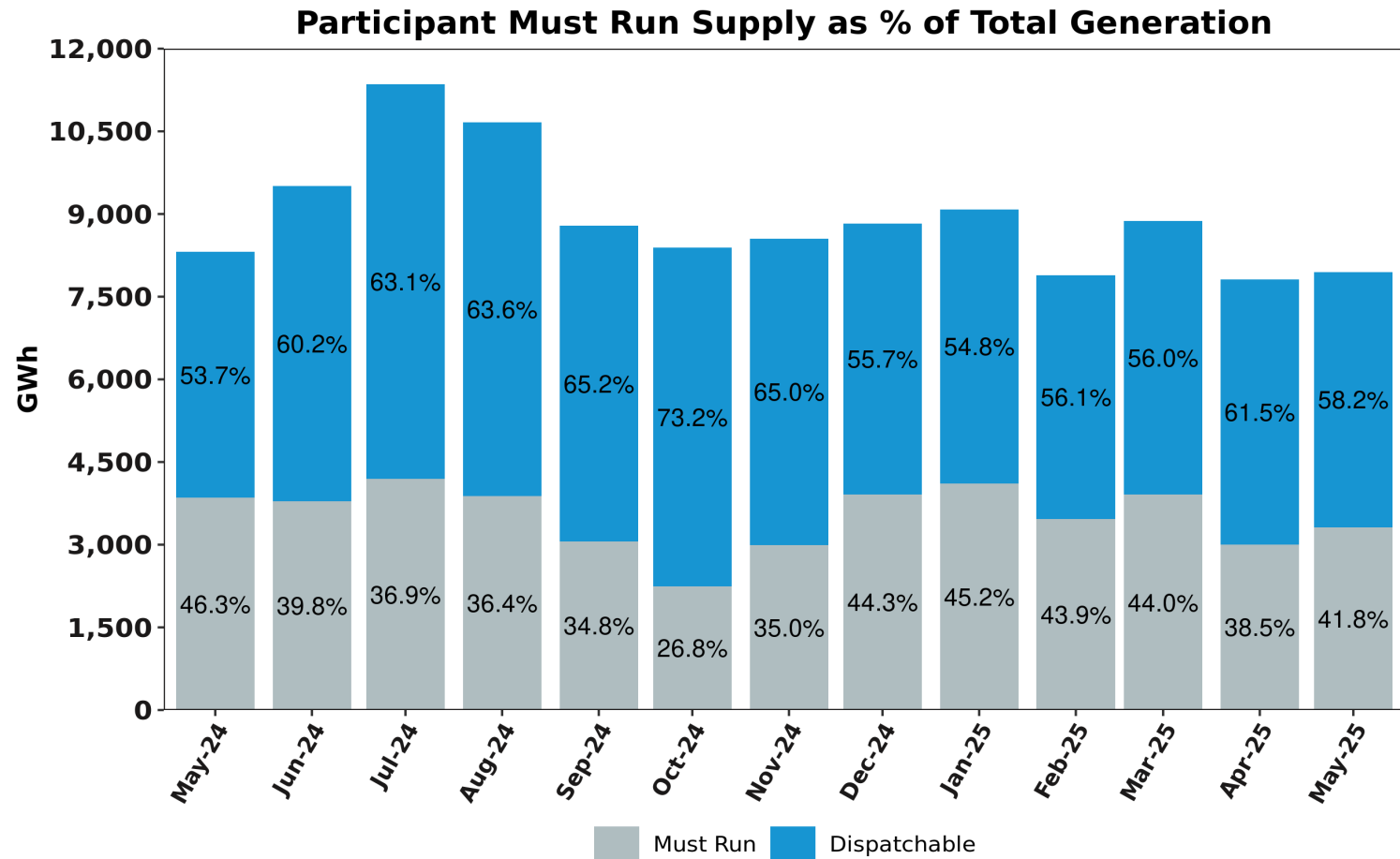
Negative values indicate DA Cleared Physical Energy value below its RT counterpart. EIR MW are not included in DA Physical Energy.

# Native Capacity Surplus\* Cleared in the DA Market Relative to Forecasted Peak-Hour Requirements

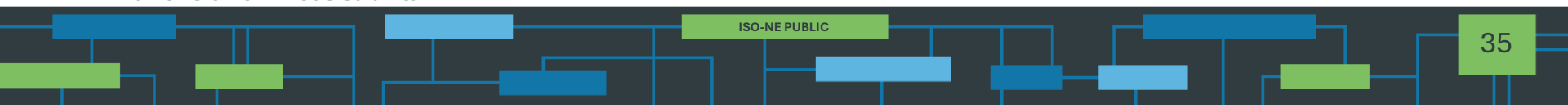


\*DA capacity surplus includes DA offered ECO max above cleared amounts for cleared resources + offered reserves from available non-cleared resources + DA scheduled net interchange, reflected for the peak hour. It does not reflect additional available imports up to the TTC, if any.

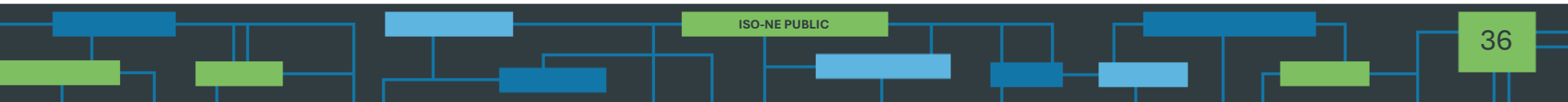
# RT Generation Output Offered as Must Run vs Dispatchable



Includes generation and DRR. Must Run (non-dispatchable) category reflects full output of settlement-only generation (SOG) as well as must run offers from modeled units



# MARKET PRICING





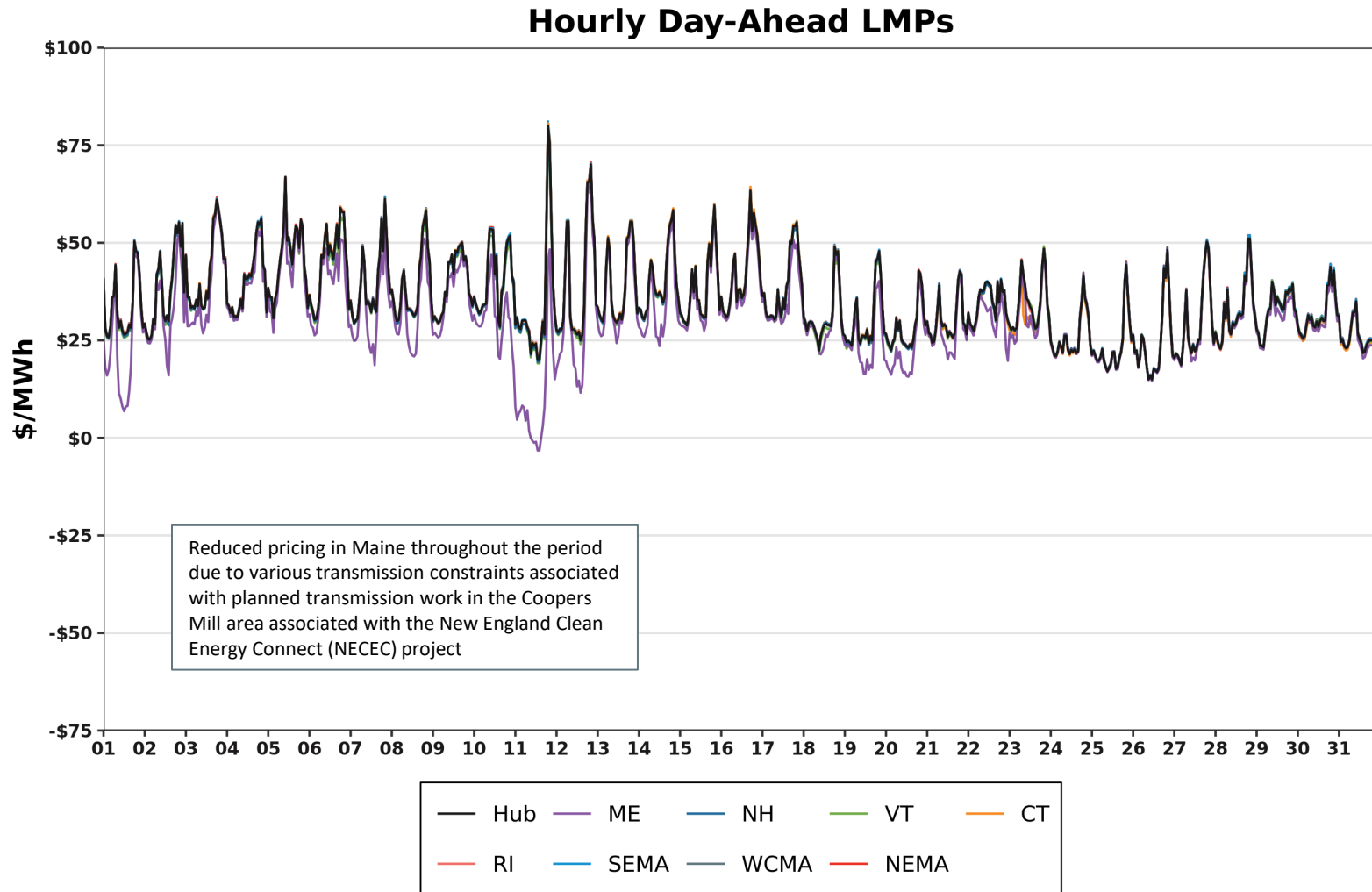
# DA vs. RT LMPs (\$/MWh)

Arithmetic Average

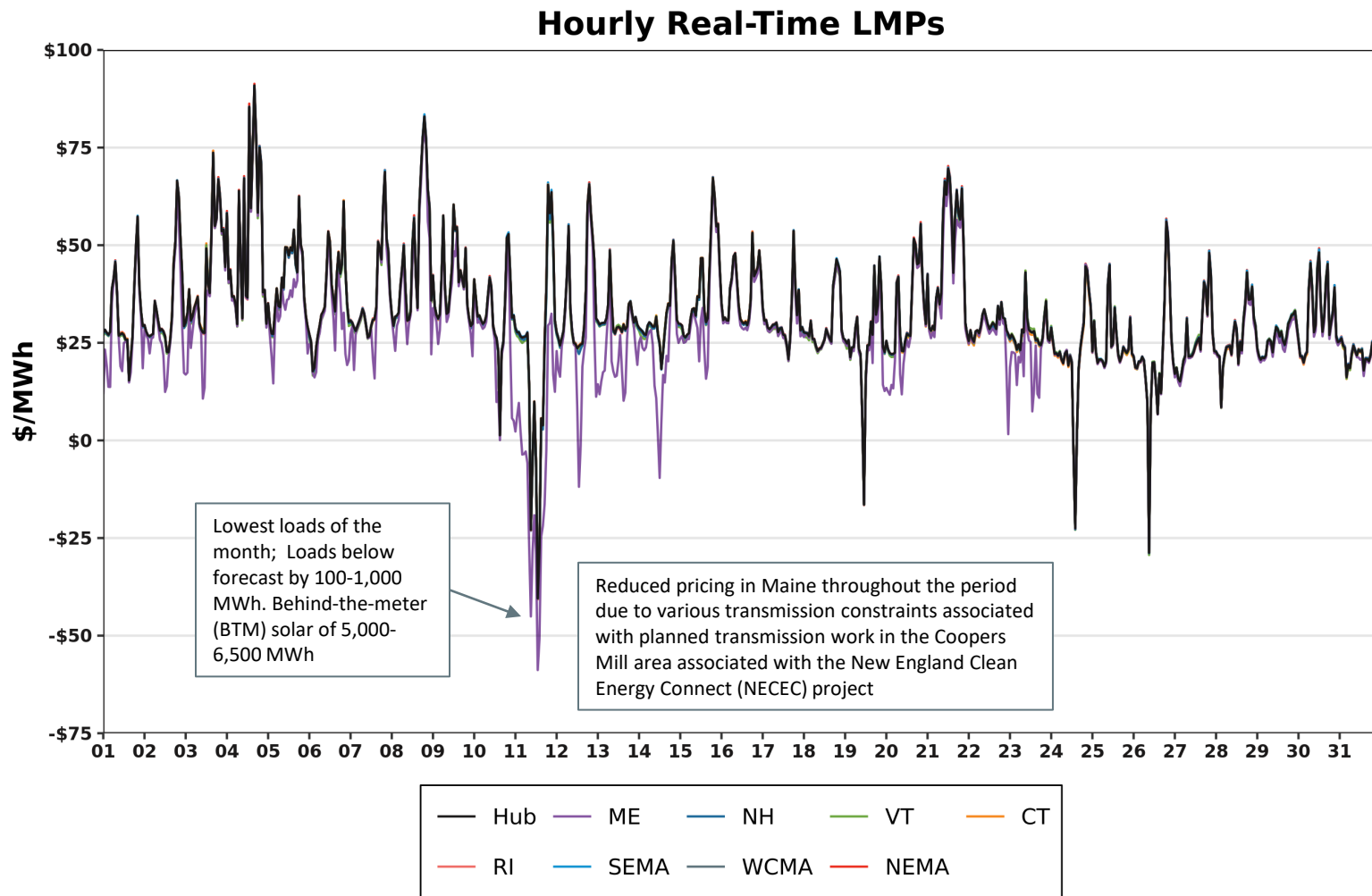
Year 2023	Hub	ME	NH	VT	CT	RI	SEMA	WCMA	NEMA
Day-Ahead	\$37.04	\$36.59	\$37.22	\$36.78	\$36.25	\$36.89	\$37.34	\$37.07	\$37.35
Real-Time	\$35.91	\$35.36	\$36.05	\$35.55	\$35.26	\$35.71	\$36.17	\$35.92	\$36.21
RT Delta %	-3.05%	-3.36%	-3.14%	-3.34%	-2.73%	-3.20%	-3.13%	-3.10%	-3.05%
Year 2024	Hub	ME	NH	VT	CT	RI	SEMA	WCMA	NEMA
Day-Ahead	\$41.35	\$41.07	\$41.72	\$41.11	\$40.17	\$41.28	\$41.70	\$41.37	\$41.91
Real-Time	\$39.37	\$38.79	\$39.65	\$39.23	\$38.46	\$39.17	\$39.62	\$39.37	\$39.77
RT Delta %	-3.05%	-3.36%	-3.14%	-3.34%	-2.73%	-3.20%	-3.13%	-3.10%	-3.05%

May-24	Hub	ME	NH	VT	CT	RI	SEMA	WCMA	NEMA
Day-Ahead	\$27.23	\$26.56	\$27.30	\$27.22	\$26.66	\$27.00	\$27.36	\$27.23	\$27.47
Real-Time	\$26.25	\$25.32	\$26.33	\$26.22	\$25.78	\$25.99	\$26.35	\$26.23	\$26.48
RT Delta %	-3.60%	-4.67%	-3.55%	-3.67%	-3.30%	-3.74%	-3.69%	-3.67%	-3.60%
May-25	Hub	ME	NH	VT	CT	RI	SEMA	WCMA	NEMA
Day-Ahead	\$35.21	\$31.12	\$34.94	\$34.71	\$34.90	\$34.96	\$35.39	\$35.21	\$35.46
Real-Time	\$32.77	\$28.78	\$32.54	\$32.33	\$32.45	\$32.47	\$32.85	\$32.76	\$32.97
RT Delta %	-6.93%	-7.52%	-6.87%	-6.86%	-7.02%	-7.12%	-7.18%	-6.96%	-7.02%
Annual Diff.	Hub	ME	NH	VT	CT	RI	SEMA	WCMA	NEMA
Yr over Yr DA	29.31%	17.17%	27.99%	27.52%	30.91%	29.48%	29.35%	29.31%	29.09%
Yr over Yr RT	24.84%	13.67%	23.59%	23.30%	25.87%	24.93%	24.67%	24.90%	24.51%

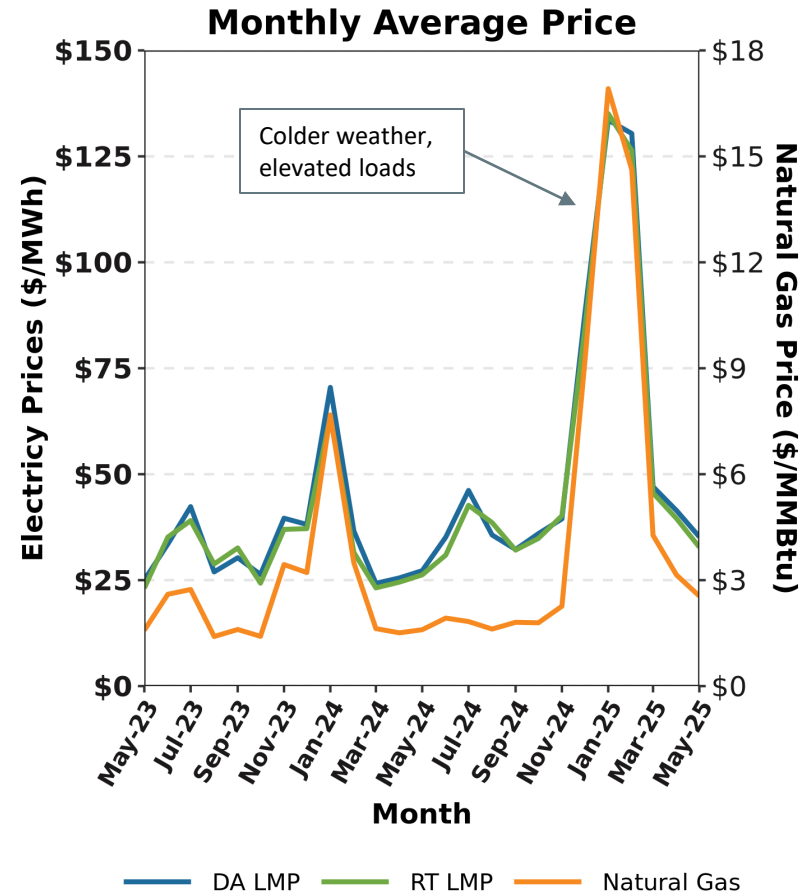
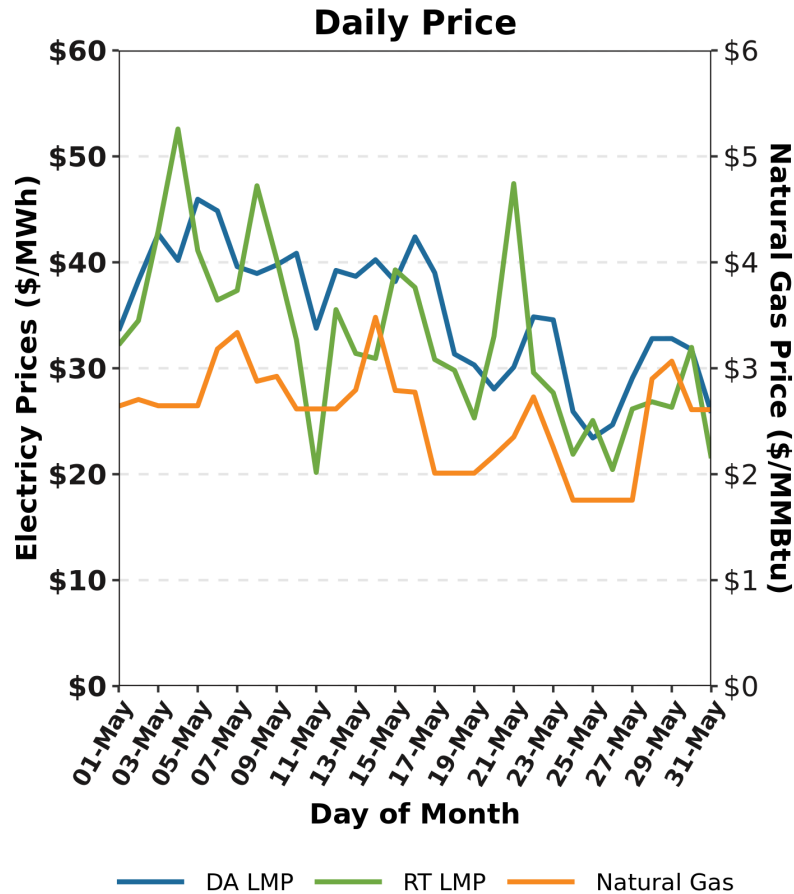
# Hourly DA LMPs, May 1-31, 2025



# Hourly RT LMPs, May 1-31, 2025



# Wholesale Electricity vs Natural Gas Price by Month

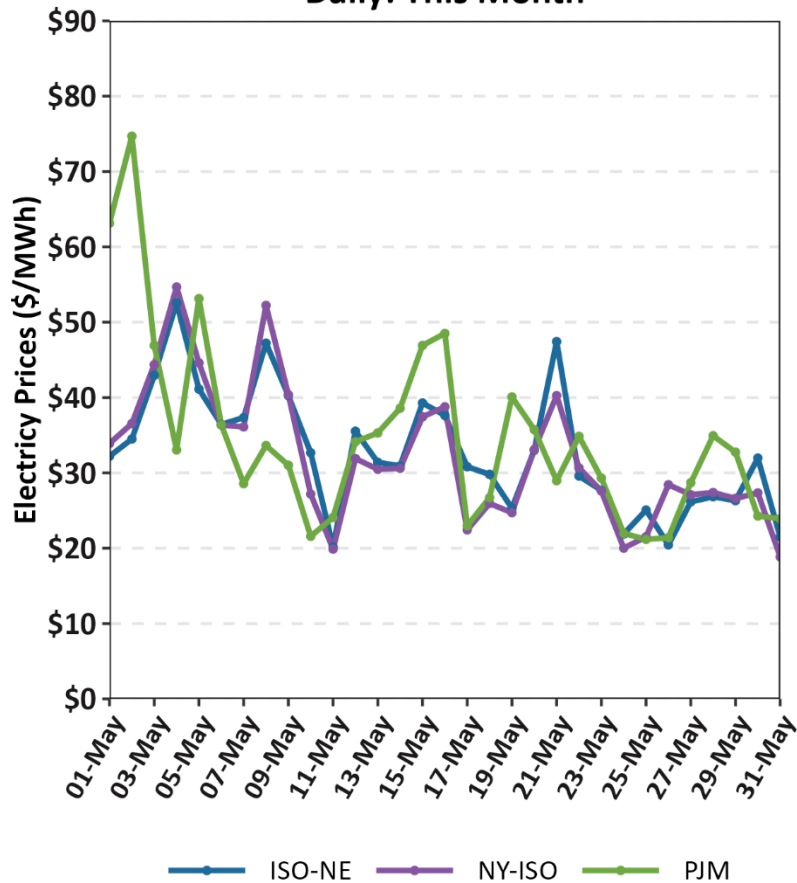


Gas price is average of Massachusetts delivery points

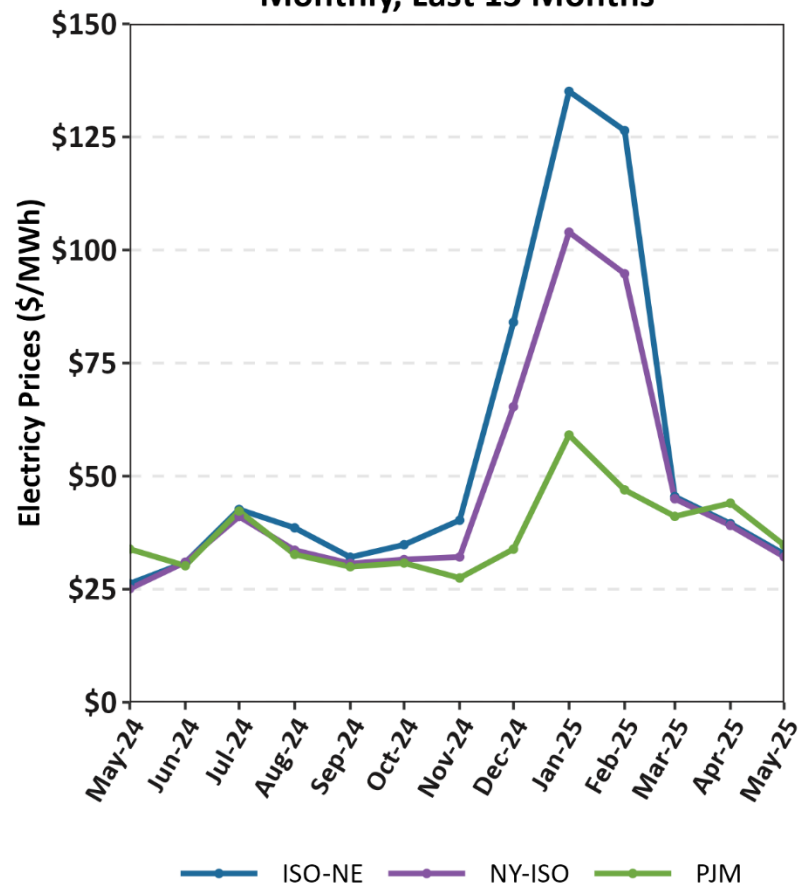
Underlying natural gas data furnished by:  
**ICE** Global markets in clear view

# New England, NY, and PJM Hourly Average RT Prices by Month

Daily: This Month

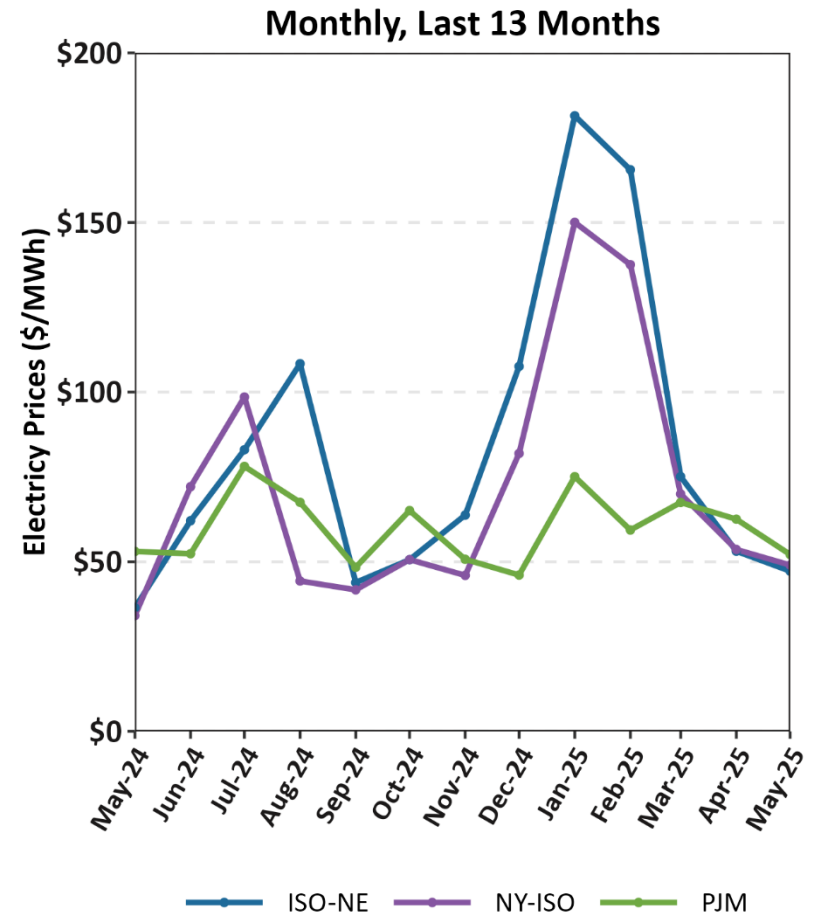
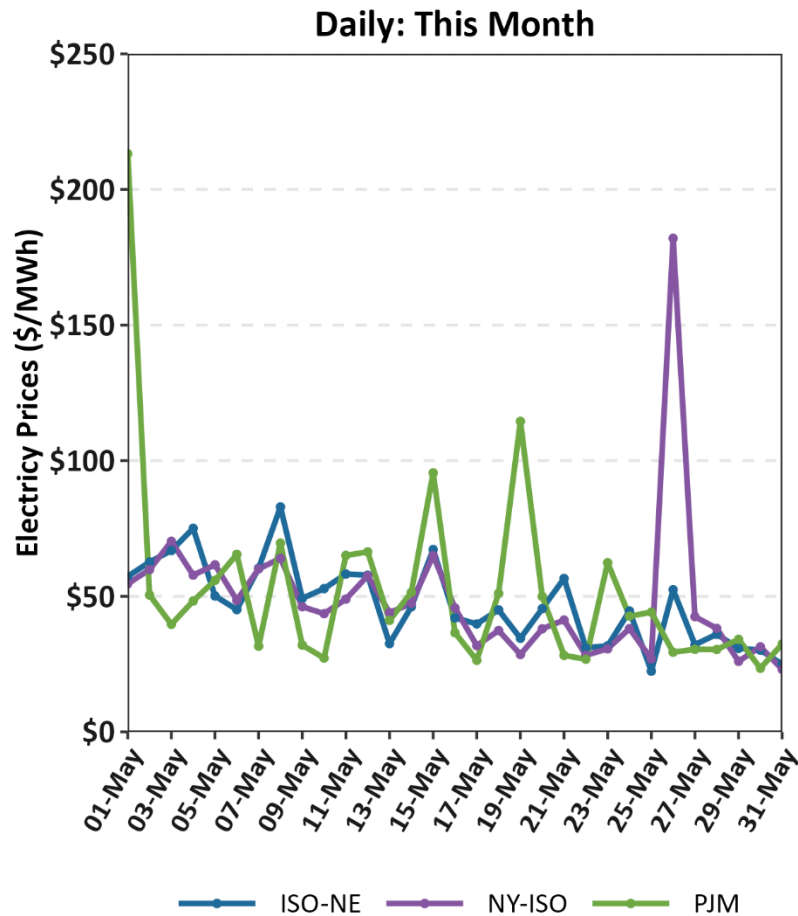


Monthly, Last 13 Months

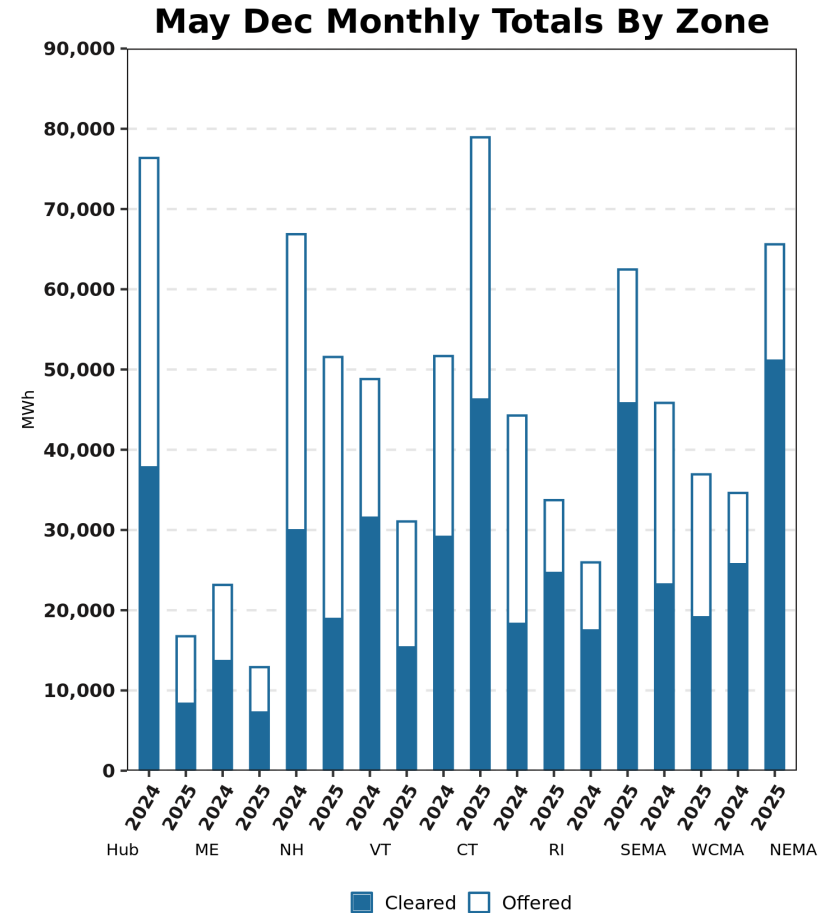
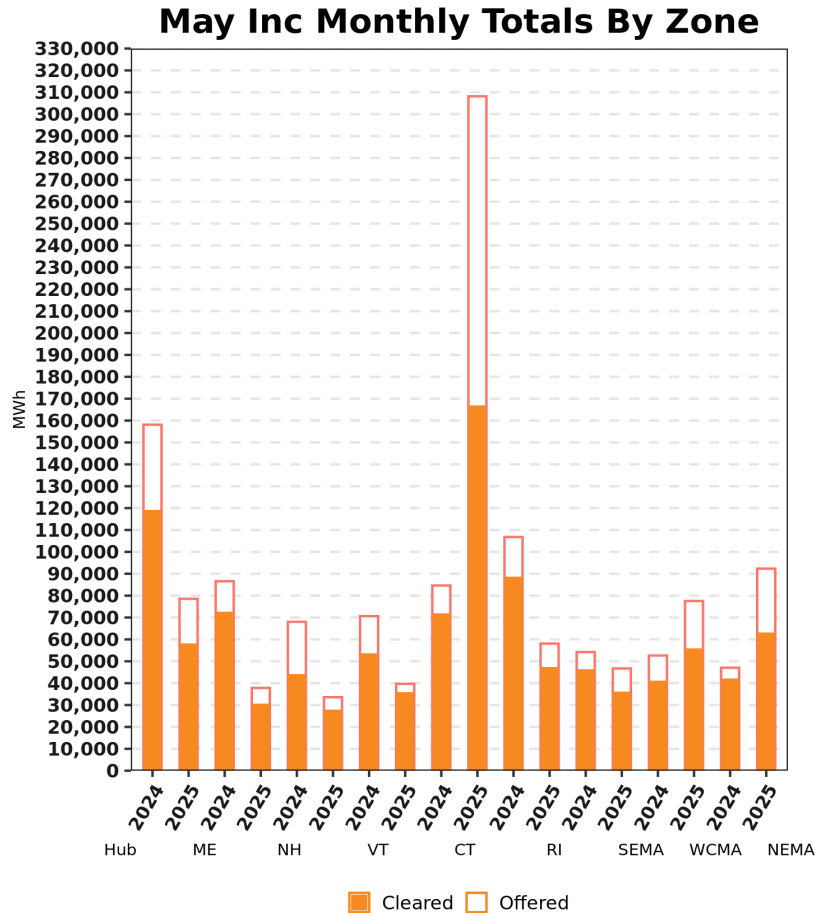


Hourly average prices are shown

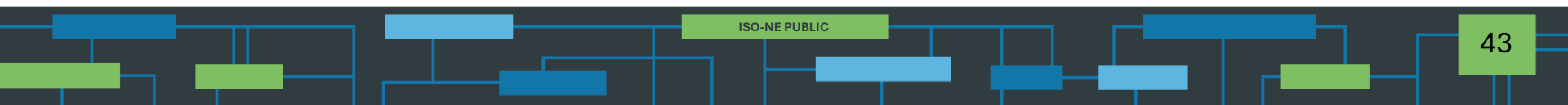
# New England, NY, and PJM RT Pricing during New England's Forecasted Daily Peak Hours



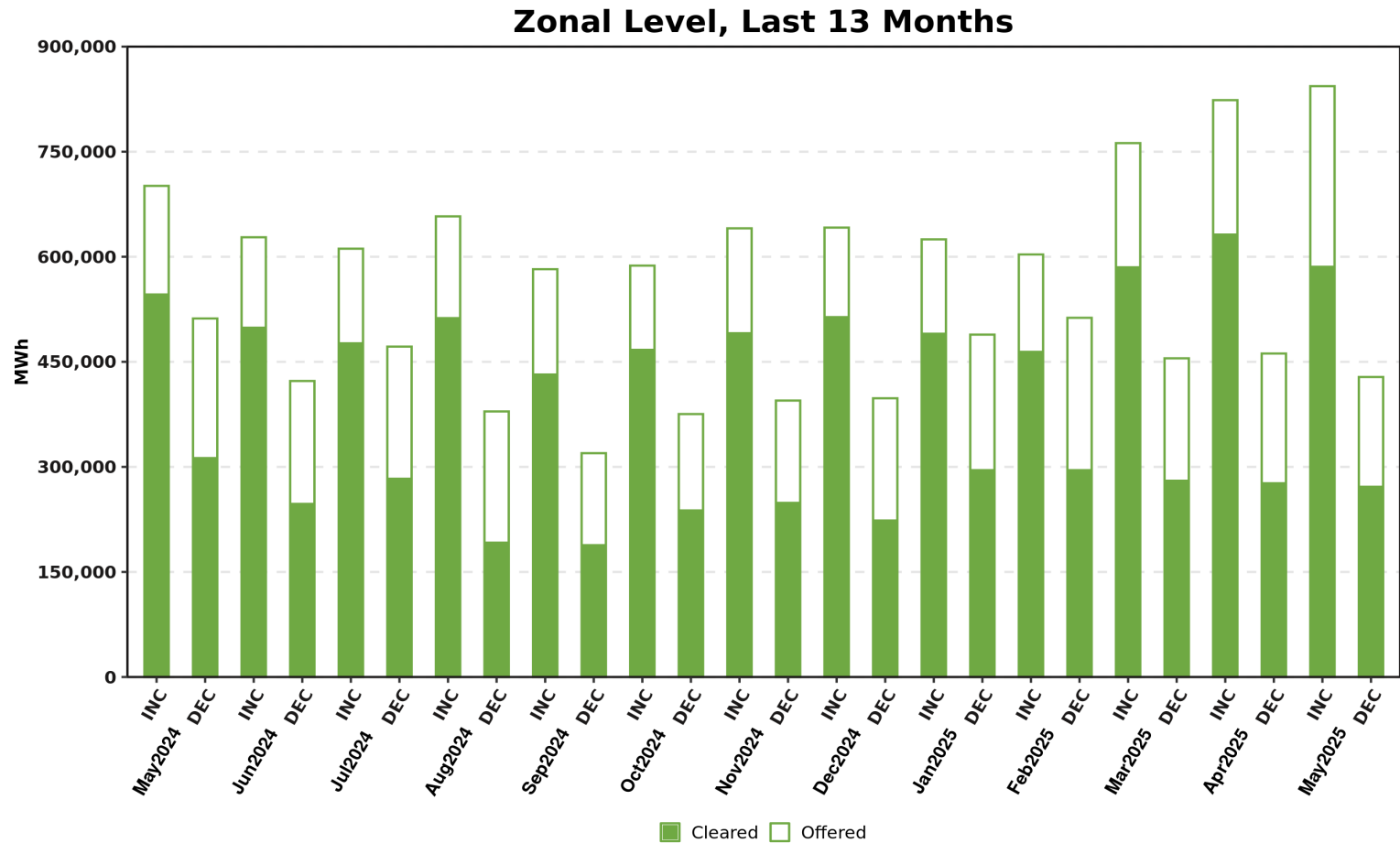
# Zonal Increment Offers and Decrement Bid Amounts



Includes nodal activity within the zone; excludes external nodes



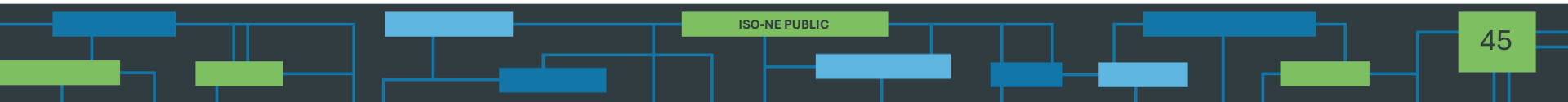
# Total Increment Offers and Decrement Bids



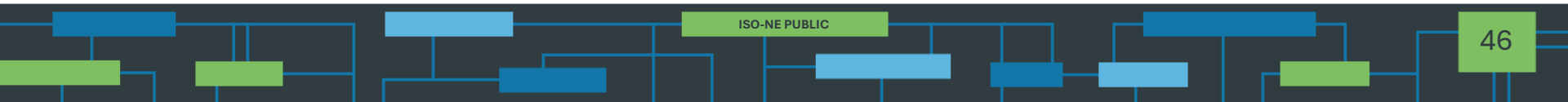
Includes nodal activity within the zone; excludes external nodes



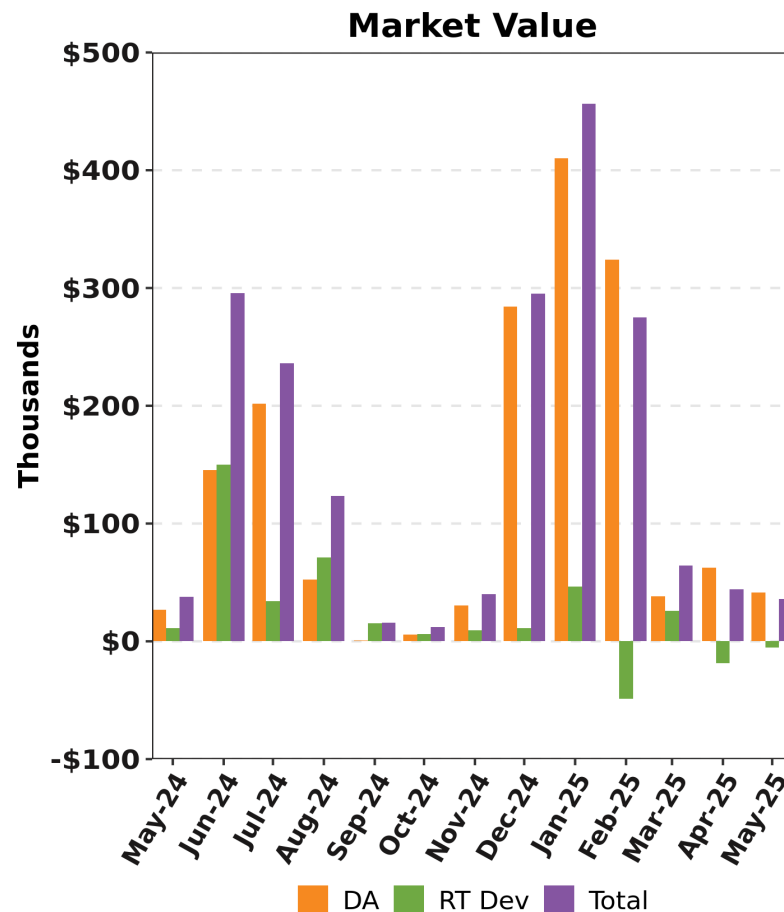
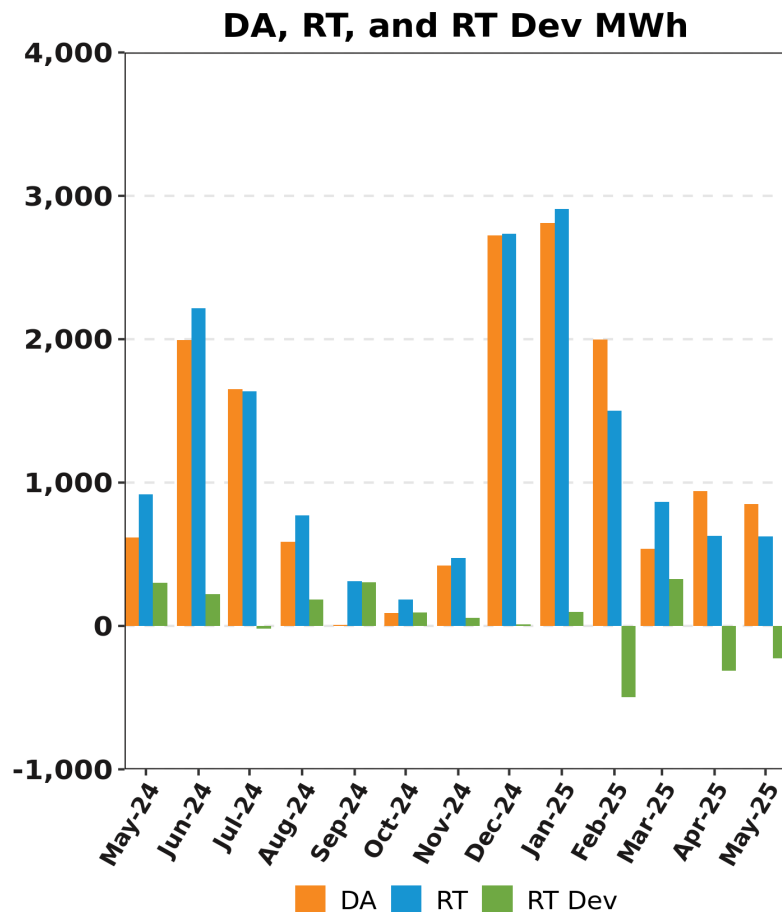
# BACK-UP DETAIL



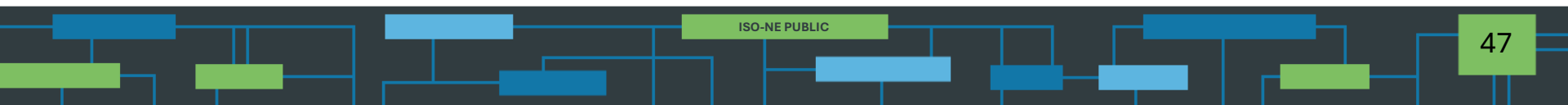
# DEMAND RESPONSE



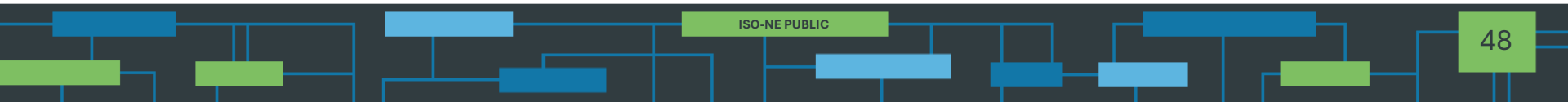
# Price Responsive Demand (PRD) Energy Market Activity by Month



DA and RT (deviation) MWh are settlement obligations and reflect appropriate gross-ups for distribution losses.



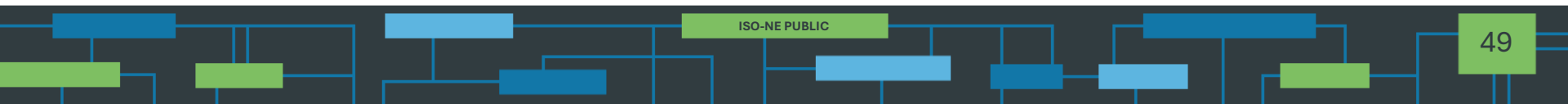
# NEW GENERATION



# New Generation Update

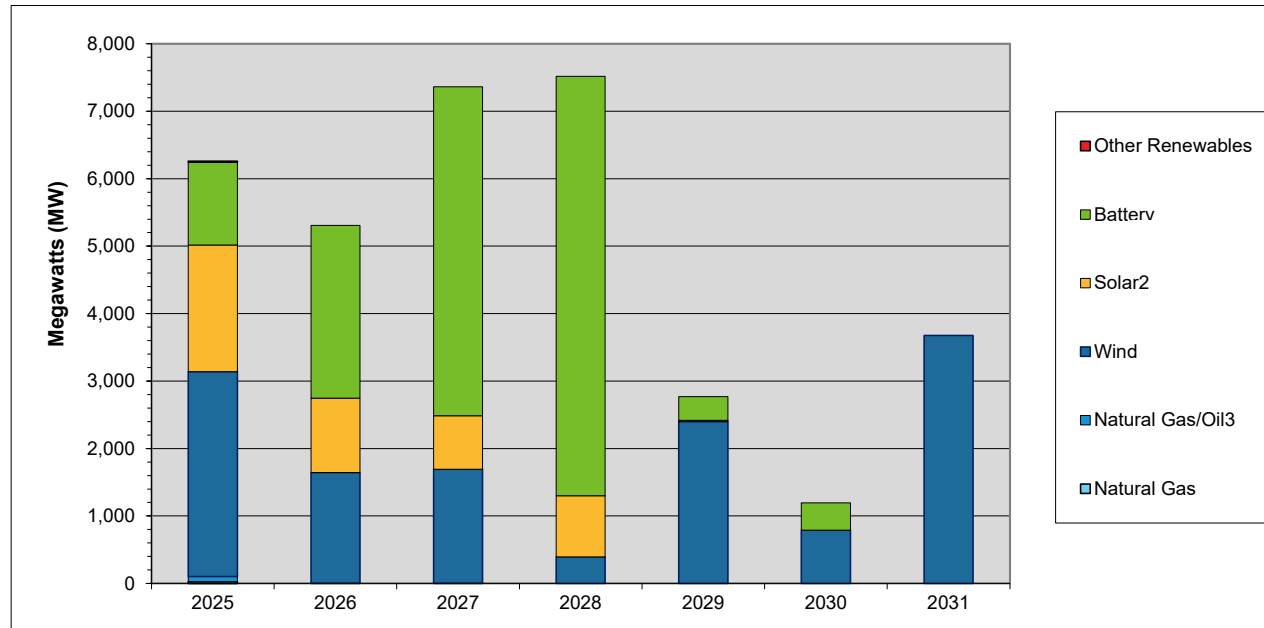
## *Based on Queue as of 06/01/25*

- No new projects were added to the interconnection queue since the last update
  - Any new ISO Interconnection Requests seeking to successfully enter the Order No. 2023 Transitional Cluster Study process were required to be submitted by June 13, 2024 at 23:59
    - Thereafter, the creation of new ISO Interconnection Requests is now suspended until the next Cluster Entry Window opens
- In total, 375 generation projects are currently being tracked by the ISO, totaling approximately 37,684 MW



# Projected Annual Capacity Additions

## *By Supply Fuel Type*



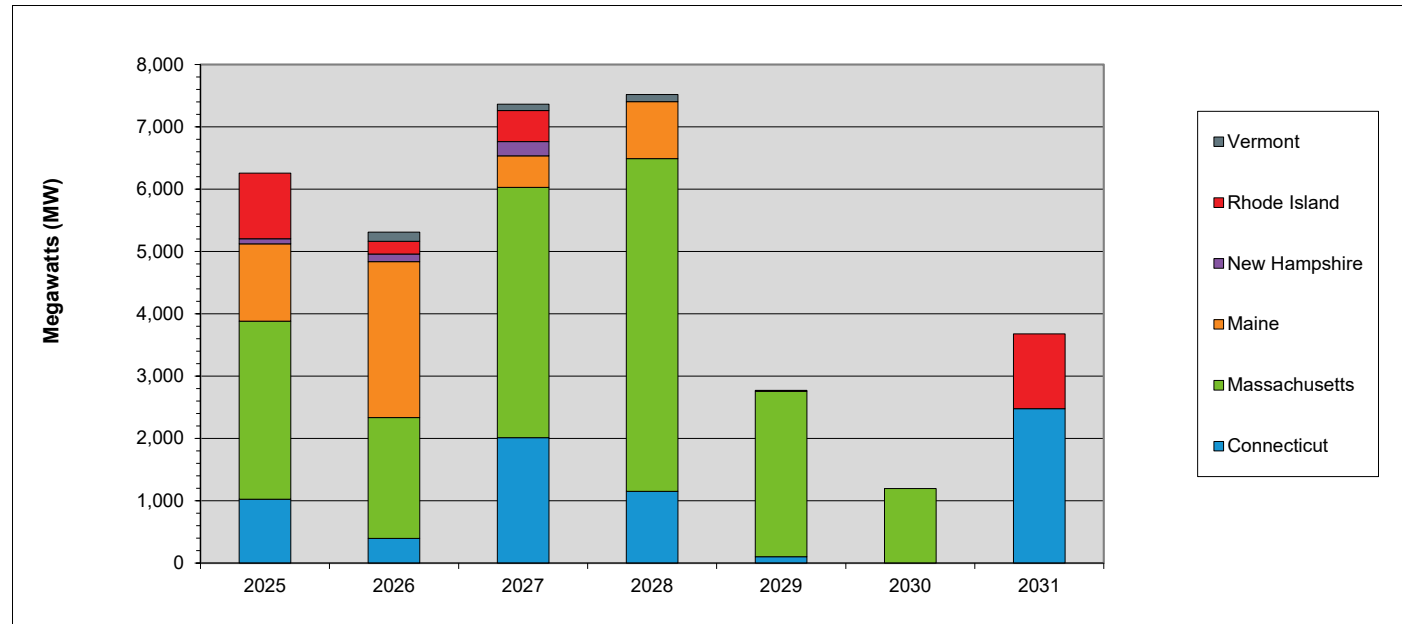
	2025	2026	2027	2028	2029	2030	2031	Total MW	% of Total <sup>1</sup>
Other Renewables	12	0	0	0	0	0	0	12	0.0
Battery	1,228	2,561	4,874	6,220	353	404	0	15,640	45.9
Solar <sup>2</sup>	1,879	1,103	796	905	17	0	0	4,700	13.8
Wind	3,038	1,640	1,687	394	2,400	791	3,675	13,625	40.0
Natural Gas/Oil <sup>3</sup>	73	0	0	0	0	0	0	73	0.2
Natural Gas	26	4	4	0	0	0	0	34	0.1
<b>Totals</b>	<b>6,256</b>	<b>5,308</b>	<b>7,361</b>	<b>7,519</b>	<b>2,770</b>	<b>1,195</b>	<b>3,675</b>	<b>34,084</b>	<b>100.0</b>

<sup>1</sup> Sum may not equal 100% due to rounding

<sup>2</sup> This category includes both solar-only, and co-located solar and battery projects

<sup>3</sup> The projects in this category are dual fuel, with either gas or oil as the primary fuel

# Projected Annual Generator Capacity Additions By State



	2025	2026	2027	2028	2029	2030	2031	Total MW	% of Total <sup>1</sup>
Vermont	0	144	101	115	0	0	0	360	1.1
Rhode Island	1,052	205	499	0	0	0	1,200	2,956	8.7
New Hampshire	82	122	226	0	0	0	0	430	1.3
Maine	1,240	2,501	507	916	17	0	0	5,181	15.2
Massachusetts	2,859	1,942	4,017	5,336	2,650	1,195	0	17,999	52.8
Connecticut	1,023	394	2,011	1,152	103	0	2,475	7,158	21.0
Totals	6,256	5,308	7,361	7,519	2,770	1,195	3,675	34,084	100.0

<sup>1</sup> Sum may not equal 100% due to rounding

# New Generation Projection

## *By Fuel Type*

Unit Type	Total		Green		Yellow	
	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)
Biomass/Wood Waste	0	0	0	0	0	0
Battery Storage	117	15,640	2	425	115	15,215
Fuel Cell	2	12	0	0	2	12
Hydro	0	0	0	0	0	0
Natural Gas	5	34	0	0	5	34
Natural Gas/Oil	1	73	0	0	1	73
Nuclear	0	0	0	0	0	0
Solar	224	4,700	15	241	209	4,459
Wind	26	17,225	3	985	23	16,240
Total	375	37,684	20	1,651	355	36,033

- Projects in the Natural Gas/Oil category may have either gas or oil as the primary fuel
- Green denotes projects with a high probability of going into service within the next 12 months
- Yellow denotes projects with a lower probability of going into service or new applications



# New Generation Projection

## *By Operating Type*

Operating Type	Total		Green		Yellow	
	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)
Baseload	4	25	0	0	4	25
Intermediate	1	73	0	0	1	73
Peaker	344	20,361	17	666	327	19,695
Wind Turbine	26	17,225	3	985	23	16,240
Total	375	37,684	20	1,651	355	36,033

- Green denotes projects with a high probability of going into service within the next 12 months
- Yellow denotes projects with a lower probability of going into service or new applications

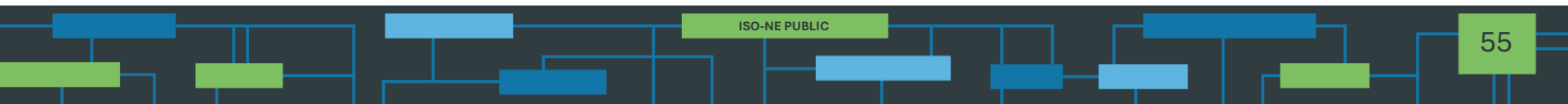
# New Generation Projection

## *By Operating Type and Fuel Type*

Unit Type	Total		Baseload		Intermediate		Peaker		Wind Turbine	
	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)
Biomass/Wood Waste	0	0	0	0	0	0	0	0	0	0
Battery Storage	117	15,640	0	0	0	0	117	15,640	0	0
Fuel Cell	2	12	2	12	0	0	0	0	0	0
Hydro	0	0	0	0	0	0	0	0	0	0
Natural Gas	5	34	2	13	0	0	3	21	0	0
Natural Gas/Oil	1	73	0	0	1	73	0	0	0	0
Nuclear	0	0	0	0	0	0	0	0	0	0
Solar	224	4,700	0	0	0	0	224	4,700	0	0
Wind	26	17,225	0	0	0	0	0	0	26	17,225
Total	375	37,684	4	25	1	73	344	20,361	26	17,225

- Projects in the Natural Gas/Oil category may have either gas or oil as the primary fuel

# FORWARD CAPACITY MARKET



# Capacity Supply Obligation FCA 15

Resource Type	Resource Type	FCA	ARA 1		ARA 2		ARA 3	
		CSO	CSO	Change	CSO	Change	CSO	Change
		MW	MW	MW	MW	MW	MW	MW
Demand	Active Demand	677.673	673.401	-4.272	579.692	-93.709	461.416	-118.276
	Passive Demand	3,212.865	3,211.403	-1.462	3,134.652	-76.751	3,113.332	-21.32
Demand Total		3,890.538	3,884.804	-5.734	3,714.344	-170.460	3,574.748	-139.596
Generator	Non-Intermittent	28,154.203	27,714.778	-439.425	27,081.653	-633.125	27,132.413	50.76
	Intermittent	1,089.265	1,073.794	-15.471	1,056.601	-17.193	865.694	-190.907
Generator Total		29,243.468	28,788.572	-454.896	28,138.254	-650.318	27,998.107	-140.147
Import Total		1,487.059	1297.132	-189.927	1,249.545	-47.587	1,193.583	-55.962
Grand Total*		34,621.065	33,970.508	-650.557	33,102.143	-868.365	32,766.438	-335.705
Net ICR (NICR)		33,270	31,775	-1,495	31,545	-230	31,380	-165

\* Grand Total reflects both CSO Grand Total and the net total of the Change Column

Note: A resource's CSO may change for a variety of reasons outside ISO-NE administered trading windows. Reasons for CSO changes beyond reconfiguration auctions may include terminations or recent declaration of commercial operation. Details of the changes that occurred due to non-annual event purposes are contained in the 2024-2028 CCP Month Capacity Supply Obligation Changes report on the ISO New England website.

# Capacity Supply Obligation FCA 16

Resource Type	Resource Type	FCA	ARA 1		ARA 2		ARA 3	
		CSO	CSO	Change	CSO	Change	CSO	Change
		MW	MW	MW	MW	MW	MW	MW
Demand	Active Demand	765.35	589.882	-175.468	504.466	-85.416	437.780	-66.686
	Passive Demand	2,557.256	2,579.120	21.864	2,574.367	-4.753	2,568.703	-5.664
Demand Total		3,322.606	3,169.002	-153.604	3,078.833	-90.169	3,006.483	-72.350
Generator	Non-Intermittent	26,805.003	26,643.379	-161.624	26,503.730	-139.649	26,049.059	-454.671
	Intermittent	1,178.933	1,146.783	-32.15	989.265	-157.518	912.376	-76.889
Generator Total		27,983.936	27,790.162	-193.774	27,492.995	-297.167	26,961.435	-531.560
Import Total		1,503.842	1,247.601	-256.241	1,244.601	-3.000	1,234.800	-9.801
Grand Total*		32,810.384	32,206.765	-603.619	31,816.429	-390.336	31,202.718	-613.711
Net ICR (NICR)		31,645	30,585	-1,060	30,775	190	30,300	-475

\* Grand Total reflects both CSO Grand Total and the net total of the Change Column

Note: A resource's CSO may change for a variety of reasons outside ISO-NE administered trading windows. Reasons for CSO changes beyond reconfiguration auctions may include terminations or recent declaration of commercial operation. Details of the changes that occurred due to non-annual event purposes are contained in the 2024-2028 CCP Month Capacity Supply Obligation Changes report on the ISO New England website.

# Capacity Supply Obligation FCA 17

Resource Type	Resource Type	FCA	ARA 1		ARA 2		ARA 3	
		CSO	CSO	Change	CSO	Change	CSO	Change
		MW	MW	MW	MW	MW	MW	MW
Demand	Active Demand	622.854	584.913	-37.941				
	Passive Demand	2,316.815	2,314.068	-2.747				
Demand Total		2,939.669	2,898.981	-40.688				
Generator	Non-Intermittent	26,507.420	26,715.489	208.069				
	Intermittent	1,356.084	1,286.589	-69.495				
Generator Total		27,863.504	28,002.078	138.574				
Import Total		566.998	564.079	-2.919				
Grand Total*		31,370.171	31,465.138	94.967				
Net ICR (NICR)		30,305	30,395	90.000				

\* Grand Total reflects both CSO Grand Total and the net total of the Change Column

Note: A resource's CSO may change for a variety of reasons outside ISO-NE administered trading windows. Reasons for CSO changes beyond reconfiguration auctions may include terminations or recent declaration of commercial operation. Details of the changes that occurred due to non-annual event purposes are contained in the 2024-2028 CCP Month Capacity Supply Obligation Changes report on the ISO New England website.

# Capacity Supply Obligation FCA 18

Resource Type	Resource Type	FCA	ARA 1		ARA 2		ARA 3	
		CSO	CSO	Change	CSO	Change	CSO	Change
		MW	MW	MW	MW	MW	MW	MW
Demand	Active Demand	543.580						
	Passive Demand	2,070.498						
Demand Total		2,614.078						
Generator	Non-Intermittent	27,026.635						
	Intermittent	1,450.872						
Generator Total		28,477.507						
Import Total		464.835						
Grand Total*		31,556.420						
Net ICR (NICR)		30,550						

\* Grand Total reflects both CSO Grand Total and the net total of the Change Column

Note: A resource's CSO may change for a variety of reasons outside ISO-NE administered trading windows. Reasons for CSO changes beyond reconfiguration auctions may include terminations or recent declaration of commercial operation. Details of the changes that occurred due to non-annual event purposes are contained in the 2024-2028 CCP Month Capacity Supply Obligation Changes report on the ISO New England website.

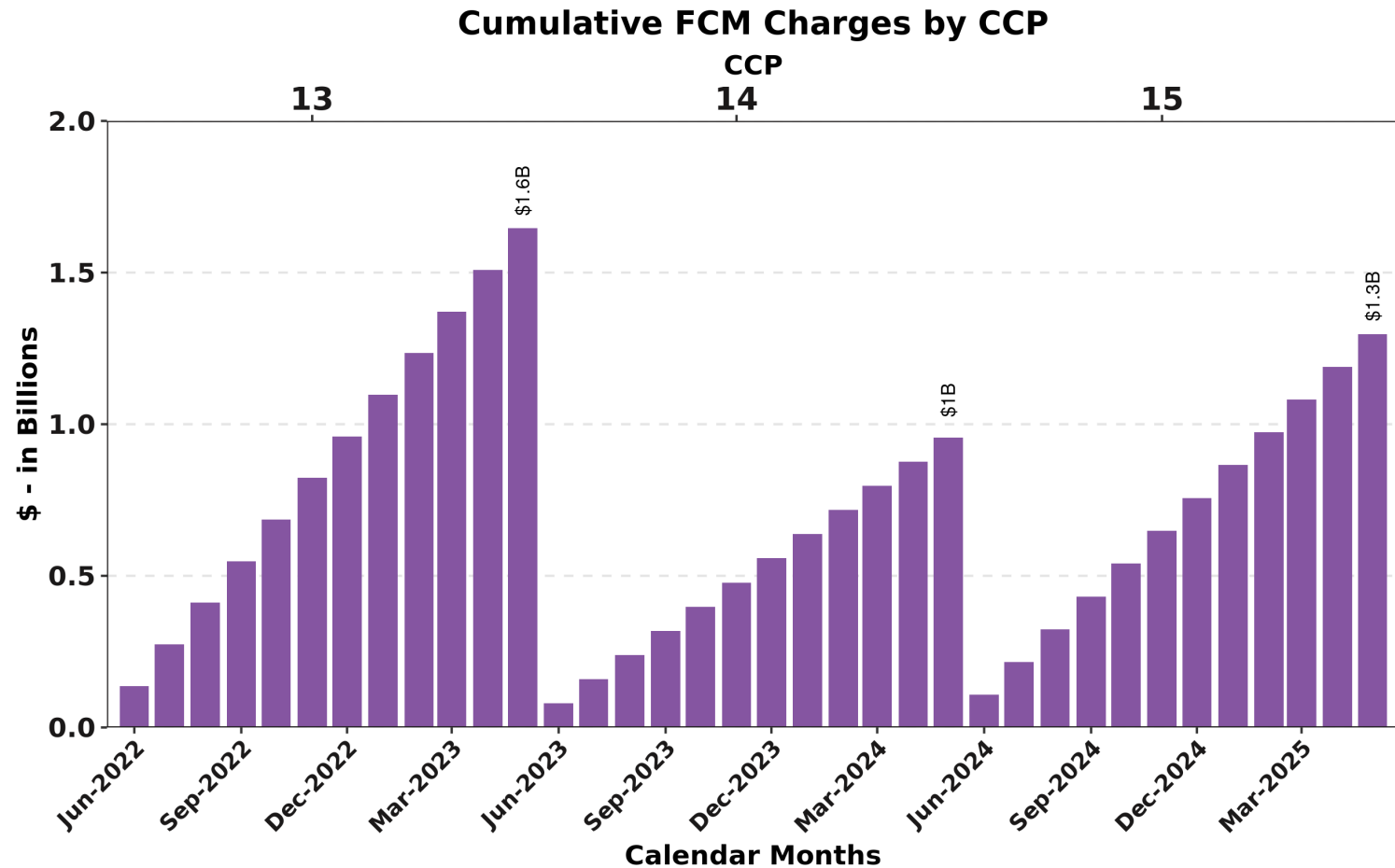
# Active/Passive Demand Response

## *CSO Totals by Commitment Period*

Commitment Period	Active/Passive	Existing	New	Grand Total
2021-22	Active	480.941	143.504	624.445
	Passive	2,604.79	370.568	2,975.36
	<b>Grand Total</b>	<b>3,085.734</b>	<b>514.072</b>	<b>3,599.806</b>
2022-23	Active	598.376	87.178	685.554
	Passive	2,788.33	566.363	3,354.69
	<b>Grand Total</b>	<b>3,386.703</b>	<b>653.541</b>	<b>4,040.244</b>
2023-24	Active	560.55	31.493	592.043
	Passive	3,035.51	291.565	3,327.07
	<b>Grand Total</b>	<b>3,596.056</b>	<b>323.058</b>	<b>3,919.114</b>
2024-25	Active	674.153	3.520	677.673
	Passive	3,046.064	166.801	3,212.865
	<b>Grand Total</b>	<b>3,720.217</b>	<b>170.321</b>	<b>3,890.538</b>
2025-26	Active	664.01	101.34	765.35
	Passive	2,428.638	128.618	2557.256
	<b>Grand Total</b>	<b>3,092.648</b>	<b>229.958</b>	<b>3,322.606</b>
2026-27	Active	615.369	7.485	622.854
	Passive	2,194.172	122.643	2,316.815
	<b>Grand Total</b>	<b>2,809.541</b>	<b>130.128</b>	<b>2,939.669</b>
2027-28	Active	543.58	0.0	543.58
	Passive	1,965.515	104.983	2070.498
	<b>Grand Total</b>	<b>2,509.095</b>	<b>104.983</b>	<b>2,614.498</b>

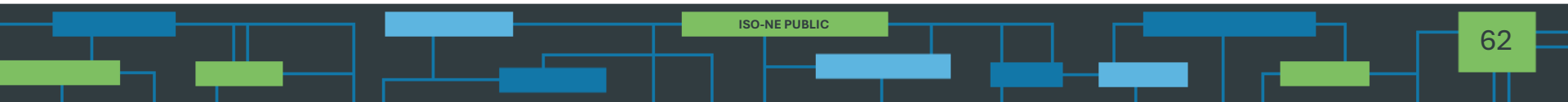


# Forward Capacity Market Auctions



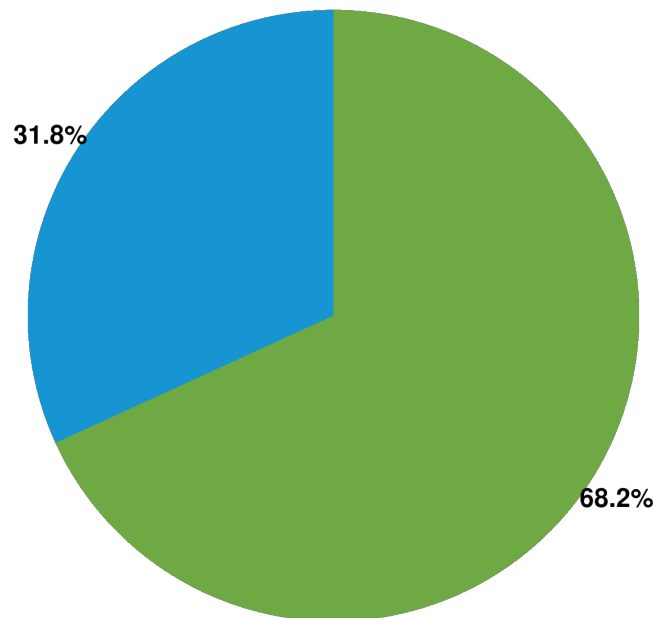
The items in the graph shaded in a lighter color represent the forecast for future months in the Capacity Commitment Period (CCP)

# NET COMMITMENT PERIOD COMPENSATION



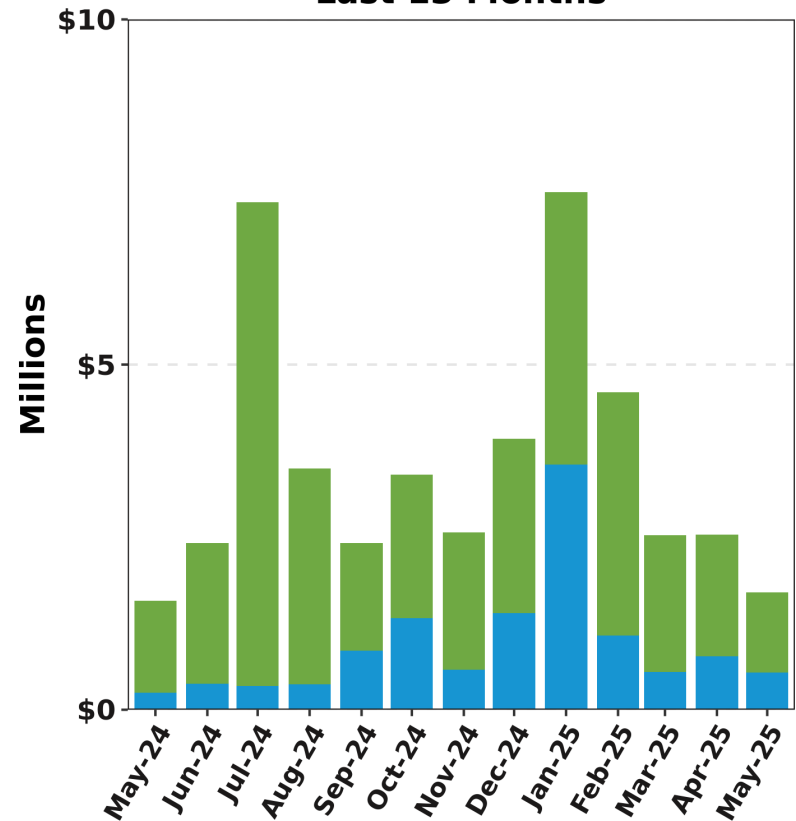
# DA and RT NCPC Charges

May-25 Total = \$1.7 M



Day-Ahead Real-Time

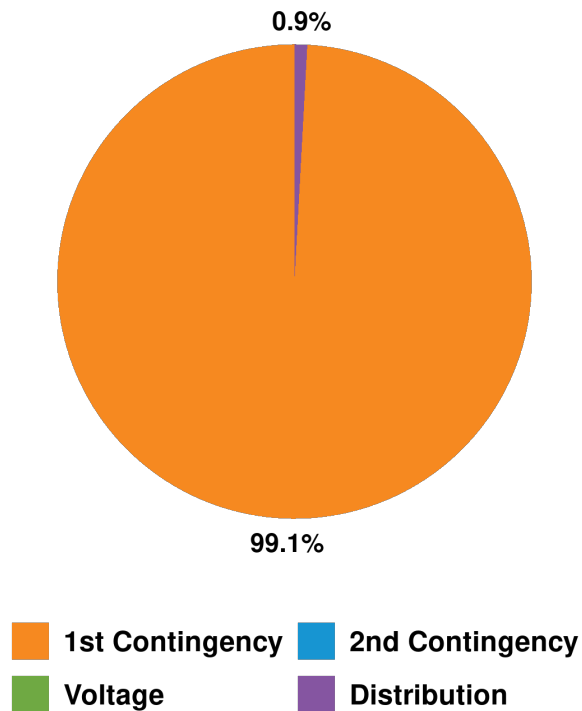
Last 13 Months



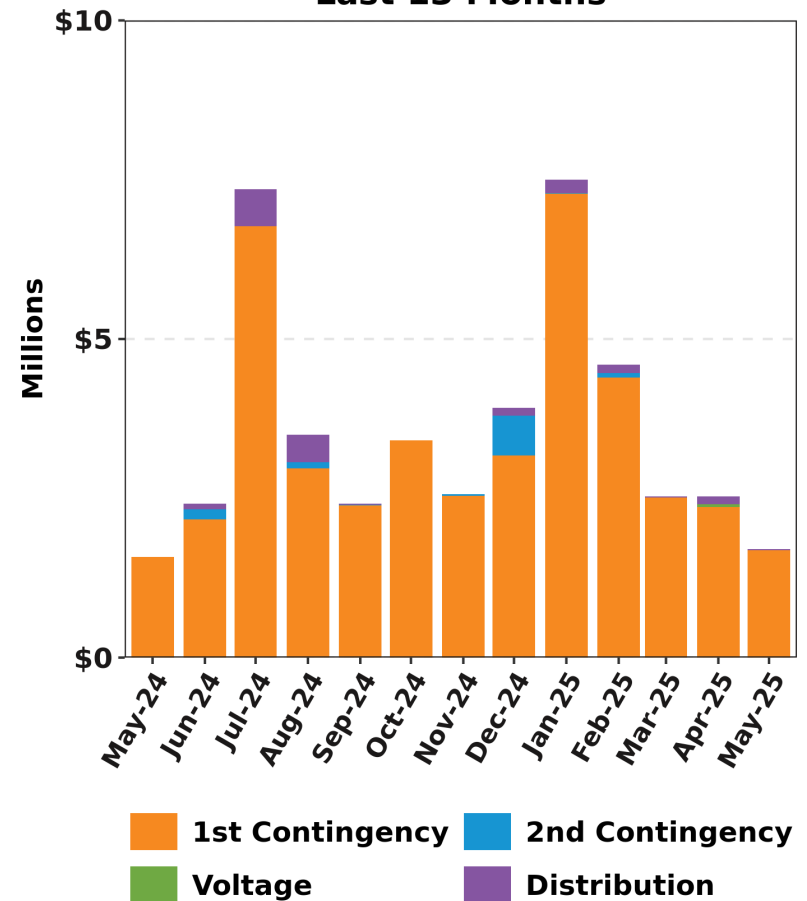
Day-Ahead Real-Time

# NCPC Charges by Type

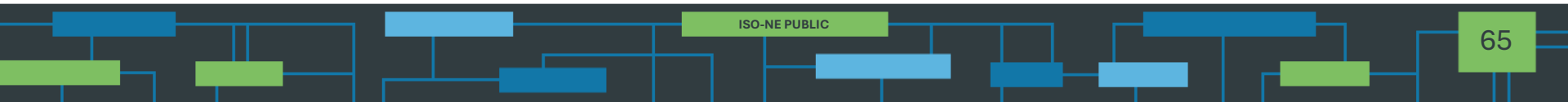
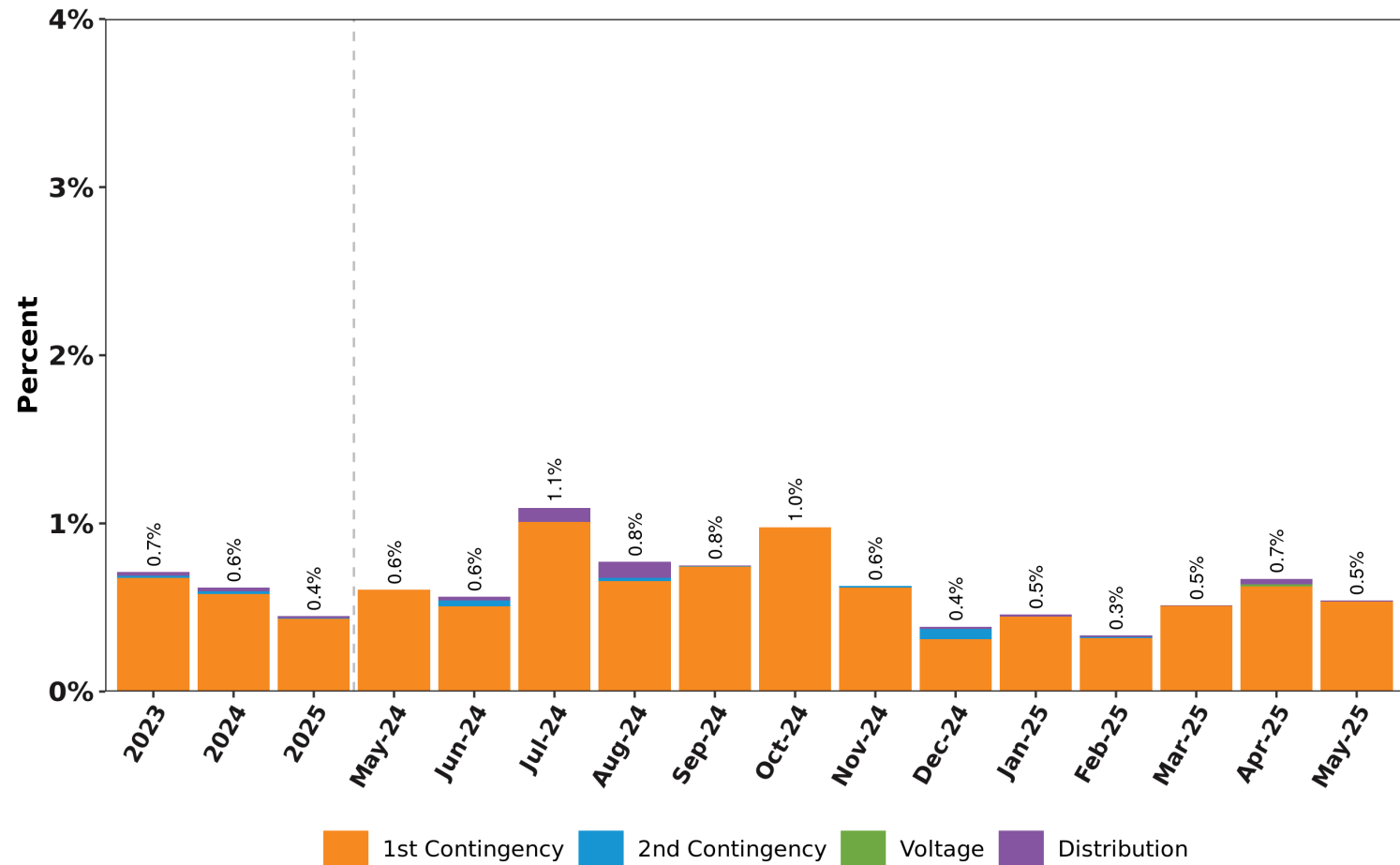
May-25 Total = \$1.7 M



Last 13 Months

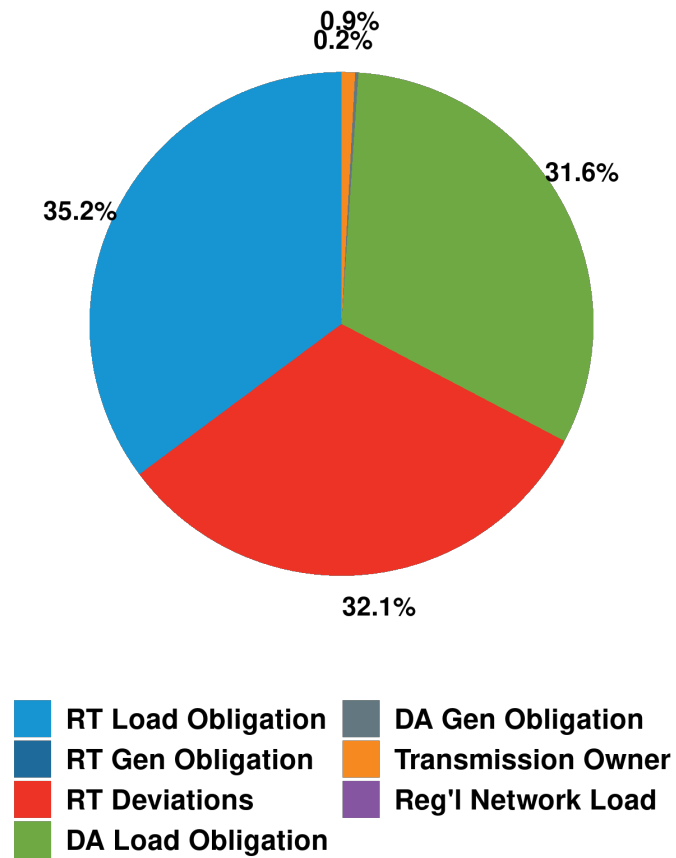


# NCPC Charges by Type as Percent of Energy Market Value

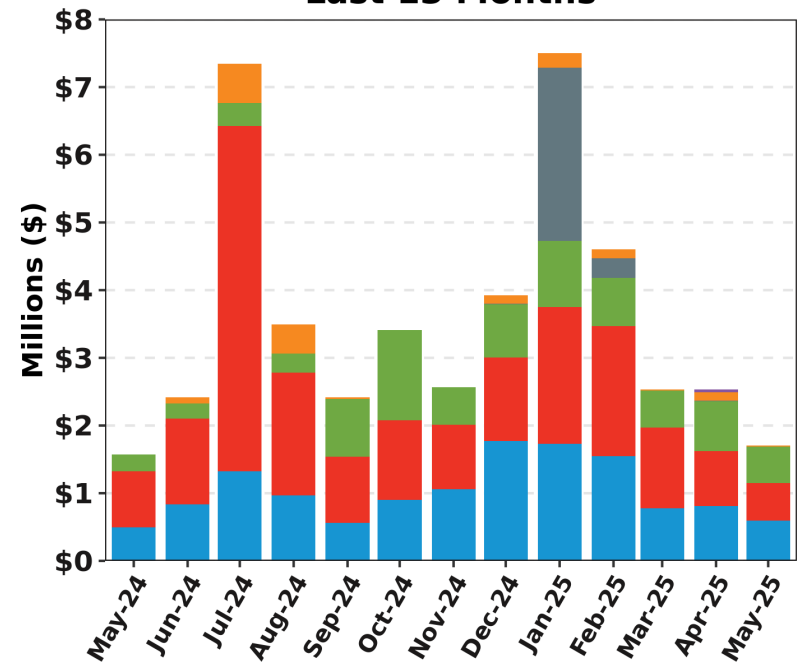


# NCPC Charge Allocations

May-25 Total = \$1.7 M

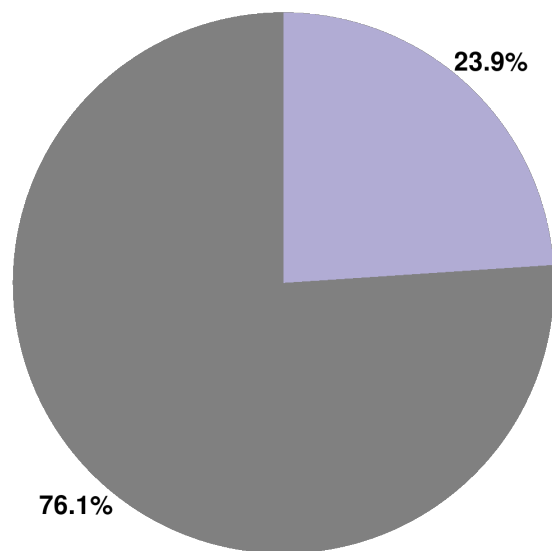


Last 13 Months

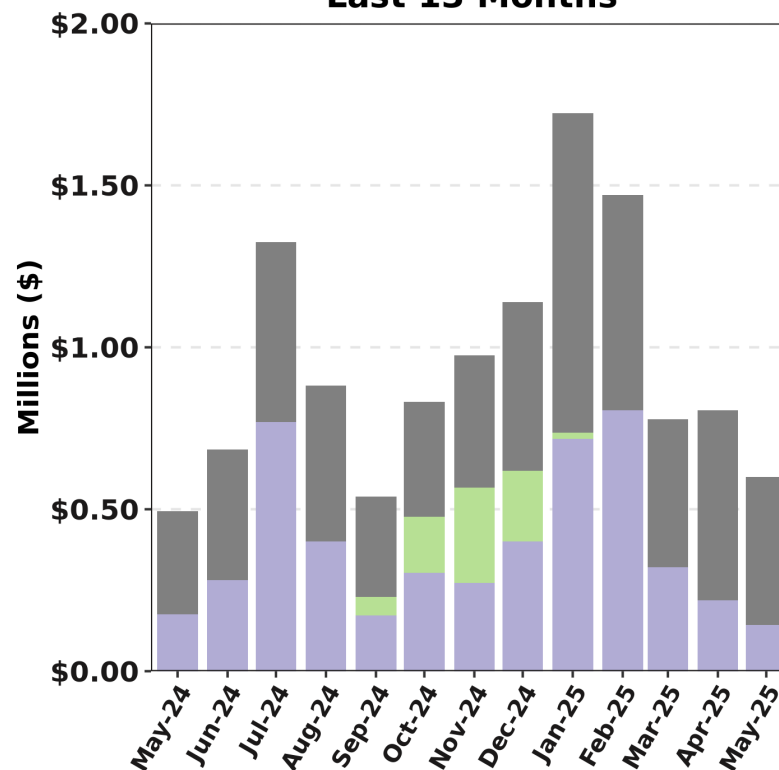


# RT First Contingency NCPC Paid to Units and Allocated to RTLO and/or RTGO

May-25 Total = \$0.6 M



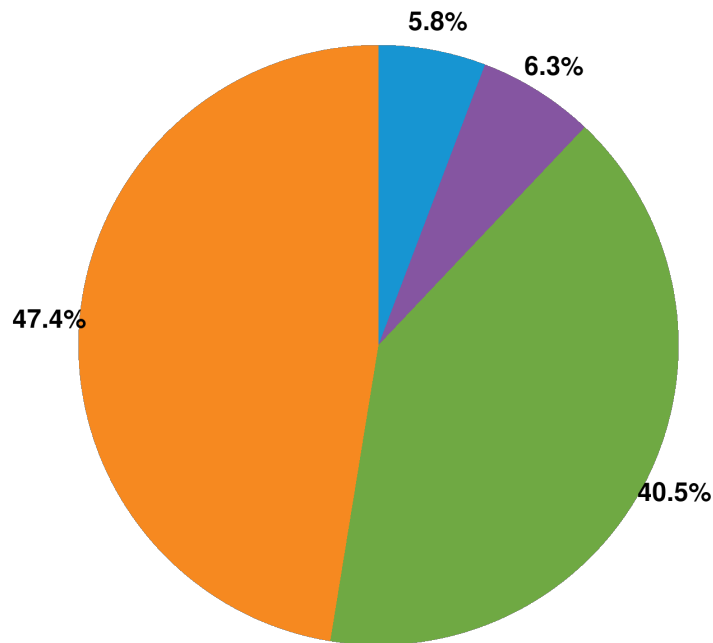
Last 13 Months



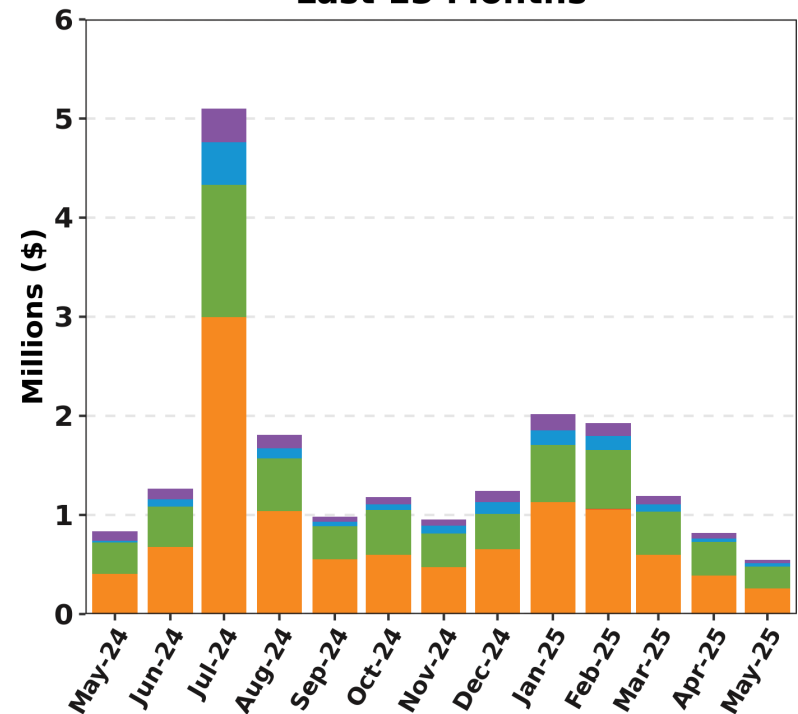
The categories shown above are a subset of those reflected in First Contingency NCPC throughout this report. The above categories are allocated to RTLO, except for Min Gen Emergency credits, which are allocated to RTGO.

# RT First Contingency Charges by Deviation Type

May-25 Total = \$0.5 M



Last 13 Months

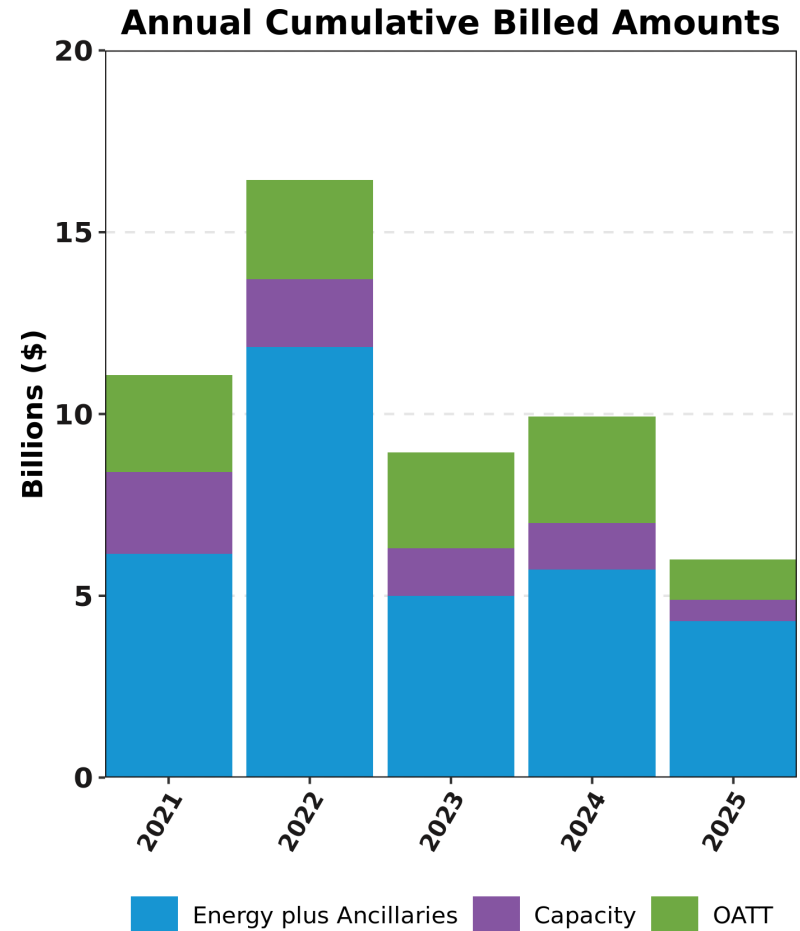
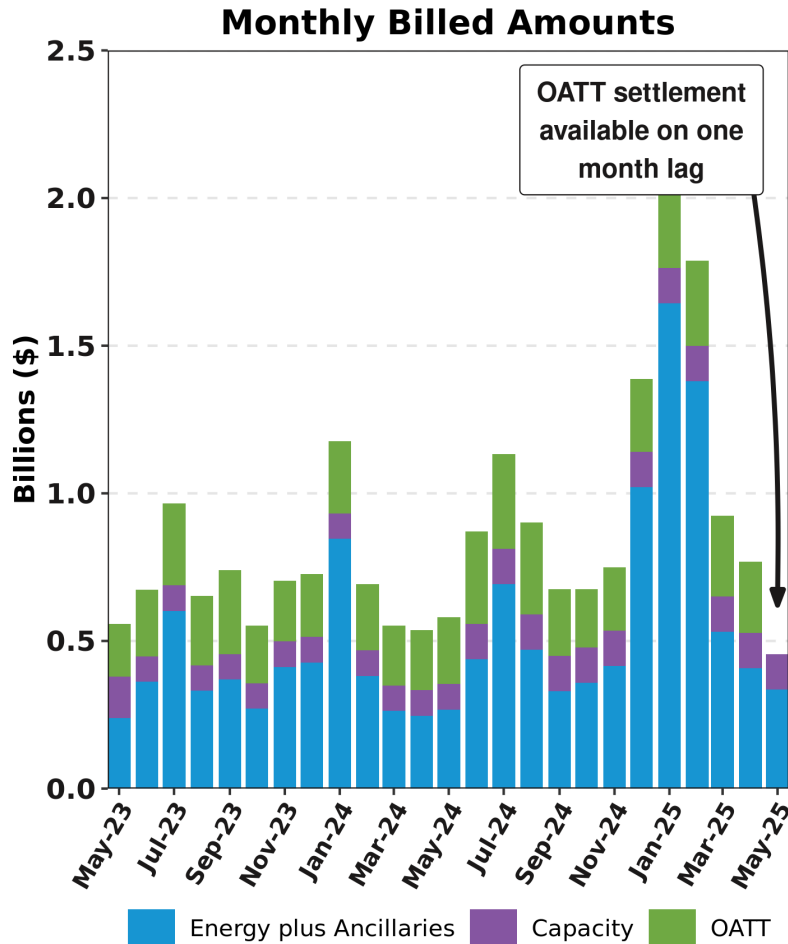




# ISO BILLINGS

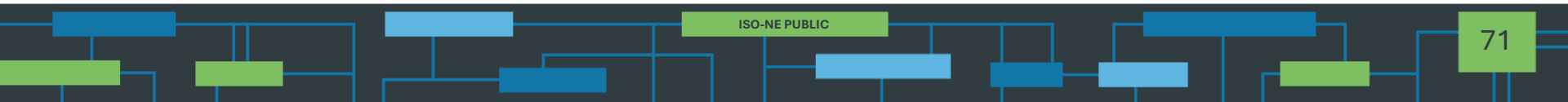


# Total ISO Billings



Ancillaries = Reserves, Regulation, NCP, minus Marginal Loss Revenue Fund. OATT = RNS, Through and Out, Schedule 9

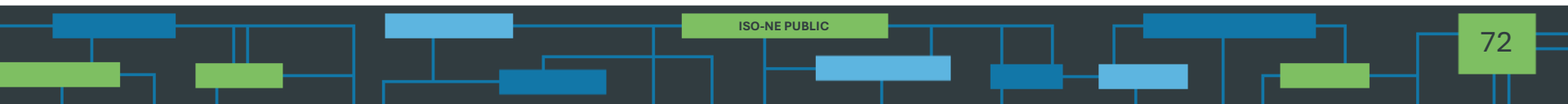
# REGIONAL SYSTEM PLAN (RSP)



# Planning Advisory Committee (PAC)

- June 16 PAC Meeting Agenda Topics\*
  - Asset Condition Projects
    - New Hampshire Line Asset Condition Structure Replacement – Lines 373, 385, 391 (Eversource)
    - Orchard Substation – 115 kV Circuit Breaker Asset Condition Replacement (Eversource)
    - A-179 Asset Condition Refurbishment Project (National Grid)
  - CT 2034 Needs Assessment Update
  - RSP Project List and Asset Condition List June 2025 Update
- June 18 PAC Forum on Grid Enhancing Technologies

\* Agenda topics are subject to change. Visit <https://www.iso-ne.com/committees/planning/planning-advisory> for the latest PAC agendas.



# 2025 Longer-Term Transmission Planning RFP

- NESCOE provided a letter on 10/16/24 discussing potential transmission needs for a Longer-term Transmission Planning (LTP) RFP, which was discussed at the 10/23/24 PAC meeting
- On 12/13/24, NESCOE provided its LTP request describing the needs to be addressed by 2035:\*
  - Increase the Maine-New Hampshire interface capacity to at least 3,000 MW
  - Increase the Surowiec-South interface capacity to at least 3,200 MW
  - Develop new infrastructure (e.g., substation) at Pittsfield, Maine that can accommodate the interconnection of at least 1,200 MW (nameplate) of onshore wind\*\*
- NESCOE's LTP request was discussed at the 12/18/24 PAC meeting
- Further discussion on details of the RFP, led by the ISO, occurred at the 1/23/25 PAC meeting, and additional discussion occurred at the 2/26/25 PAC meeting
- QTPS training on the use of Responsive occurred on 2/20/25
- The ISO issued the LTP RFP on 3/31/25, with proposals due by 9/30/25

\* Unless a bidder can demonstrate supply chain issues that warrant a later in-service date

\*\* Bidders may propose alternate locations which would be more efficient and cost-effective

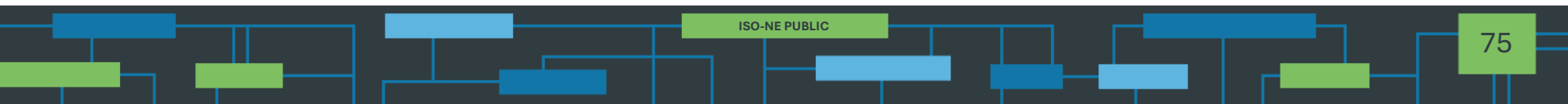
# Economic Studies: 2024 Study

- The 2024 Economic Study
  - This study is the first use of new Economic Study Process Tariff language
    - The study was initiated at the January 2024 PAC meeting and will be completed this year unless a Request for Proposal is triggered
  - The Benchmark Scenario has been completed and the Policy and Stakeholder-Requested Scenarios are being analyzed between now and Q2 2025
    - Final results for the Policy scenario, some sensitivities, and preliminary stakeholder-requested results have been presented. Some additional results will be presented in July. The System Efficiency Needs Scenario will be studied in Q3-Q4 2025, following acceptance of the Tariff changes by FERC
    - As part of the Economic Study Process Phase 2 Tariff changes, “Market Efficiency” is being renamed to “System Efficiency;” Economic Study Phase 2 Tariff changes were filed with FERC on 4/23/25

# RSP Project Stage Descriptions

Stage	Description
1	Planning and Preparation of Project Configuration
2	Pre-construction (e.g., material ordering, project scheduling)
3	Construction in Progress
4	In Service

Note: The listings in this section focus on major transmission line construction and rebuilding.



# Greater Boston Projects

*Status as of 5/27/2025*

*Plan Benefit: Addresses long-term system needs in the Greater Boston area and improves system reliability*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1213, 1220, 1365	Install new 345 kV line from Scobie to Tewksbury	Dec-17	4
1527, 1528	Reconductor the Y-151 115 kV line from Dracut Junction to Power Street	Apr-17	4
1212, 1549	Reconductor the M-139 115 kV line from Tewksbury to Pinehurst and associated work at Tewksbury	May-17	4
1549	Reconductor the N-140 115 kV line from Tewksbury to Pinehurst and associated work at Tewksbury	May-17	4
1260	Reconductor the F-158N 115 kV line from Wakefield Junction to Maplewood and associated work at Maplewood	Dec-15	4
1550	Reconductor the F-158S 115 kV line from Maplewood to Everett	Jun-19	4
1551,1552	Install new 345 kV cable from Woburn to Wakefield Junction, install two new 160 MVAR variable shunt reactors and associated work at Wakefield Junction and Woburn*	Mar-24	4
1329	Refurbish X-24 69 kV line from Millbury to Northboro Road	Dec-15	4
1327	Reconductor W-23W 69 kV line from Woodside to Northboro Road	Jun-19	4



# Greater Boston Projects, cont.

*Status as of 5/27/2025*

*Plan Benefit: Addresses long-term system needs in the Greater Boston area and improves system reliability*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1330	Separate X-24 and E-157W DCT	Dec-18	4
1363	Separate Q-169 and F-158N DCT	Dec-15	4
1637, 1640	Reconductor M-139/211-503 and N-140/211-504 115 kV lines from Pinehurst to North Woburn tap	May-17	4
1516	Install new 115 kV station at Sharon to segment three 115 kV lines from West Walpole to Holbrook	Sep-20	4
965	Install third 115 kV line from West Walpole to Holbrook	Sep-20	4
1558	Install new 345 kV breaker in series with the 104 breaker at Stoughton	May-16	4
1199	Install new 230/115 kV autotransformer at Sudbury and loop the 282-602 230 kV line in and out of the new 230 kV switchyard at Sudbury	Dec-17	4
1335, 1672*	Install a new 115 kV line from Sudbury to Hudson	Dec-24, Sep-25*	4, 3

\* The new 115 KV line from Sudbury to Hudson is currently in-service with some station work remaining at Hudson.

# Greater Boston Projects, cont.

*Status as of 5/27/2025*

*Plan Benefit: Addresses long-term system needs in the Greater Boston area and improves system reliability*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1336	Replace 345/115 kV autotransformer, 345 kV breakers, and 115 kV switchgear at Woburn	Dec-19	4
1553	Install a 345 kV breaker in series with breaker 104 at Woburn	Jun-17	4
1337	Reconfigure Waltham by relocating PARs, 282-507 line, and a breaker	Dec-17	4
1339	Upgrade 533-508 115 kV line from Lexington to Hartwell and associated work at the stations	Aug-16	4
1521	Install a new 115 kV 54 MVAR capacitor bank at Newton	Dec-16	4
1522	Install a new 115 kV 36.7 MVAR capacitor bank at Sudbury	May-17	4
1352	Install a second Mystic 345/115 kV autotransformer and reconfigure the bus	May-19	4
1353	Install a 115 kV breaker on the East bus at K Street	Jun-16	4
1354, 1738	Install 115 kV cable from Mystic to Chelsea and upgrade Chelsea 115 kV station to BPS standards	Jul-21	4
1355	Split 110-522 and 240-510 DCT from Baker Street to Needham for a portion of the way and install a 115 kV cable for the rest of the way	Mar-21	4

# Greater Boston Projects, cont.

*Status as of 5/27/2025*

*Plan Benefit: Addresses long-term system needs in the Greater Boston area and improves system reliability*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1356	Install a second 115 kV cable from Mystic to Woburn to create a bifurcated 211-514 line	Mar-24	4
1357	Open lines 329-510/511 and 250-516/517 at Mystic and Chatham, respectively. Operate K Street as a normally closed station.	May-19	4
1518	Upgrade Kingston to create a second normally closed 115 kV bus tie and reconfigure the 345 kV switchyard	Mar-19	4
1519	Relocate the Chelsea capacitor bank to the 128-518 termination position	Dec-16	4

# Greater Boston Projects, cont.

*Status as of 5/27/2025*

*Plan Benefit: Addresses long-term system needs in the Greater Boston area and improves system reliability*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1520	Upgrade North Cambridge to mitigate 115 kV 5 and 10 stuck breaker contingencies	Dec-17	4
1643	Install a 200 MVAR STATCOM at Coopers Mills	Nov-18	4
1341, 1645	Install a 115 kV 36.7 MVAR capacitor bank at Hartwell	May-17	4
1646	Install a 345 kV 160 MVAR shunt reactor at K Street	Dec-19	4
1647	Install a 115 kV breaker in series with the 5 breaker at Framingham	Mar-17	4
1554	Install a 115 kV breaker in series with the 29 breaker at K Street	Apr-17	4

# SEMA/RI Reliability Projects

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Southeast Massachusetts/Rhode Island area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1714	Construct a new 115 kV GIS switching station (Grand Army) which includes remote terminal station work at Brayton Point and Somerset substations, and the looping in of the E-183E, F-184, X3, and W4 lines	Oct-20	4
1742	Conduct remote terminal station work at the Wampanoag and Pawtucket substations for the new Grand Army GIS switching station	Oct-20	4
1715	Install upgrades at Brayton Point substation which include a new 115 kV breaker, new 345/115 kV transformer, and upgrades to E183E, F184 station equipment	Oct-20	4
1716	Increase clearances on E-183E & F-184 lines between Brayton Point and Grand Army substations	Nov-19	4
1717	Separate the X3/W4 DCT and reconductor the X3 and W4 lines between Somerset and Grand Army substations; reconfigure Y2 and Z1 lines	Nov-19	4

# SEMA/RI Reliability Projects, cont.

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Southeast Massachusetts/Rhode Island area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1718	Add 115 kV circuit breaker at Robinson Ave substation and re-terminate the Q10 line	Mar-22	4
1719	Install 45.0 MVAR capacitor bank at Berry Street substation	Cancelled*	N/A
1720	Separate the N12/M13 DCT and reconductor the N12 and M13 between Somerset and Bell Rock substations	Mar-27	2
1721	Reconfigure Bell Rock to breaker-and-a-half station, split the M13 line at Bell Rock substation, and terminate 114 line at Bell Rock; install a new breaker in series with N12/D21 tie breaker, upgrade D21 line switch, and install a 37.5 MVAR capacitor	Aug-23	4
1722	Extend the Line 114 from the Dartmouth town line (Eversource-National Grid border) to Bell Rock substation	Dec-26	2
1723	Reconductor L14 and M13 lines from Bell Rock substation to Bates Tap	Cancelled*	N/A

\*Cancelled per ISO-NE PAC presentation on August 27, 2020

# SEMA/RI Reliability Projects, cont.

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Southeast Massachusetts/Rhode Island area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1725	Build a new 115 kV line from Bourne to West Barnstable substations which includes associated terminal work	May-24	4
1726	Separate the 135/122 DCT from West Barnstable to Barnstable substations	Dec-21	4
1727	Retire the Barnstable SPS	Nov-21	4
1728	Build a new 115 kV line from Carver to Kingston substations and add a new Carver terminal	Aug-23	4
1729	Install a new bay position at Kingston substation to accommodate new 115 kV line	Aug-23	4
1730	Extend the 114 line from the Eversource/National Grid border to the Industrial Park Tap	Dec-26	2

# SEMA/RI Reliability Projects, cont.

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Southeast Massachusetts/Rhode Island area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1731	Install 35.3 MVAR capacitors at High Hill and Wing Lane substations	Dec-21	4
1732	Loop the 201-502 line into the Medway substation to form the 201-502N and 201-502S lines	Dec-25	3
1733	Separate the 325/344 DCT lines from West Medway to West Walpole substations	Cancelled**	N/A
1734	Reconductor and upgrade the 112 Line from the Tremont substation to the Industrial Tap	Jun-18	4
1736	Reconductor the 108 line from Bourne substation to Horse Pond Tap*	Oct-18	4
1737	Replace disconnect switches on 323 line at West Medway substation and replace 8 line structures	Aug-20	4

\* Does not include the reconductoring work over the Cape Cod canal

\*\* Cancelled per ISO-NE PAC presentation on August 27, 2020



# SEMA/RI Reliability Projects, cont.

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Southeast Massachusetts/Rhode Island area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1741	Rebuild the Middleborough Gas and Electric portion of the E1 line from Bridgewater to Middleborough	Apr-19	4
1782	Reconductor the J16S line	May 22	4
1724	Replace the Kent County 345/115 kV transformer	Mar-22	4
1789	West Medway 345 kV circuit breaker upgrades	Apr-21	4
1790	Medway 115 kV circuit breaker replacements	Nov-20	4

# New Hampshire Solution Projects

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the New Hampshire area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1878	Install a +55/-32.2 MVAR synchronous condenser at N. Keene 115 kV Substation with a 115 kV breaker	Jun-25	3
1879	Install a +55/-32.2 MVAR synchronous condenser at Huckins Hill 115 kV Substation with a 115 kV breaker	Oct-24	4
1880	Install a +127/-50 MVAR synchronous condenser at Amherst 345 kV Substation with two 345 kV breakers	Dec 24	4
1881	Install two 50 MVAR capacitors on Line 363 near Seabrook Station with three 345 kV breakers	Oct-23	4

# Upper Maine Solution Projects

*Status as of 5/27/2025*

*Project Benefit: Addresses system needs in the Upper Maine area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1882	Rebuild 21.7 miles of the existing 115 kV line Section 80 Highland-Coopers Mills 115 kV line	Aug-24	4
1883	Convert the Highland 115 kV substation to an eight breaker, breaker-and-a-half configuration with a bus connected 115/34.5 kV transformer	Jul-28	1
1884	Install a 15 MVAR capacitor at Belfast 115 kV substation	Jul-28	1
1885	Install a +50/-25 MVAR synchronous condenser at Highland 115 kV substation	Jul-28	1
1886	Install +50/-25 MVAR synchronous condenser at Boggy Brook 115 kV substation, and install a new 115 kV breaker to separate Line 67 from the proposed solution elements	Aug-25	3

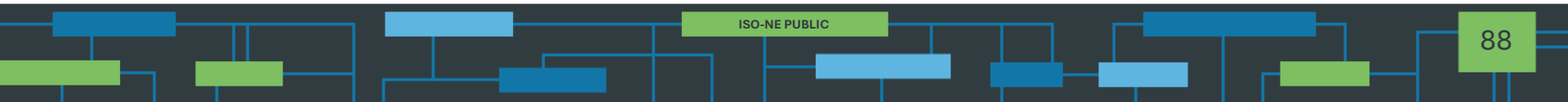
# Upper Maine Solution Projects, cont.

*Status as of 5/27/2025*

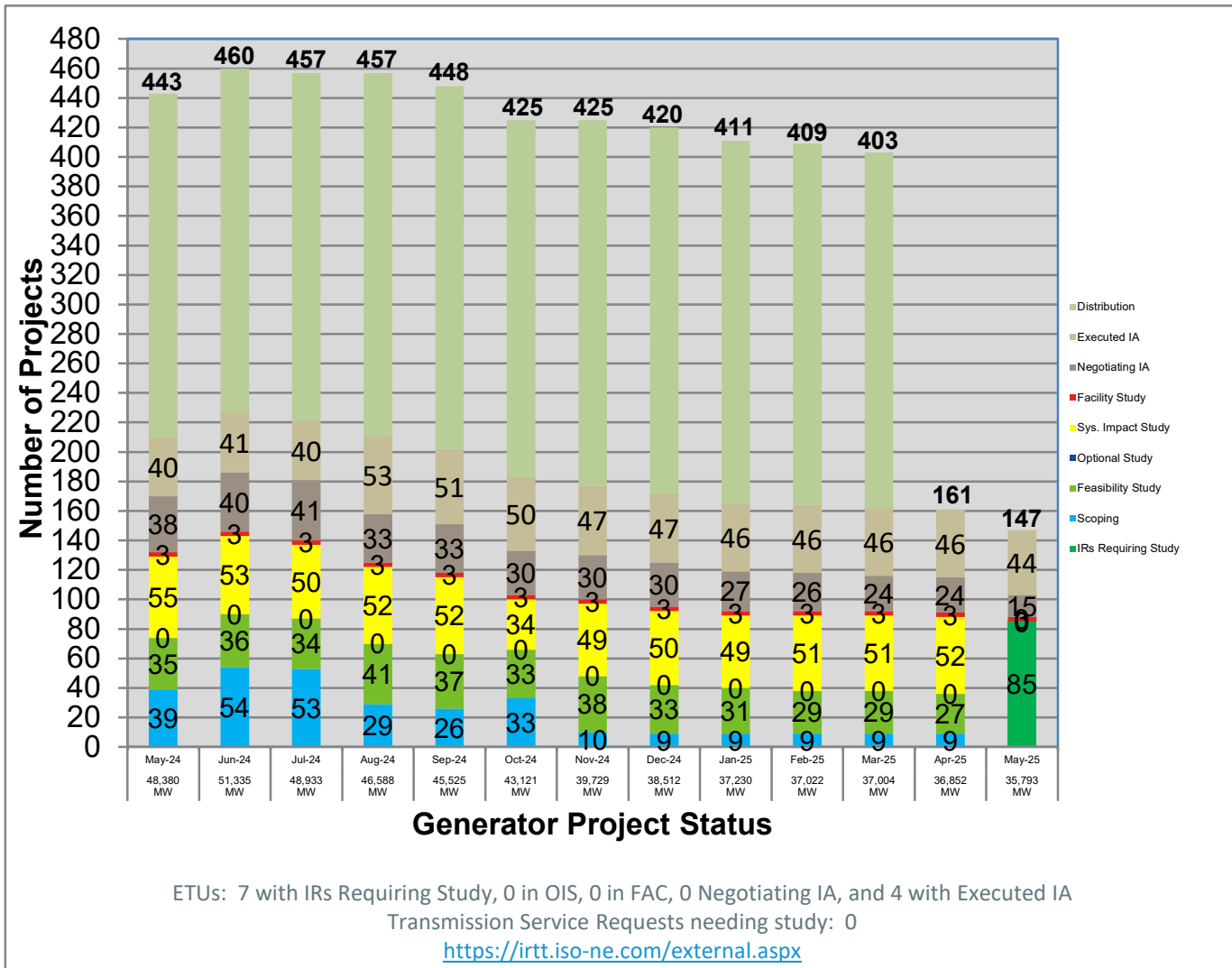
*Project Benefit: Addresses system needs in the Upper Maine area*

RSP Project List ID	Upgrade	Expected/ Actual In-Service	Present Stage
1887	Install 25 MVAR reactor at Boggy Brook 115 kV substation	Nov-24	4
1888	Install 10 MVAR reactor at Keene Road 115 kV substation	Jul-24	4
1889	Install three remotely monitored and controlled switches to split the existing Orrington reactors between the two Orrington 345/115 kV autotransformers	Cancelled *	N/A
1914	Install a new 80 MVAR reactor, reconfigure the existing two reactors at the 345 kV Orrington substation	Jun-26	2

\* Cancelled per the Upper Maine Solutions Study Addendum that was published on January 11, 2024



# Status of Tariff Studies as of May 29, 2025



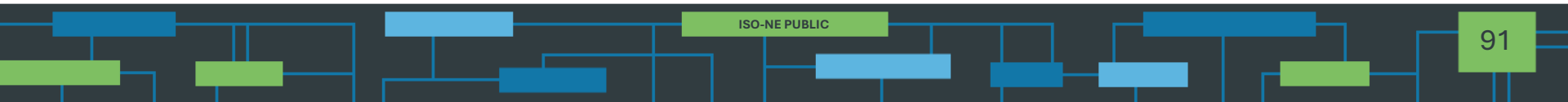
Note: As of April 2025, the ISO is no longer tracking Distribution Projects in its interconnection queue. Also, the values starting in May 2025 reflect that, as a result of the Order No. 2023 response from FERC, the ISO is no longer performing serial interconnection studies.

# Note on Air Emissions Slides

- For more timely reporting and stakeholder convenience, the data and information included in this report on air emissions can now be found by visiting the ISO website, under System Planning > Plans and Studies > Environmental and Emissions Reports
  - <https://www.iso-ne.com/system-planning/system-plans-studies/emissions>
- Monthly and year-to-date emissions by fuel type are reported in the ISO Newswire article series, [Monthly Wholesale Electricity Prices and Demand in New England](#) (link can be found on the page above)

# OPERABLE CAPACITY ANALYSIS

*Summer 2025 Analysis*



# Summer 2025 Operable Capacity Analysis

50/50 Load Forecast (Reference)	June - 2025 <sup>2</sup> CSO (MW)	June - 2025 <sup>2</sup> SCC (MW)
Operable Capacity MW <sup>1</sup>	25,989	27,054
Active Demand Capacity Resource (+) <sup>5</sup>	373	400
External Node Available Net Capacity, CSO imports minus firm capacity exports (+)	1,235	1,235
Non Commercial Capacity (+)	267	267
Non Gas-fired Planned Outage MW (-)	229	920
Gas Generator Outages MW (-)	166	192
Allowance for Unplanned Outages (-) <sup>4</sup>	2,800	2,800
Generation at Risk Due to Gas Supply (-) <sup>3</sup>	0	0
Net Capacity (NET OPCAP SUPPLY MW)	24,669	25,044
Peak Load Forecast MW (adjusted for Other Demand Resources) <sup>2</sup>	24,803	24,803
Operating Reserve Requirement MW	2,125	2,125
Operable Capacity Required (NET LOAD OBLIGATION MW)	26,928	26,928
Operable Capacity Margin	-2,259	-1,884

<sup>1</sup>Operable Capacity is based on data as of **May 27, 2025** and does not include Capacity associated with Settlement Only Generators, Passive and Active Demand Response, and external capacity. The Capacity Supply Obligation (CSO) and Seasonal Claim Capability (SCC) values are based on data as of **May 27, 2025**.

<sup>2</sup> Load forecast that is based on the 2025 CELT report and represents the week with the lowest Operable Capacity Margin, week beginning **June 14, 2025**.

<sup>3</sup> Total of (Gas at Risk MW) – (Gas Gen Outages MW).

<sup>4</sup> Allowance For Unplanned Outage MW is based on the month corresponding to the day with the lowest Operable Capacity Margin for the week.

<sup>5</sup> Active Demand Capacity Resources (ADCRs) can participate in the Forward Capacity Market (FCM), have the ability to obtain a CSO and also participate in the Day-Ahead and Real-Time Energy Markets.



# Summer 2025 Operable Capacity Analysis

90/10 Load Forecast	June - 2025 <sup>2</sup> CSO (MW)	June - 2025 <sup>2</sup> SCC (MW)
Operable Capacity MW <sup>1</sup>	25,989	27,054
Active Demand Capacity Resource (+) <sup>5</sup>	373	400
External Node Available Net Capacity, CSO imports minus firm capacity exports (+)	1,235	1,235
Non Commercial Capacity (+)	267	267
Non Gas-fired Planned Outage MW (-)	229	920
Gas Generator Outages MW (-)	166	192
Allowance for Unplanned Outages (-) <sup>4</sup>	2,800	2,800
Generation at Risk Due to Gas Supply (-) <sup>3</sup>	0	0
Net Capacity (NET OPCAP SUPPLY MW)	24,669	25,044
Peak Load Forecast MW (adjusted for Other Demand Resources) <sup>2</sup>	25,886	25,886
Operating Reserve Requirement MW	2,125	2,125
Operable Capacity Required (NET LOAD OBLIGATION MW)	28,011	28,011
Operable Capacity Margin	-3,342	-2,967

<sup>1</sup> Operable Capacity is based on data as of **May 27, 2025** and does not include Capacity associated with Settlement Only Generators, Passive and Active Demand Response, and external capacity. The Capacity Supply Obligation (CSO) and Seasonal Claim Capability (SCC) values are based on data as of **May 27, 2025**.

<sup>2</sup> Load forecast that is based on the 2025 CELT report and represents the week with the lowest Operable Capacity Margin, week beginning **June 14, 2025**.

<sup>3</sup> Total of (Gas at Risk MW) – (Gas Gen Outages MW).

<sup>4</sup> Allowance For Unplanned Outage MW is based on the month corresponding to the day with the lowest Operable Capacity Margin for the week.

<sup>5</sup> Active Demand Capacity Resources (ADCRs) can participate in the Forward Capacity Market (FCM), have the ability to obtain a CSO and also participate in the Day-Ahead and Real-Time Energy Markets.

# Summer 2025 Operable Capacity Analysis

## 50/50 Forecast (Reference)

### ISO-NE OPERABLE CAPACITY ANALYSIS

*May 27, 2025 - 50-50 FORECAST using CSO MW*

This analysis is a tabulation of weekly assessments shown in one single table. The information shows the operable capacity situation under assumed conditions for each week. It is not expected that the system peak will occur every week in June through mid September.

Report created: 5/27/2025

Study Week (Week Beginning , Saturday)	CSO Supply Resource Capacity MW	CSO Demand Resource Capacity MW	External Node Capacity MW	Non-Commercial Capacity MW	CSO Non Gas- Only Generator Planned Outages MW	CSO Gas-Only Generator Planned Outages MW	Unplanned Outages Allowance MW	CSO Generation at Risk Due to Gas Supply 50- 50PLE MW	CSO Net Available Capacity MW	Peak Load Forecast 50- 50PLE MW	Operating Reserve Requirement MW	CSO Net Required Capacity MW	CSO Operable Capacity Margin MW	Season Min Opcap Margin Flag	Season_Label
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
6/14/2025	25989	373	1235	267	229	166	2800	0	24669	24803	2125	26928	-2259	Y	Summer 2025
6/21/2025	25989	373	1235	267	201	166	2800	0	24697	24803	2125	26928	-2231	N	Summer 2025
6/28/2025	25989	373	1235	267	188	166	2800	0	24710	24803	2125	26928	-2218	N	Summer 2025
7/5/2025	26072	404	1235	457	188	10	2100	0	25870	24803	2125	26928	-1058	N	Summer 2025
7/12/2025	26072	404	1235	457	201	10	2100	0	25857	24803	2125	26928	-1071	N	Summer 2025
7/19/2025	26072	404	1235	457	201	10	2100	0	25857	24803	2125	26928	-1071	N	Summer 2025
7/26/2025	26072	404	1235	457	83	0	2100	0	25985	24803	2125	26928	-943	N	Summer 2025
8/2/2025	26072	404	1235	469	81	0	2100	0	25999	24803	2125	26928	-929	N	Summer 2025
8/9/2025	26072	404	1235	469	67	0	2100	0	26013	24803	2125	26928	-915	N	Summer 2025
8/16/2025	26072	404	1235	469	67	0	2100	0	26013	24803	2125	26928	-915	N	Summer 2025
8/23/2025	26072	404	1235	469	67	0	2100	0	26013	24803	2125	26928	-915	N	Summer 2025
8/30/2025	26072	404	1235	469	115	0	2100	0	25965	24803	2125	26928	-963	N	Summer 2025
9/6/2025	26072	404	1235	469	115	0	2100	0	25965	24803	2125	26928	-963	N	Summer 2025
9/13/2025	26072	404	1235	469	149	0	2100	0	25931	24803	2125	26928	-997	N	Summer 2025

### Column Definitions

- CSO Supply Resource Capacity MW:** Summation of all resource Capacity supply Obligations (CSO). Does not include Settlement Only Generators (SOG).
- CSO Demand Resource Capacity MW:** Demand resources known as Real-Time Demand Response (RTDR) will become Active Demand Capacity Resources (ADCRs) and can participate in the Forward Capacity market (FCM). These resources will have the ability to obtain a CSO and also participate in the Day-Ahead and Real-Time Energy Markets.
- External Node Capacity MW:** Sum of external Capacity Supply Obligations (CSO) imports and exports.
- Non-Commercial capacity MW:** New resources and generator improvements that have acquired a CSO but have not become commercial.
- CSO Non Gas-Only Generator Planned Outages MW:** All Non-Gas Planned Outages is the total of Non Gas-fired Generator/DARD Outages for the period. This value would also include any known long-term Non Gas-fired Forced Outages.
- CSO Gas-Only Generator Planned Outages MW:** All Planned Gas-fired generation outage for the period. This value would also include any known long-term Gas-fired Forced Outages.
- Unplanned Outage Allowance MW:** Forced Outages and Maintenance Outages scheduled less than 14 days in advance per ISO New England Operating Procedure No. 5 Appendix A.
- CSO Generation at Risk Due to Gas Supply MW:** Gas fired capacity expected to be at risk during cold weather conditions or gas pipeline maintenance outages.
- CSO Net Available Capacity MW:** the summation of columns (1+2+3+4-5-6-7-8-9)
- Peak Load Forecast MW:** Provided in the annual 2025 CELT Report and adjusted for Passive Demand Resources assumes Peak Load Exposure (PLE) and does include credit of Passive Demand Response (PDR) and behind-the-meter PV (BTM PV).
- Operating Reserve Requirement MW:** 120% of first largest contingency plus 50% of the second largest contingency.
- CSO Net Required Capacity MW:** (Net Load Obligation) (10+11=12)
- CSO Operable Capacity Margin MW:** CSO Net Available Capacity MW minus CSO Net Required Capacity MW (9-12=13)
- Operable Capacity Season Label:** Applicable season and year.
- Season Minimum Operable Capacity Flag:** this column indicates whether or not a week has the lowest capacity margin for its applicable season.

# Summer 2025 Operable Capacity Analysis

## 90/10 Forecast

### ISO-NE OPERABLE CAPACITY ANALYSIS

May 27, 2025 - 90/10 FORECAST using CSO MW

This analysis is a tabulation of weekly assessments shown in one single table. The information shows the operable capacity situation under assumed conditions for each week. It is not expected that the system peak will occur every week in June through mid September.

Report created: 5/27/2025

Study Week (Week Beginning , Saturday)	CSO Supply Resource Capacity MW	CSO Demand Resource Capacity MW	External Node Capacity MW	Non-Commercial Capacity MW	CSO Non Gas- Only Generator Planned Outages MW	CSO Gas-Only Generator Planned Outages MW	Unplanned Outages Allowance MW	CSO Generation at Risk Due to Gas Supply 90- 10PLE MW	CSO Net Available Capacity MW	Peak Load Forecast 90- 10PLE MW	Operating Reserve Requirement MW	CSO Net Required Capacity MW	CSO Operable Capacity Margin MW	Season Min Opcap Margin Flag	Season_Label
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
6/14/2025	25989	373	1235	267	229	166	2800	0	24669	25886	2125	28011	-3342	Y	Summer 2025
6/21/2025	25989	373	1235	267	201	166	2800	0	24697	25886	2125	28011	-3314	N	Summer 2025
6/28/2025	25989	373	1235	267	188	166	2800	0	24710	25886	2125	28011	-3301	N	Summer 2025
7/5/2025	26072	404	1235	457	188	10	2100	0	25870	25886	2125	28011	-2141	N	Summer 2025
7/12/2025	26072	404	1235	457	201	10	2100	0	25857	25886	2125	28011	-2154	N	Summer 2025
7/19/2025	26072	404	1235	457	201	10	2100	0	25857	25886	2125	28011	-2154	N	Summer 2025
7/26/2025	26072	404	1235	457	83	0	2100	0	25985	25886	2125	28011	-2026	N	Summer 2025
8/2/2025	26072	404	1235	469	81	0	2100	0	25999	25886	2125	28011	-2012	N	Summer 2025
8/9/2025	26072	404	1235	469	67	0	2100	0	26013	25886	2125	28011	-1998	N	Summer 2025
8/16/2025	26072	404	1235	469	67	0	2100	0	26013	25886	2125	28011	-1998	N	Summer 2025
8/23/2025	26072	404	1235	469	67	0	2100	0	26013	25886	2125	28011	-1998	N	Summer 2025
8/30/2025	26072	404	1235	469	115	0	2100	0	25965	25886	2125	28011	-2046	N	Summer 2025
9/6/2025	26072	404	1235	469	115	0	2100	0	25965	25886	2125	28011	-2046	N	Summer 2025
9/13/2025	26072	404	1235	469	149	0	2100	0	25931	25886	2125	28011	-2080	N	Summer 2025

#### Column Definitions

- CSO Supply Resource Capacity MW:** Summation of all resource Capacity supply Obligations (CSO). Does not include Settlement Only Generators (SOG).
- CSO Demand Resource Capacity MW:** Demand resources known as Real-Time Demand Response (RTDR) will become Active Demand Capacity Resources (ADCRs) and can participate in the Forward Capacity market (FCM). These resources will have the ability to obtain a CSO and also participate in the Day-Ahead and Real-Time Energy Markets.
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- CSO Gas-Only Generator Planned Outages MW:** All Planned Gas-fired generation outage for the period. This value would also include any known long-term Gas-fired Forced Outages.
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- CSO Generation at Risk Due to Gas Supply Mw:** Gas fired capacity expected to be at risk during cold weather conditions or gas pipeline maintenance outages.
- CSO Net Available Capacity MW:** the summation of columns (1+2+3+4-5-6-7-8-9)
- Peak Load Forecast MW:** Provided in the annual 2025 CELT Report and adjusted for Passive Demand Resources assumes Peak Load Exposure (PLE) and does include credit of Passive Demand Response (PDR) and behind-the-meter PV (BTM PV).
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- Operable Capacity Season Label:** Applicable season and year.
- Season Minimum Operable Capacity Flag:** this column indicates whether or not a week has the lowest capacity margin for its applicable season.

\*Highlighted week is based on the week determined by the 50/50 Load Forecast Reference week

# Possible Relief Under OP4: Appendix A

OP 4 Action Number	Page 1 of 2 Action Description	Amount Assumed Obtainable Under OP 4 (MW)
1	Implement Power Caution and advise Resources with a CSO to prepare to provide capacity and notify “Settlement Only” generators with a CSO to monitor reserve pricing to meet those obligations. Begin to allow the depletion of 30-minute reserve.	0 <sup>1</sup>  600
2	Declare Energy Emergency Alert (EEA) Level 1 <sup>4</sup>	0
3	Voluntary Load Curtailment of Market Participants’ facilities.	40 <sup>2</sup>
4	Implement Power Watch	0
5	Schedule Emergency Energy Transactions and arrange to purchase Control Area-to-Control Area Emergency	1,000
6	Voltage Reduction requiring > 10 minutes	125 <sup>3</sup>

## NOTES:

1. Based on Summer Ratings. Assumes 25% of total MW Settlement Only resources <5 MW will be available and respond.
2. The actual load relief obtained is highly dependent on circumstances surrounding the appeals, including timing and the amount of advanced notice that can be given.
3. The MW values are based on a 25,000 MW system load and verified by the most recent voltage reduction test.
4. EEA Levels are described in Attachment 1 to NERC Reliability Standard EOP-011 - Emergency Operations

# Possible Relief Under OP4: Appendix A

OP 4 Action Number	Page 2 of 2 Action Description	Amount Assumed Obtainable Under OP 4 (MW)
7	Request generating resources not subject to a Capacity Supply Obligation to voluntary provide energy for reliability purposes	0
8	5% Voltage Reduction requiring 10 minutes or less	250 <sup>3</sup>
9	Transmission Customer Generation Not Contractually Available to Market Participants during a Capacity Deficiency.  Voluntary Load Curtailment by Large Industrial and Commercial Customers.	5  200 <sup>2</sup>
10	Radio and TV Appeals for Voluntary Load Curtailment Implement Power Warning	200 <sup>2</sup>
11	Request State Governors to Reinforce Power Warning Appeals.	100 <sup>2</sup>
Total		<b>2,520</b>

## NOTES:

1. Based on Summer Ratings. Assumes 25% of total MW Settlement Only resources <5 MW will be available and respond.
2. The actual load relief obtained is highly dependent on circumstances surrounding the appeals, including timing and the amount of advanced notice that can be given.
3. The MW values are based on a 25,000 MW system load and verified by the most recent voltage reduction test.
4. EEA Levels are described in Attachment 1 to NERC Reliability Standard EOP-011 - Emergency Operations