



Rhode Island Energy™

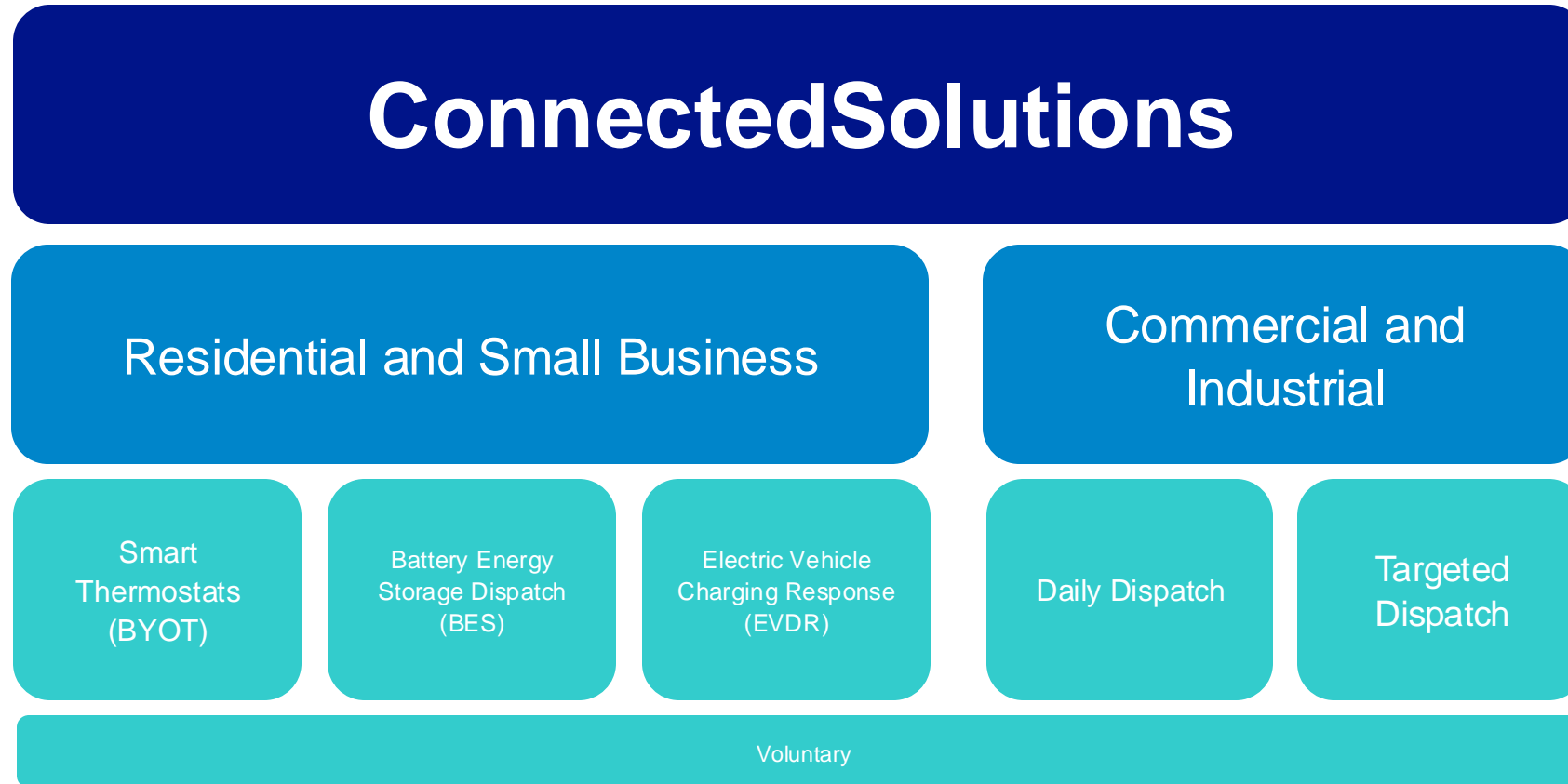
a PPL company

ConnectedSolutions

2024-2026 Electric Demand Response – Summer 2024 Review

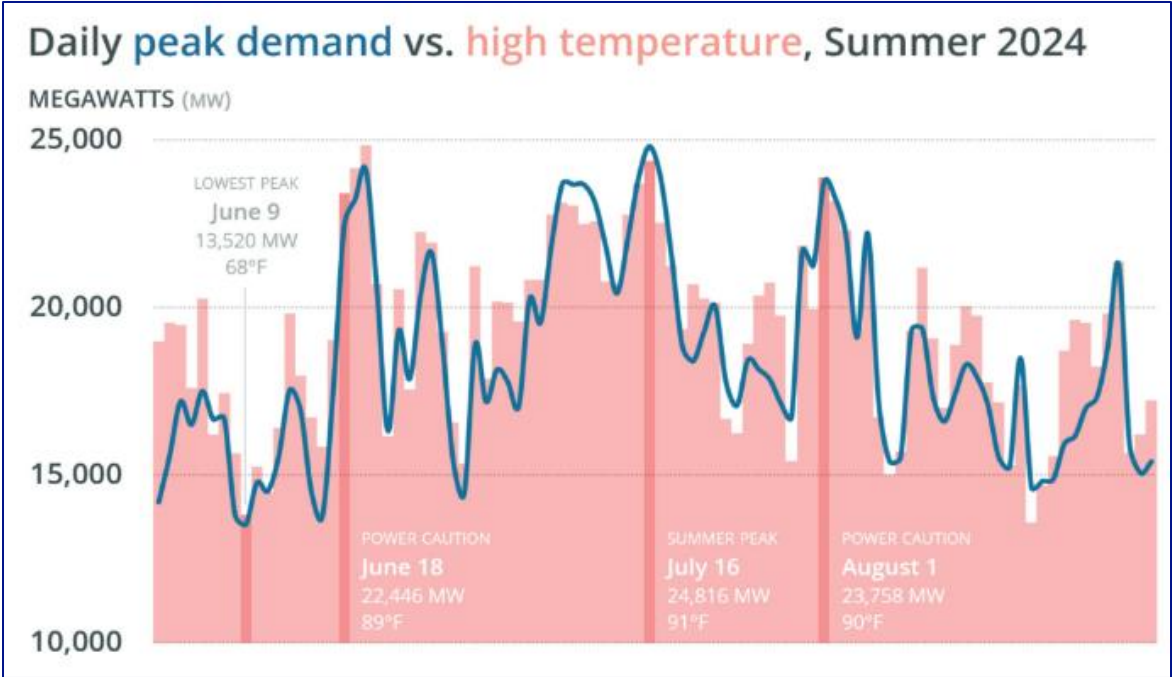
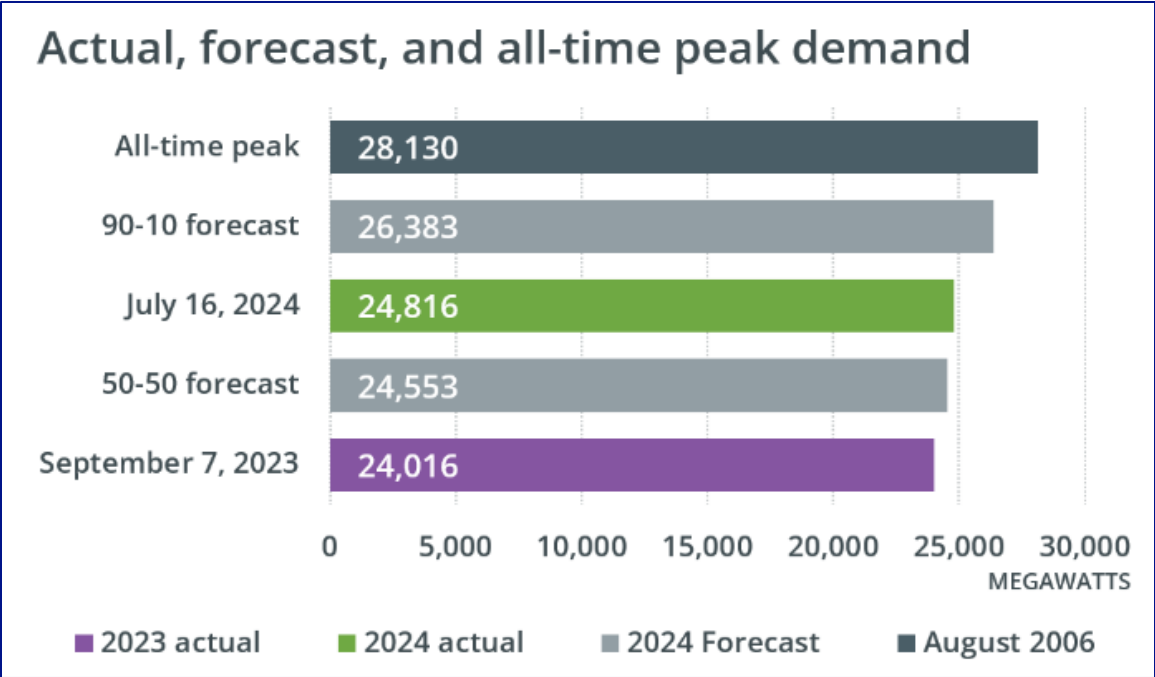
FOR EEC Meeting, April 17, 2025

ConnectedSolutions Program Structure



Notes: **ConnectedSolutions** is a 'program' (shown in navy) with two 'tracks,' the Residential and Small Business track and the Commercial and Industrial track (shown in blue). Each track has a number of 'pathways' through which to participate (shown in teal).

Summer 2024 in Review



Source: [ISO NE, Summer 2024 recap: Grid reliability maintained through heat waves – ISO Newswire](#)

Summer 2024 RIE DR Events



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Program Offering	Total # of Events in 2024
BYOT (no more than 15 events)	15
BES (no more than 60 events)	42
Daily Dispatch (no more than 60 events)	41
Targeted Dispatch (2-8 events)	4

Jun-24

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

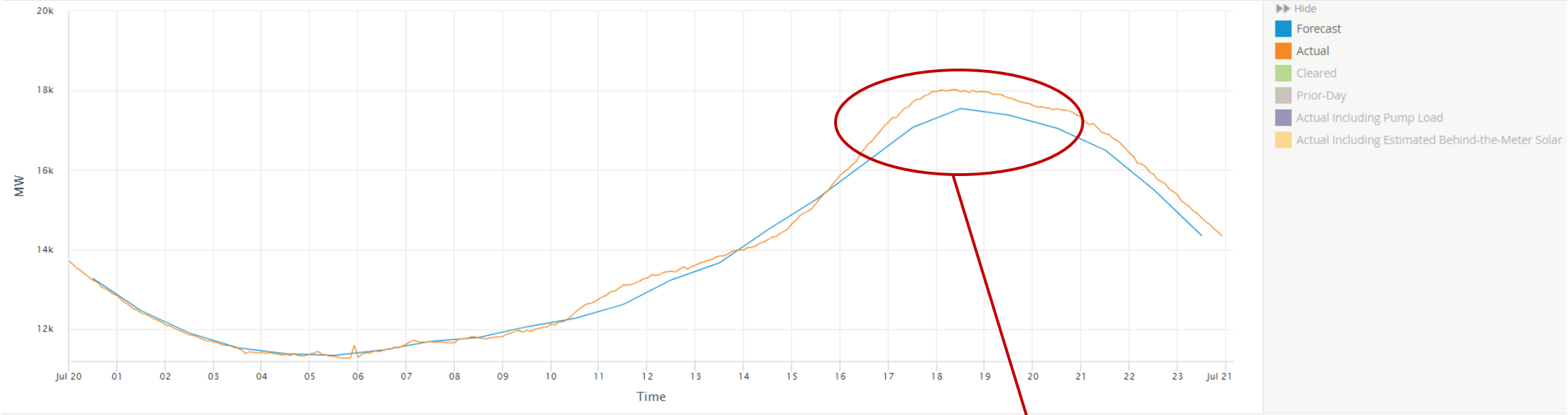
Jul-24

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Aug-24

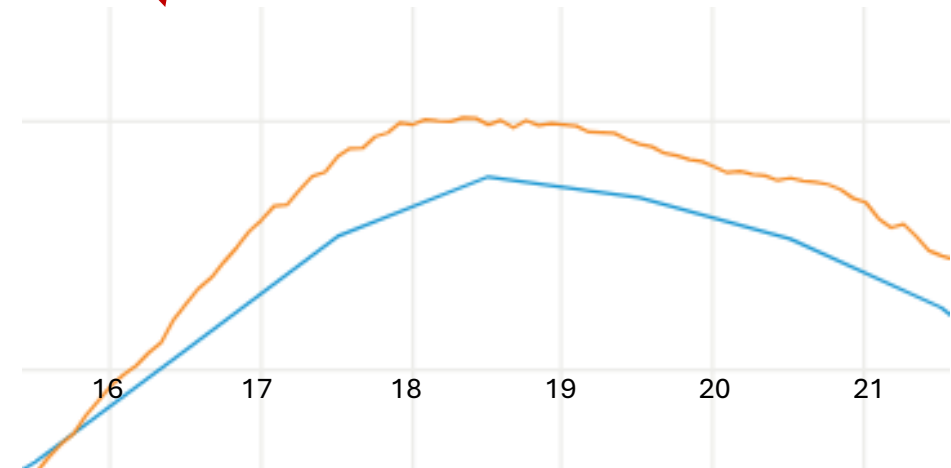
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Date: 07/20/2024 ▼



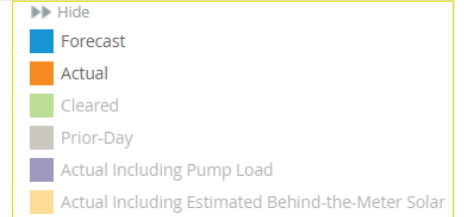
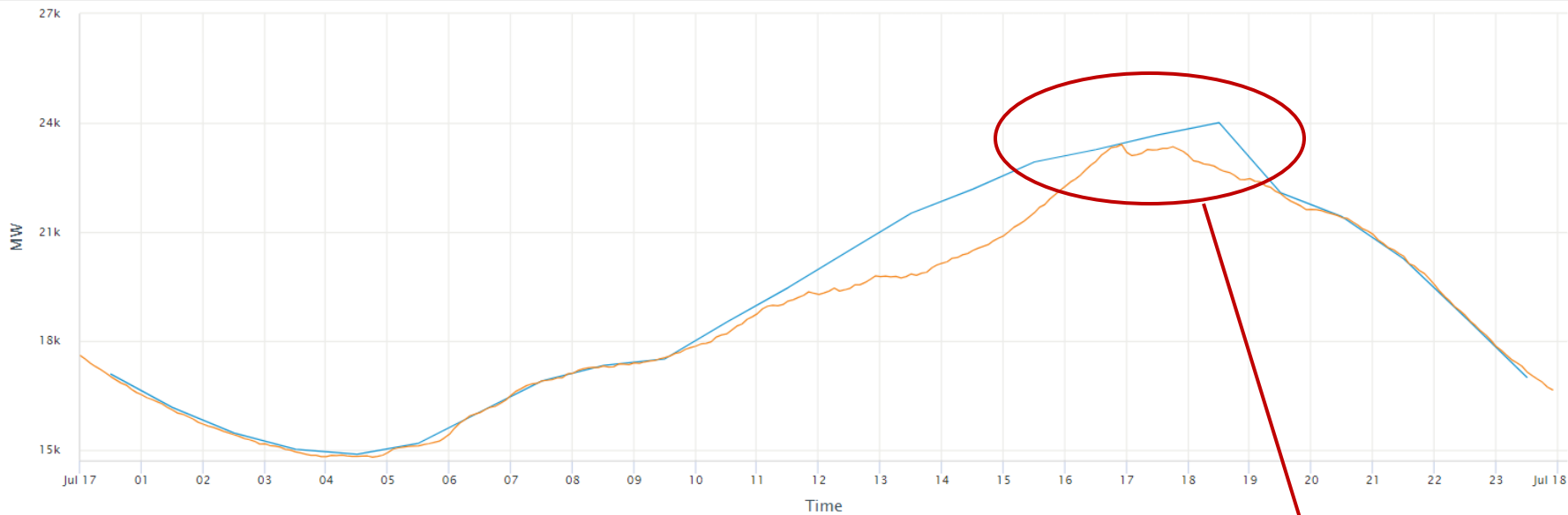
7/20 Example of Non-CS Event Day Load:

- Forecasted Peak: 17,550 MW
- Actual Peak: 18,230 MW (+680 MW)
- Pathways Dispatched: None



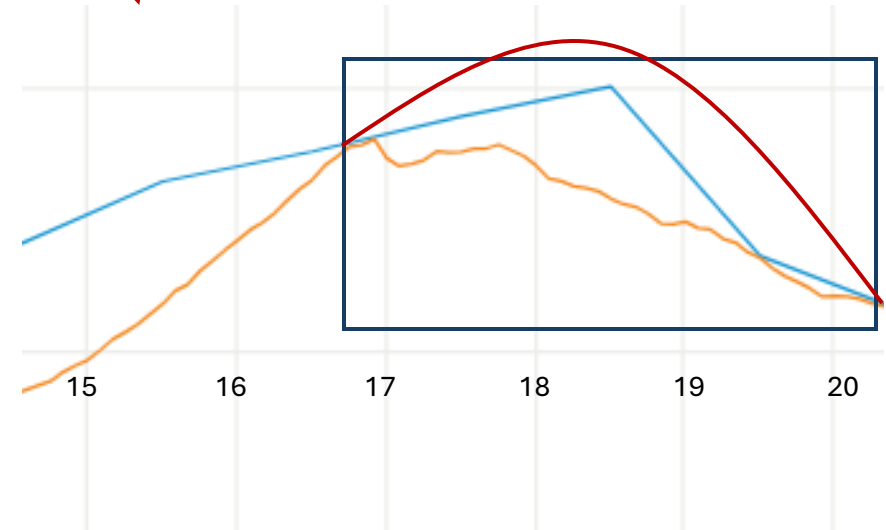
Non-Event Day Example

Date: 07/17/2024 ▼



7/17 Example of 2024 CS Event Day Load:

- Forecasted Peak: 24,000 MW
- Actual Peak: 23,400 MW (-600 MW)
- Pathways Dispatched:
 - Resi Battery 17:00-19:00
 - Resi BYOT 17:00-20:00
 - C&I Daily Dispatch 17:00-19:00
 - C&I Targeted Dispatch 17:00-20:00

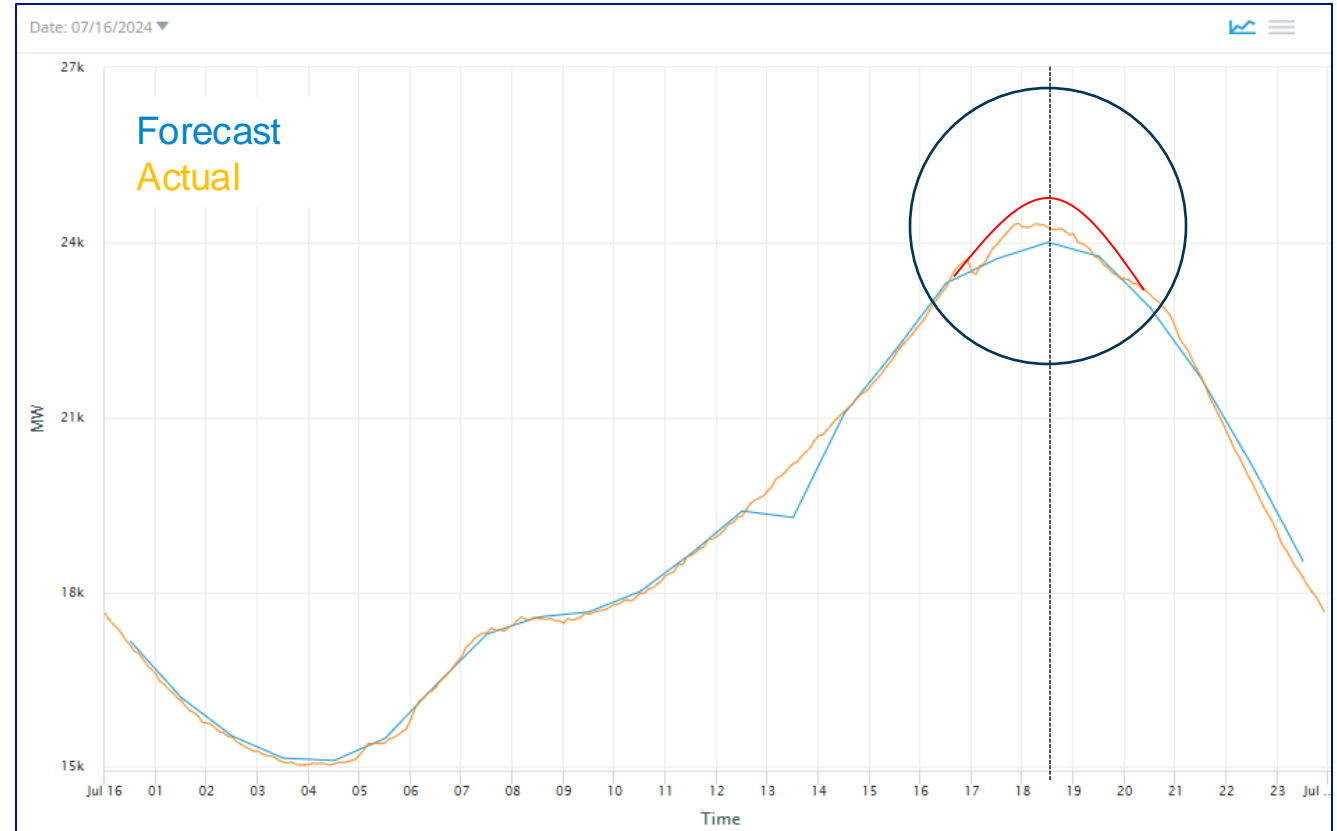
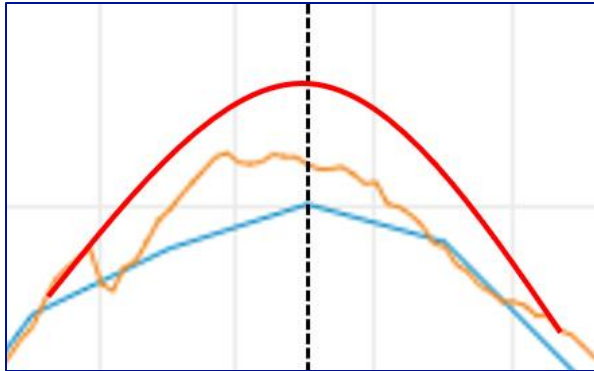


Event Day Example


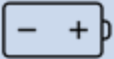

2024 Summer Total Flexible Load

Program Offering	Average Peak Hour Load Shed (MW)
BYOT	10.04
Battery	5.13
Targeted Dispatch	11.91
Daily Dispatch	16.14
TOTAL	43.22

Average peak hour load shed is based on actual RI performance during the July 16 events.



2024 Summer Residential Offering Results

Residential Program Offering	Target (End of 2024 Calendar Year)		Summer 2024 Results (As of September 30, 2024)		Progress-to-date (As of December 31, 2024)	
	Device Enrollments	Load Shed (per device)	Device Enrollments	Load Shed (per device)	Device Enrollments	Load Shed (per device)
 BYOT	15,379	0.65 kW	12,828	0.67 kW	14,163 92% of Target Achieved	0.67 kW Exceeded Target
 BES	862	5.84 kW	880	5.29 kW	926 107% of Target Achieved	5.29 kW Below Target
 EVDR	500	0.32 kW	0	0 kW	131 26.2% of Target Achieved	0 kW Program launched after summer season

2024 Summer C&I Offering Results

C&I Program Offering	Target Load Shed (MW)	Expected Load Shed (MW)*	Actual Summer 2024 Results (MW) (As of September 30, 2024)
Targeted Dispatch	12.94	12.86	11.70 91% Realized
Daily Dispatch	16.11	15.37	11.38 74% Realized
TOTAL	29.05	28.23	23.08 MW 82% Realized

*Based on historical performance results and new 2024 enrollments, the Company had estimated that C&I DR participants would deliver about 12.9 and 15.4 MW of Targeted and Daily Dispatch curtailment, respectively.

144 enrolled C&I customers

- 11 enrolled in Daily Dispatch only
- 86 enrolled in Targeted Dispatch only
- 47 enrolled in both Daily and Targeted Dispatch

2024 Estimated Costs

Program Offering	Projected 2024 Customer Incentives	Estimated 2024 Customer Incentives	Projected 2024 Programmatic Budget	Estimated 2024 Cost Incurrence
Residential	\$2,614,400	\$2,672,434 102% of budgeted costs	\$3,418,784	\$3,640,167 106% of budgeted costs
C&I	\$5,250,576	\$3,820,336 73% of budgeted costs	\$5,647,131	\$4,127,876 73% of budgeted costs
TOTAL	\$7,864,976	\$6,492,770 83% of budgeted costs	\$9,065,915	\$7,768,044 87% of budgeted costs

Questions?



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