



Demand Management Summer 2024 Review

January 22, 2025

Agenda

1. Initiatives Introductions (Triennial Plan 5)
 - a. Demand Response
 - b. Small Battery
 - c. EV Managed Charging
 - d. Large Battery
2. Summer 2024 Results

I. Demand Response

- Three program partners: C-Power, CES, Enersponse
- Customers shed load when requested
- 194 customer locations
 - Big - Pellet mills, lumber mills, water treatment plants
 - Medium - manufacturers, universities
 - Smaller - retail stores
- Pay for performance

II. Small Battery Initiative

- Target existing small battery owners (not a reason to BUY batteries)
- We notify business/homeowner of event beforehand
- Customer can opt out of any event
- We remotely discharge batteries, typically for 3 hours, between 3-8pm on peak days
- Pay for performance
- 90%+ Tesla Powerwalls
- 132 enrollments (goal = 125)
 - 105 successfully discharged

III. EV Managed Charging

- Targeting existing EV owners
- Notified EV owner beforehand
- Customer can opt out of any event
- We remotely delay charging until 10pm
- Pay for enrollment, not performance
- Incentive = \$50 when enroll, plus \$50/yr to participate
- 145 EVs/chargers

Demand Response Summer 2024 Events

Event	Weekday	Date	Time
1	Thursday	6/20/2024	5-8 PM
2	Tuesday	7/9/2024	5-8 PM
3	Monday	7/15/2024	5-8 PM
4	Tuesday	7/16/2024	5-8 PM
5	Wednesday	7/17/2024	4-7 PM

Summer 2024 Peak

Small Battery Management Summer 2024 Events

	Weekday	Date	Time	Duration	Power Discharged (per hour)
1	Thursday	6/20/2024	3-8 PM	5 hours	24 kW*
2	Monday	7/1/2024	5-8 PM	3 hours	219 kW
3	Monday	7/8/2024	5-8 PM	3 hours	21 kW*
4	Tuesday	7/9/2024	5-8 PM	3 hours	151 kW
5	Wednesday	7/10/2024	5-8 PM	3 hours	218 kW
6	Monday	7/15/2024	5-8 PM	3 hours	247 kW
7	Tuesday	7/16/2024	5-8 PM	3 hours	252 kW
8	Wednesday	7/17/2024	5-8 PM	3 hours	220 kW
9	Wednesday	8/28/2024	5-8 PM	3 hours	288 kW

Summer 2024 Peak

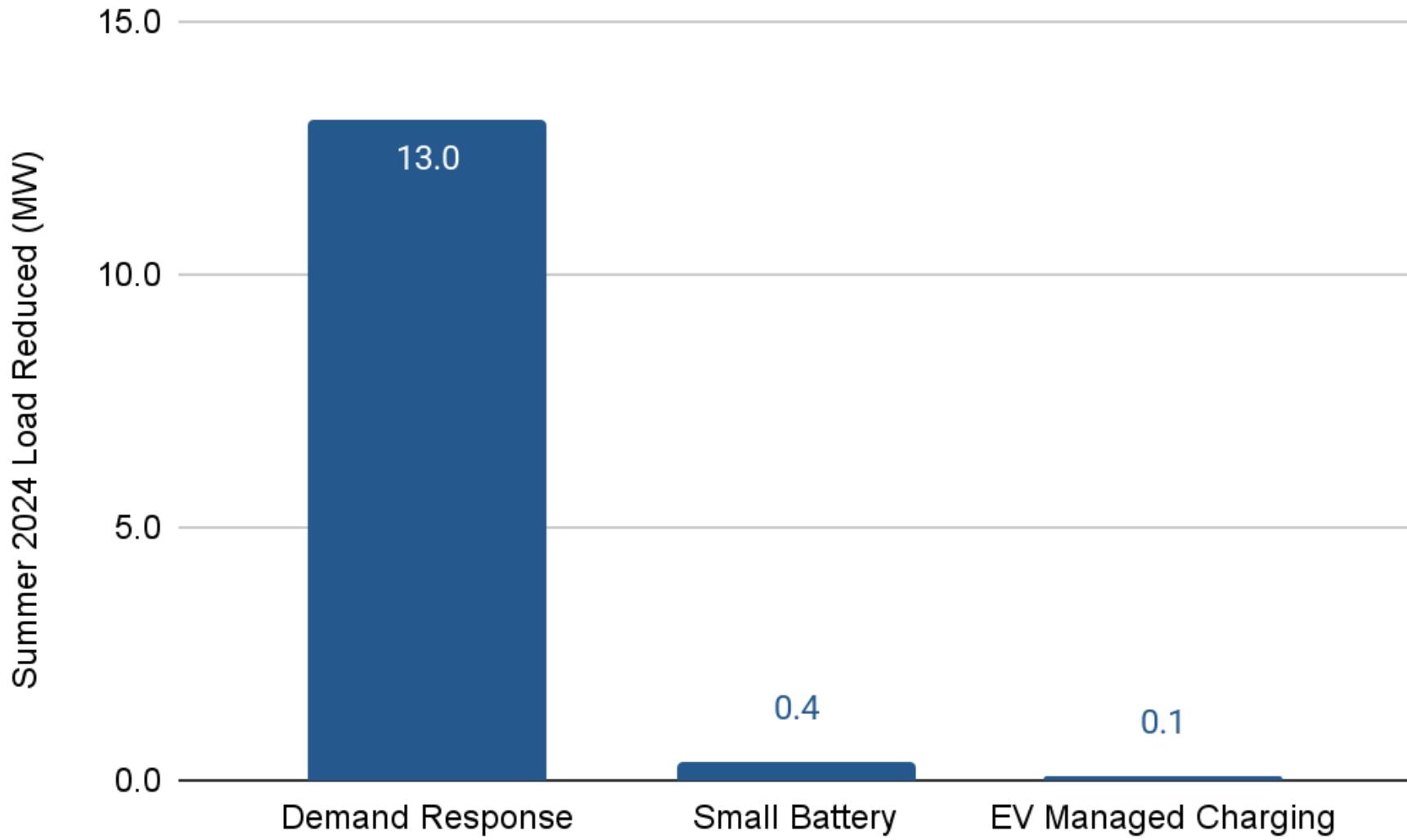
*6/20 and 7/8 most Tesla batteries did not respond

EV Managed Charging Summer 2024 Events

	Weekday	Date	Time	Duration	Power Deferred (per hour)
1	Thursday	6/20/2024	5-10 PM	5 hours	25 kW
2	Monday	7/1/2024	5-10 PM	5 hours	26 kW
3	Monday	7/8/2024	6-11 PM	5 hours	15 kW
4	Tuesday	7/9/2024	5-10 PM	5 hours	15 kW
5	Wednesday	7/10/2024	5-10 PM	5 hours	11 kW
6	Monday	7/15/2024	5-10 PM	5 hours	34 kW
7	Tuesday	7/16/2024	5-10 PM	5 hours	22 kW
8	Wednesday	7/17/2024	5-10 PM	5 hours	14 kW
9	Wednesday	8/28/2024	5-10 PM	5 hours	51 kW

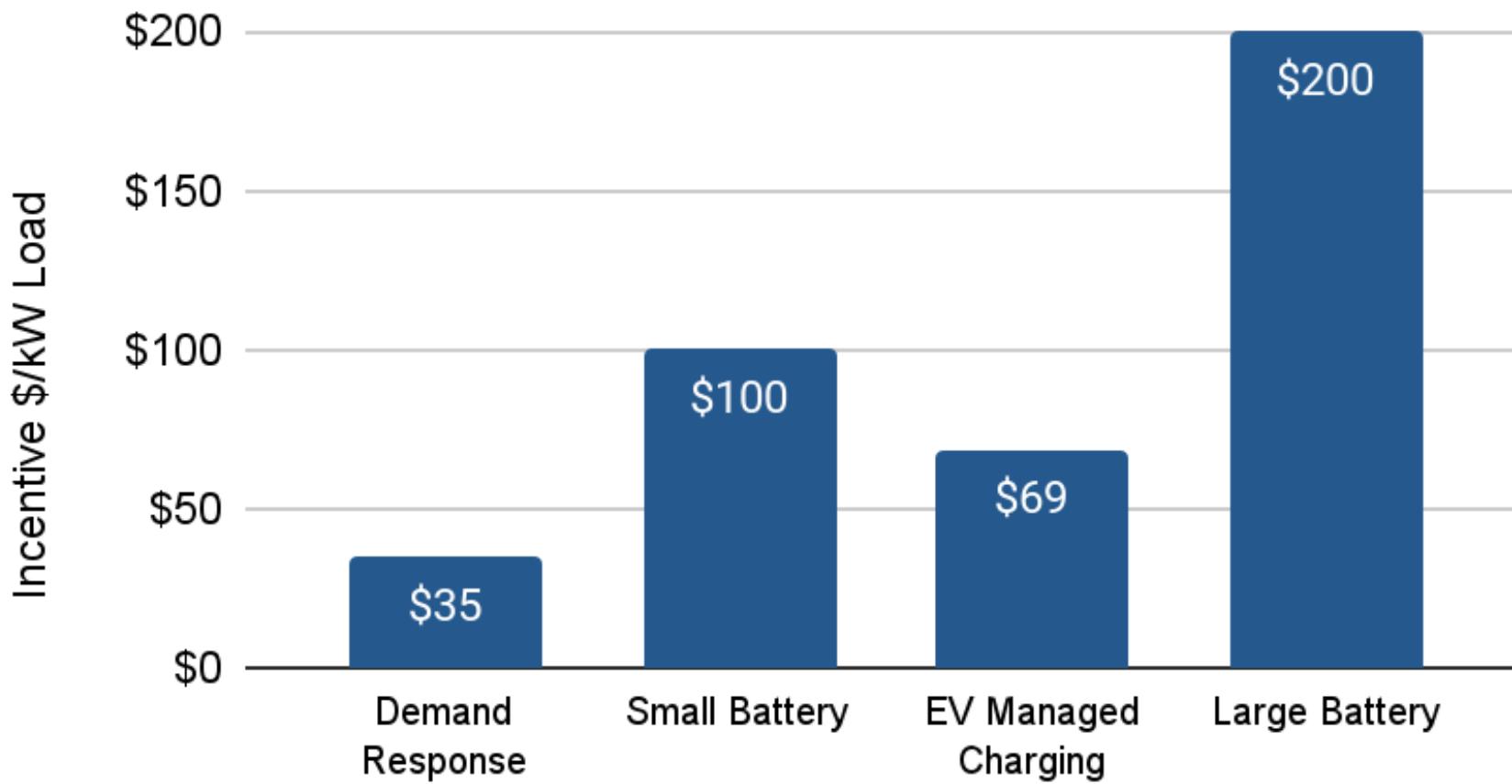
Summer 2024 Peak

Average Load Impact by Initiative Summer 2024

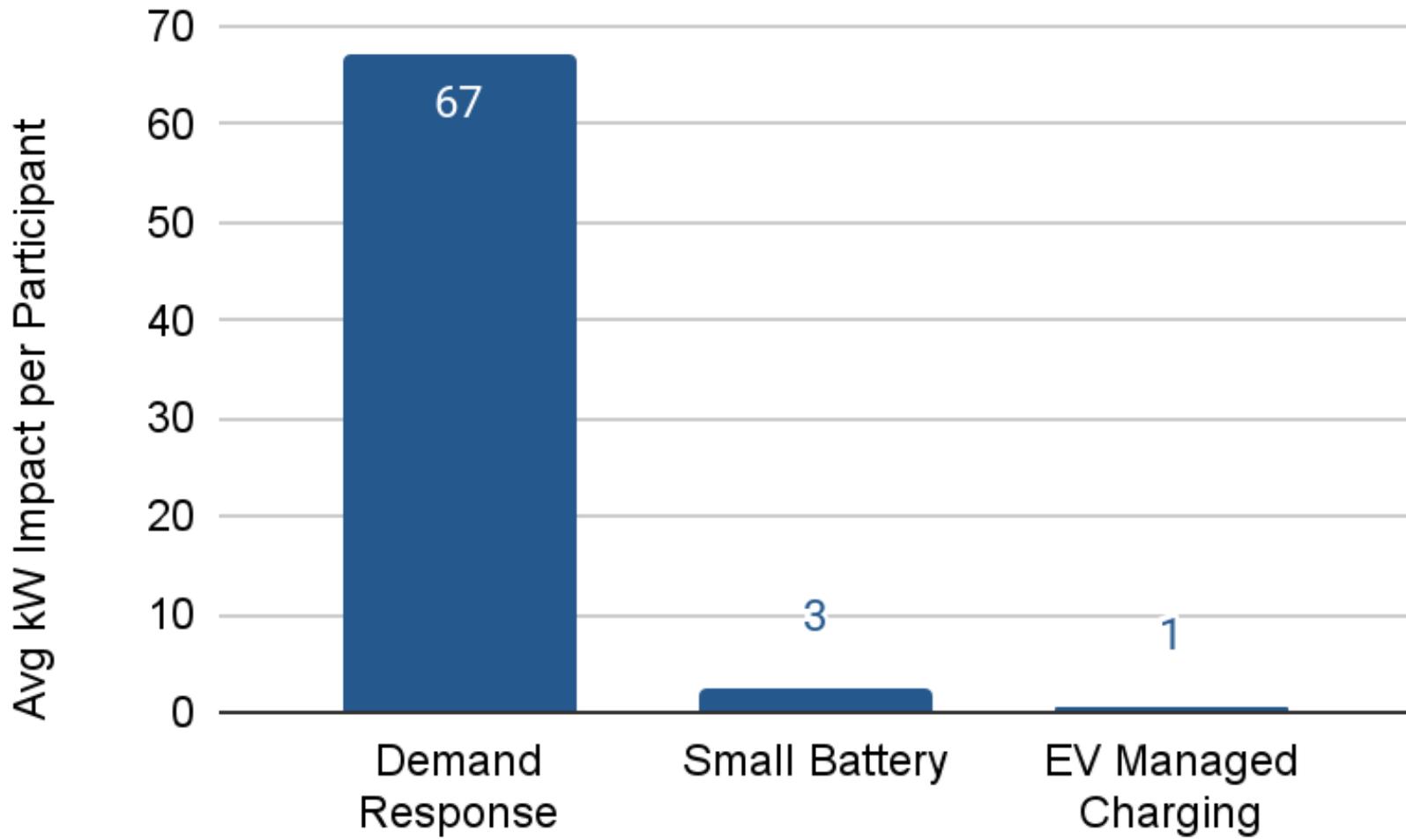


What Do We Pay For A kW of Load? Summer 2024

Incentive \$/kW Load

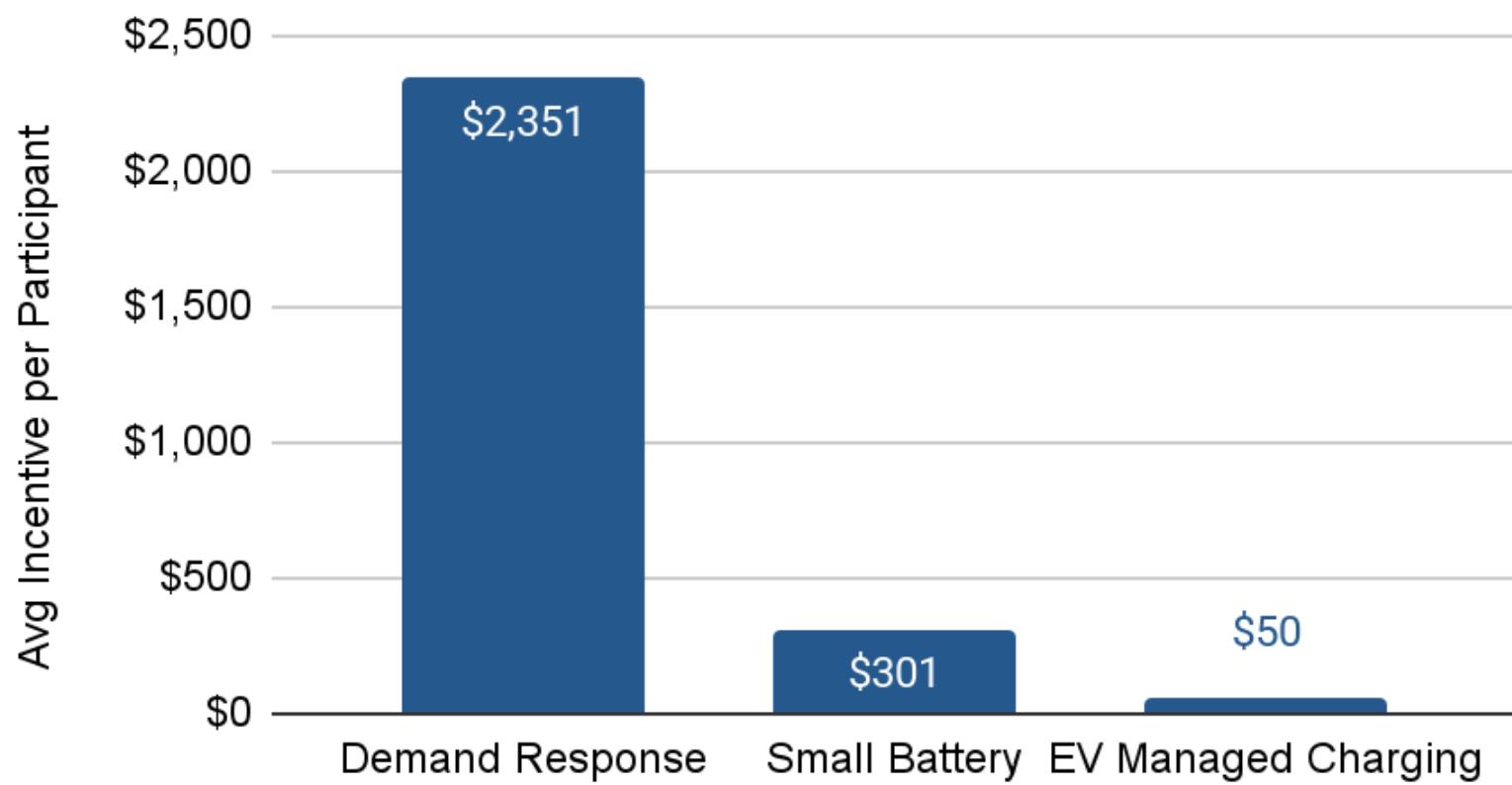


Load Impact By Participant Summer 2024

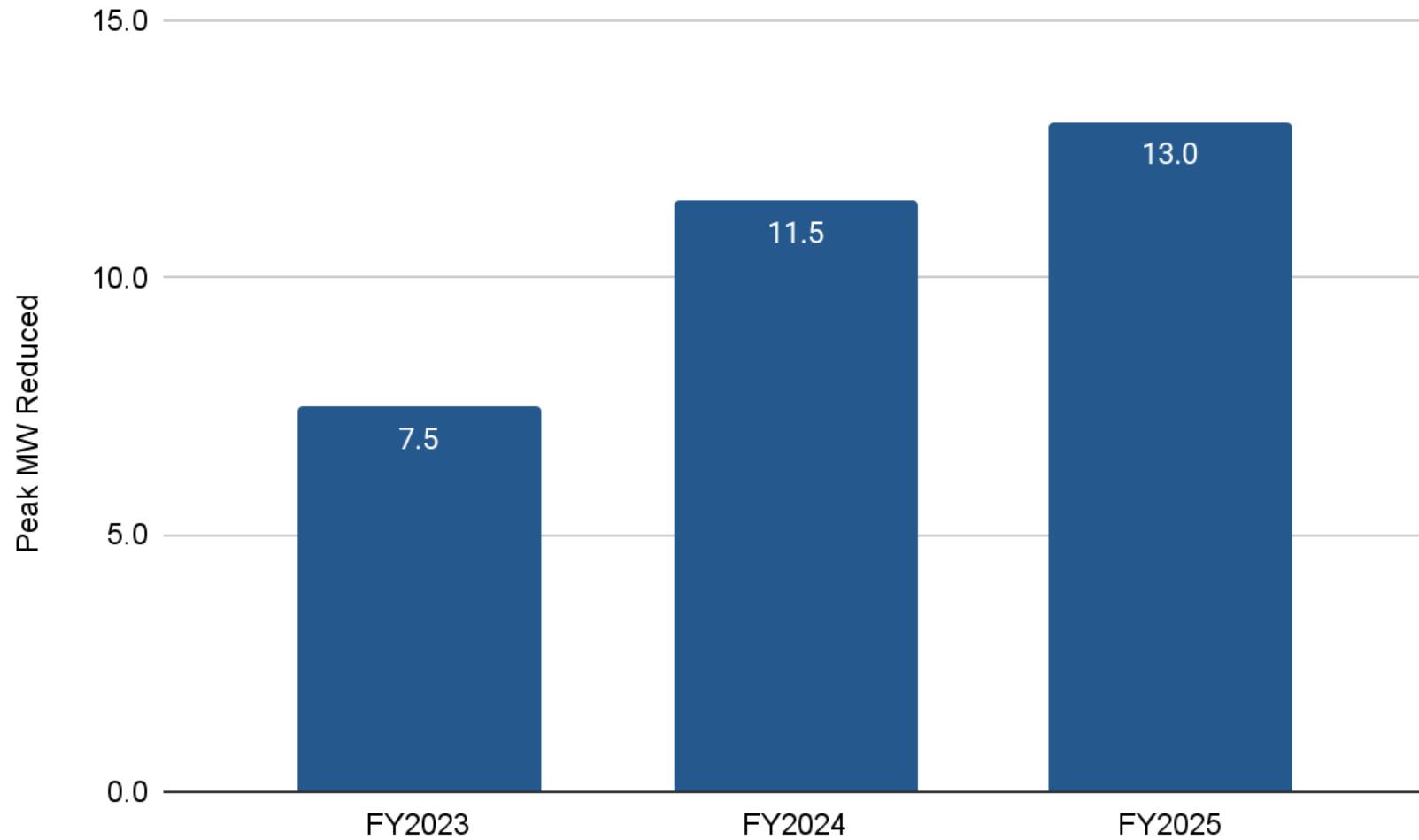


Incentive per Participant Summer 2024

Average Incentive for Participation



Demand Response Curtailments Over Time



Questions?