



# 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

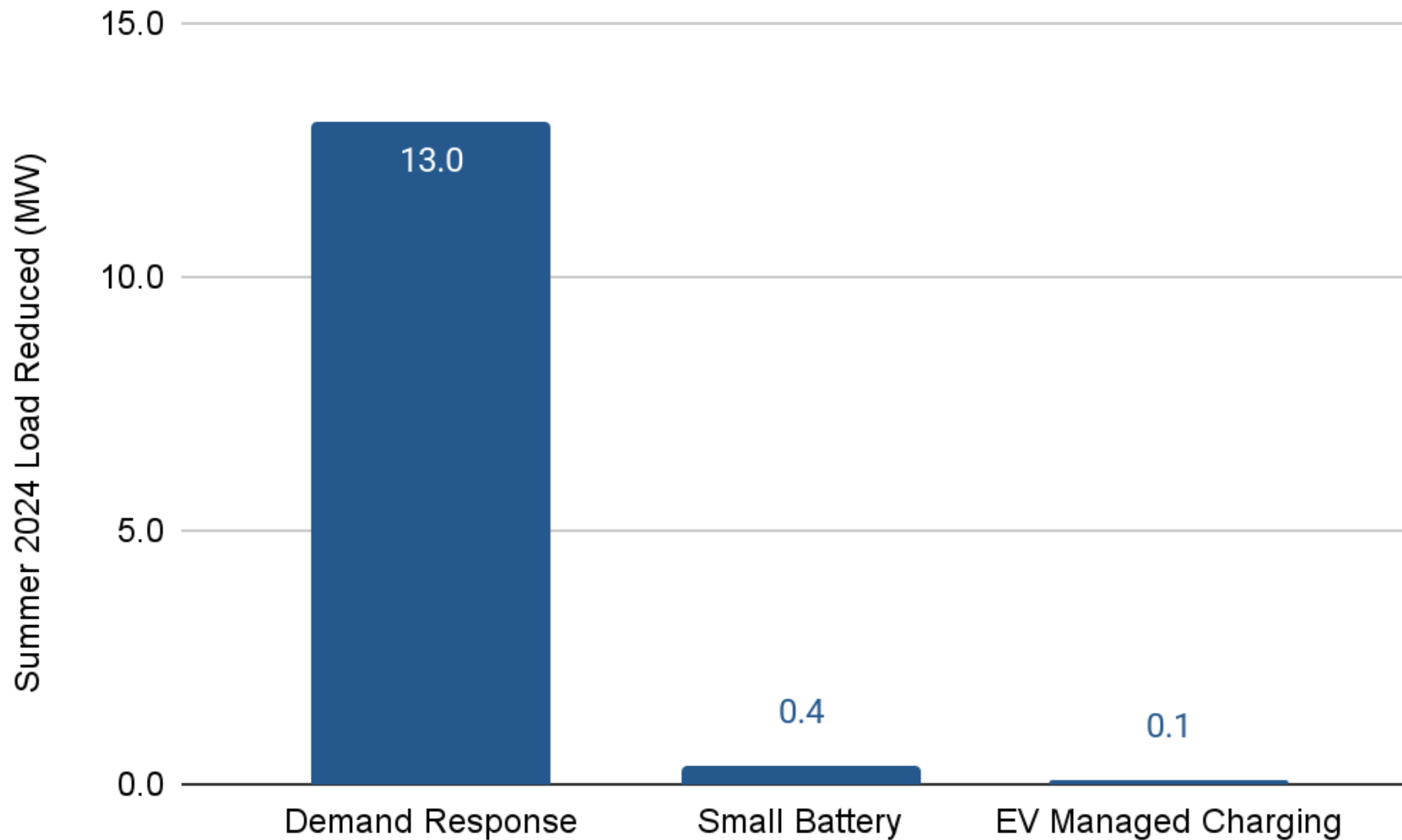
# EV Managed Charging Summer 2024 Events

	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**

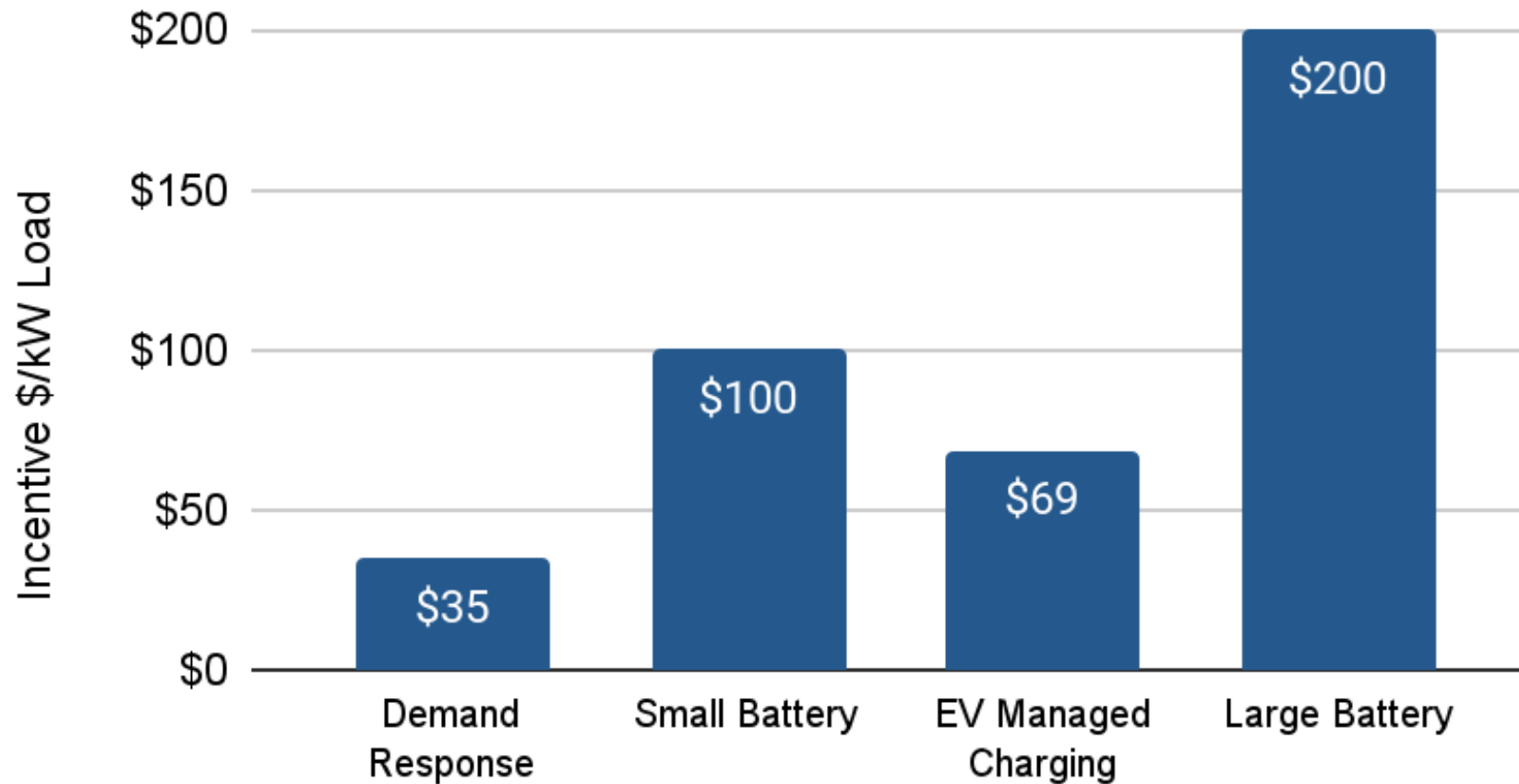


# Average Load Impact by Initiative Summer 2024

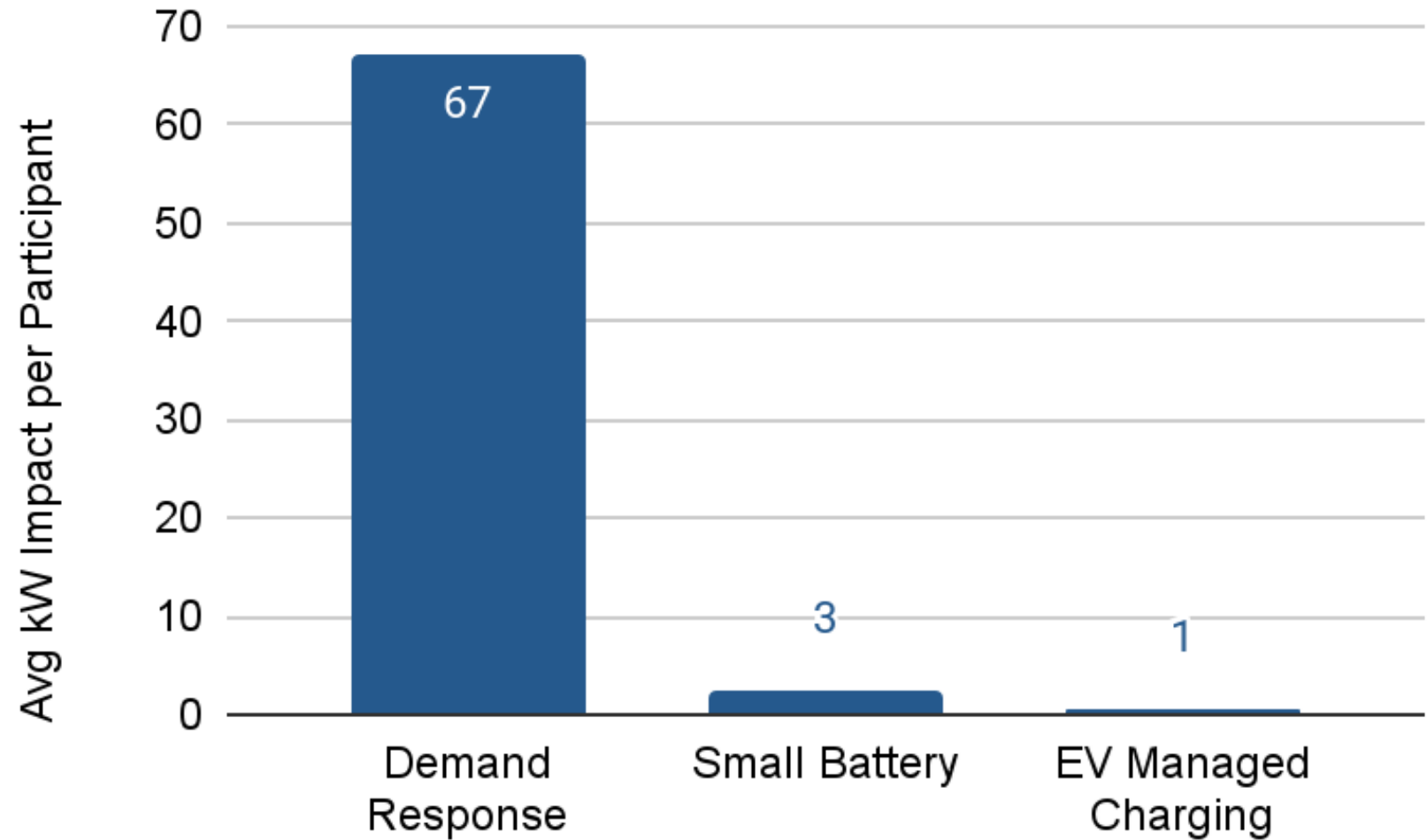


# What Do We Pay For A kW of Load? Summer 2024

## Incentive \$/kW Load

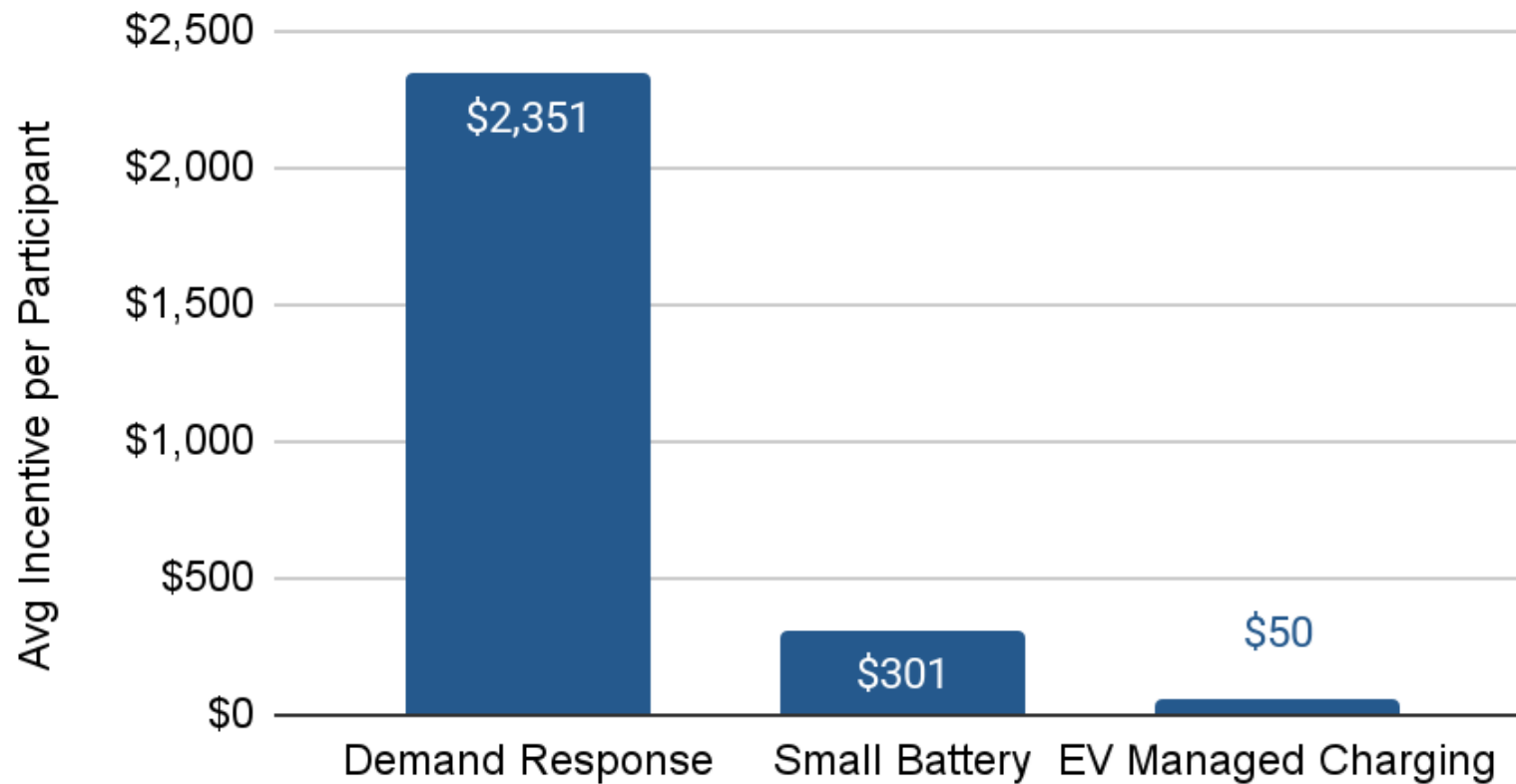


# Load Impact By Participant Summer 2024

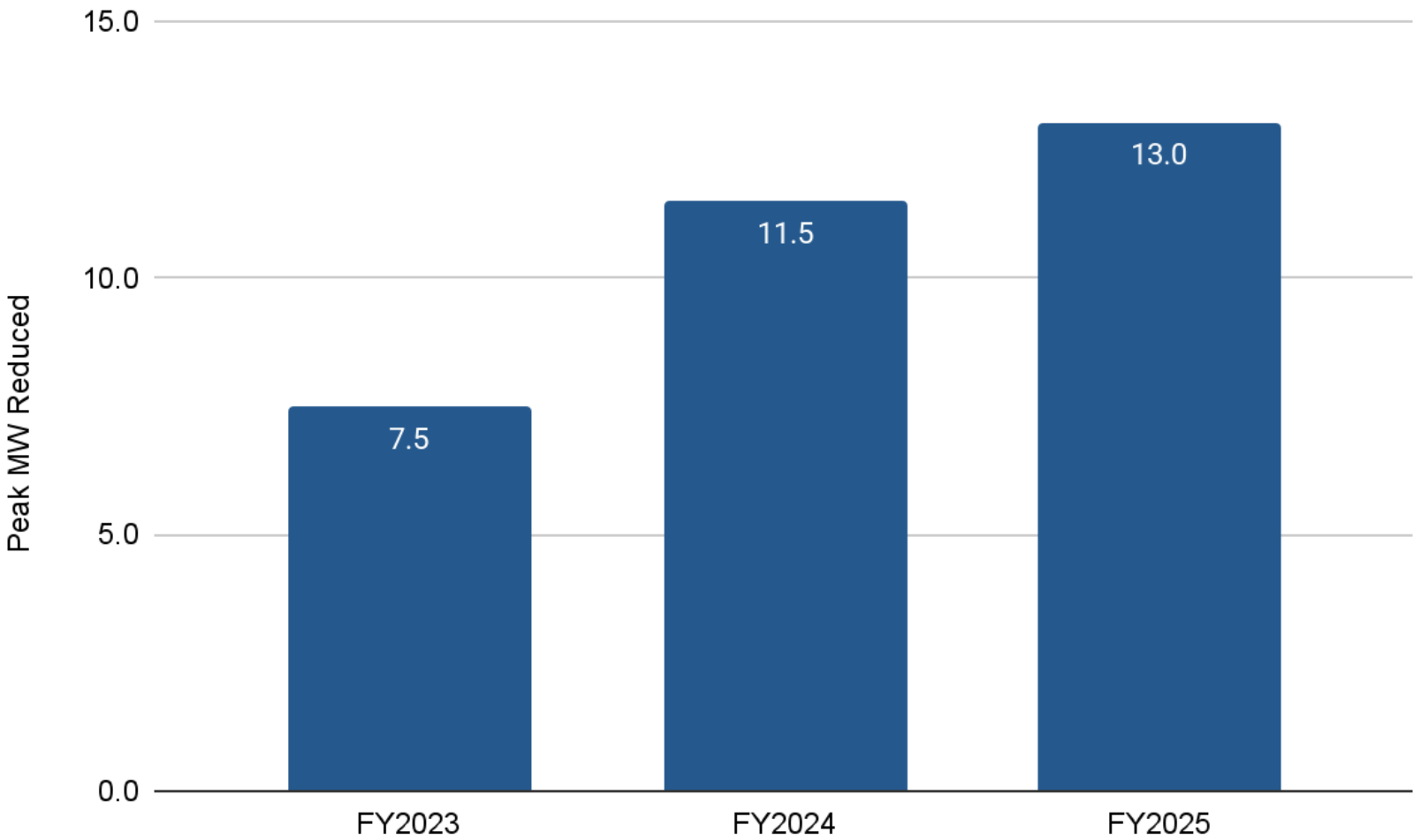


# Incentive per Participant Summer 2024

## Average Incentive for Participation



# Demand Response Curtailments Over Time



Questions?