



NORTHWEST  
STRATEGIC ENERGY MANAGEMENT  
COLLABORATIVE

# Navigating Changing Seas

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*Fall Workshop*

*October 19-21, 2021*

*- Virtual -*





# California's Industrial SEM Evaluation

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**STRATEGIC ENERGY MANAGEMENT  
COLLABORATIVE**

# Speaker Introductions



Josh Weissert, P.E., CMVP

Principal Engineer

Energy 350

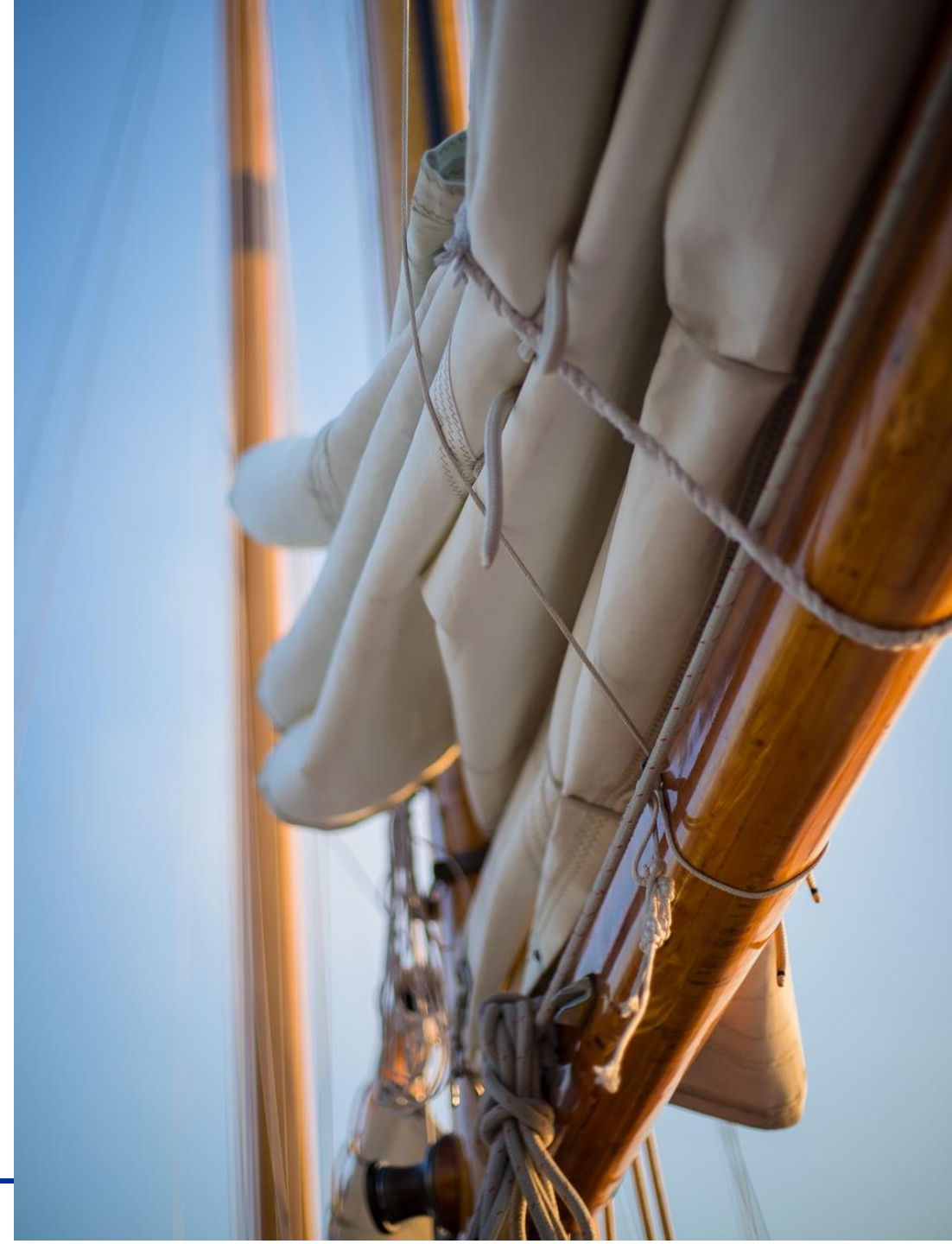
[josh@energy350.com](mailto:josh@energy350.com)

503-830-6075



# Program Overview

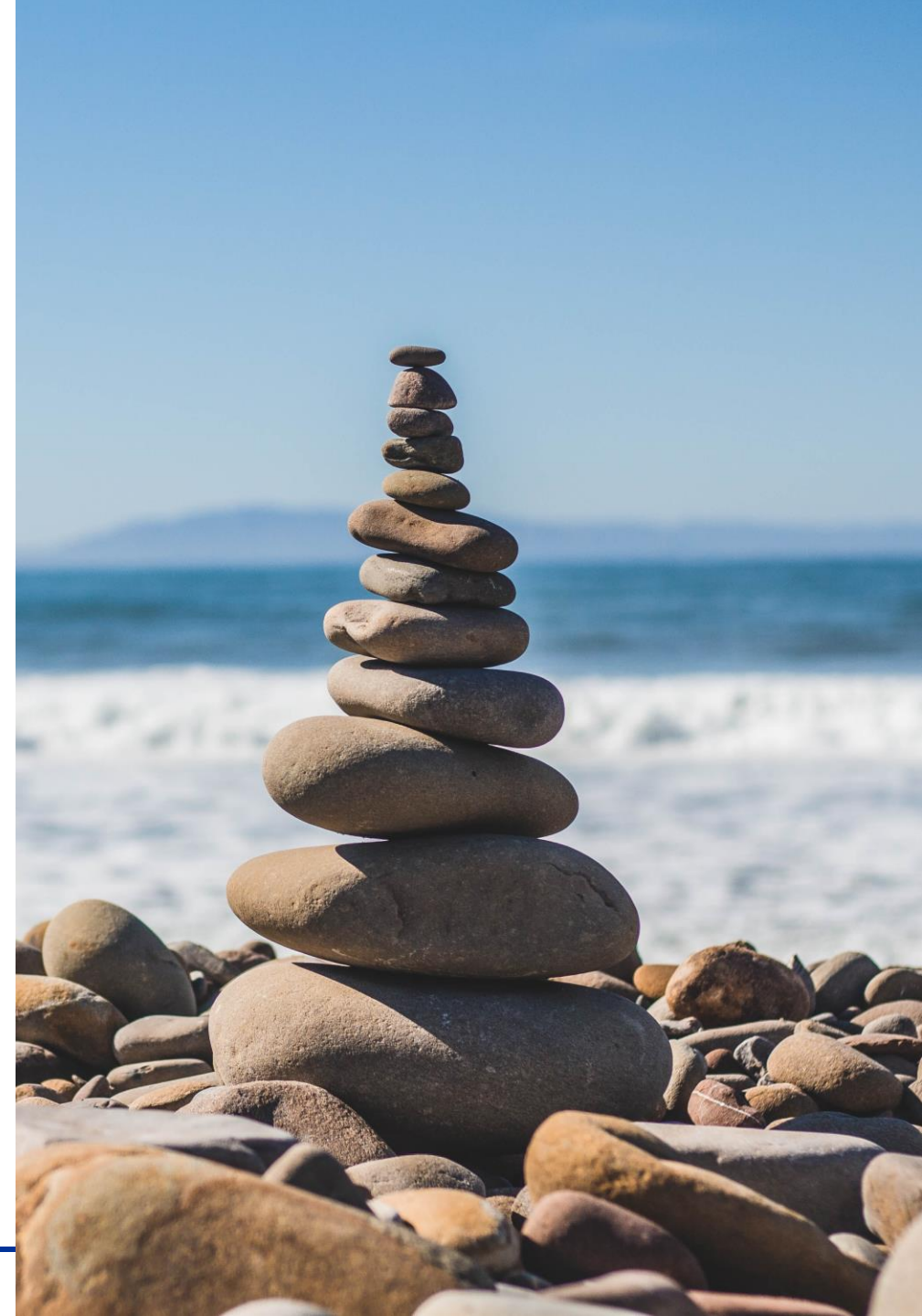
- Guidelines developed at a statewide level for each PA to apply
- 37 industrials enrolled in California's first SEM cohorts, in 2018
  - Two years of engagement
  - Four program administrators





# Evaluation Overview

- Early Feedback Evaluation
  - 15 participants sampled
    - Hypothesis Model Review
    - Opportunity Register Review
  - Statewide Guideline Review
- Impact Evaluation
  - 30 participants sampled
    - Gross savings evaluation
    - Net savings evaluation



# Evaluation Perspectives

- Combined early feedback and impact evaluation allowed a parallel effort between evaluators, implementers and administrators.
- Evaluators were accessible by the programs and implementers regularly.
  - Monthly statewide meetings.
  - Collaborative discussions on policy and guidelines.



# Early Feedback Results

- Influential to the future two-year SEM cycles (Cycle 2, Cycle 3).
- Influential to the future Cycle 1, new cohorts.
- Provided feedback timely on developing implementation and evaluation challenges.
- Proposed guideline revisions influencing the development of a revised M&V guide.



## Early Feedback Results –Cont’d

- Appropriately tested the new guidelines to discover the unknowns.
- Emphasized the evaluation of “other” aspects
  - Workshops & engagement
  - Energy management practices
  - Reporting
  - Integrated Demand Side Management
    - Demand Savings





# Industrial SEM Program Claims

		2019 Claims	2020 Claims
PG&E (PGE21030)	kW	0	1,732
	kWh	8,246,412	19,899,314
	Therm	250,693	1,481,701
SCE (SCE-13-SW-003D)	kW	0	1,044
	kWh	7,904,209	7,770,497
	Therm	225,386	0
SCG (SCG3714)	kW	0	0
	kWh	0	0
	Therm	209,596	390,505
SDG&E (SDGE3227)	kW	0	235
	kWh	2,698,523	1,828,338
	Therm	29,129	50,571

Total kW	3,011
Total kWh	48,347,293
Total Therms	2,637,580

Source - <https://cedars.sound-data.com/>

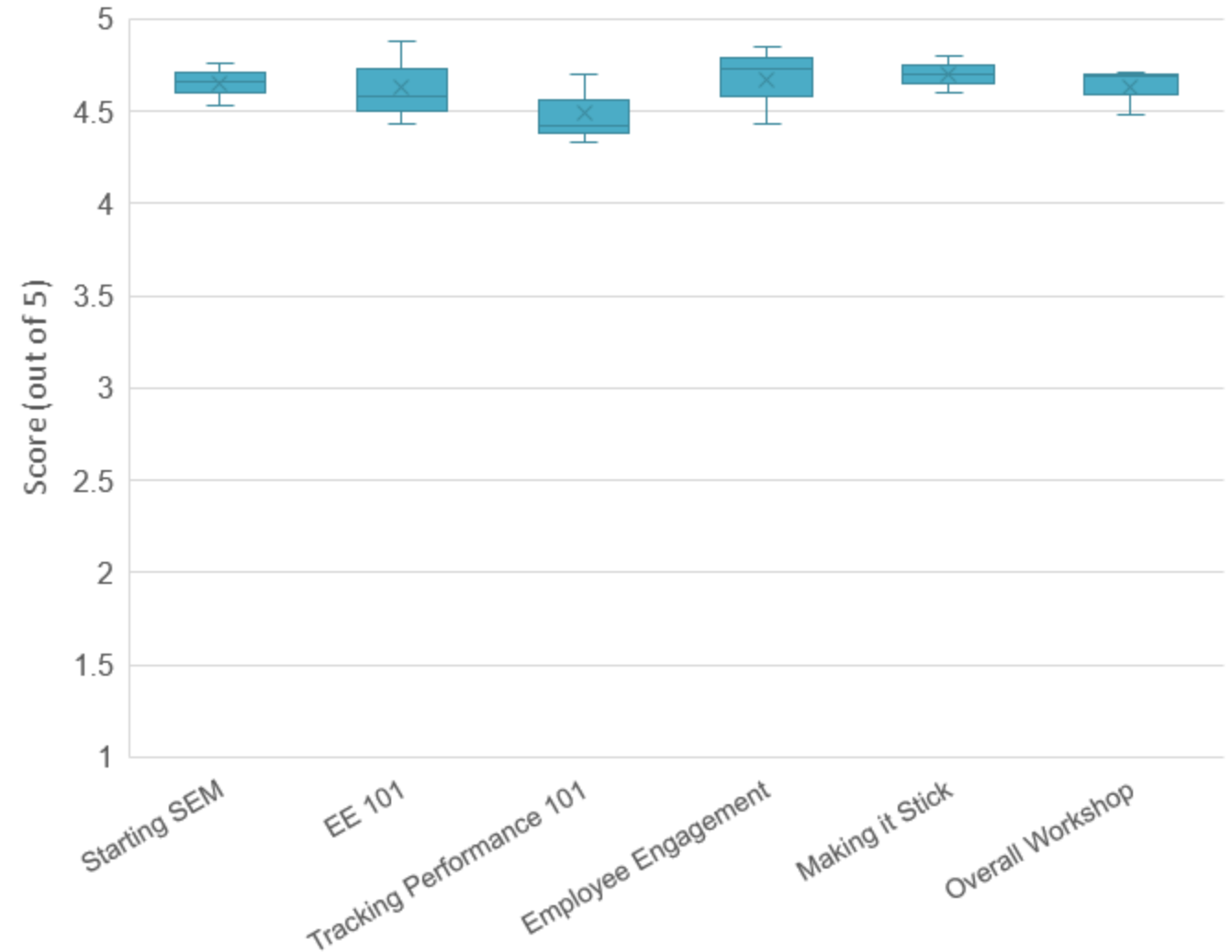
Accessed 10/5/2021



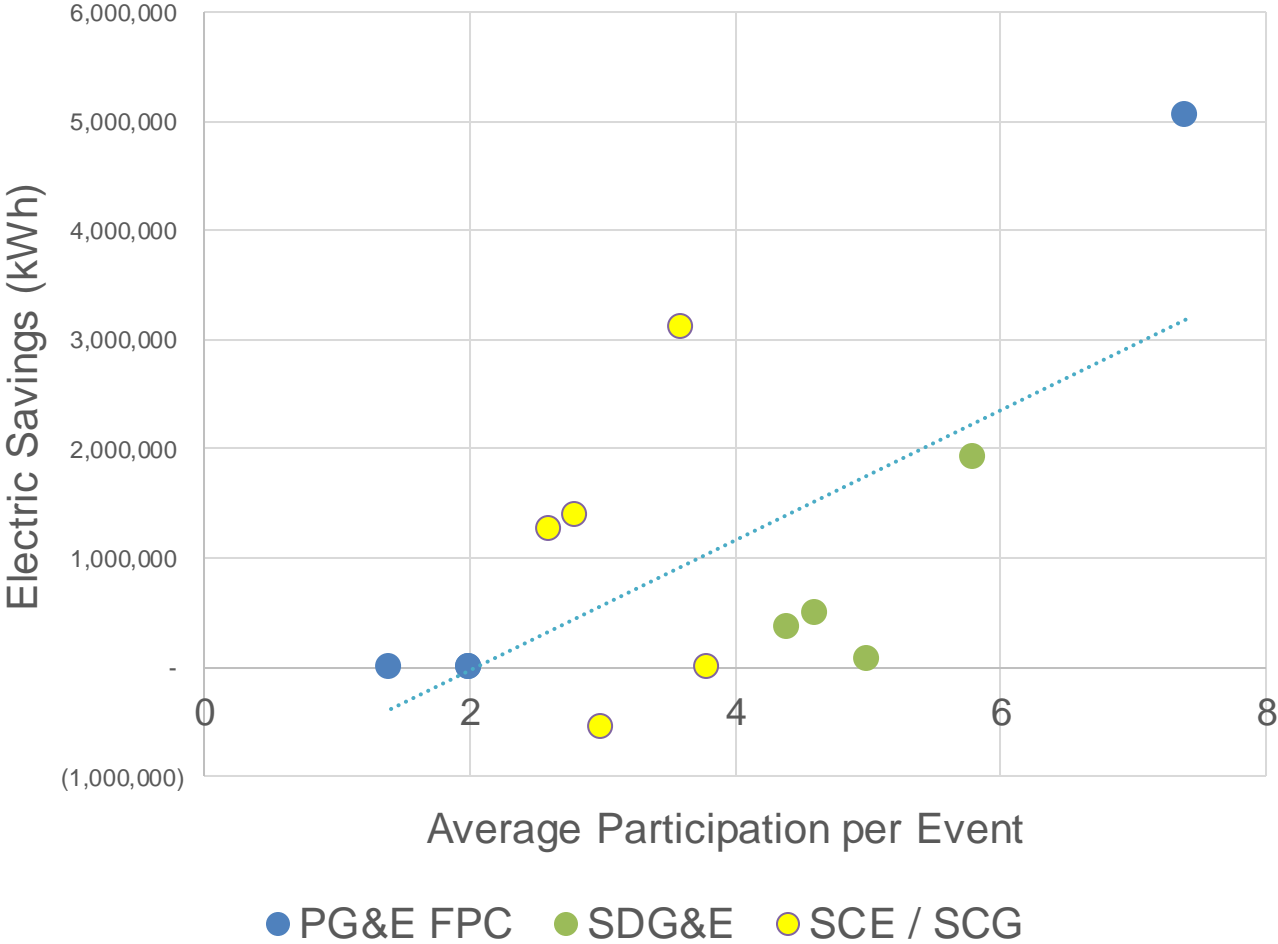
# Early Feedback Highlights



# High Levels of Participant Satisfaction

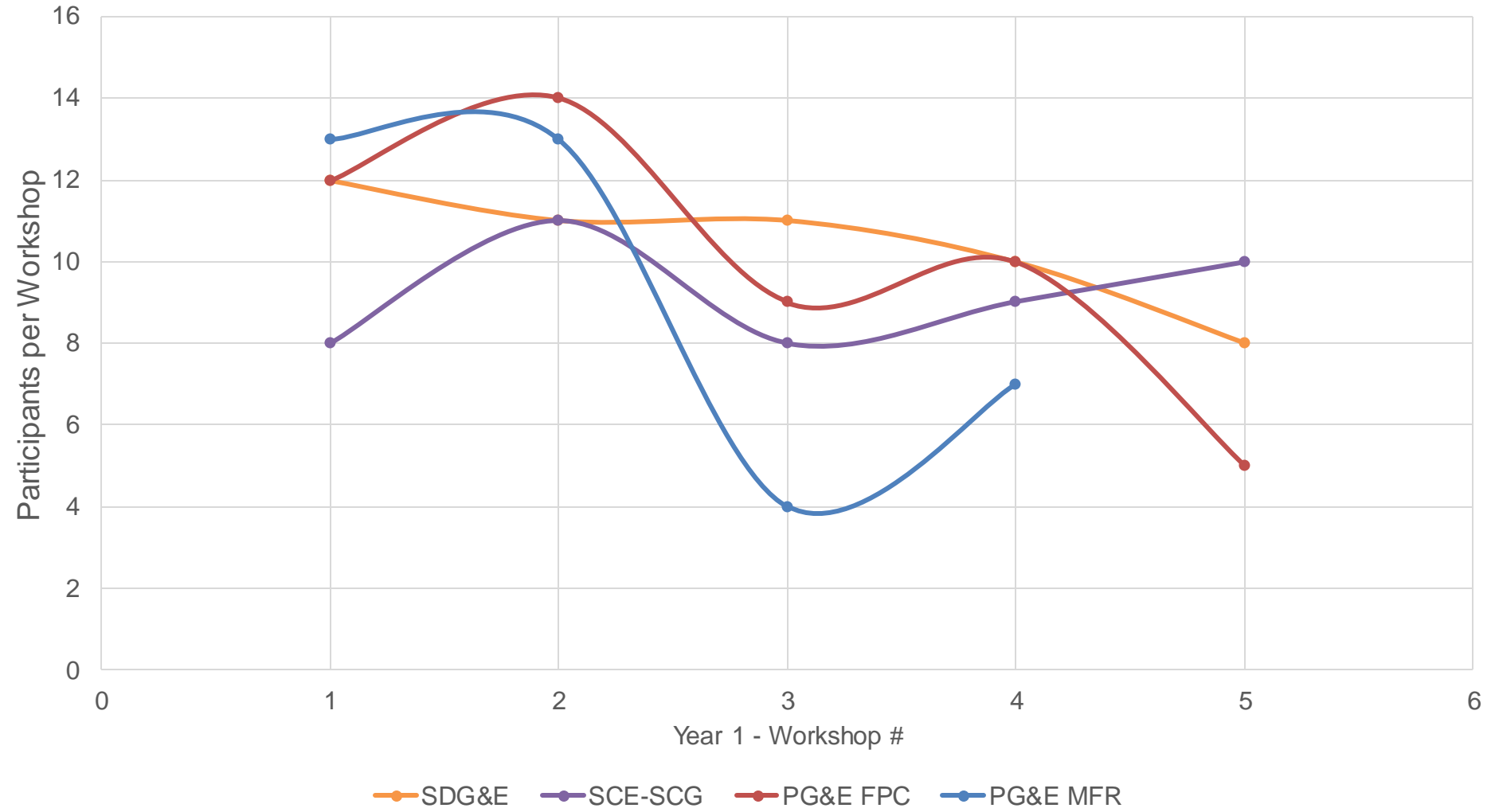


# Attendance Supports Savings



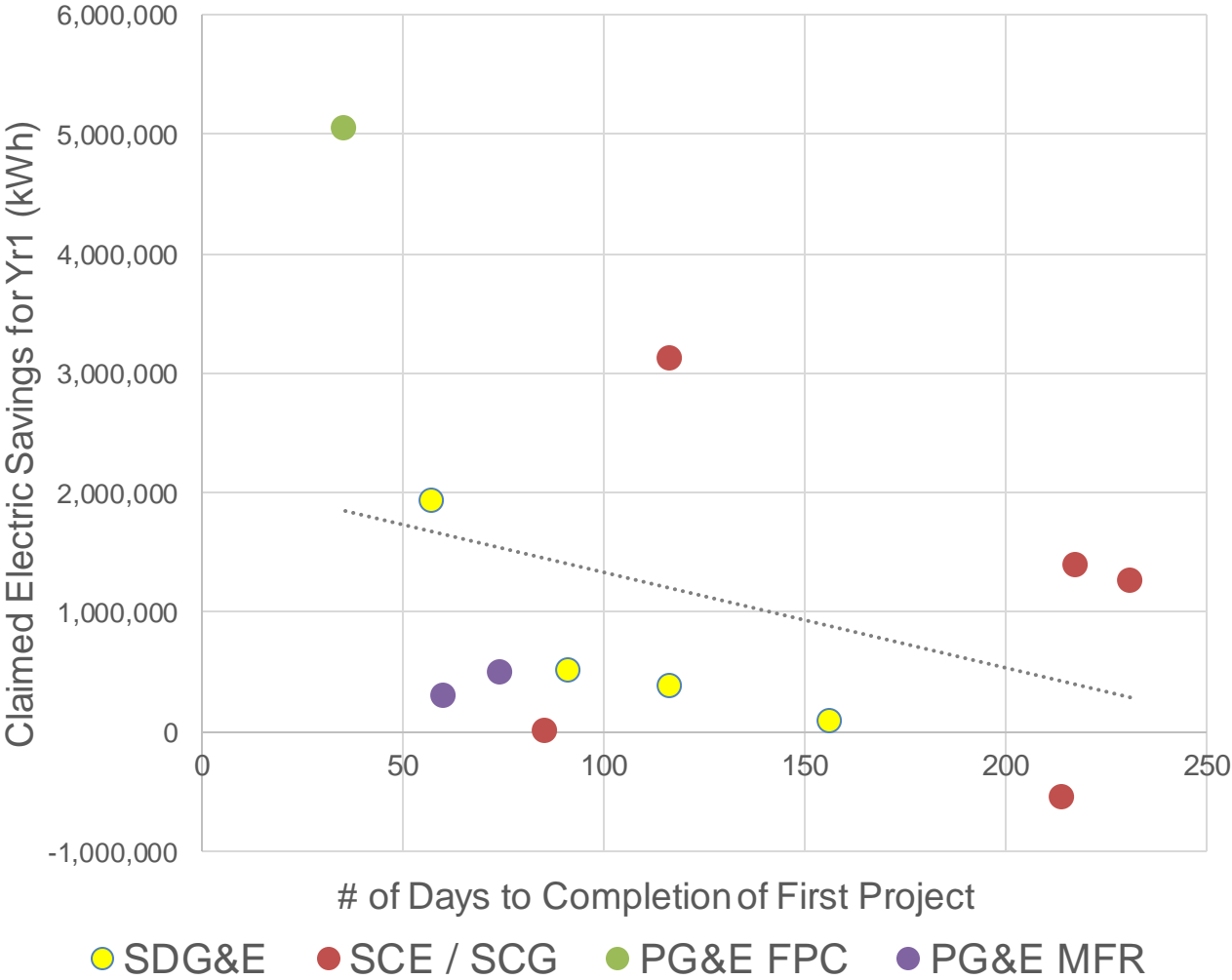


# Some Decline in Attendance

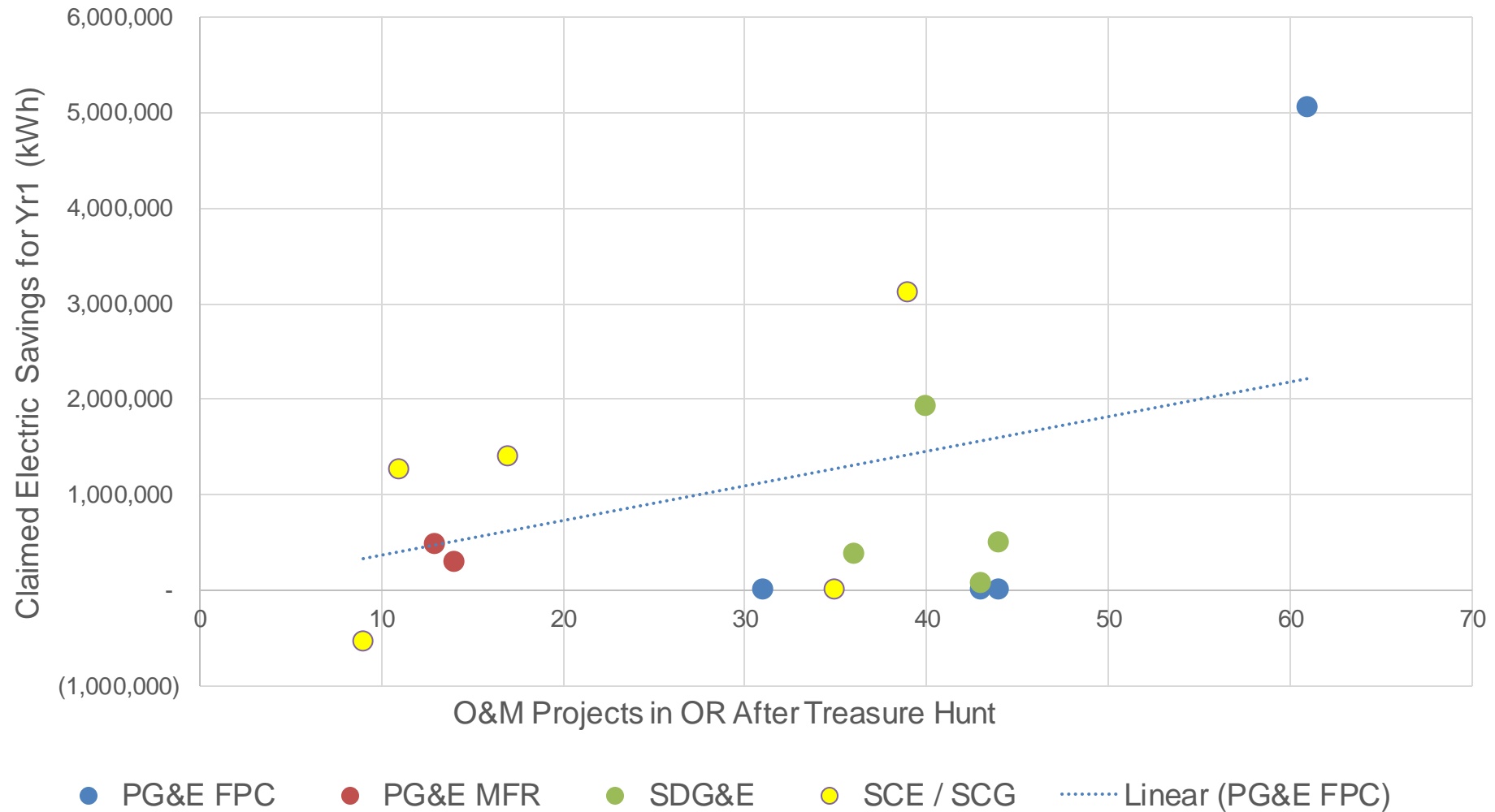




# Early Implementation



# Number of Projects Identified in Opportunity Register



# Early Feedback Findings

- Full report is available:  
<https://pda.energydataweb.com/api/downloads/2502/SEM%20Early%20Feedback%20Report.pdf>





# Questions?

