# EERMC Market Potential Study Data Refresh Update

Presented By: EERMC Consultant Team

Date: March 16, 2023



### Outline

Market Potential Study Refresh Work To Date

Timeline Check In

**Draft Results Overview** 

Next Steps & Council Discussion



### MPS Work To Date

#### January

RIE, OER, and C-Team participated in kick-off meeting Key questions initiated for dialogue

### February

Working Session with RIE, OER, and C-Team to align on answers to key questions Bi-weekly check-ins with Dunsky EERMC Counsel issued letter to PUC on February 28<sup>th</sup> informing them of a delay in filing

#### March

Bi-weekly check ins
Initial view of draft results
2021-2023 Targets Report posted as EERMC meeting material for Councilor review



### MPS Data Refresh Timeline

Task	Jan		Feb		Mar	1	Apr		May	
	1	2	1	2	1	2	1	2	1	2
Task 1: Identify data sources and	D1. Data									
collect input data	Request									
Task 2: Estimate net effects of factors						ı				
affecting baselines										
Task 3: Update measure list and						ı				
gather data										
Task 4 and 4a: Estimate potential						ı				
savings						ı				
						ı				
Tasks 1-3: Kick-off meeting, check-in	Kick off	M	M	M	М	М	М			
meetings, and correspondence	KICK OII	IVI	IVI	IVI	IVI	IVI	IVI			
Tasks 1-4: Reporting and					D4. Draft		D5. Final			
recommendations and deliverables					Results		Results			

Note: During contract negotiations, D2 and D3 were eliminated as formal deliverables.

M = Meeting D = Deliverable



### Draft Results, Electric Portfolio

#### Commercial & Industrial

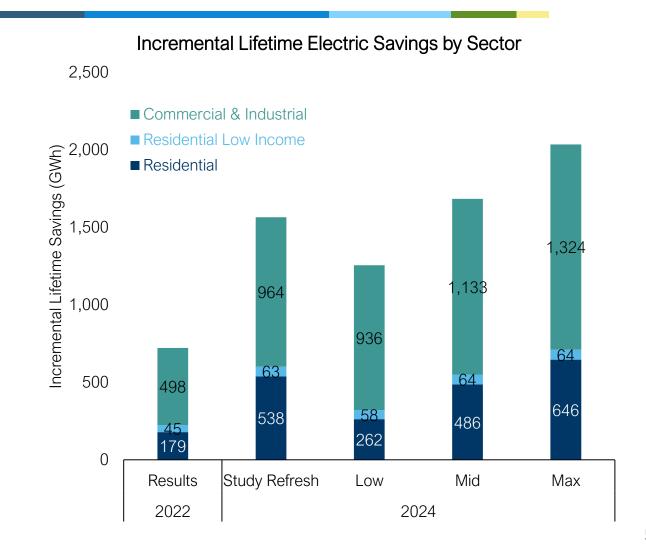
 Savings similar to Low scenario despite higher incentives primarily due to loss of lighting-related savings opportunities

#### Residential Low Income

 Savings largely unchanged from original study relative to Mid and Max scenario.

### Residential

 Savings fall between original study's Mid and Max scenario





# Draft Results, Gas Portfolio

#### Commercial & Industrial

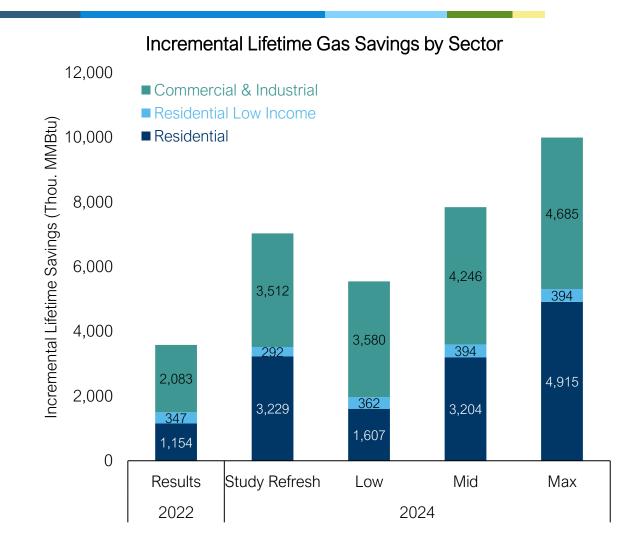
 Savings fall below Low scenario primarily due to loss of kitchen-related savings opportunities

#### Residential Low Income

 Savings fall below Low scenario primarily due to loss of low flow fixture savings, which were substantial source of savings in original study

#### Residential

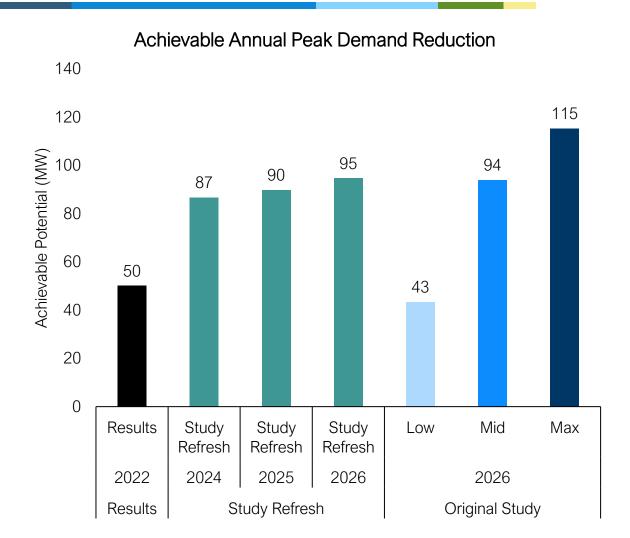
 Savings similar to Mid scenario as characterization updates for some measures offset loses due to standards updates





### Draft Results, Active Demand

- Relative to the original study, the Study Refresh scenario savings largely mirror the Mid scenario
  - Limited changes made to model inputs and assumptions
  - Slight increase in 2026 achievable savings (relative to Mid scenario) driven by updated baseline program participation assumptions





# Next Steps

Continued bi-weekly check ins

Engage with Councilors for perspectives and input

Refine and finalize results, present to Council at April meeting to inform 3YP Targets



### Council Member Discussion









# Market Potential Study Refresh

Market potential studies (MPS) are used to help inform and set the energy efficiency targets submitted to the PUC

The last MPS was completed in 2020 and covered 2021-2026

The refresh will update results for key areas for 2024-2026 to provide more accurate information

Three main applications for this data:

- Reference point for the Council from an objective third-party for setting EE targets
- Identify where the biggest EE opportunities are over the next three years
- Other stakeholders can refer to these studies to help support their arguments



# **Key Questions To Date**

#### How should the Achievable Scenario be defined?

- "Ambitious Mid Scenario"
- Aggressive enabling strategies
- High incentive coverage, but less than 100% of incremental cost (this was a key assumption in Max scenario from initial study)
- Dunsky team to use professional judgement / recent MA MPS to inform specific incentive levels, will ensure they are at or above current offerings

### Any New Measures Needed (would be added cost)?

- RIE, OER, and the C-Team did not identify critical gaps in the measure list, but indicated we
  would consider suggestions from Dunsky as they are assessing the data
  - Dunsky reported no suggested additional measures on 2/8



# **Key Questions To Date**

### How should the planned roll out for Advanced Metering in Rhode Island be handled?

 The utility proposal is to roll out in 2024 and 2025, which should be included in the study. May have different impacts on EE (where AMF is an enabling strategy for marketing) and DR (where it is a cost reduction for some measures).

# What building codes should be assumed to be in force during the 2024-2026 time period?

 IECC 2021 are up for consideration this year, which we should assume are adopted and come into force beginning in 2024, with a 1 year lag for projects initiated under these codes to enter EE programs

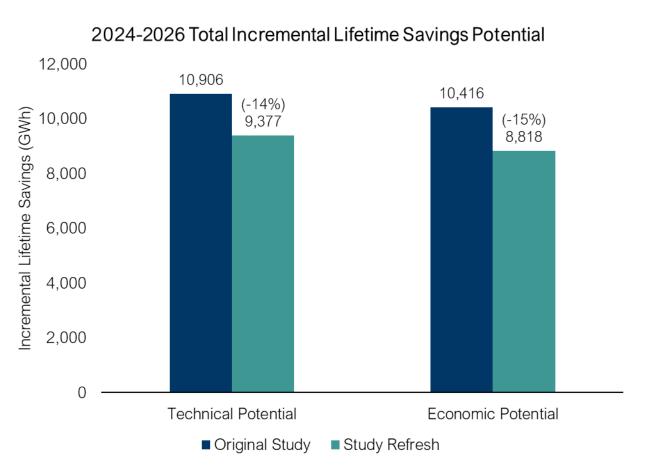
### Several data clarifications were also asked on various topics, including:

- Whether various EM&V studies, recent appliance standards are reflected in the BC model and TRM
- How to report monetary values, and reflect inflationary vs. other cost changes

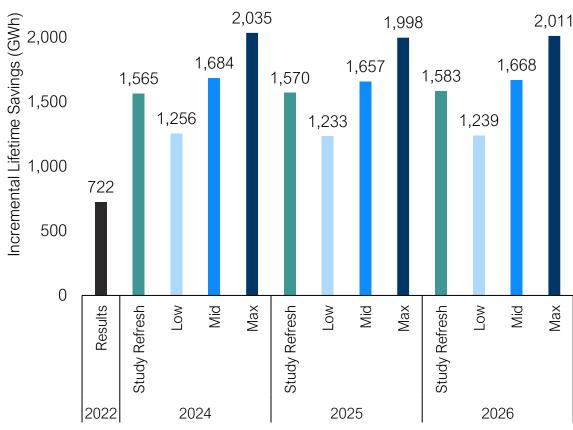


### Electric, Technical, Economic and Achievable

2,500

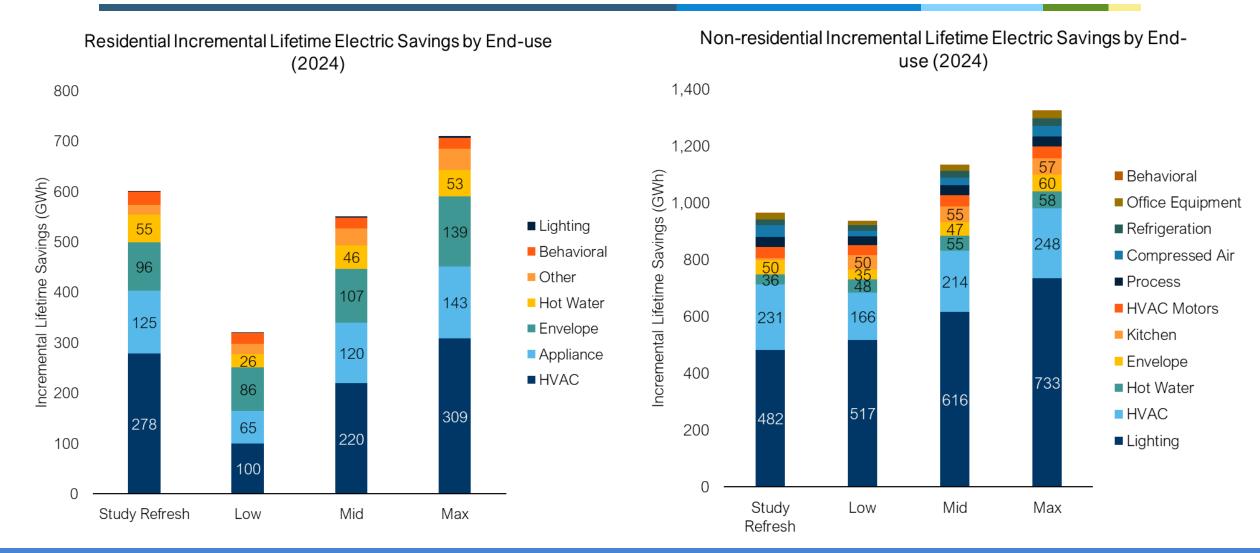


#### Electric Incremental Lifetime Savings by Year



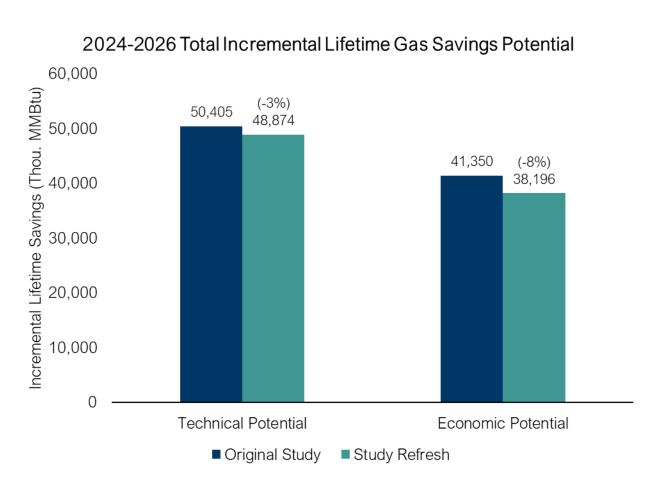


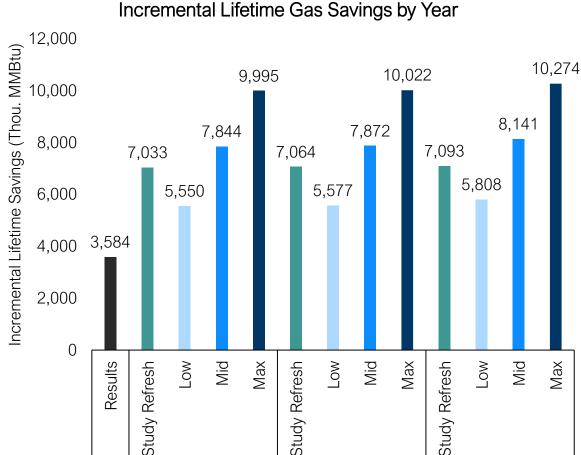
### Electric, End-Use





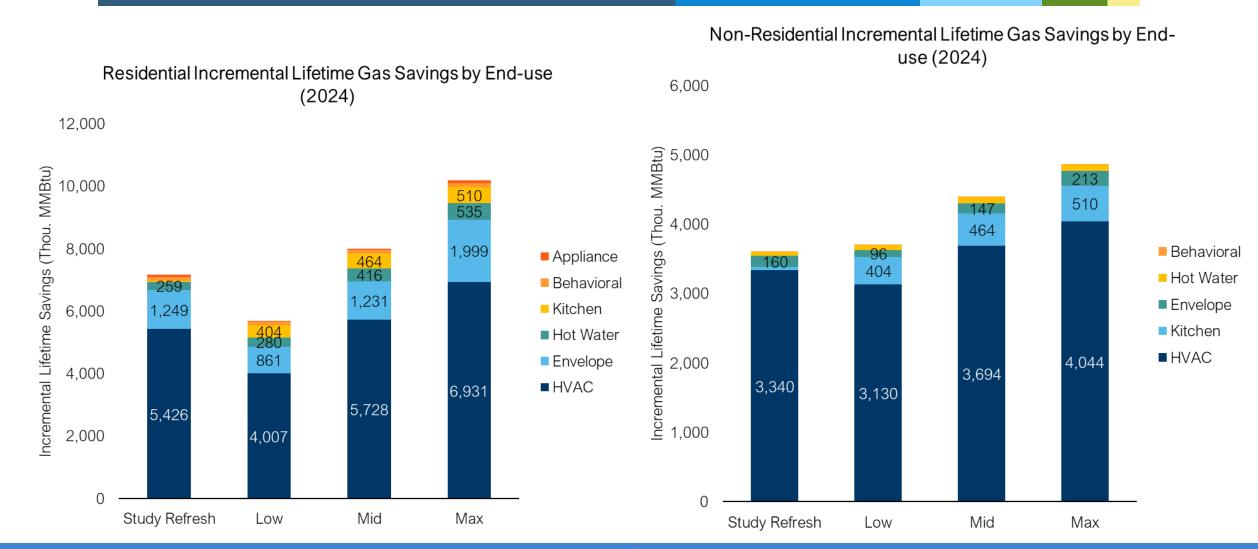
### Gas, Technical, Economic and Achievable







### Gas, End-Use





# Active Demand Top Measures

#### Top Demand Response Measures

