Consultant Team Initial Review Second Draft of the 2023 Annual Plan

Presented By: EERMC Consultant Team

Date: September 22, 2022



Outline

Overview

Key Updates Portfolio Data Council Priorities

Commercial & Industrial Review

Residential & Income Eligible Review

Preview of Council Vote

Council Discussion





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Review of 1st Draft Key Flags (1)

Large year-over-year cost increases are the focus of sector-level review and content later in this presentation

Equity section now has content, was blank in 1st draft

- 2023 commitments show modest change over 2022 and retain many of the concerns voiced in recent C-Team review of 2022 commitment updates. Those have not been addressed by RIE.
- "The sale of the Company had a direct impact on staffing to support the equity enhancements" – 2023 Plan Second Draft, p.38



Review of 1st Draft Key Flags (2)

The 2022 year-end fund balance forecast has been discussed, with more detailed data shared by RIE. Some questions remain, but addressable outside Plan proceeding. May warrant faster return of future positive fund balances to ratepayers.

Non-incentive costs have come down by \$2.47M from the first draft, now show a more reasonable 4.8% annual increase for combined gas and electric non-incentive costs.





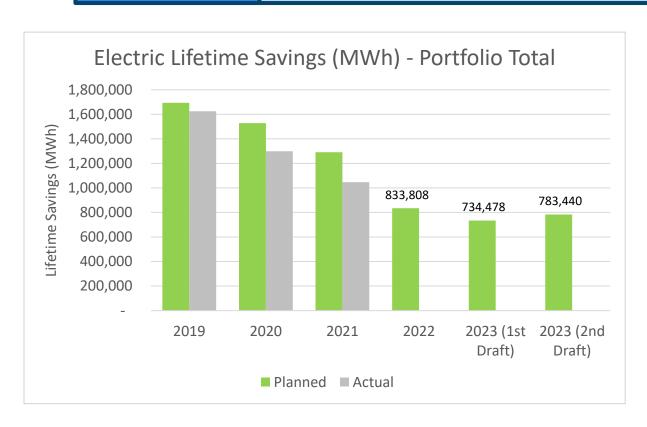
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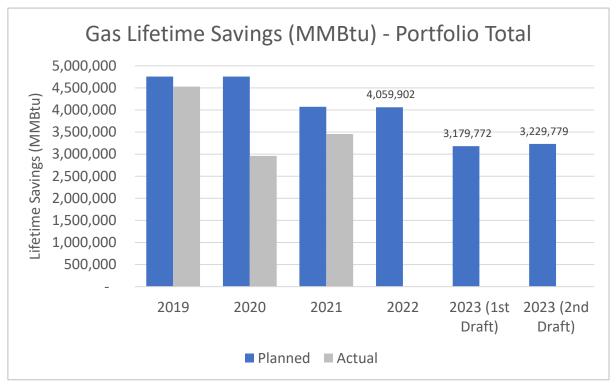


Portfolio Lifetime Savings

Key Takeaway

Increased lifetime electric (+7%) and gas (+2%) savings between 2023 Plan drafts



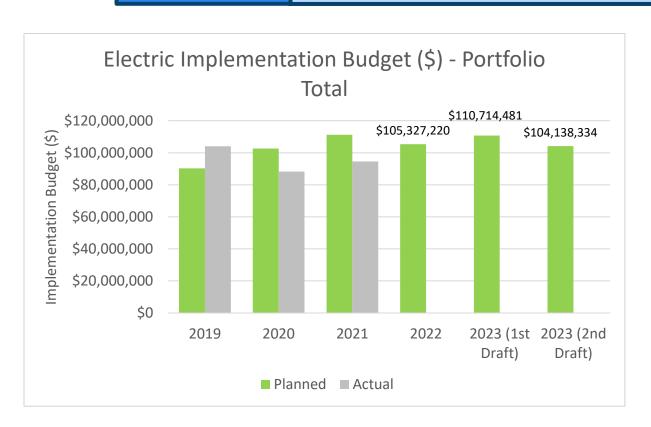


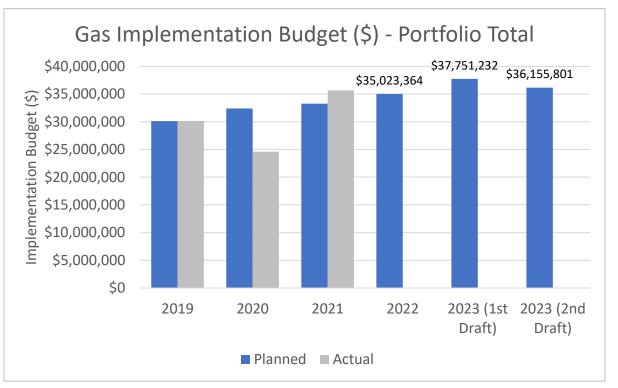


Implementation Budget

Key Takeaway

Both electric and gas implementation budgets reduced between 2023 drafts

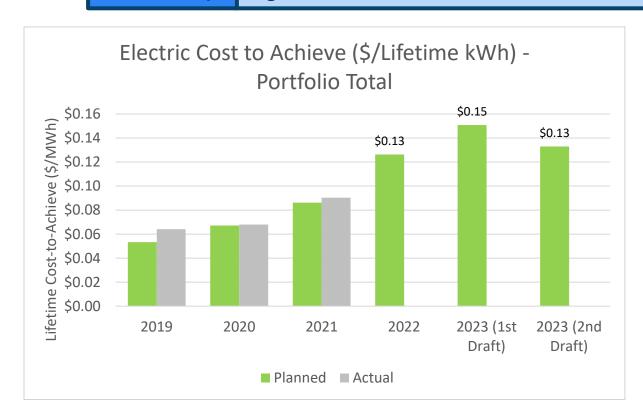


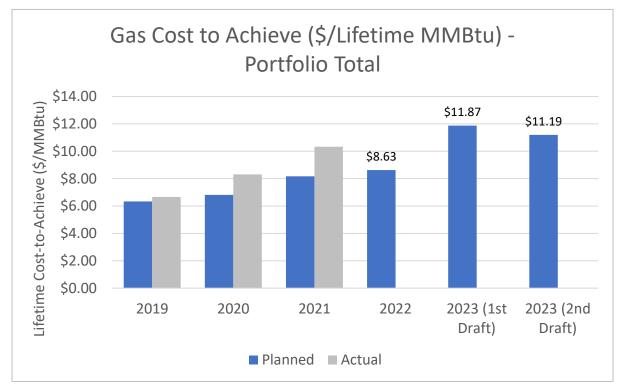




Portfolio Cost to Achieve

Key Takeaway Electric cost to achieve 5% above 2022 Plan. Gas cost to achieve still substantially higher than 2022 Plan in 2023 Plan 2nd Draft (+30%)









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Six Council Priorities

Priority #1: Align with Three-Year Plan

Priority #2: Comply with LCP Standards

Priority #3: Incorporate Stakeholder Input

Priority #4: Support Equity & Access

Priority #5: Ensure Effective & Efficient Development & Review Process

Priority #6: Give Due Consideration to Act on Climate Mandates



2023 EE Plan Responsiveness to EERMC Priorities

Priorities	Quantitative	Qualitative
Priority #1: Align with Three- Year Plan	Partial – Plan makes reference to Base Case but savings levels below 3YP. Measure mix shifting in right direction.	Not Responsive – Limited specific content despite Council and Stakeholder emphasis. Cost efficiency priority from 3YP in question.
Priority #2: Comply with LCP Standards	TBD – See Cost-Effectiveness Report at next week's Council meeting	Responsive – Though some opportunities for improvement exist
Priority #3: Incorporate Stakeholder Input	Partial – Collaborative review of costs appreciated; see qualitative assessment & Priority #1 assessment	Not Responsive – Limited specific content from stakeholders incorporated during plan development.
Priority #4: Support Equity & Access	Not Responsive – E.g., lack of quantified commitment metrics and target levels; IES reduced savings & participants	Partial – Equity improved long-term plan content; annual commitments similar. IES CAP referral an improvement, but net impacts unclear & propensity targeting could be reconsidered
Priority #5: Ensure Effective & Efficient Development & Review Process	Not Applicable	Partial – Overall improvement with some items late for 2 nd draft review; degree of responsiveness to 1 st draft feedback a consideration. Councilor perspective?
Priority #6: Give Due Consideration to Act on Climate Mandates	Partial – RIE has included estimate and indicated openness to expanding quantitative GHG metrics in future	TBD – Specific requirements still in development – plan speaks to GHG impacts & references Act on Climate





SECTOR REVIEW

Council Discussion C&I Review Residential Review Preview Council Vote Overview



Key Second Draft Findings

Substantial changes made to electric cost assumptions, primarily Large C&I Retrofit

Some continued revisions anticipated before filing to resolve remaining measure-level cost increases

Gas acquisition costs remain very high relative to 2022 Plan levels and 2021 actuals

RIE has indicated intent to revisit and potentially revise gas costs downward

Some program areas lack sufficient context or justification for changes/strategies (e.g., measure costs, C&I Pricing Study)

 "how" and "why" behind program implementation efforts not fully fleshed out. Especially important to assess strategies for delivering non-lighting measures

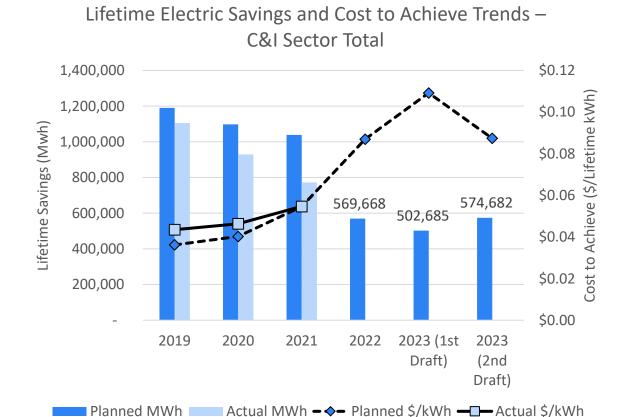
The Company mentions barriers and supply chain issues without detailing mitigation efforts

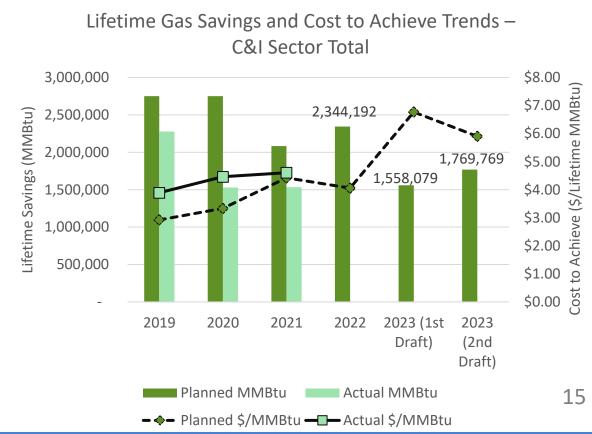
Workforce Needs Assessment delayed until at least end of year 2022



Quantitative Changes

Key Takeaway Electric cost to achieve now matches 2022 Plan for C&I electric sector. Gas cost to achieve still substantially higher than 2022 Plan in 2023 Plan 2nd Draft (+45%)

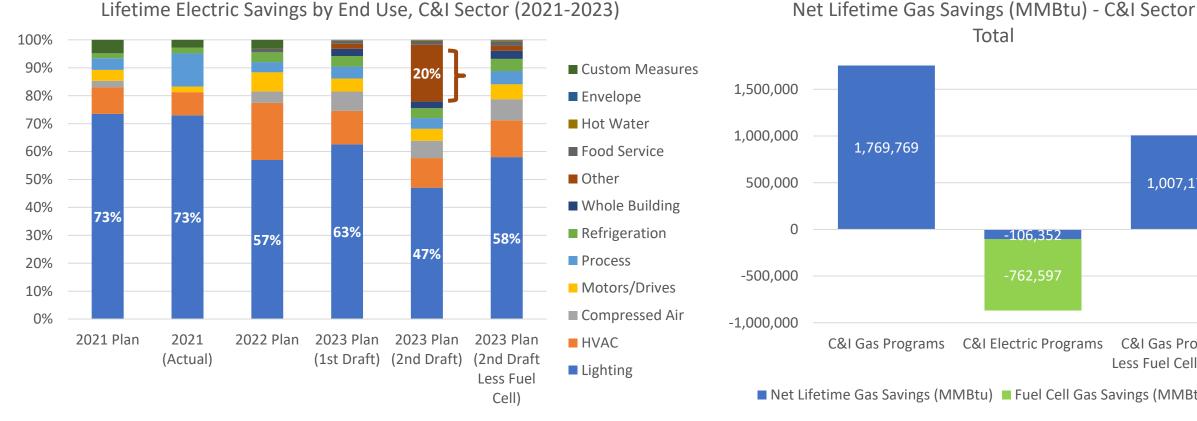


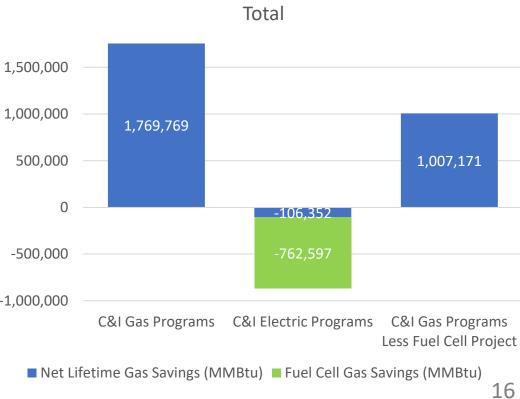




Fuel Cell Project

2 MW Fuel Cell project added in 2023 EE Plan Second Draft, which accounts for 19% of lifetime C&I electric savings, but offsets 43% of lifetime C&I gas savings





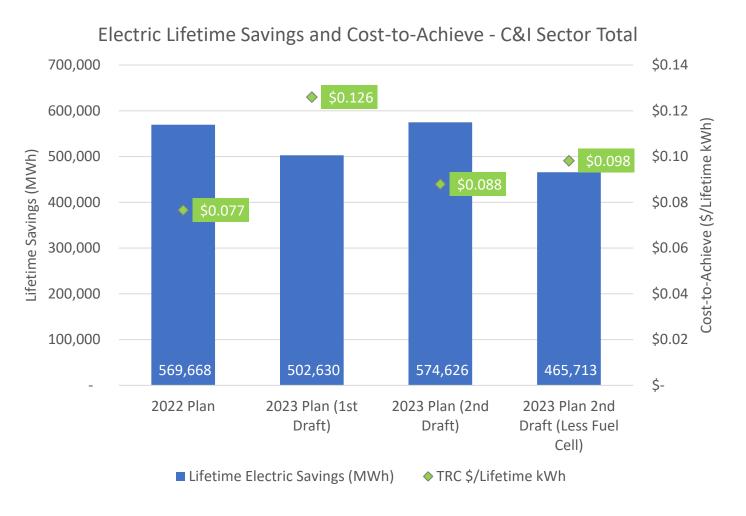
C&I Review Preview Council Vote Council Discussion Residential Review Overview



Fuel Cell Project

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The project has not yet been analyzed in a Technical Assistance (TA) study nor screened for costeffectiveness. This means that only preliminary savings and cost estimates are available.





Fuel Cell Project

In the event the Fuel Cell project is not implemented, planned C&I savings would decrease by 18% and cost-to-achieve would increase by 28% compared to the 2022 Plan

Plan Year	Lifetime Electric Savings (MWh)	TRC \$/Lifetime kWh
2022 Plan	569,668	\$0.077
2023 Plan 2 nd Draft	574,626	\$0.088
Fuel Cell Project	108,913	\$0.044
2023 Plan 2 nd Draft w/o Fuel Cell	465,713	\$0.098
2022 Plan to 2023 Plan 2 nd Draft w/o Fuel Cell	-103,955 (-18%)	+0.022 (+28%)



C&I – Cost Trend Analysis

Key Takeaway Benchmarking of planned to actual costs only performed for electric Large C&I Retrofit, which is the only electric program that saw a notable decrease in project cost coverage

Incentive as a Share of Total Resource Cost

Electric Program	2022 Plan	2023 Plan (1st Draft)	2023 Plan (2 nd Draft)
Large C&I New Construction	90%	92%	90%
Large C&I Retrofit	69%	74%	55%
Small Business Direct Install	80%	80%	80%
Electric C&I Sector Total	75%	78%	64%

Gas Program	2022 Plan	2023 Plan (1st Draft)	2023 Plan (2 nd Draft)
Large C&I New Construction	87%	94%	113%
Large C&I Retrofit	47%	46%	46%
Small Business Direct Install	77%	78%	78%
C&I Multifamily	90%	60%	68%
Gas C&I Sector Total	61%	56%	62%

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C&I – Cross-Jurisdictional Cost Comparison

Mapping to National Grid MA 2022-2024 Plan BCR Models to benchmark RI cost assumptions. Gas measure incentive costs significantly higher in RI - top $^{\sim}40\%$ saving Retrofit measures shown

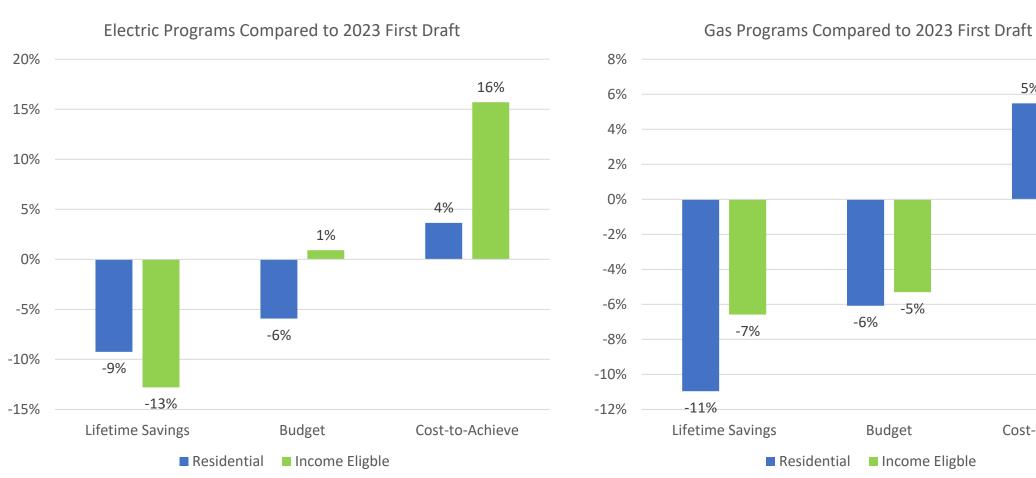
Measure	Percent of Total RI C&I Lifetime Gas Savings	RI Incentive Cost per Gross Annual MMBtu	MA Incentive Cost per Gross Annual MMBtu	Multiple (RI Compared to MA)
Heat Recovery - All, Year Round, and Seasonal	8.3%	\$48.19	\$20.00	2.4x
Wi-Fi Thermostats	7.5%	\$30.00	\$14.34	2.1x
CUSTOM - OTHER	6.8%	\$44.67	\$19.80	2.3x
HVAC Equipment	6.3%	\$36.14	\$20.50	1.8
Thermostats	5.0%	\$30.00	\$19.32	1.6
Custom Steam Traps	2.9%	\$12.50	\$10.20	1.2
HVAC Controls and EMS	1.8%	\$36.14	\$24.00	1.5
Ventilation Reduction	1.7%	\$30.12	\$24.00	1.3
Prescriptive Steam Traps	0.4%	\$22.00	\$44.44	0.5

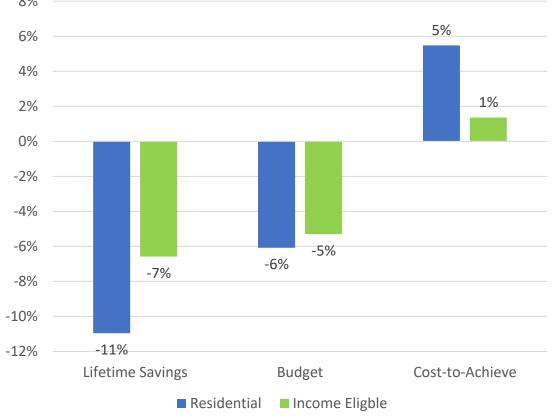






High Level Sector Overview





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Residential Review Council Discussion C&I Review Preview Council Vote Overview



Key Qualitative Improvements

Specific detail on five communities that will be the focus of enhanced and targeted outreach

- Align with RI DEM list of Environmental Justice Focus Areas
- Initiative to allow non-participants in census tracts to participate in low- and moderate-income offerings without income verification

Addition of delivered fuel switching option for income-eligible properties with end-of-life heating systems

 Plan to work with supporting stakeholders to identify where funding can be leveraged to aid in this deployment

Commitment to align and coordinate with state heat pump program offerings



Outstanding Qualitative Concerns

Multifamily

 Addressing Multifamily customers with low-propensity scores in particular needs more attention to detail

Income Eligible

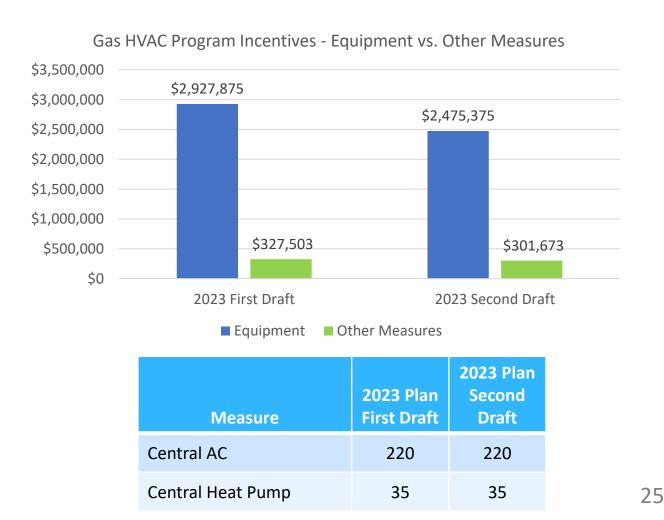
- Connection between key-performance indicator tracking and reporting with CAPs, and improving CAP performance not sufficiently justified
- Concerns raised about Inter-agency CAP referral process remain
- Comment response from RIE indicates plan to train staff to be able to provide both appliance and weatherization audits simultaneously, but no commitment in Plan to do so



Outstanding Quantitative Concerns (1)

HVAC Measure Mix

- No clear plan for phasing out support for gas equipment despite being a key area of concern raised by multiple stakeholders
- Electric HVAC program will continue to support
 Central ACs; this support should be dropped in favor of central HPs





Outstanding Quantitative Concerns (2)

Company has provided sufficient justification for increases in weatherization costs, but other increases in Income Eligible SF Electric are best guess estimates

Measure	2022 Plan TRC	2023 Plan TRC	Delta	% Change
Clothes Washers	\$700	\$770	\$70	+10%
AC Replacement	\$350	\$385	\$35	+10%
Dehumidifier	\$250	\$275	\$25	+10%
Heating System Replacement	\$5,000	\$5,500	\$500	+10%
Freezer	\$550	\$600	\$50	+9%
Refrigerator	\$1,050	\$1,100	\$50	+5%



Outstanding Quantitative Concerns (3)

Average cost per Income Eligible Multifamily participant improved from first draft of plan...

...but remains over 20% higher compared to 2022 Plan





New Quantitative Concerns (1)

Cost and savings assumptions for Income Eligible Multifamily CHP based on projects completed in recent years

However, planning assumptions do not account for fuel utilization that would result in reduced benefits

Net benefits and carbon reductions for these project(s) are not fully represented in modeling



New Quantitative Concerns (2)

Rebates and Other Customer Incentives in Table E-2 appear to be under-represented for some programs

RI Energy acknowledges this concern is working to resolve it

Program	Incentives in Table E-2	Sum of Incentives in BC Model	Difference
Income Eligible Single Family (Electric)	\$10,049,616	\$10,575,315	\$525,699
Income Eligible Multifamily (Electric)	\$2,602,065	\$3,502,065	\$900,000
EnergyWise Multifamily (Electric)	\$863,451	\$903,531	\$40,808
Residential New Construction (Gas)	\$357,710	\$358,460	\$750





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Council's Responsibility

EERMC role and responsibility in potentially endorsing the Plan as described in the LCP Standards:



The Council shall vote <u>whether to endorse</u> the Annual EE Plan prior to the prescribed filing date. If the Council <u>does not endorse</u> the Annual EE Plan, the Council shall document its reasons and submit comments on the Annual EE Plan to the PUC for its consideration in final review of the Annual Plan.





Summary of 2022 Plan Vote Options

- 1. Endorse the EE Plan, as has been the case in all previous years. Endorsement may also list Council's concerns that didn't prevent endorsement but warrant mentioning.
- 2. Endorse the EE Plan, but decline to join any Settlement of the Parties. Represents a strong statement of the EERMC's concerns.
- **3. Not endorse the EE Plan**, but indicate that if specific condition(s) are met it would be endorsed.
- **4. Not endorse the EE Plan**, and provide a list of reasons why it was not endorsed for PUC consideration in its final review of the EE Plan.



Council Member Discussion





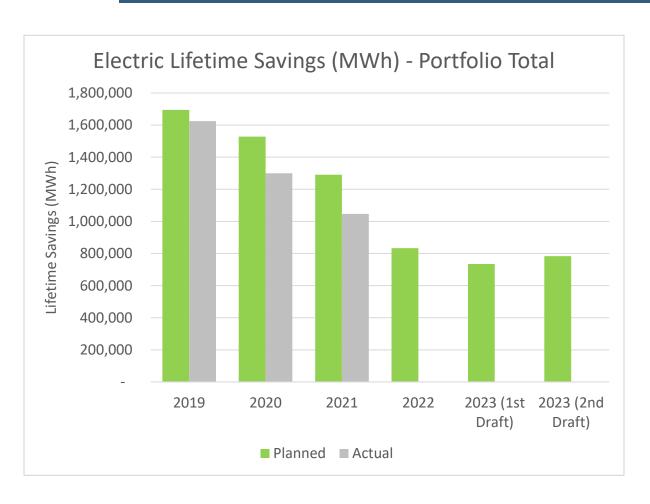


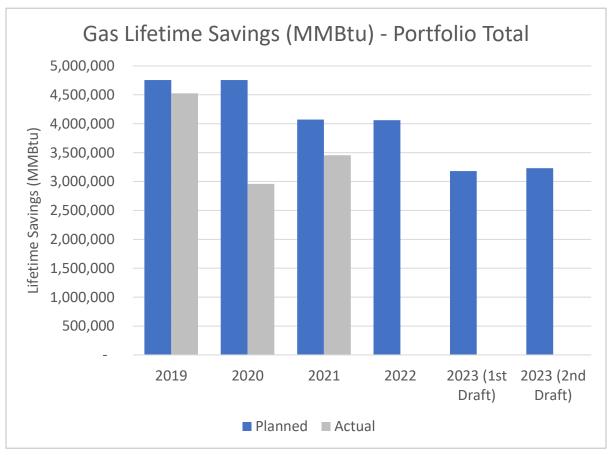






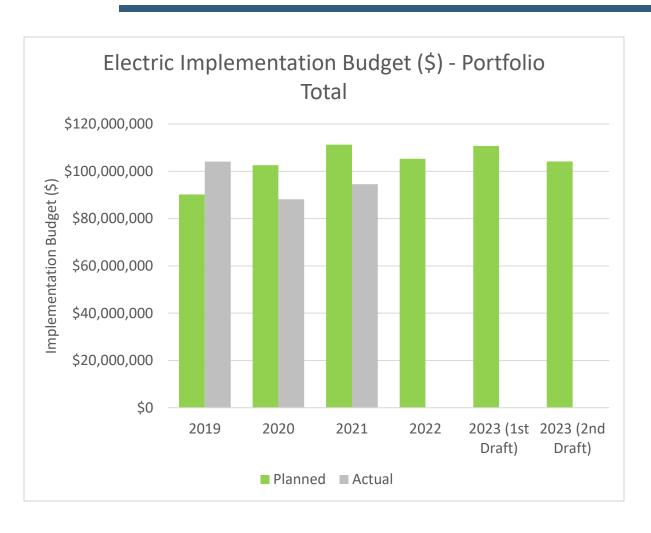
Portfolio Lifetime Savings

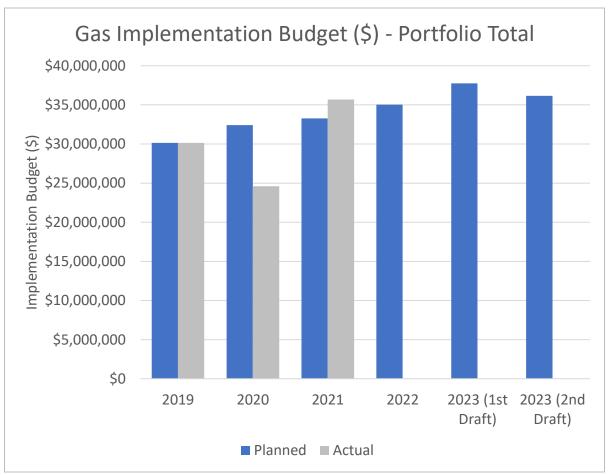






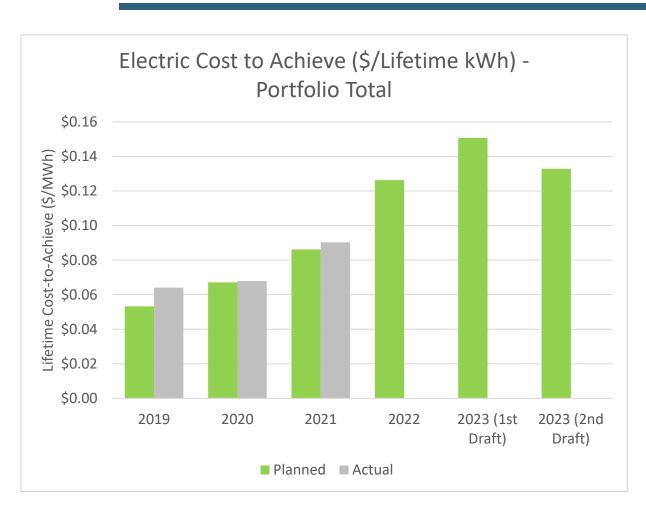
Portfolio Implementation Budget

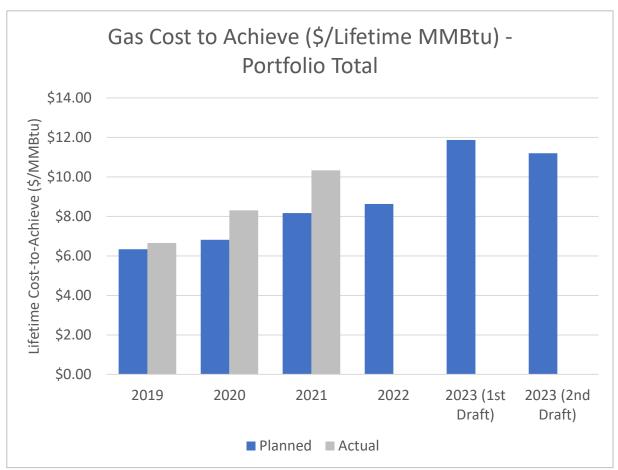






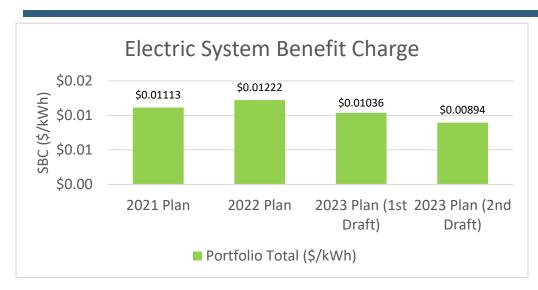
Portfolio Cost to Achieve

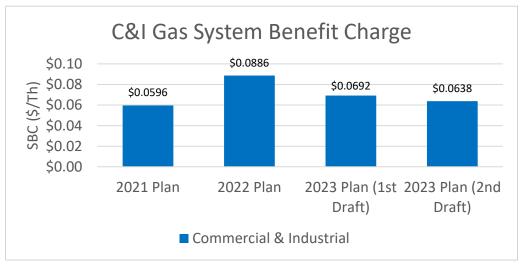




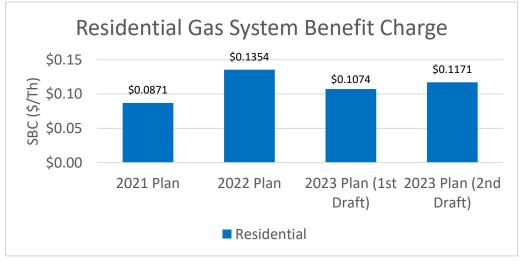


System Benefit Charge





Decrease in System Benefit Charge (SBC) across both portfolio partially attributable to high forecasted underspending in 2022





Electric Lifetime MWhs

LIFETIME MWhs

2023 tfolio
7%
20%
46%
73 %
3%
2%
5%
2%
9%
9% 2%
2%
2% 1%
2% 1% 3%
2% 1% 3% 0%

Program	2023 (2nd Draft)
Small Business Direct Install	57,778
Large Commercial New Construction	157,598
Large Commercial Retrofit	359,306
C&I Total	574,682
Single Family - Income Eligible Services	22,228
Income Eligible Multifamily	17,632
Income Eligible Total	39,860
Residential New Construction	15,377
ENERGY STAR® HVAC	71,055
EnergyWise	16,940
EnergyWise Multifamily	9,493
Home Energy Reports	24,350
ENERGY STAR® Lighting	0
Residential Consumer Products	31,684
Residential Total	168,898
Portfolio Total	783,440

2023 (2nd Draft) Compared to 2022 Plan				
-6,616	-10.3%			
-34,745	-18.1%			
46,374	14.8%			
5,014	0.9%			
-16,278	-42.3%			
-6,678	-27.5%			
-22,955	-36.5%			
431	2.9%			
-6,662	-8.6%			
3,468	25.7%			
-11,290	-54.3%			
-2,503	-9.3%			
0				
-15,871	-33.4%			
-32,427	-16.1%			
-50,368	-6.0%			

2023 (2nd Draft) Compared to 2023 (1st Draft)				
-5,834	-9.2%			
10,412	7.1%			
67,418	23.1%			
71,997	14.3%			
-6,246	-21.9%			
404	2.3%			
-5,843	-12.8%			
0	0.0%			
-3,150	-4.2%			
838	5.2%			
49	0.5%			
-5,299	-17.9%			
0				
-9,630	-23.3%			
-17,192	-9.2%			
48,962	6.7%			



Electric Annual MWhs

ANNUAL MWhs

% of 2023 Portfolio			
	9%		
	10%		
	43%		
	62%		
	2%		
	1%		
	3%		
	1%		
	4%		
	3%		
	1%		
	23%		
	0%		
	4%		
	35%		
	100%		

Program	2023 (2nd Draft)
Small Business Direct Install	9,260
Large Commercial New Construction	10,481
Large Commercial Retrofit	46,640
C&I Total	66,381
Single Family - Income Eligible Services	2,436
Income Eligible Multifamily	1,298
Income Eligible Total	3,734
Residential New Construction	779
ENERGY STAR® HVAC	4,175
EnergyWise	3,147
EnergyWise Multifamily	680
Home Energy Reports	24,350
ENERGY STAR® Lighting	0
Residential Consumer Products	4,473
Residential Total	37,603
Portfolio Total	107,717

2023 (2nd Draft) Compared to 2022 Plan				
-716	-7%			
-2,108	-17%			
5,508	13%			
2,684	4%			
-878	-26%			
-239	-16%			
-1,117	-23%			
-88	-10%			
-445	-10%			
359	13%			
-744	-52%			
-2,503	-9%			
0				
-2,412	-35%			
-5,832	-13%			
-4,266	-4%			

2023 (2nd Draft) Compared to 2023 (1st Draft)			
-941	-9%		
386	4%		
8,046	21%		
7,491	13%		
-380	-14%		
84	7%		
-296	-7%		
0	0%		
-201	-5%		
140	5%		
49	8%		
-5,299	-18%		
0			
-1,377	-24%		
-6,688	-15%		
507	0%		



Electric Budget

	202 tfolio		
	79	%	ſ
	89	6	Ī
	259	6	Ī
	29	6	ĺ
	09	%	
	09	%	ĺ
	59	%	
	09	6	
	489	6	
	139	6	
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	59	6	l
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IMPLEMENTATION BUDGET							
Program	2023 (2nd Draft)	2023 (2nd Draft) Compared to 2022 Plan		3 (2nd Compared to 2022 Compared to 2		2023 (1st	
Small Business Direct Install	\$7,764,876	-\$1,118,414	-13%	\$565,643	8%		
Large Commercial New Construction	\$8,469,282	-\$564,864	-6%	-\$1,784,980	-17%		
Large Commercial Retrofit	\$26,206,398	\$1,195,849	5%	-\$1,486,608	-5%		
C&I Financing	\$2,000,000	\$0	0%	\$0	0%		
Community Based Initiatives - C&I	\$93,461	\$8,496	10%	\$0	0%		
Commercial Pilots	\$0	\$0		\$0			
Commercial ConnectedSolutions	\$5,544,066	\$1,150,454	26%	-\$1,959,264	-26%		
Commercial Workforce Development	\$157,500	\$0	0%	\$0	0%		
C&I Total	\$50,235,583	\$671,521	1%	-\$4,665,209	-8%		
Single Family - Income Eligible Services	\$13,731,995	\$456,671	3%	\$172,189	1%		
Income Eligible Multifamily	\$3,211,381	-\$327,568	-9%	-\$18,488	-1%		
Income Eligible Workforce Development	\$0	\$0		\$0			
Income Eligible Total	\$16,943,376	\$129,102	1%	\$153,701	1%		
Residential New Construction	\$1,608,972	-\$8,006	0%	-\$77,302	-5%		
ENERGY STAR® HVAC	\$5,535,861	\$851,501	18%	-\$1,013,836	-15%		
EnergyWise	\$15,671,330	\$114,377	1%	\$651,523	4%		
EnergyWise Multifamily	\$1,206,151	-\$2,032,157	-63%	-\$676,601	-36%		
Home Energy Reports	\$2,147,183	-\$491,954	-19%	-\$511,128	-19%		
ENERGY STAR® Lighting	\$0	\$0		\$0			
Residential Consumer Products	\$2,494,221	-\$301,812	-11%	-\$323,804	-11%		
Energy Efficiency Education	\$0	\$0		\$0			
Comprehensive Marketing - Residential	\$310,484	\$62,541	25%	-\$246	0%		
Community Based Initiatives - Residential	\$280,564	\$25,490	10%	\$0	0%		
Residential ConnectedSolutions	\$1,971,037	\$148,444	8%	-\$14,383	-1%		
Residential Pilots	\$0	\$0		\$0			
Residential Workforce Development	\$0	\$0		\$0			
Residential Total	\$31,225,803	-\$1,631,576	-5%	-\$1,965,779	-6%		
EERMC	\$850,331	\$84,086	11%	\$84,086	11%		
OER	\$1,145,749	-\$444,511	-28%	-\$182,946	-14%		
Rhode Island Infrastructure Bank	\$3,737,491	\$2,491	0%	\$0	0%		
Regulatory Total	\$5,733,572	-\$357,934	-6%	-\$98,860	-2%		
Portfolio Total	\$104,138,334	-\$1,188,886	-1%	-\$6,576,146	-6%		



Electric Lifetime Cost to Achieve (\$/kWh)

\$/LIFETIME kWh

Program	2023 (2nd Draft)	2023 (2nd Draft) Compared to 2022 Plan		2023 (2nd Draft) Compared to 2023 (1st Draft)	
Small Business Direct Install	\$0.13	\$0.00	-3%	\$0.02	19%
Large Commercial New Construction	\$0.05	\$0.01	14%	-\$0.02	-23%
Large Commercial Retrofit	\$0.07	-\$0.01	-9%	-\$0.02	-23%
C&I Total	\$0.09	\$0.00	0%	-\$0.02	-20%
Single Family - Income Eligible Services	\$0.62	\$0.27	79%	\$0.14	30%
Income Eligible Multifamily	\$0.18	\$0.04	25%	-\$0.01	-3%
Income Eligible Total	\$0.43	\$0.16	59%	\$0.06	16%
Residential New Construction	\$0.10	\$0.00	-3%	-\$0.01	-5%
ENERGY STAR® HVAC	\$0.08	\$0.02	29%	-\$0.01	-12%
EnergyWise	\$0.93	-\$0.23	-20%	-\$0.01	-1%
EnergyWise Multifamily	\$0.13	-\$0.03	-18%	-\$0.07	-36%
Home Energy Reports	\$0.09	-\$0.01	-10%	\$0.00	-2%
ENERGY STAR® Lighting					
Residential Consumer Products	\$0.08	\$0.02	34%	\$0.01	15%
Residential Total	\$0.18	\$0.02	13%	\$0.01	4%
Portfolio Total	\$0.13	\$0.01	5%	-\$0.02	-12%



Electric Annual Cost to Achieve (\$/kWh)

\$/ANNUAL kWh

Program	2023 (2nd Draft)	2023 (2nd Draft) Compared to 2022 Plan		Draft) 2023 (2nd Draft) Compared to 20 (1st Draft)	
Small Business Direct Install	\$0.84	-\$0.05	-6%	\$0.13	19%
Large Commercial New Construction	\$0.81	\$0.09	13%	-\$0.21	-20%
Large Commercial Retrofit	\$0.56	-\$0.05	-8%	-\$0.16	-22%
C&I Total	\$0.76	-\$0.02	-3%	-\$0.18	-19%
Single Family - Income Eligible Services	\$5.64	\$1.63	41%	\$0.82	17%
Income Eligible Multifamily	\$2.47	\$0.17	7%	-\$0.19	-7%
Income Eligible Total	\$4.54	\$1.07	31%	\$0.37	9%
Residential New Construction	\$2.07	\$0.20	11%	-\$0.10	-5%
ENERGY STAR® HVAC	\$1.33	\$0.31	31%	-\$0.17	-11%
EnergyWise	\$4.98	-\$0.60	-11%	-\$0.02	0%
EnergyWise Multifamily	\$1.77	-\$0.50	-22%	-\$1.21	-41%
Home Energy Reports	\$0.09	-\$0.01	-10%	\$0.00	-2%
ENERGY STAR® Lighting					
Residential Consumer Products	\$0.56	\$0.15	37%	\$0.08	16%
Residential Total	\$0.83	\$0.07	10%	\$0.08	11%
Portfolio Total	\$0.97	\$0.03	3%	-\$0.07	-6%



Electric Portfolio Net Benefits

Electric Total Benefits

% of 2022 Portfolio
5%
13%
33%
6%
56%
10%
2%
12%
2%
10%
9%
1%
3%
0%
2%
32%
100%

Program	2023 (1st Draft) - Net Benefits	2023 (2nd Draft) - Net Benefits
Small Business Direct Install	\$2,983,230	\$10,900,035
Large Commercial New Construction	\$17,982,417	\$43,433,693
Large Commercial Retrofit	\$46,198,667	\$80,329,306
Commercial ConnectedSolutions	\$6,175,100	\$6,776,014
C&I Total	\$73,339,414	\$141,439,047
Single Family - Income Eligible Services	\$8,797,764	\$17,919,709
Income Eligible Multifamily	\$986,868	\$2,168,302
Income Eligible Total	\$9,784,632	\$20,088,011
Residential New Construction	\$3,700,101	\$6,622,109
ENERGY STAR® HVAC	\$16,170,307	\$22,219,528
EnergyWise	\$4,285,666	\$16,881,061
EnergyWise Multifamily	\$1,422,614	\$3,509,109
Home Energy Reports	\$4,418,293	\$5,059,171
ENERGY STAR® Lighting	\$0	\$0
Residential Consumer Products	\$6,380,034	\$8,158,982
Residential ConnectedSolutions	\$1,517,595	\$1,082,173
Residential Total	\$37,894,610	\$63,532,133
Portfolio Total	\$121,018,656	\$225,059,192

2023 (2nd Draft) Compared to 2023 (1st Draft)		
\$7,916,805	265%	
\$25,451,275	142%	
\$34,130,639	74%	
\$600,913	10%	
\$68,099,633	93%	
\$9,121,946	104%	
\$1,181,434	120%	
\$10,303,380	105%	
\$2,922,008	79%	
\$6,049,221	37%	
\$12,595,395	294%	
\$2,086,495	147%	
\$640,878	15%	
\$0		
\$1,778,949	28%	
-\$435,422	-29%	
\$25,637,523	68%	
\$104,040,536	86%	



Gas Lifetime MMBtus

LIFETIME MMBtus

% of 2023 Portfolio		
20%		
29%		
4%		
2%		
55%		
5%		
5%		
11%		
14%		
12%		
3%		
3%		
2%		
35%		
100%		

Program	2023 (2nd Draft)
Large Commercial New Construction	652,640
Large Commercial Retrofit	922,290
Small Business Direct Install	130,193
Commercial & Industrial Multifamily	64,645
C&I Total	1,769,769
Single Family - Income Eligible Services	169,180
Income Eligible Multifamily	172,464
Income Eligible Total	341,644
Energy Star® HVAC	455,168
EnergyWise	402,653
EnergyWise Multifamily	110,428
Home Energy Reports	91,640
Residential New Construction	58,476
Residential Total	1,118,366
Portfolio Total	3,229,779

2023 (2nd Draft) Compared to 2022 Plan		
-136,123	-17%	
-410,219	-31%	
38,494	42%	
-66,575	-51%	
-574,423	-25%	
-49,667	-23%	
-100,621	-37%	
-150,288	-31%	
15,451	4%	
-75,897	-16%	
-36,636	-25%	
-1,907	-2%	
-6,423	-10%	
-105,413	-9%	
-830,123	-20%	

2023 (2nd Draft) Compared to 2023 (1st Draft)		
144,679	28%	
-3,149	0%	
65,672	102%	
4,487	7%	
211,690	14%	
0	0%	
-24,055	-12%	
-24,055	-7%	
-61,502	-12%	
-64,702	-14%	
-24,296	-18%	
17,395	23%	
-4,523	-7%	
-137,628	-11%	
50,007	2%	



Gas Annual MMBtus

ANNUAL MMBtus

% of 2023 Portfolio		
	15%	
	27%	
	3%	
	1%	
	46%	
	3%	
	4%	
	6%	
	9%	
	7%	
	2%	
	30%	
	1%	
	48%	
	100%	

Program	2023 (2nd Draft)
Large Commercial New Construction	45,619
Large Commercial Retrofit	82,463
Small Business Direct Install	9,723
Commercial & Industrial Multifamily	4,249
C&I Total	142,054
Single Family - Income Eligible Services	8,230
Income Eligible Multifamily	11,075
Income Eligible Total	19,305
Energy Star® HVAC	27,030
EnergyWise	20,697
EnergyWise Multifamily	5,358
Home Energy Reports	91,640
Residential New Construction	3,287
Residential Total	148,013
Portfolio Total	309,373

2023 (2nd Draft) Compared to 2022 Plan		
-7,337	-14%	
-60,425	-42%	
3,610	59%	
-4,554	-52%	
-68,706	-33%	
-2,712	-25%	
-3,625	-25%	
-6,337	-25%	
289	1%	
-152	-1%	
-2,921	-35%	
-1,907	-2%	
-323	-9%	
-5,014	-3%	
-80,057	-21%	

2023 (2nd Draft) Compared to 2023 (1st Draft)		
10,812	31%	
2,049	3%	
4,035	71%	
299	8%	
17,195	14%	
0	0%	
-1,577	-12%	
-1,577	-8%	
-3,661	-12%	
972	5%	
-1,107	-17%	
17,395	23%	
-189	-5%	
13,411	10%	
29,028	10%	



Gas Budget

% of	2023	ı
Port	tfolio	l
	8%	l
	13%	ĺ
	2%	ı
	2%	ı
	0%	ı
	3%	
	0%	ı
	29%	ı
	15%	ı
	9%	ı
	0%	ı
	24%	ı
	10%	ı
	27%	ı
	4%	ı
	1%	ı
	2%	ı
	0%	ı
	0%	ı
	0%	l
	0%	l
	45%	
	1%	l
	2%	
	2%	
	100%	

Program	2023 (2nd Draft)
arge Commercial New Construction	\$2,738,478
arge Commercial Retrofit	\$4,745,760
mall Business Direct Install	\$691,708
ommercial & Industrial Multifamily	\$893,316
omprehensive Marketing - Commercial and Industrial	\$0
ommercial Pilots	\$12,422
inance Costs	\$0
ommunity Based Initiatives - C&I	\$31,154
IIB	\$1,262,509
ommercial Workforce Development	\$67,500
&I Total	\$10,442,847
ingle Family - Income Eligible Services	\$5,434,060
ncome Eligible Multifamily	\$3,219,824
ncome Eligible Workforce Development	\$0
ncome Eligible Total	\$8,653,884
nergy Star® HVAC	\$3,591,050
nergyWise	\$9,941,590
nergyWise Multifamily	\$1,487,356
lome Energy Reports	\$359,189
esidential New Construction	\$621,150
omprehensive Marketing - Residential	\$69,083
esidential Pilots	\$0
ommunity Based Initiatives - Residential	\$93,461
esidential Workforce Development	\$0
esidential Total	\$16,162,880
ERMC	\$283,444
DER	\$612,746
egulatory Total	\$896,190
ortfolio Total	\$36,155,801

2023 (2nd I Compared to Actuals	2020	2023 (2nd Draft Compared to 2021 Actuals)		2023 (2nd Draft) Compared to 2022 Plan		2023 (2nd Compared to Draf	2023 (1st
\$12,478	0%	\$168,778	7%	-\$448,106	-14%	\$236,043	9%
\$1,715,060	57%			\$49,456	1%	-\$550,043	-10%
\$1,713,060	416%	\$1,467,660 \$533,008		\$49,456	94%	\$330,846	92%
\$559,816	168%	-\$58,084	-6%	-\$63,948	-7%	\$133,987	18%
\$559,810	10070	\$0	-078	\$0	-770	\$133,987	10/0
-\$84,478	-87%	-\$93,078	-88%	-\$203,358	-94%	-\$255,620	-95%
-\$500,000	-100%	\$0	-0070	\$0	-3470	\$0	-55/0
\$31,154	10070	\$31,154		\$2,832	10%	\$0	0%
\$1,262,509		\$1,262,509		\$1,262,509	10/0	\$0	0%
\$67,500		\$67,500		\$0	0%	\$0	0%
\$3,621,647	53%	\$3,379,447	48%	\$935,208	10%	-\$104,763	-1%
\$3,212,160	145%	\$1,477,660	37%	-\$937,705	-15%	-\$25,908	0%
\$1,413,024	78%	\$455,224	16%	\$270,879	9%	-\$458,824	-12%
\$0		\$0		\$0	0,1	\$0	
\$4,625,184	115%	\$1,932,884	29%	-\$666,826	-7%	-\$484,732	-5%
-\$5,333,550	-60%	\$955,750	36%	-\$141,414	-4%	-\$583,601	-14%
\$7,420,490	294%	-\$6,285,610	-39%	\$1,295,660	15%	\$7,414	0%
\$827,656	125%	-\$120,844	-8%	-\$1,799	0%	-\$40,007	-3%
-\$7,311	-2%	-\$41,111	-10%	-\$82,639	-19%	-\$86,378	-19%
\$184,550	42%	\$223,550	56%	\$107,988	21%	-\$344,006	-36%
-\$14,317	-17%	-\$4,617	-6%	\$1,050	2%	-\$13	0%
\$0		\$0		\$0		\$0	
\$59,061	172%	\$55,261	145%	\$8,496	10%	\$0	0%
\$0		\$0		\$0		\$0	
\$3,136,580	24%	-\$5,217,620	-24%	\$1,187,344	8%	-\$1,046,592	-6%
-\$77,156	-21%	\$43,144	18%	-\$204,348	-42%	\$23,926	9%
\$251,546	70%	\$337,646	123%	-\$118,941	-16%	\$16,730	3%
\$174,390	24%	\$380,790	74%	-\$323,289	-27%	\$40,656	5%
\$11,557,801	47%	\$475,501	1%	\$1,132,437	3%	-\$1,595,431	-4%



Gas Lifetime Cost to Achieve (\$/MMBtu)

\$/LIFETIME MMBtu

Program	2023 (2nd Draft)
Large Commercial New Construction	\$4.20
Large Commercial Retrofit	\$5.15
Small Business Direct Install	\$5.31
Commercial & Industrial Multifamily	\$13.82
C&I Total	\$5.90
Single Family - Income Eligible Services	\$32.12
Income Eligible Multifamily	\$18.67
Income Eligible Total	\$25.33
Energy Star® HVAC	\$7.89
EnergyWise	\$24.69
EnergyWise Multifamily	\$13.47
Home Energy Reports	\$3.92
Residential New Construction	\$10.62
Residential Total	\$14.45
Portfolio Total	\$11.19

2023 (2nd Draft) Compared to 2022 Plan		
\$0.16	4%	
\$1.62	46%	
\$1.43	37%	
\$6.52	89%	
\$1.84	45%	
\$3.00	10%	
\$7.87	73%	
\$6.38	34%	
-\$0.60	-7%	
\$6.62	37%	
\$3.34	33%	
-\$0.80	-17%	
\$2.72	34%	
\$2.22	18%	
\$2.57	30%	

2023 (2nd Draft) Compared to 2023 (1st Draft)		
-\$0.73	-15%	
-\$0.58	-10%	
-\$0.28	-5%	
\$1.20	9%	
-\$0.87	-13%	
-\$0.15	0%	
-\$0.05	0%	
\$0.34	1%	
-\$0.19	-2%	
\$3.43	16%	
\$2.13	19%	
-\$2.08	-35%	
-\$4.70	-31%	
\$0.75	5%	
-\$0.68	-6%	



Gas Annual Cost to Achieve (\$/MMBtu)

\$/ANNUAL MMBtu

Program	2023 (2nd Draft)	2023 (2nd I Compare 2022 Pla
Large Commercial New Construction	\$60.03	-\$0.15
Large Commercial Retrofit	\$57.55	\$24.68
Small Business Direct Install	\$71.14	\$12.93
Commercial & Industrial Multifamily	\$210.25	\$101.51
C&I Total	\$73.51	\$28.40
Single Family - Income Eligible Services	\$660.25	\$77.95
Income Eligible Multifamily	\$290.73	\$90.12
Income Eligible Total	\$448.26	\$84.77
Energy Star® HVAC	\$132.86	-\$6.73
EnergyWise	\$480.33	\$65.65
EnergyWise Multifamily	\$277.58	\$97.71
Home Energy Reports	\$3.92	-\$0.80
Residential New Construction	\$188.97	\$46.81
Residential Total	\$109.20	\$11.34
Portfolio Total	\$116.87	\$26.93

(2nd Draft) pared to 22 Plan			•	:) ed to
0.15	0%	-\$11	.86	-17%
4.68	75%	-\$8	.31	-13%
2.93	22%	\$7	.70	12%
1.51	93%	\$18	.00	9%
8.40	63%	-\$10	.96	-13%
7.95	13%	-\$3	.15	0%
0.12	45%	-\$0	.03	0%
4.77	23%	\$10	.64	2%
6.73	-5%	-\$3	.17	-2%
5.65	16%	-\$23	.30	-5%
7.71	54%	\$41	.35	18%
08.0	-17%	-\$2	.08	-35%
6.81	33%	-\$88	.72	-32%
1.34	12%	-\$18	.66	-15%
5.93	30%	-\$17	.79	-13%



Gas Portfolio Net Benefits

Gas Total Benefits

of 2022 rtfolio
13%
19%
1%
7%
40%
12%
12%
24%
12%
13%
7%
2%
2%
36%
100%

Program	2023 (1st Draft) - Net Benefits	2023 (2nd Draft) - Net Benefits
Large Commercial New Construction	\$8,617,498	\$18,658,402
Large Commercial Retrofit	\$11,056,504	\$21,538,960
Small Business Direct Install	\$915,919	\$3,015,368
Commercial & Industrial Multifamily	\$5,063,590	\$5,315,414
C&I Total	\$25,653,510	\$48,528,144
Single Family - Income Eligible Services	\$4,673,599	\$7,091,055
Income Eligible Multifamily	\$7,097,887	\$7,282,428
Income Eligible Total	\$11,771,485	\$14,373,482
Energy Star® HVAC	\$6,591,438	\$9,592,617
EnergyWise	\$1,004,115	\$7,508,763
EnergyWise Multifamily	\$4,726,636	\$5,594,860
Home Energy Reports	\$933,256	\$3,473,351
Residential New Construction	\$591,098	\$1,052,200
Residential Total	\$13,846,544	\$27,221,792
Portfolio Total	\$51,271,540	\$90,123,419

2023 (2nd Draft) Compared to 2023 (1st Draft)				
\$10,040,904	117%			
\$10,482,456	95%			
\$2,099,449	229%			
\$251,825	5%			
\$22,874,634	89%			
\$2,417,456	52%			
\$184,541	3%			
\$2,601,997	22%			
\$3,001,179	46%			
\$6,504,647	648%			
\$868,224	18%			
\$2,540,095	272%			
\$461,102	78%			
\$13,375,248	97%			
\$38,851,879	76%			



Active Demand kW Savings

ConnectedSolutions (kWs Active Demand)

Program	2023 (2nd Draft)
Commercial ConnectedSolutions	36,000
Residential ConnectedSolutions	7,900
Portfolio Total	43,900

2023 (2nd Draft) Compared to 2022 Plan	
3,600.0	11%
534.9	7%
4,134.9	10%

2023 (2nd Draft) Compared to 2023 (1st Draft)		
-1,800.0	-5%	
22.0	0%	
-1,778.0	-4%	



Active Demand Cost to Achieve (\$/kW)

ConnectedSolutions (\$/kW)

Program	2023 (2nd Draft)
Commercial ConnectedSolutions	\$154.00
Residential ConnectedSolutions	\$249.50
Portfolio Total	\$171.19

C	2023 (2nd D Compared to Plan	•
	\$18.40	14%
	\$2.03	1%
	\$14.86	10%

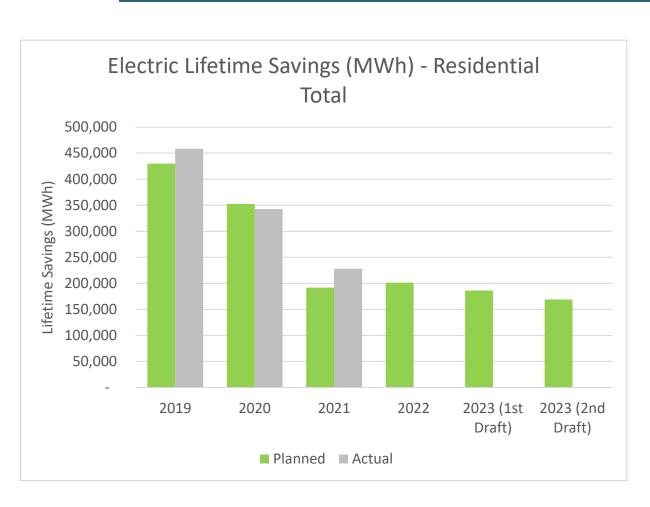
2023 (2nd Draft) Compared to 2023 (1st Draft)		
-\$44.50	-22%	
-\$2.52	-1%	
-\$36.54	-18%	

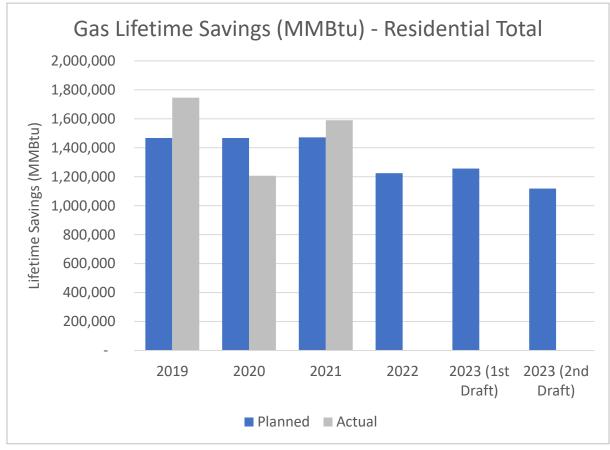






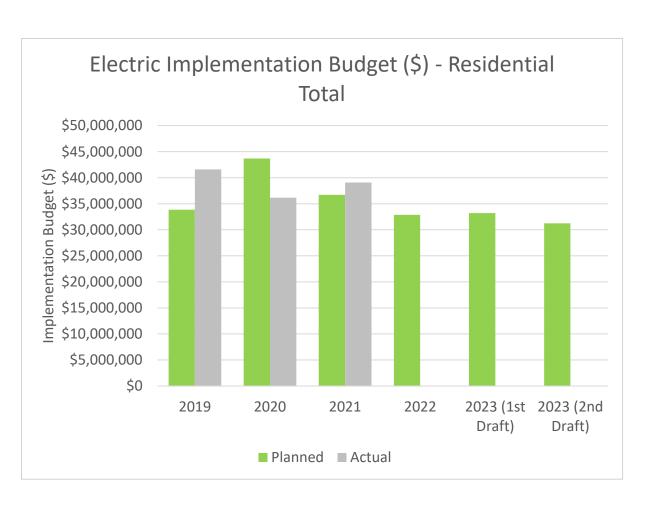
Residential Lifetime Savings

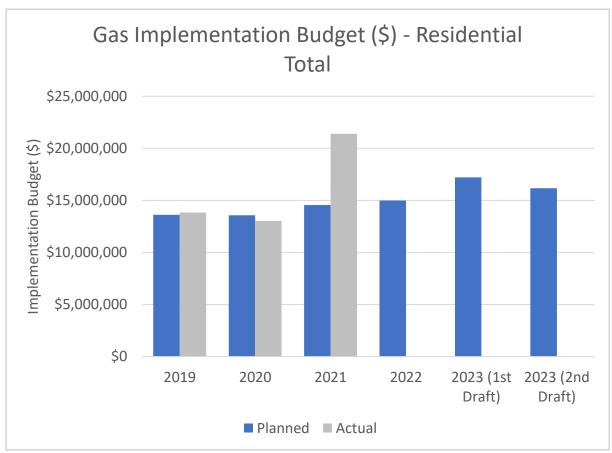






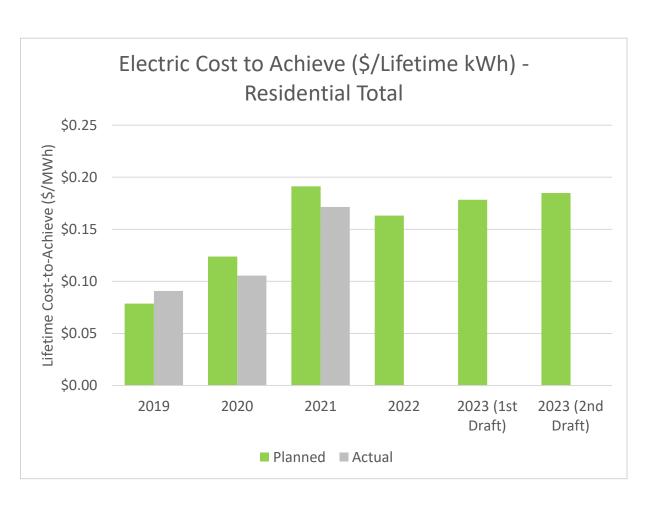
Residential Implementation Budget

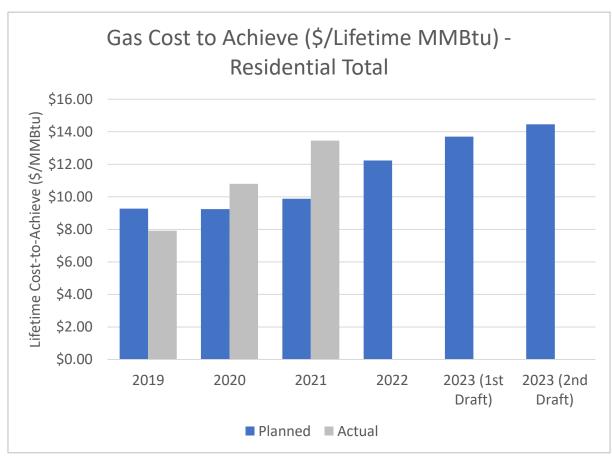






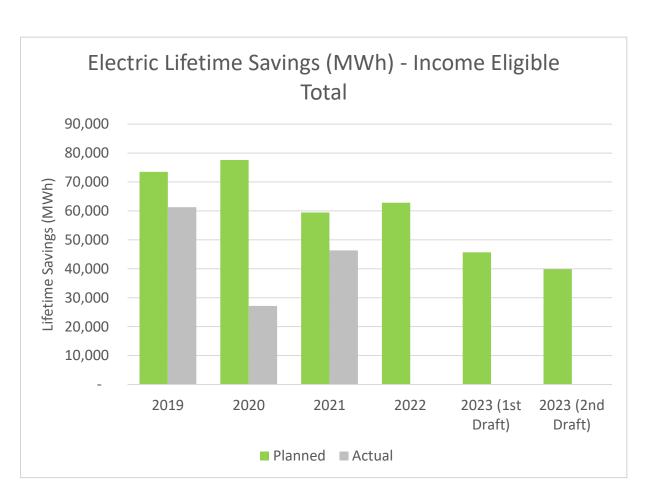
Residential Lifetime Cost-to-Achieve

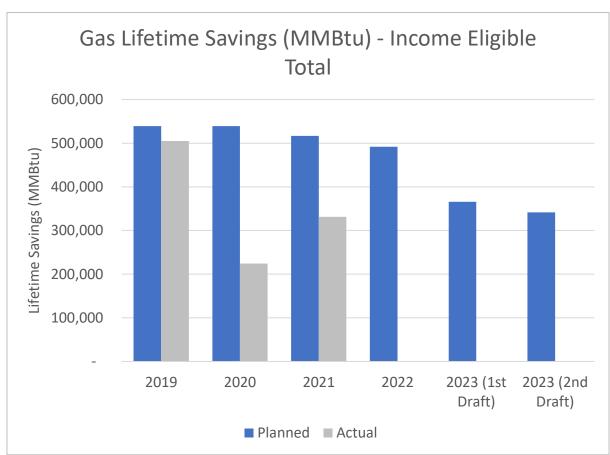






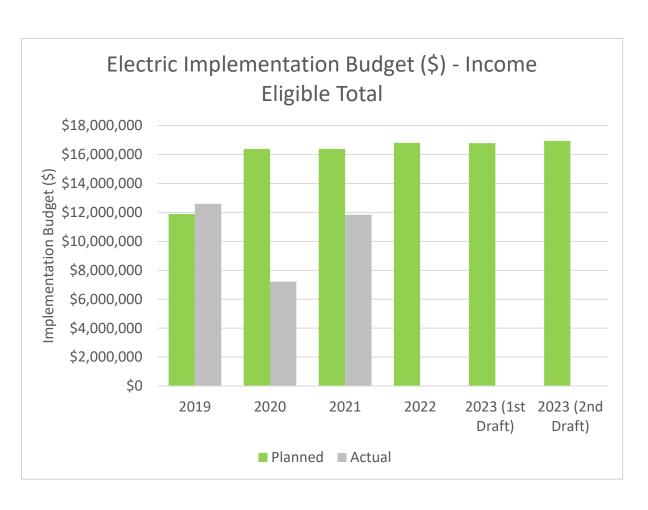
Income Eligible Lifetime Savings

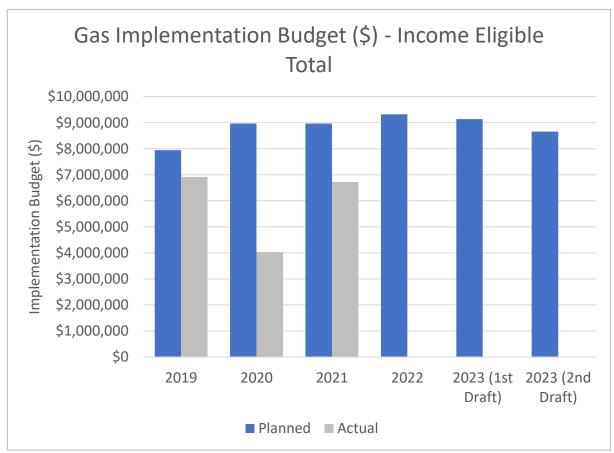






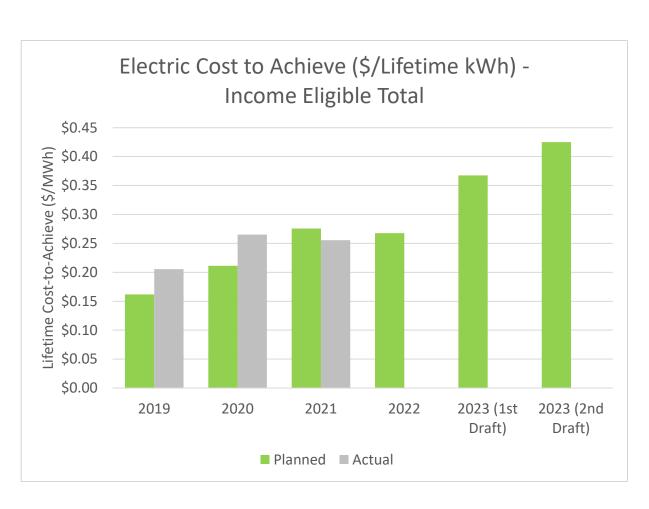
Income Eligible Implementation Budget

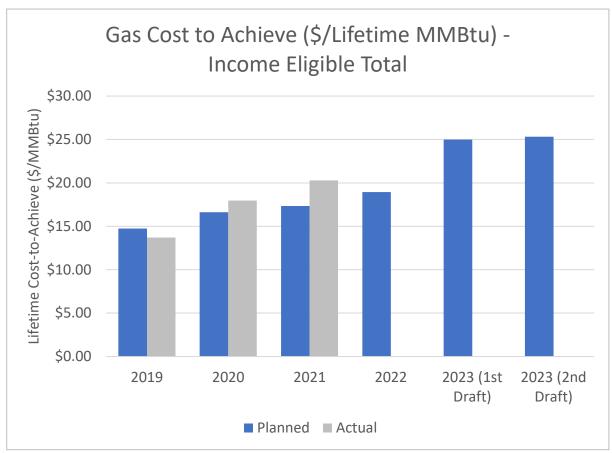






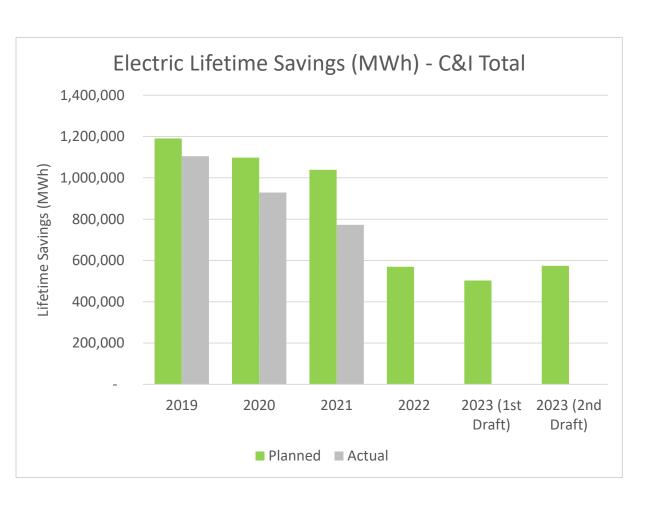
Income Eligible Lifetime Cost-to-Achieve

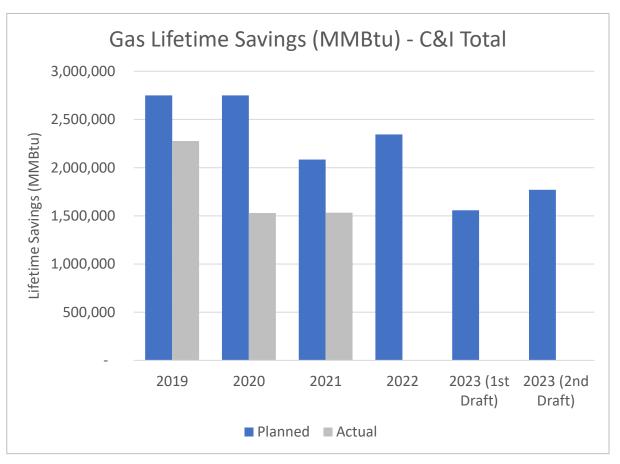






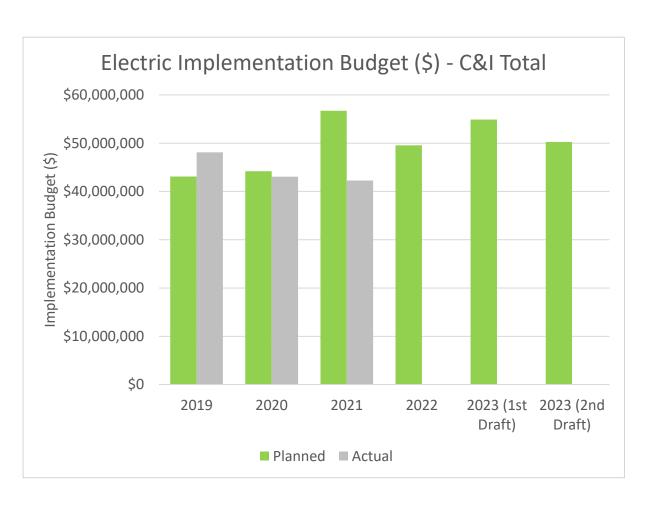
C&I Lifetime Savings

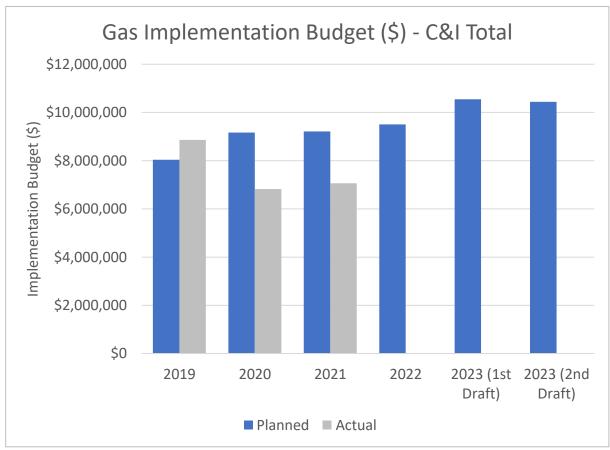






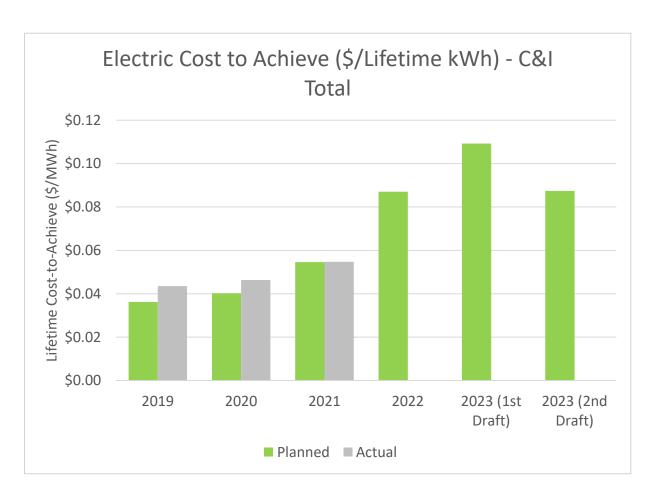
C&I Implementation Budget

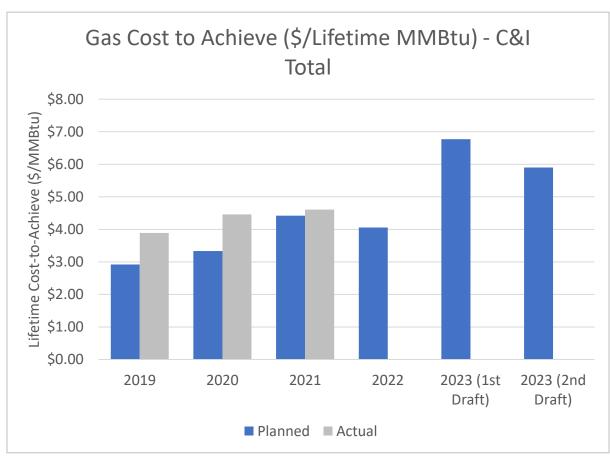






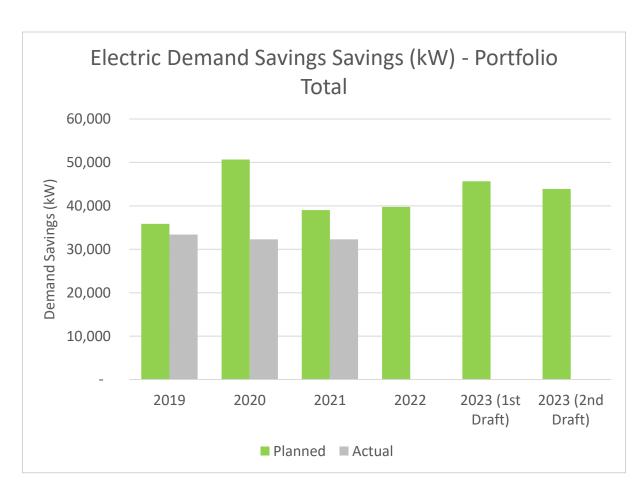
C&I Lifetime Cost-to-Achieve

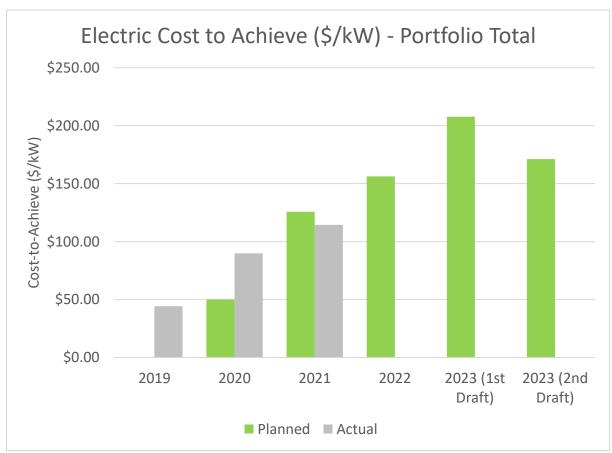






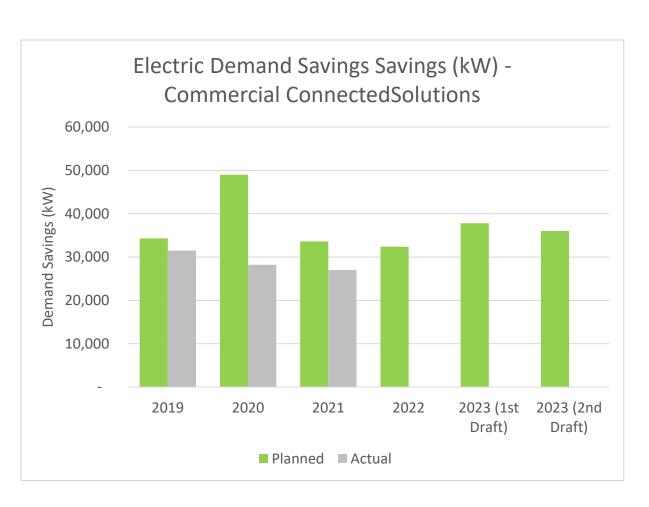
Active Demand - Electric Portfolio

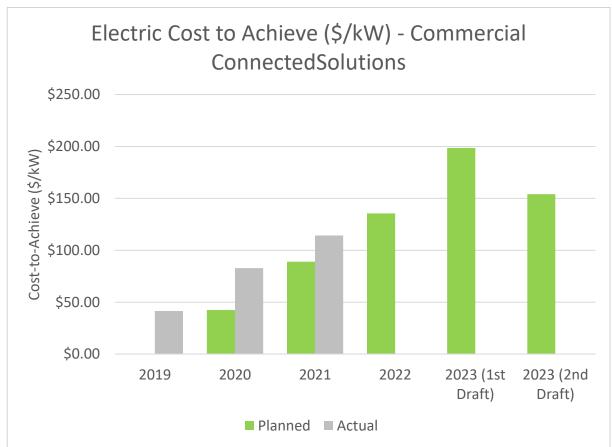






Active Demand – C&I Connected Solutions







Active Demand – Res Connected Solutions

