MA ENERGY EFFICIENCY ADVISORY COUNCIL

→ CONSULTANT TEAM

2022 YEAR END RESULTS

▶ July 19, 2023

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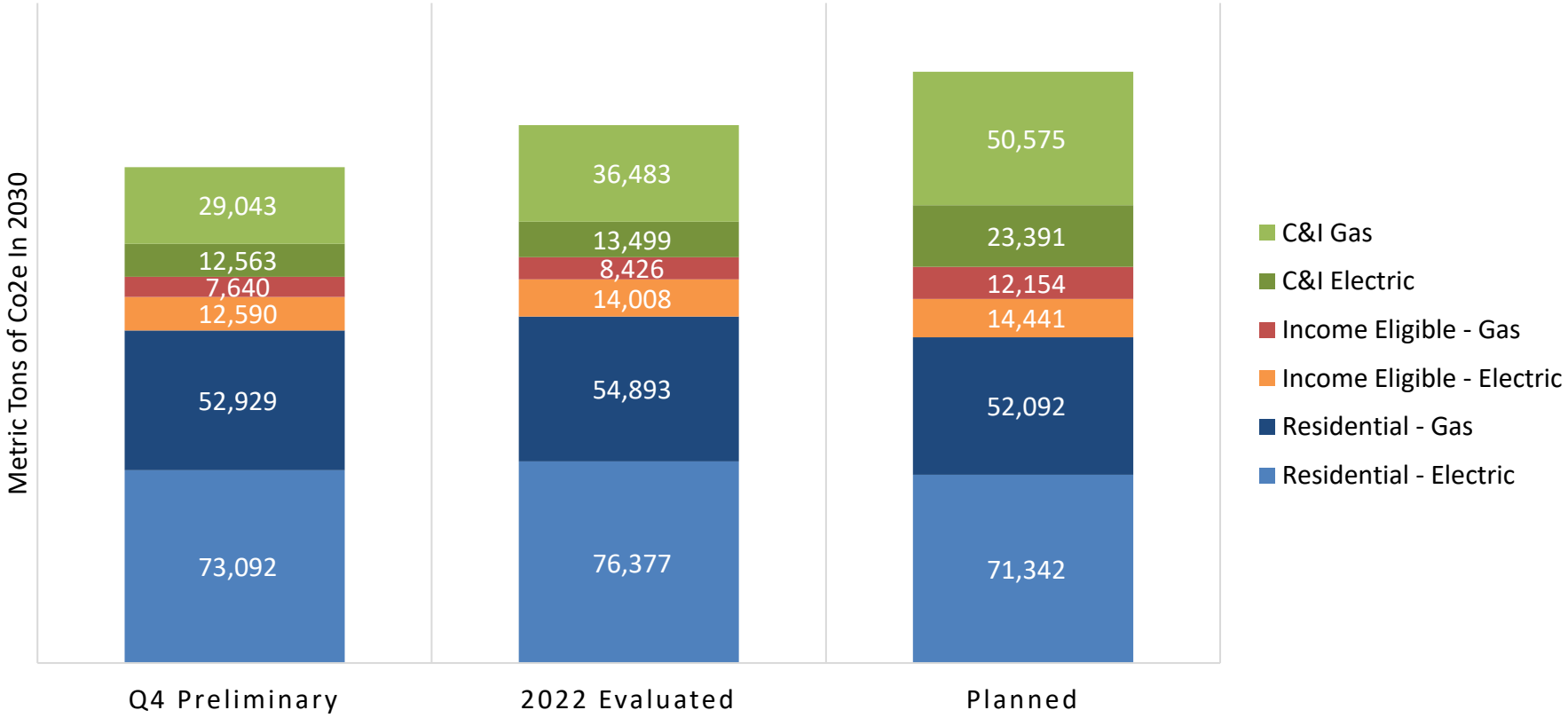
INTRODUCTION

- **C-Team presented on 2022 results in Q4 presentation at March EEAC meeting**
- **Year-end data reflects revised inputs resulting from evaluation studies (EM&V) and PA data corrections**
- **Many changes between Q4 and the annual results driven by year end close out process**
- **BCR models provide measure level data for all offerings in all sectors**
- **Purpose of this presentation is to:**
  - Highlight variances from Q4 data
  - Discuss additional conclusions drawn from year-end data and reports

NOTABLE UPDATES FROM Q4 2022 REPORT

TOTAL GHG SAVINGS



- **Large increase in C&I Gas savings driven by National Grid**
- **Portfolio GHG achievement now at 91% of plan for 2022**

OTHER MAJOR VARIANCES

- **CLC had large increases in multiple categories compared to Q4**

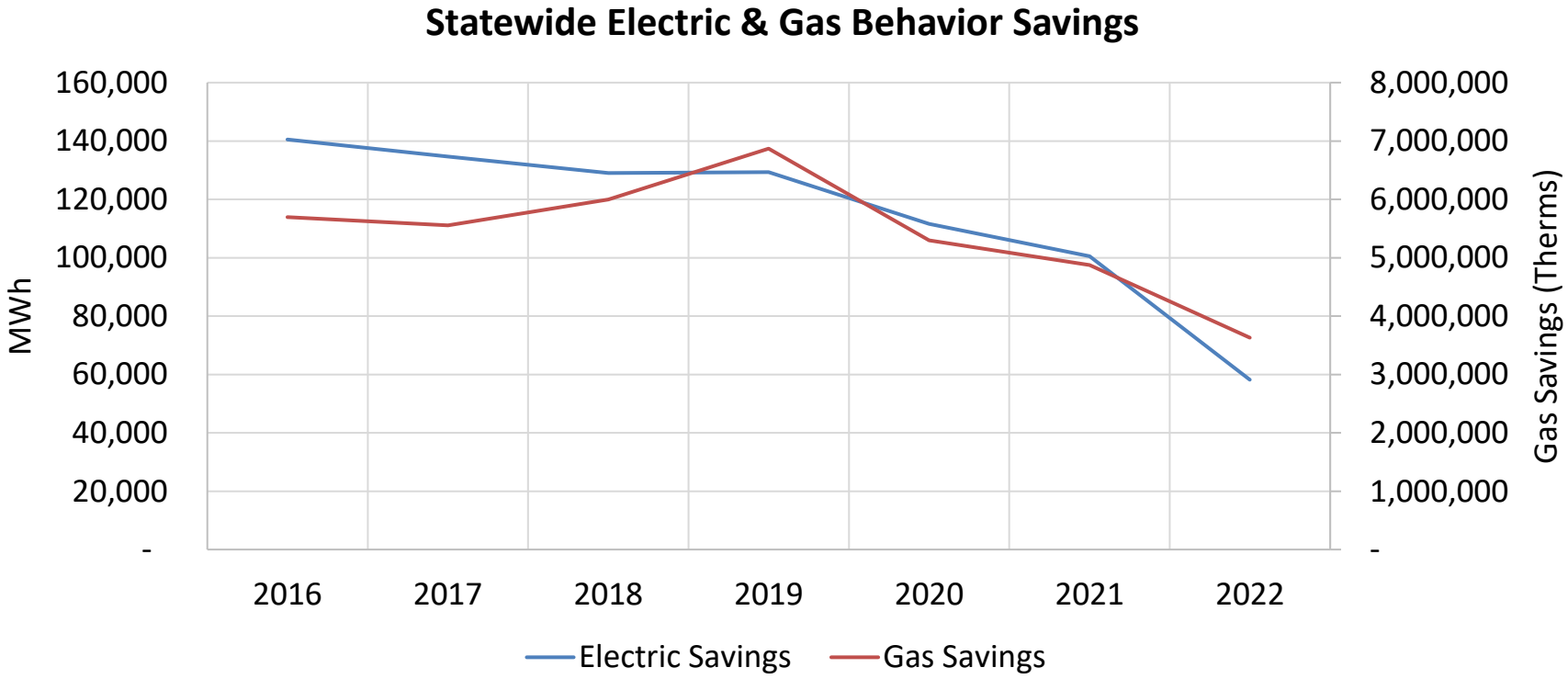
Percent Increase Over Q4 values

Sector	Annual Savings (MMBtu)	Lifetime Savings (MMBtu)	Avoided CO2 in 2030	Total Benefits	Total Costs
Residential	7%	8%	15%	10%	19%
IES	24%	33%	55%	20%	44%
C&I	28%	28%	46%	35%	19%
Total	**15%**	**14%**	**20%**	**15%**	**23%**

- **Other notable variances are:**
  - Berkshire Gas C&I Annual Savings (47% +)
  - Berkshire Gas IES Savings (12% -)
  - National Grid Gas C&I GHG (58% +)

ANNUAL REPORT

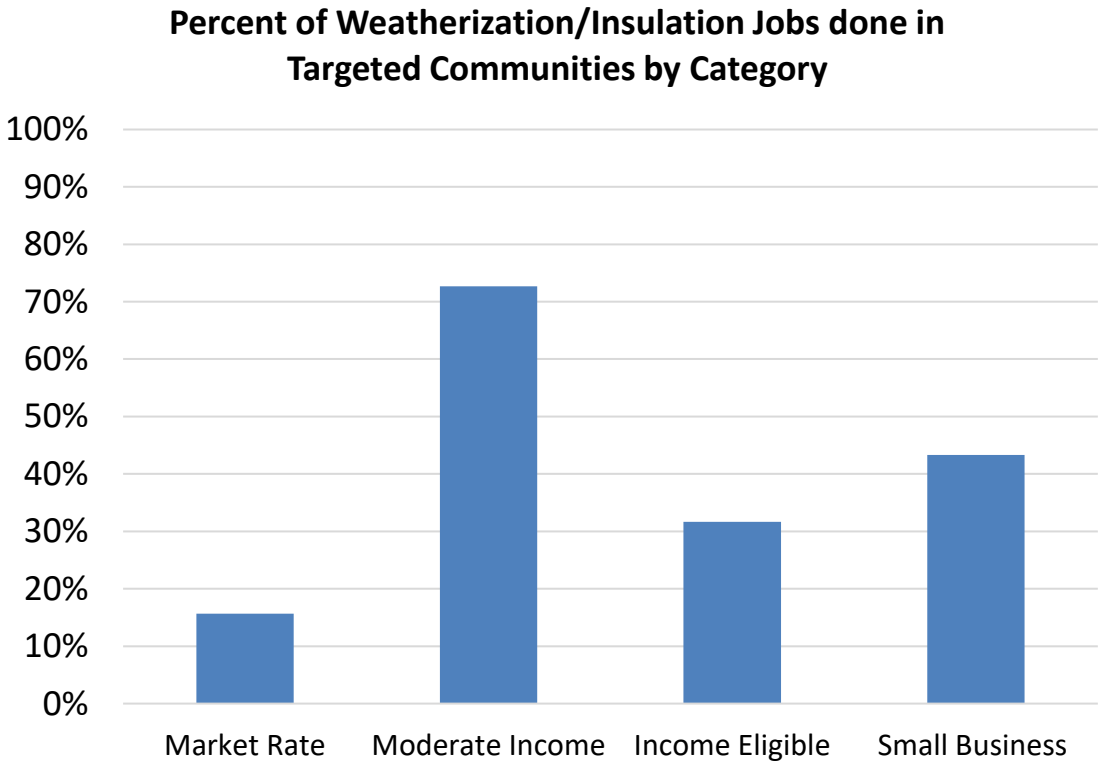
BEHAVIOR PROGRAM RESULTS



- **Eversource claimed no behavior savings in 2022**

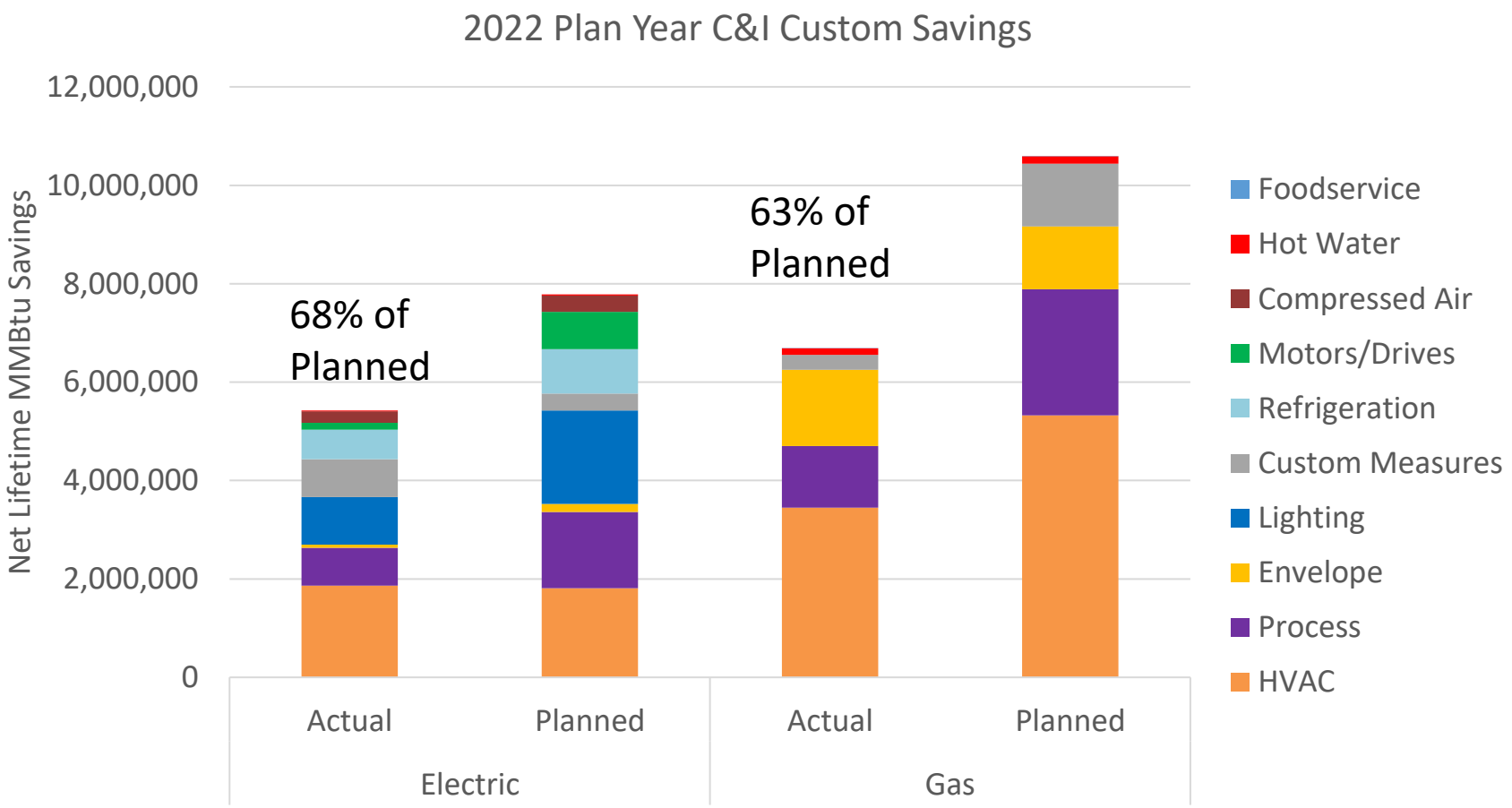
RESIDENTIAL ENVELOPE SAVINGS

- **Targeted EJ communities outside of Boston make up 36% of the state's population (see KPI #6)**



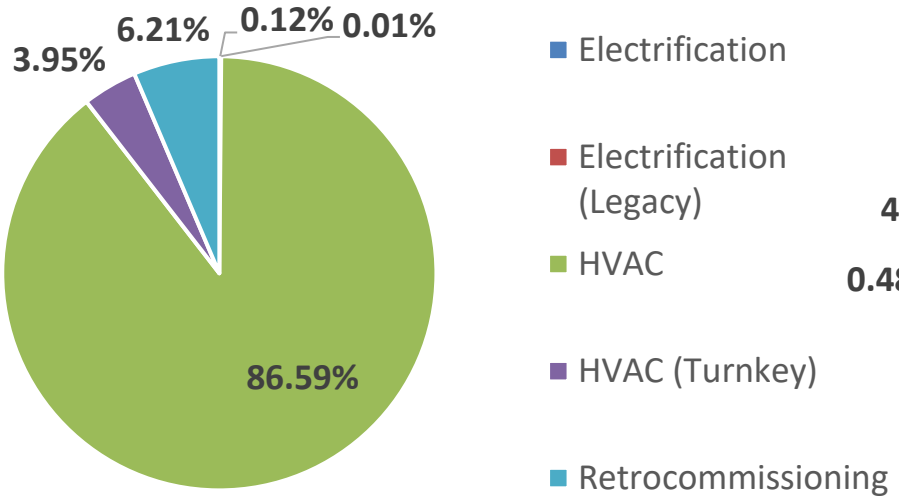
Category	Targeted Community	Total
Market Rate (including renters)	6,345	40,466
Moderate Income	141	194
Income Eligible	2,906	9,179
Small Business	65	150

C&I CUSTOM – BY MEASURE TYPES

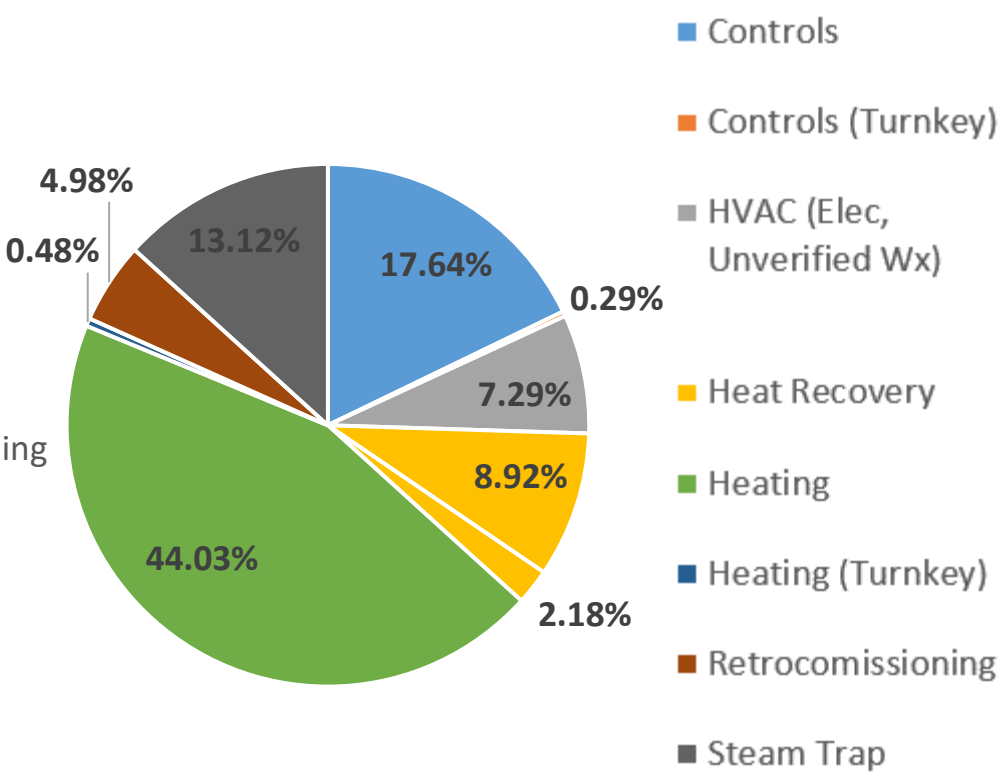


C&I HVAC – BY MEASURE TYPES

Electric HVAC - Custom Breakout



Gas HVAC - Custom Breakout



Custom Projects =

33% of C&I Electric Savings
76% of C&I Gas Savings

THANK YOU

Questions?

APPENDIX

BENEFITS BY CATEGORY - % OF 2022 PLAN - UPDATED

	Sector	Base Benefits	Equity Benefits	Electrification Benefits	Total Benefits
Statewide Electric	Residential	121%	65%	64%	95%
	IES	126%	84%	23%	97%
	C&I	84%	117%	3%	78%
	Total	**100%**	**80%**	**38%**	**87%**
Statewide Gas	Residential	100%	79%	560%	93%
	IES	111%	145%	0 planned, 126k achieved	126%
	C&I	69%	87%	39%	68%
	Total	**91%**	**108%**	**68%**	**94%**

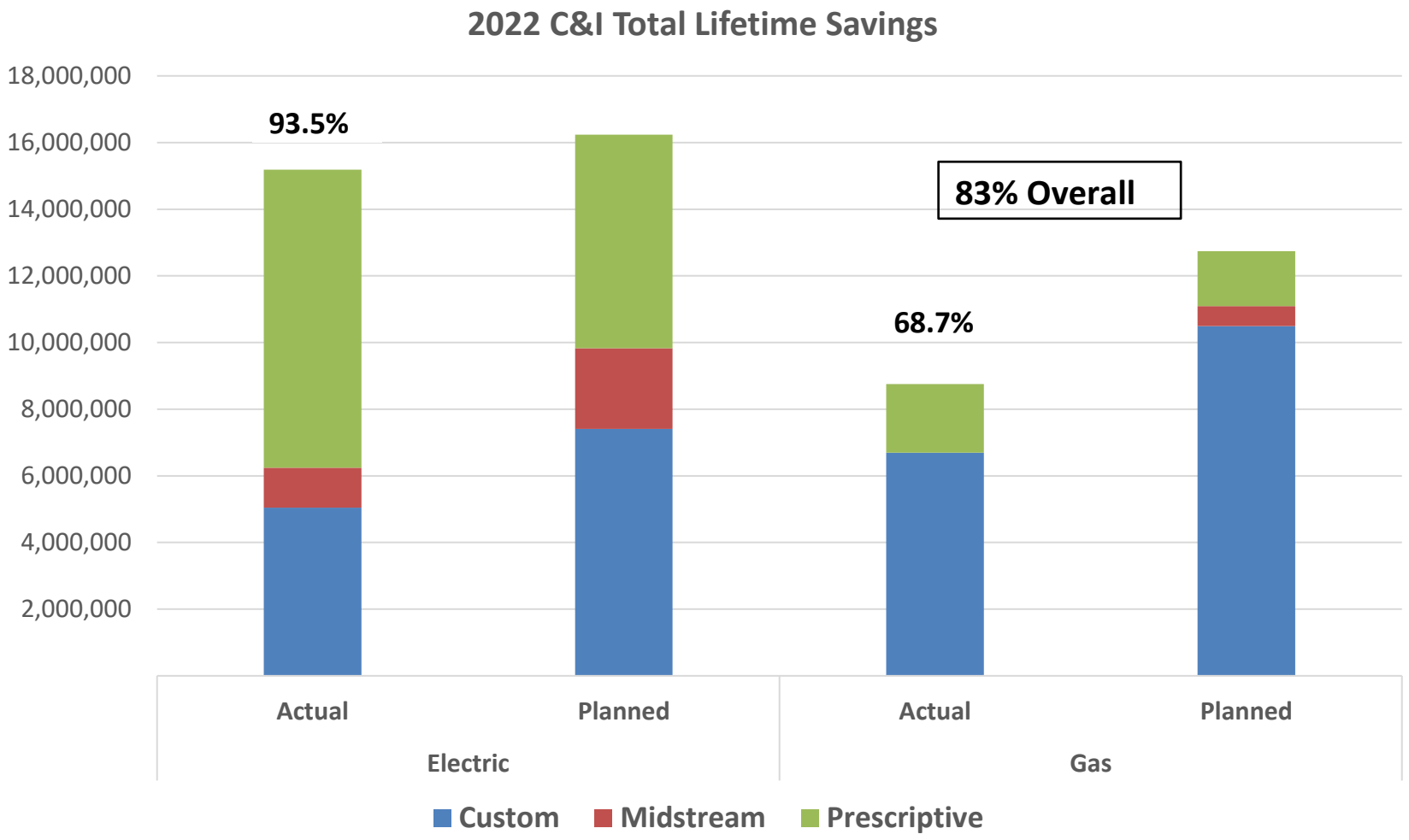
BENEFITS BY CATEGORY - % OF 2022 PLAN – ELECTRIC PA'S

	Sector	Base Benefits	Equity Benefits	Electrification Benefits	Total Benefits
Eversource	Residential	98%	104%	116%	101%
	IES	79%	113%	7%	80%
	C&I	89%	172%	16%	93%
	Total	**91%**	**125%**	**72%**	**94%**
National Grid	Residential	146%	52%	44%	90%
	IES	204%	61%	47%	117%
	C&I	80%	70%	0%	63%
	Total	**113%**	**57%**	**25%**	**81%**
Unitil	Residential	172%	156%	82%	146%
	IES	38%	78%	0%	58%
	C&I	13%	262%	97%	35%
	Total	**52%**	**152%**	**80%**	**78%**

BENEFITS BY CATEGORY - % OF 2022 PLAN – GAS PA'S

	Sector	Base Benefits	Equity Benefits	Electrification Benefits	Total Benefits
Eversource	Residential	78%	98%	383%	86%
	IES	75%	138%		112%
	C&I	78%	138%	33%	78%
	Total	**78%**	**120%**	**56%**	**91%**
National Grid	Residential	117%	63%	670%	97%
	IES	134%	158%	0 planned, 126k achieved	142%
	C&I	63%	64%	41%	60%
	Total	**102%**	**96%**	**72%**	**97%**

BENEFITS BY CATEGORY - % OF 2022 PLAN – GAS PA'S – CONT.

	Sector	Base Benefits	Equity Benefits	Electrification Benefits	Total Benefits
Unitil	Residential	81%	149%	0 planned, 18k achieved	114%
	IES	26%	90%		60%
	C&I	23%	231%	0 planned, 17k achieved	67%
	Total	**39%**	**134%**	**0 planned, 35k achieved**	**79%**
Liberty	Residential	103%	100%	258%	101%
	IES	198%	67%		75%
	C&I	60%	46%	0 planned, 53k achieved	55%
	Total	**87%**	**77%**	**710%**	**80%**
Berkshire	Residential	75%	89%	446%	82%
	Income Eligible	20%	355%		109%
	Commercial & Industrial	69%	56%	0 planned, 188k achieved	70%
	Total	**53%**	**157%**	**5,036%**	**87%**

C&I TOTAL NET LIFETIME SAVINGS