



STATE OF RHODE ISLAND

**ENERGY EFFICIENCY &  
RESOURCE MANAGEMENT COUNCIL**

CONSULTANT TEAM

# Consultant Team Review Provisional 2022 Annual Plan

**Presented By:** EERMC Consultant Team

**Date:** October 21, 2021



# Outline

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Provisional Plan Overview

Portfolio Level Changes

Detailed Changes

Summary & Discussion



# PROVISIONAL PLAN OVERVIEW





# Provisional Plan Overview

National Grid issued 2022 Energy Efficiency Plan on Sept. 8<sup>th</sup>

Commission subsequently requested a supplemental provisional filing reallocating budget for 'RI Grows' CHP Project to other areas

National Grid filed 2022 Energy Efficiency Plan on Oct. 1<sup>st</sup>

National Grid filed supplemental version of Electric Tables on Oct. 8<sup>th</sup> reflecting reallocated budget and quantitative impacts

At Oct. 14 Open Meeting, the PUC indicated that it would only be reviewing the provisional plan in the EE Plan Docket (#5189)

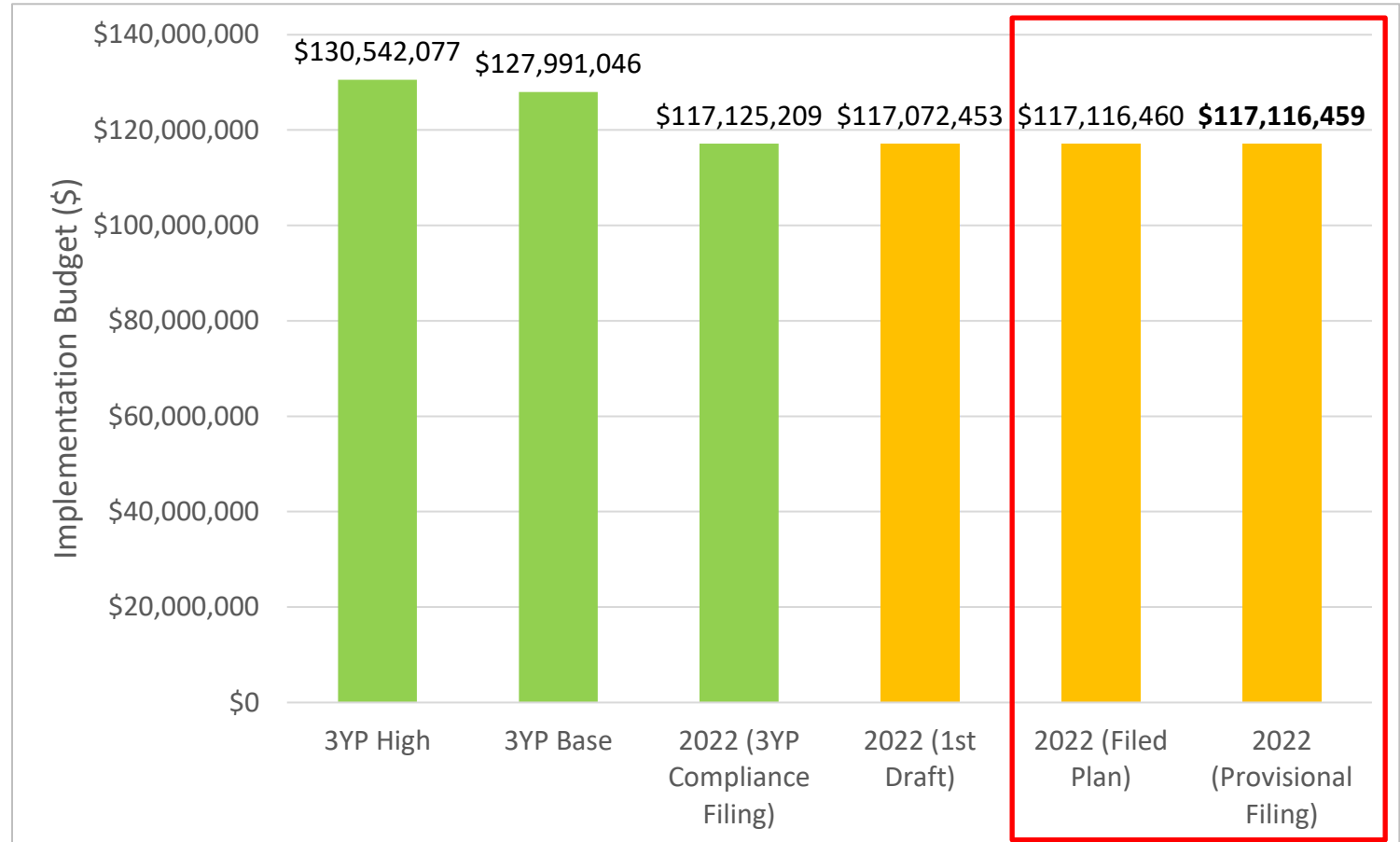


# HIGH-LEVEL PORTFOLIO FINDINGS



# Electric Portfolio Budget (\$)

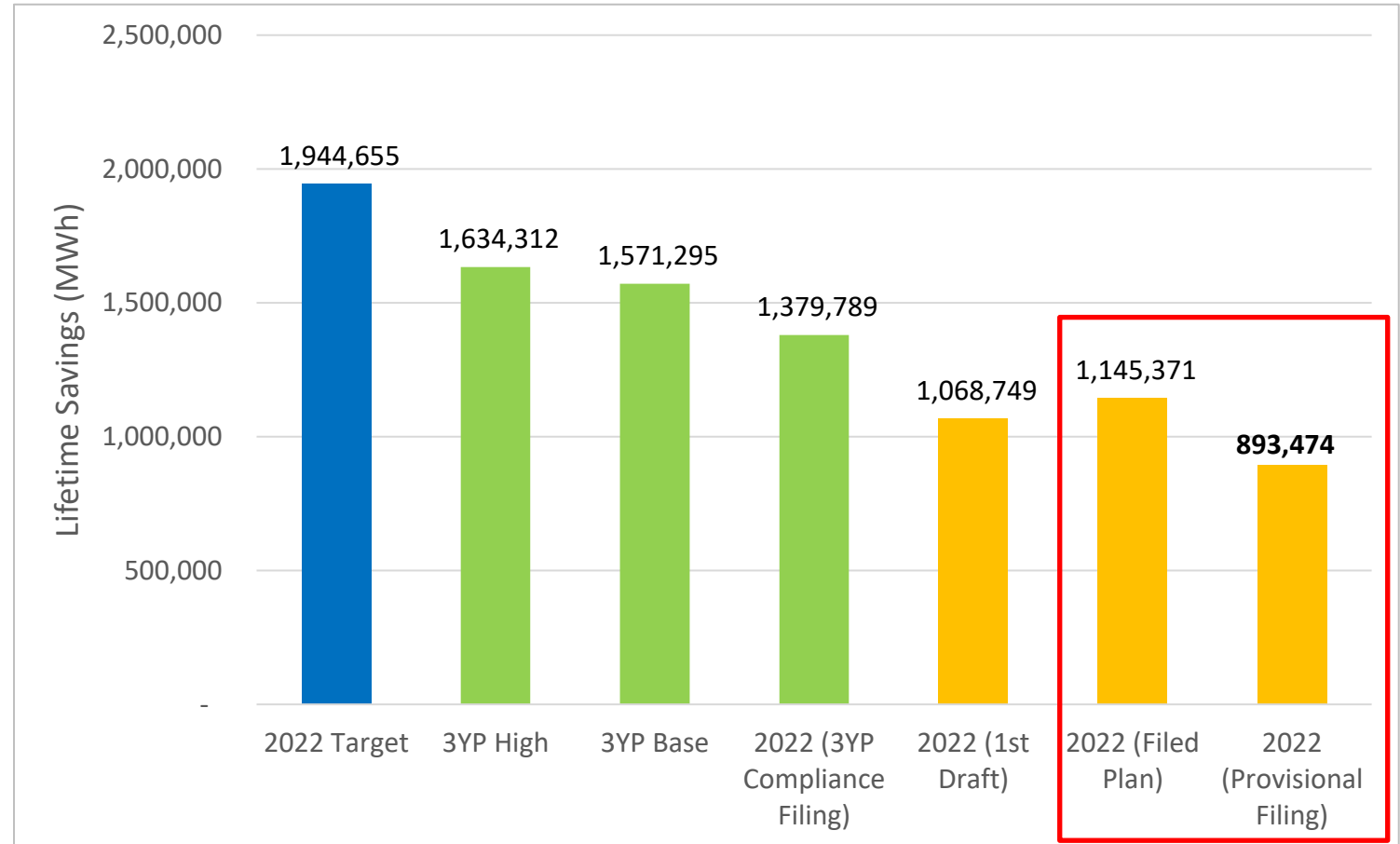
Electric Portfolio Budget virtually identical between Filed Plan and Provisional Filing, though underlying shifts between programs and spending categories occurred





# Electric Portfolio Lifetime Savings (MWh)

Electric Portfolio Lifetime Savings decreased by 251,897 MWh, driven by RI Grows CHP incentive reallocation

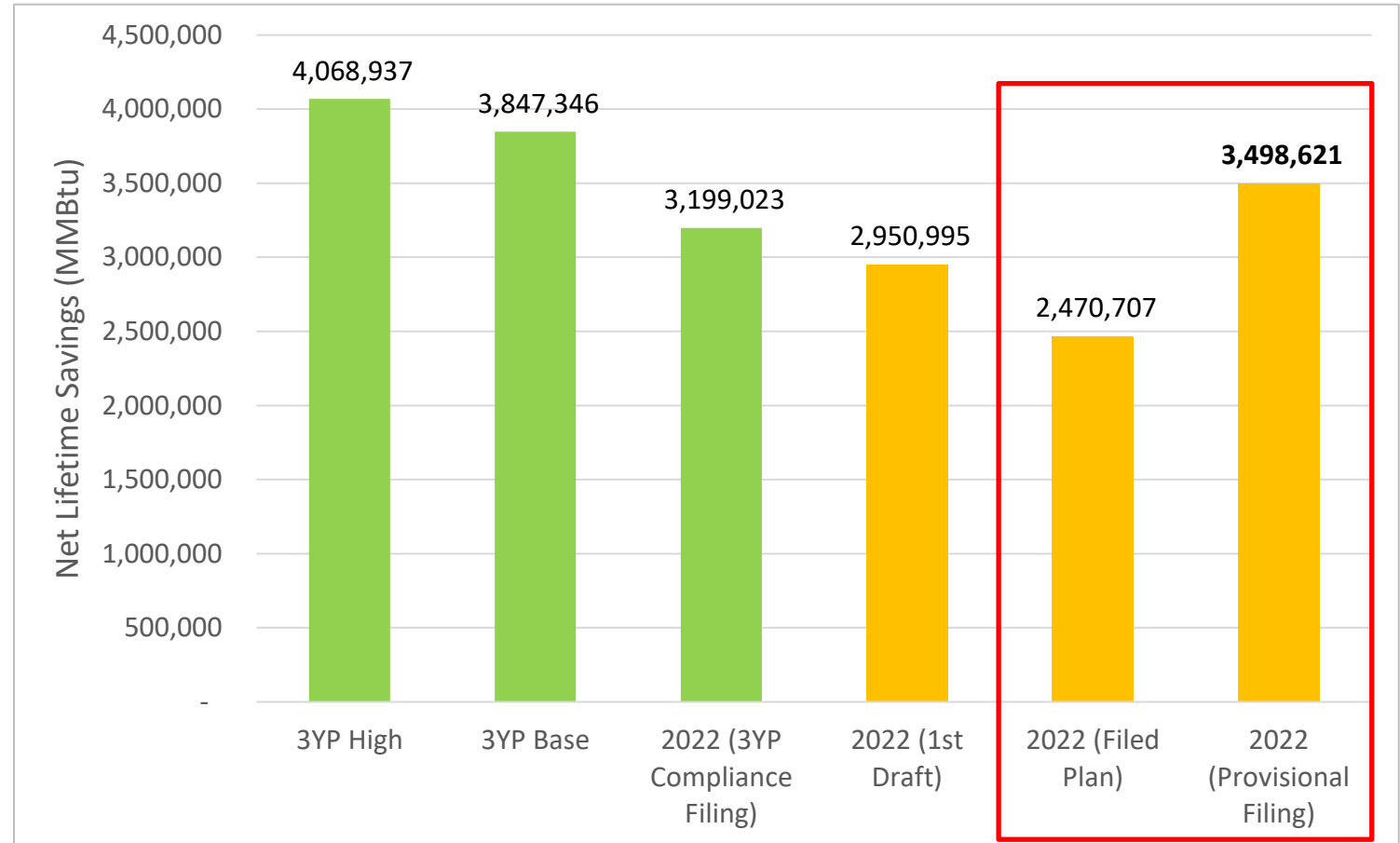




# Electric Portfolio Lifetime Savings (MMBtu)

Electric Portfolio saves 1,027,914 MMBtu more in Provisional Filing than Filed Plan

- Avoids CHP gas consumption
- Saves over 14,000 tons CO<sub>2</sub> emissions







# Electric Portfolio Cost-to-Achieve (\$/kWh)

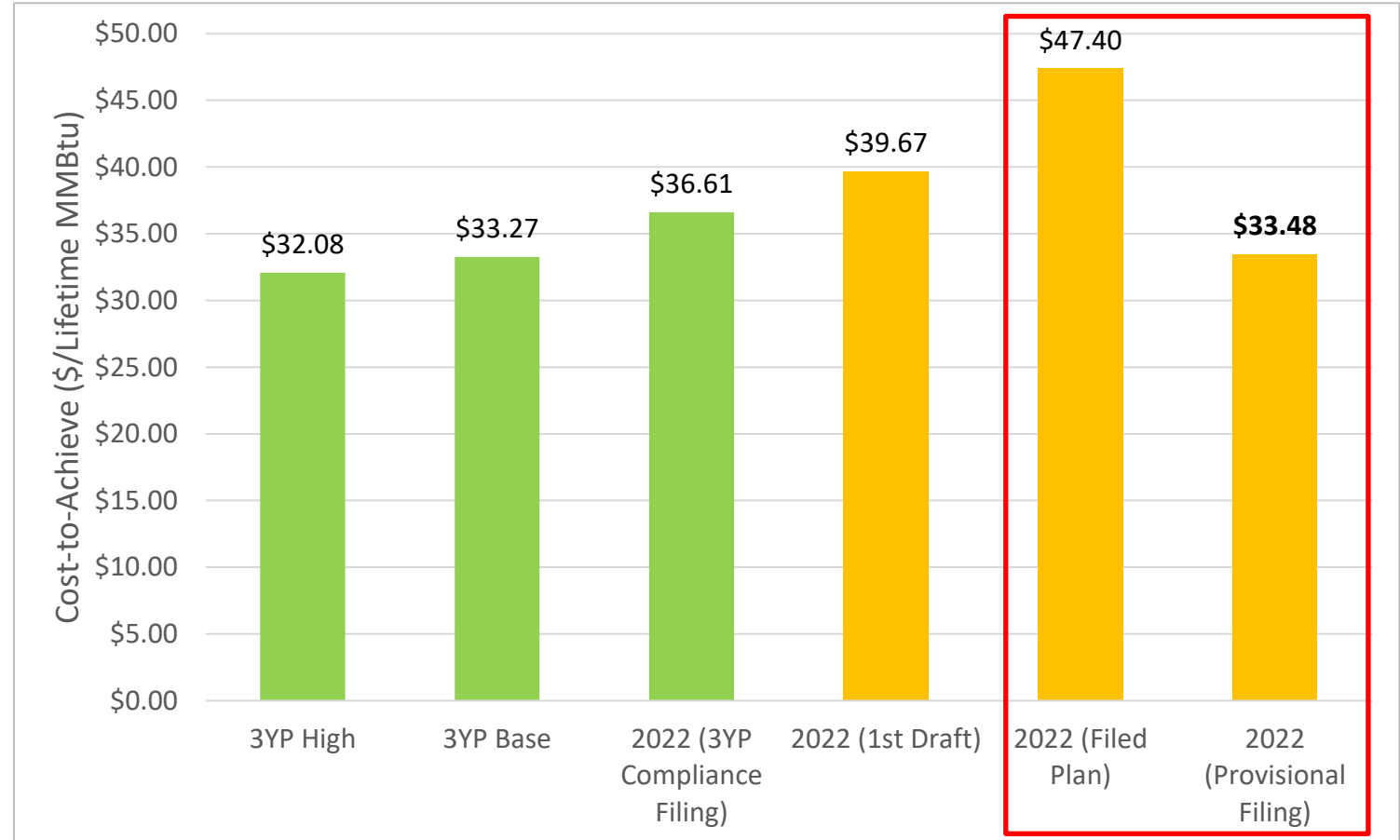
Electric Portfolio Lifetime Cost-to-Achieve (\$/kWh) increased \$0.03 between Filed Plan and Provisional Filing





# Electric Portfolio Cost-to-Achieve (\$/MMBtu)

Electric Portfolio Lifetime Cost-to-Achieve (\$/MMBtu) decreased \$13.93 between Filed Plan and Provisional Filing



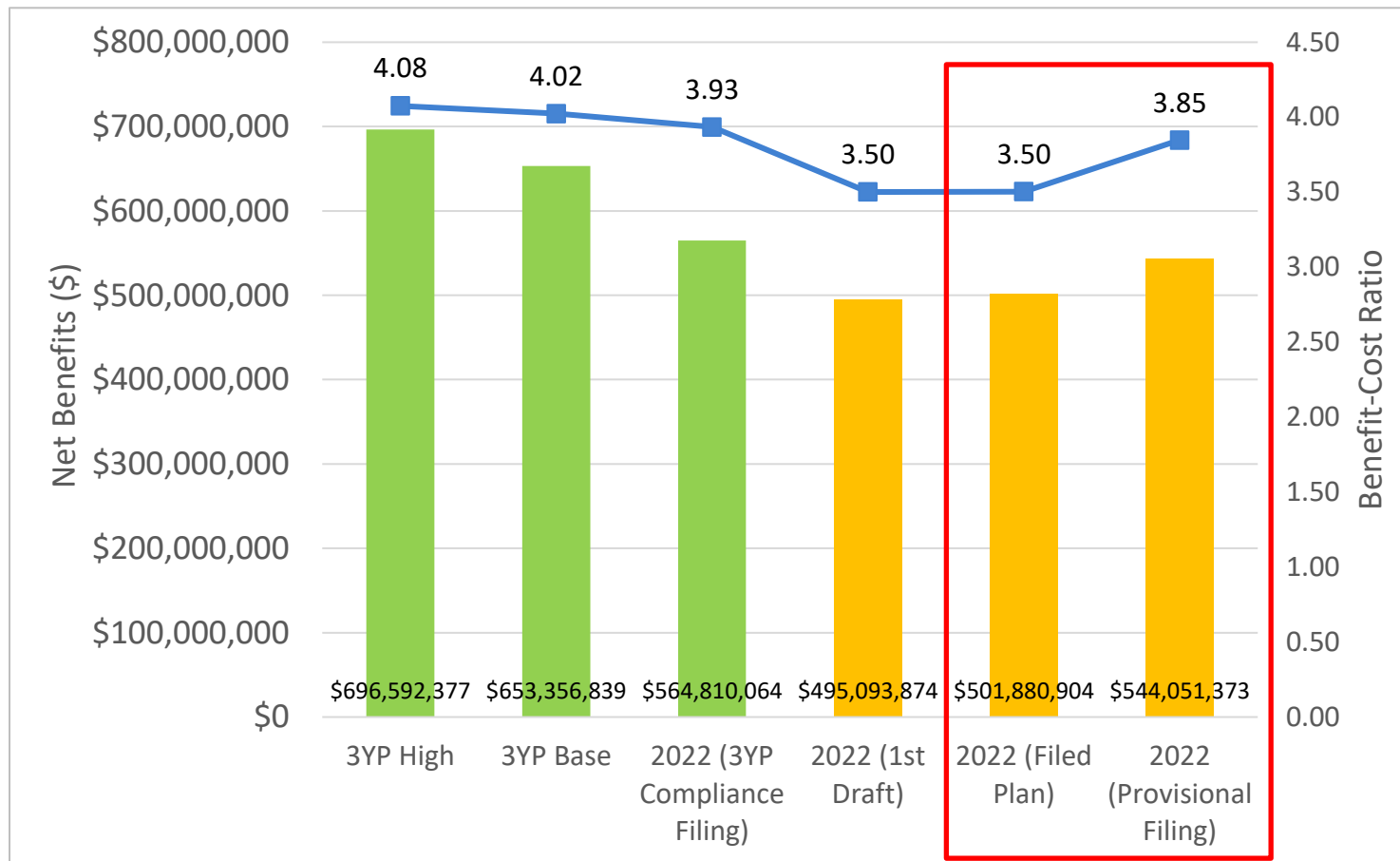


# Electric Portfolio Net Benefits and BCR

Electric Portfolio Net Benefits including Economic Benefits increased \$42,170,469 between Filed Plan and Provisional Filing.

RI Test w/ Economic Multipliers			
	Filed Plan	Provisional Filing	Delta
<b>Net Benefits</b>	\$501,880,904	\$544,051,373	\$42,170,469
<b>BCR</b>	3.50	3.85	0.35

RI Test w/o Economic Multipliers			
	Filed Plan	Provisional Filing	Delta
<b>Net Benefits</b>	\$234,620,105	\$236,265,877	\$1,645,772
<b>BCR</b>	1.64	1.67	0.03



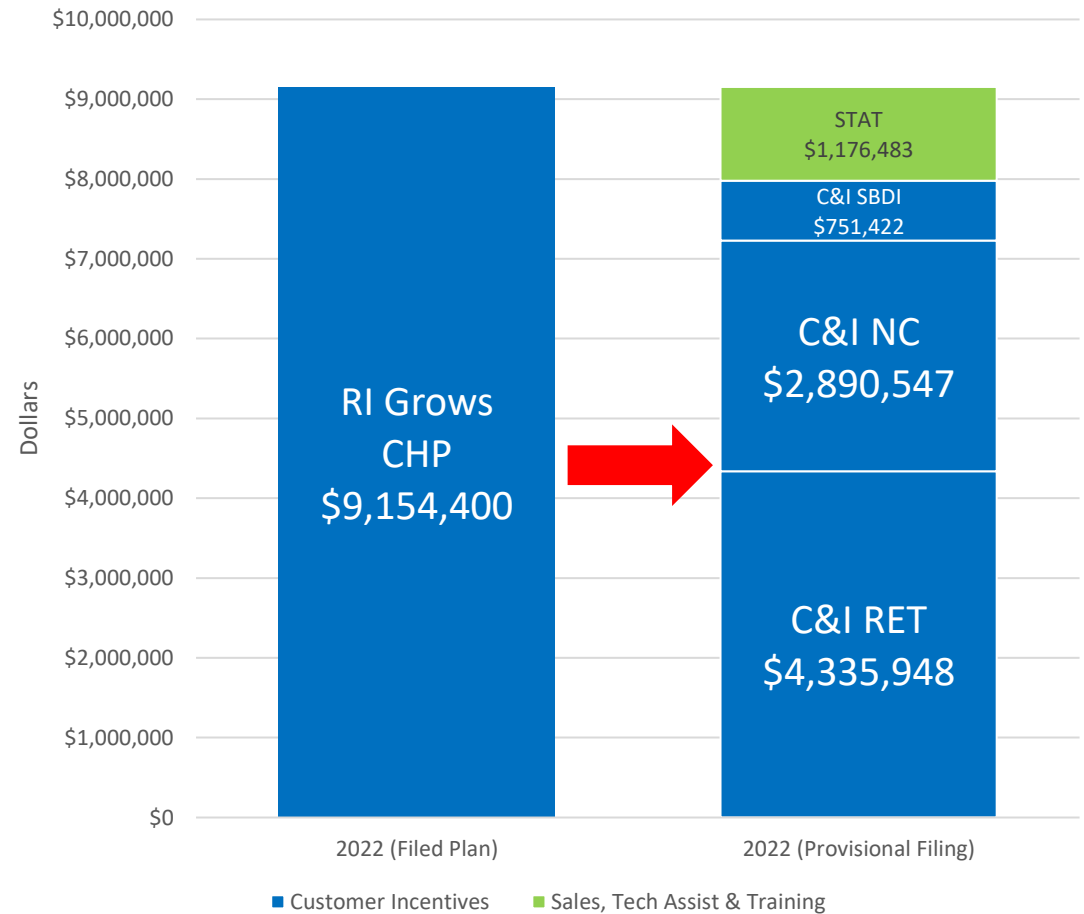


# DETAILED CHANGES



# Reallocation of RI Grows CHP Incentive

- \$8M for **customer incentives** in other C&I initiatives
- \$1.2M for **Sales, Technical Assistance and Training**
  - 99.9% to C&I Programs
  - A very small amount (~\$400) spread out across residential and income eligible programs





# Other Shifts in Budget

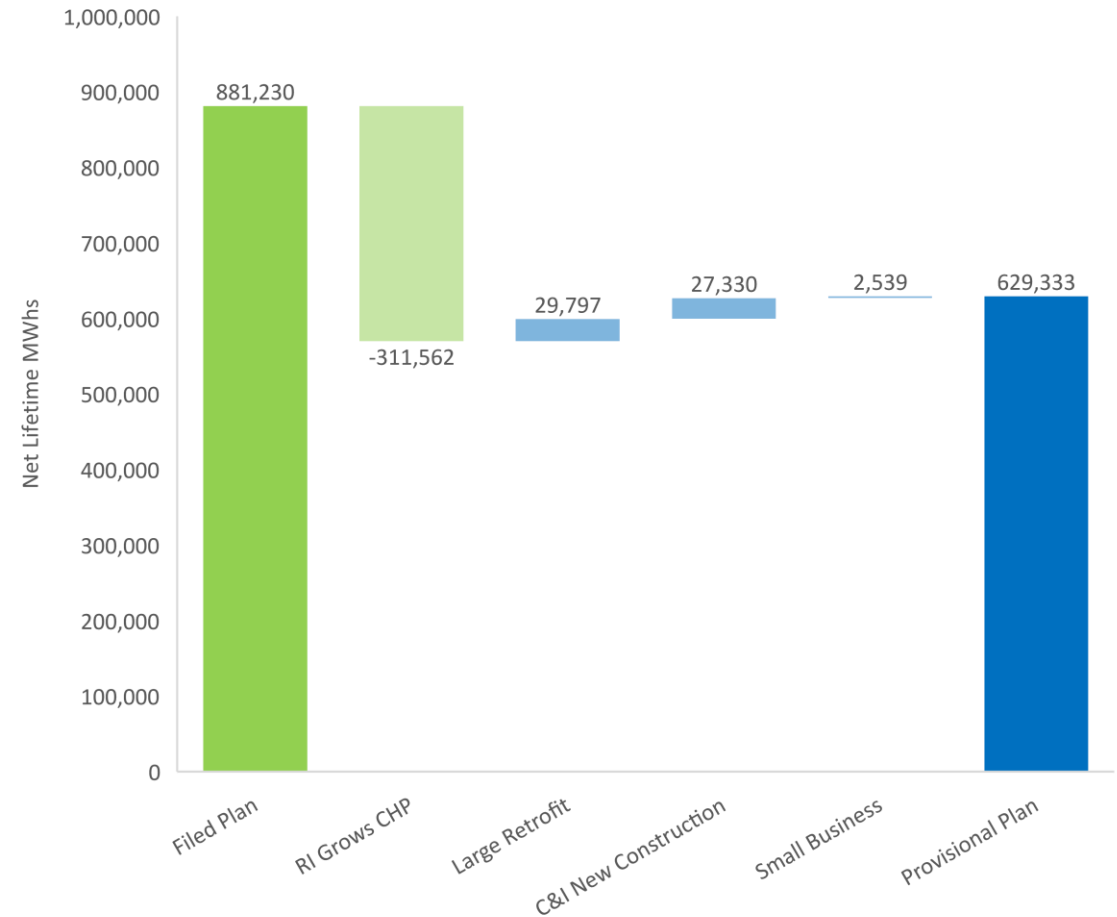
- Minor shifts in Program Planning and Administration budgets, though no change at the portfolio level
- \$65k in C&I New Construction shifted mostly to other C&I programs
- About \$5k of that shifted to residential and income eligible programs





# New Plan Changed Electric Savings Mix

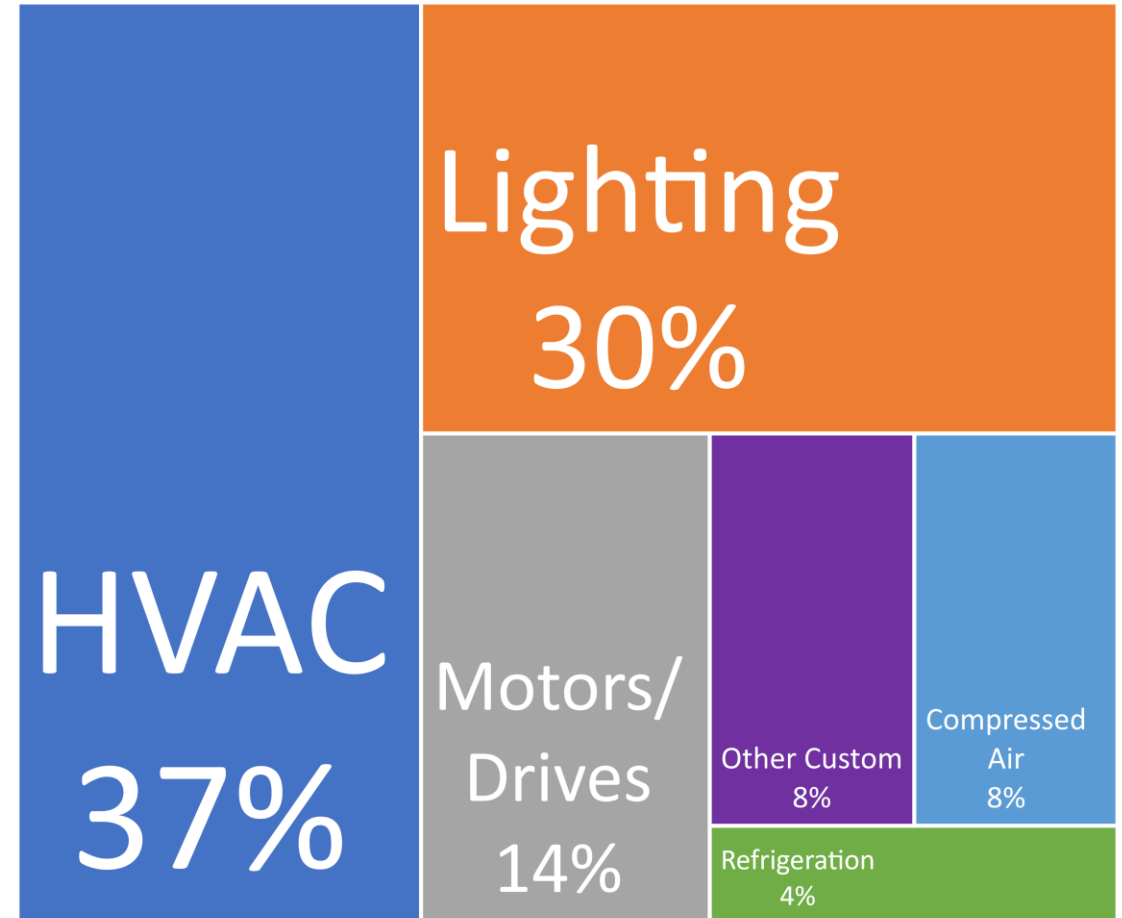
- Incentive budgets reallocated from RI Grows CHP Project to other C&I initiatives
- Result is that 59,665 out of the 311,562 net lifetime MWh savings **lost** are **“recovered”**
- New savings are found only in the C&I programs
  - 50% to C&I Large Retrofit
  - 46% to other C&I New Construction
  - 4% to Small Business Direct Install





# Breakout of Savings from Reallocated Budget

- Top End Uses
  - HVAC (Including Custom) - 37%
  - Lighting (Including Custom) - 30%
- Top Measures
  - Prescriptive Lighting (Large Retrofit) – 25%
  - Custom HVAC (New Construction) – 19%
  - Motors and VFDs (Large Retrofit) – 12%
- Small Business Heat Pumps added as a new measure that will save 1,741 Lifetime MWhs

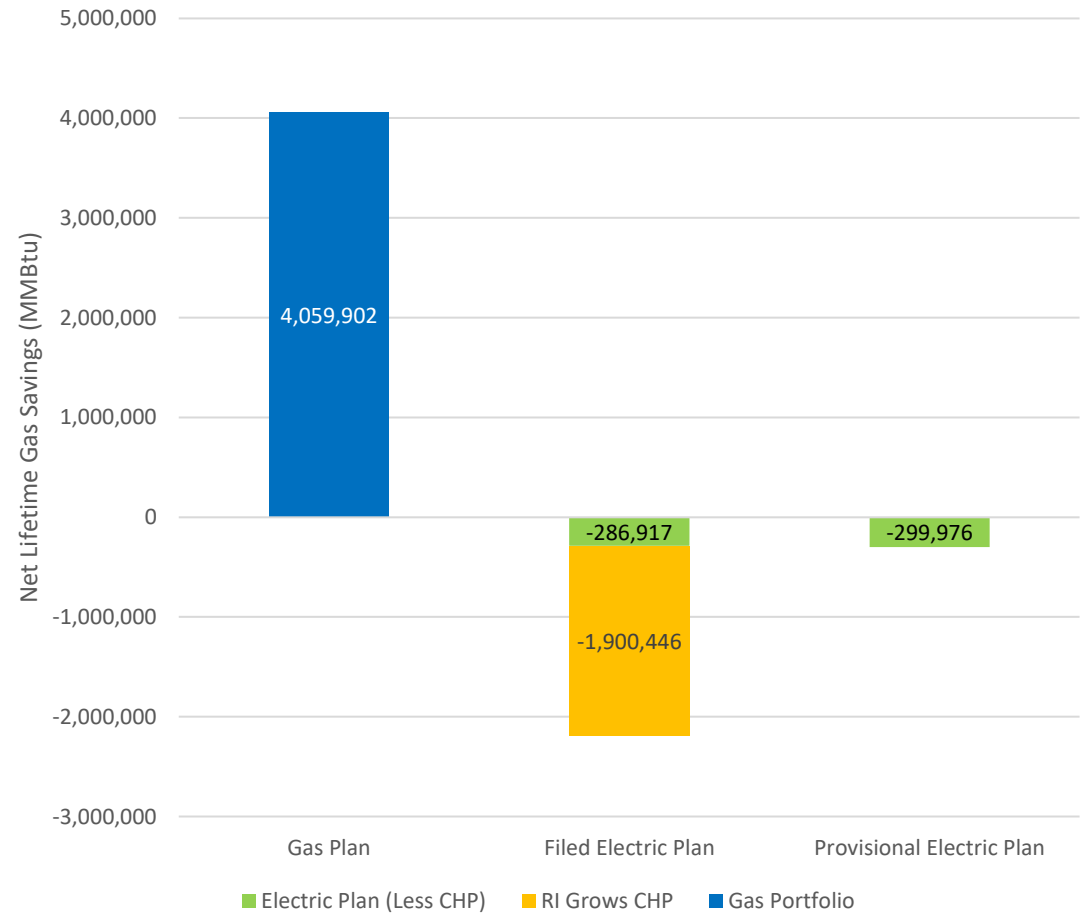






# Impact on Gas Usage Increase in Electric Plan

- Increased gas usage from RI Grows CHP Project offset 47% of savings in the Gas Plan
- Removing RI Grows CHP Project lowers increased gas usage in Electric Plan by 86%
- Increased gas usage in Provisional Electric Plan only offsets 7% of savings in Gas Plan





# SUMMARY & DISCUSSION





# Summary

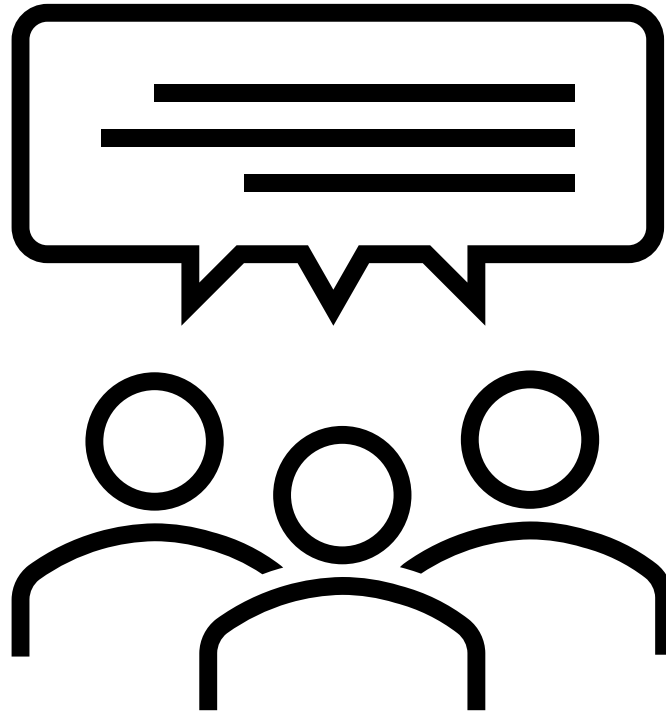
RI Grows budget re-allocated largely to other C&I initiatives, with some allocated to sales, technical assistance & training

Shift in program activity reduced kWh savings, but increased total energy savings due to avoided gas consumption

Net benefits increased, largely driven by greater economic benefits



# Council Member Discussion





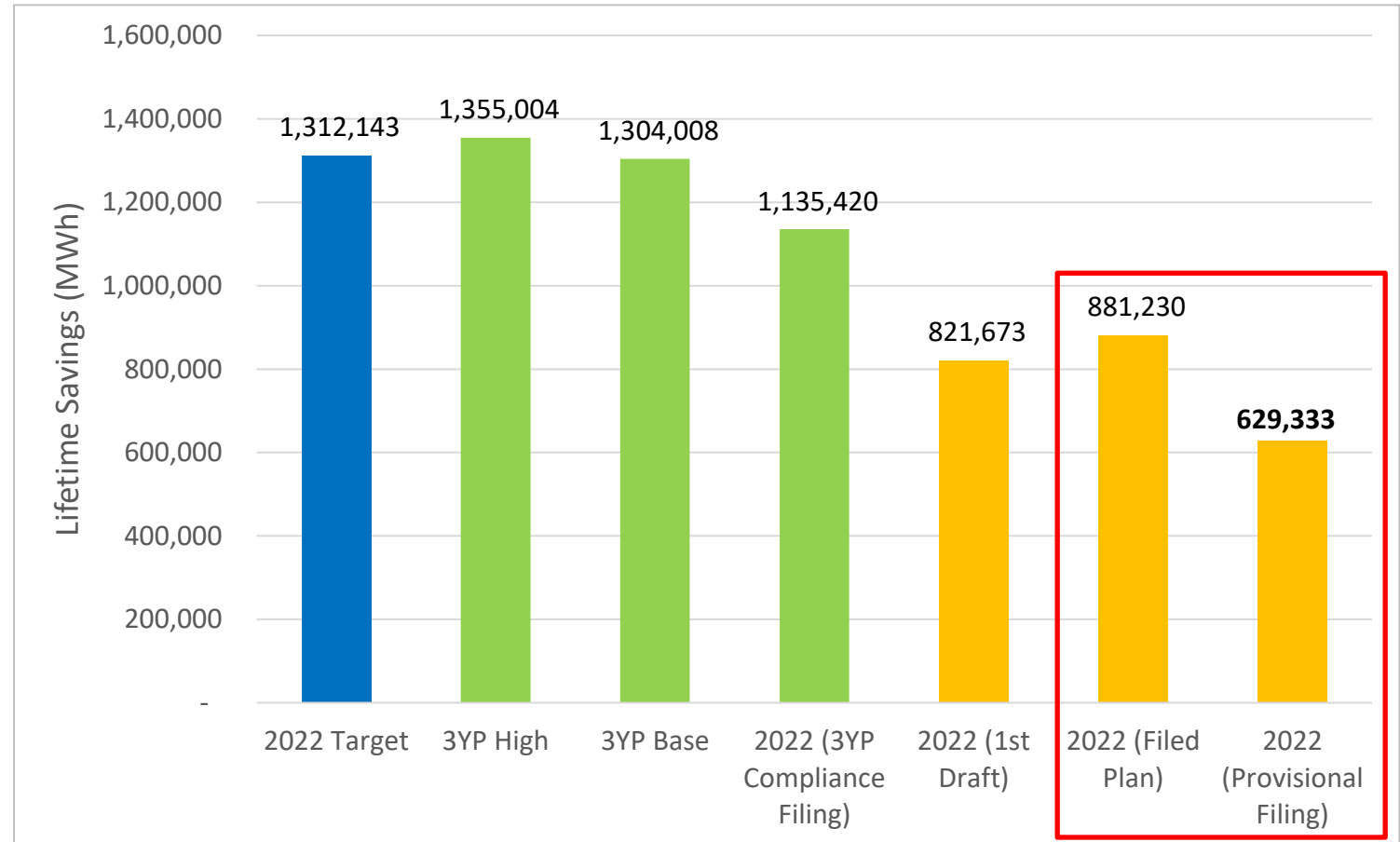
# APPENDICES - 2022 PLAN SUMMARY DATA





# Electric C&I Lifetime Savings (C&I)

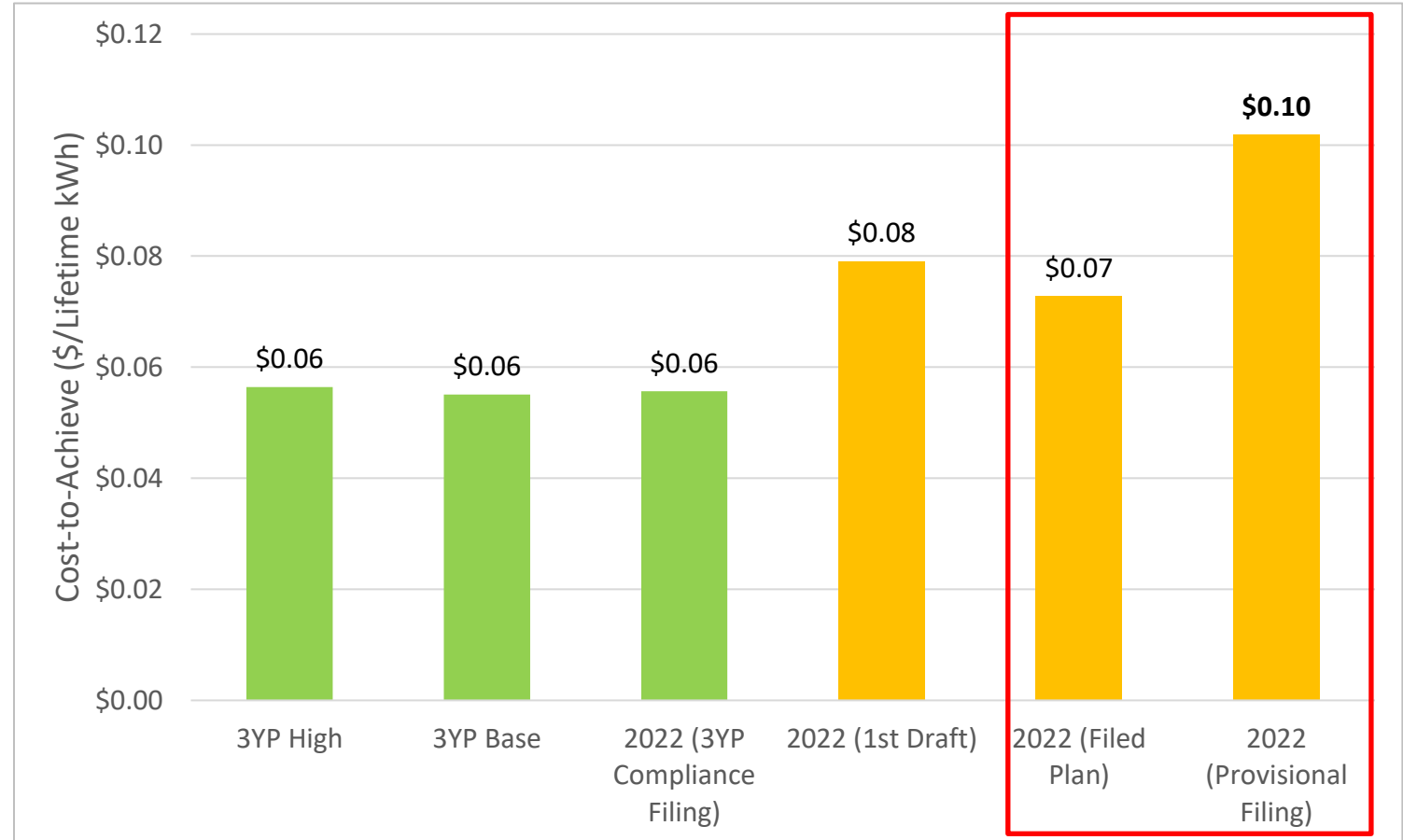
C&I Electric Lifetime Savings decreased by 251,897 MWh. Targets do not include lighting savings that were included in 3YP





# Electric C&I Lifetime Cost-to-Achieve (\$/kWh)

- C&I Electric Lifetime Cost-to-Achieve (\$/kWh) increased \$0.03 between Filed Plan and Provisional Filing





# Electric C&I Net Benefits and BCR

C&I Electric Net Benefits including Economic Benefits increased \$42,164,295 between Filed Plan and Provisional Filing.

	RI Test w/ Economic Multipliers		
	Filed Plan	Provisional Filing	Delta
<b>Net Benefits</b>	\$356,435,045	\$398,599,340	\$42,164,295
<b>BCR</b>	4.44	5.09	0.65

	RI Test w/o Economic Multipliers		
	Filed Plan	Provisional Filing	Delta
<b>Net Benefits</b>	\$140,813,909	\$142,459,681	\$1,645,772
<b>BCR</b>	1.76	1.82	0.06

