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January 8, 2019

MEMORANDUM

TO: Council Members

FROM: Ben Kujala

SUBJECT: BPA's 2020-2021 Energy Efficiency Implementation Plan

BACKGROUND:

Presenter: Kim Thompson, Vice President of Energy Efficiency, BPA

Summary: Kim Thompson will present to the Power Committee on Bonneville's 2020-2021 Energy Efficiency Implementation Plan. Bonneville will be presenting on this plan to stakeholders at a workshop later this month.



2020-2021 BPA EE Implementation Plan

Council Power Committee

January 15, 2019



AGENDA

Background

BPA Resource Program

Recap of IPR commitments

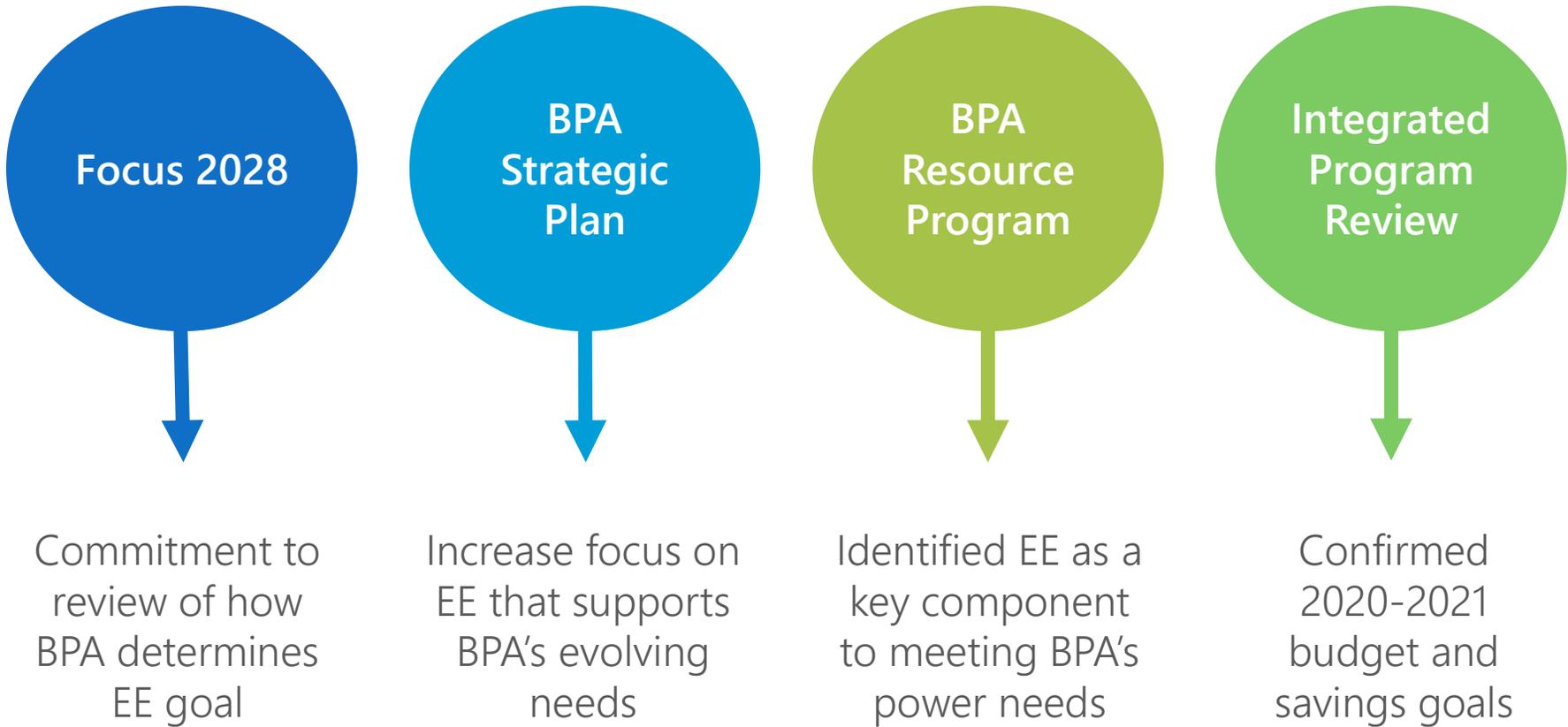
Savings forecast

Proposed program changes

Uncertainties

Next steps

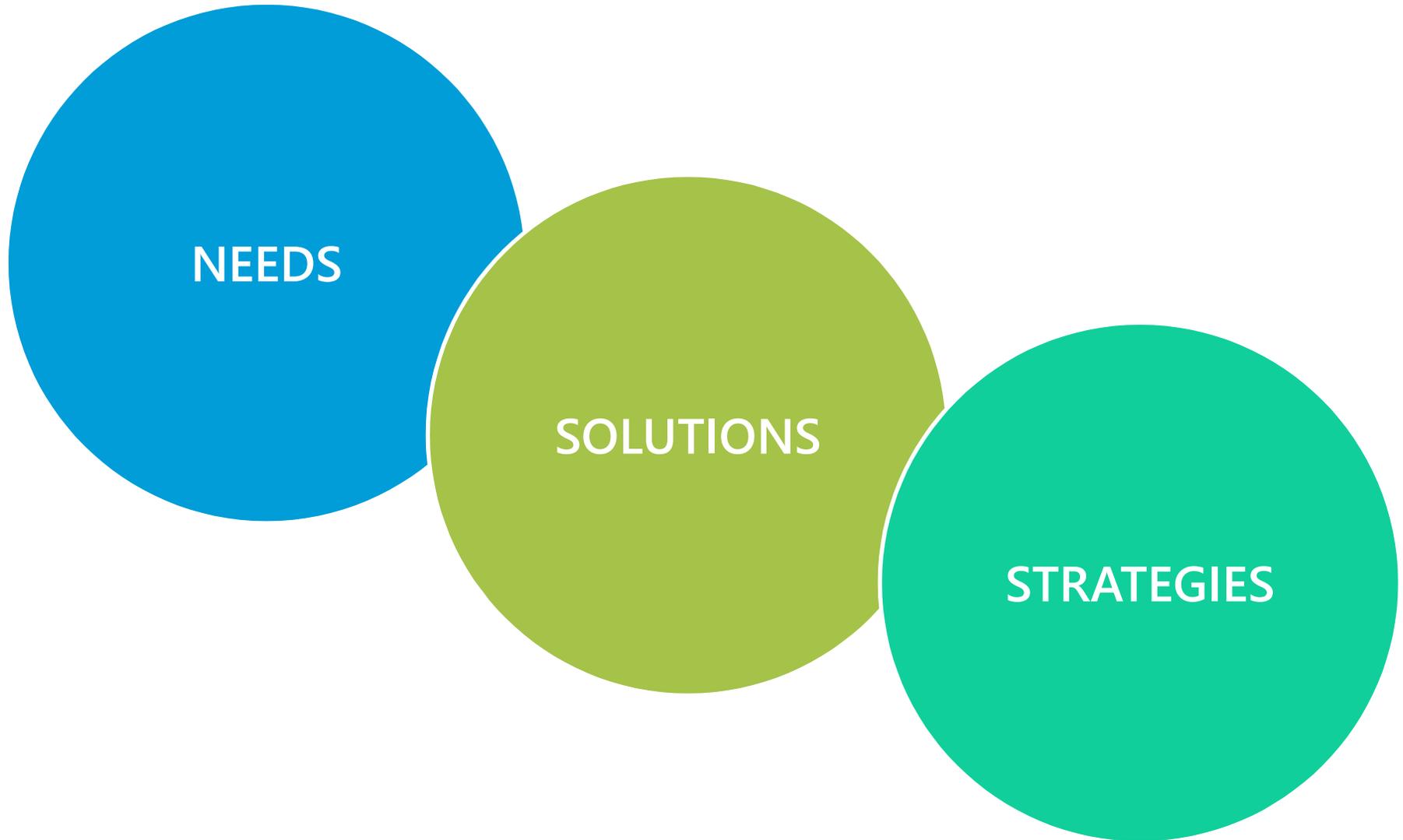
BACKGROUND



IMPLEMENTATION PLAN

This 2020-2021 EE Implementation Plan seeks to better align BPA's Energy Efficiency portfolio with BPA's Resource Program findings starting in the 2020-2021 rate period

BPA RESOURCE PLANNING



WHAT ARE BPA'S NEEDS FROM EE?

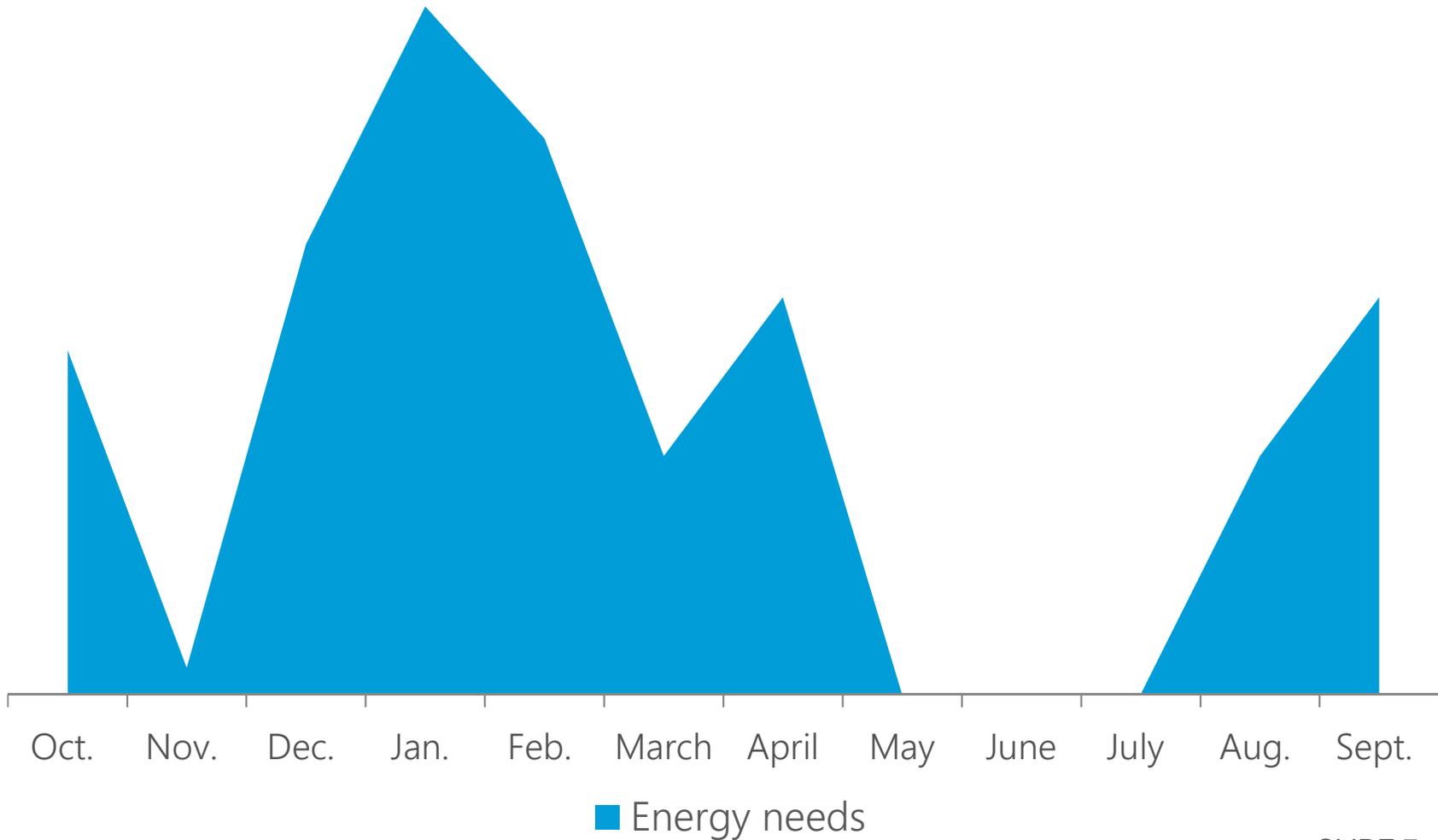
HOW MUCH

EE to acquire to meet
our system needs

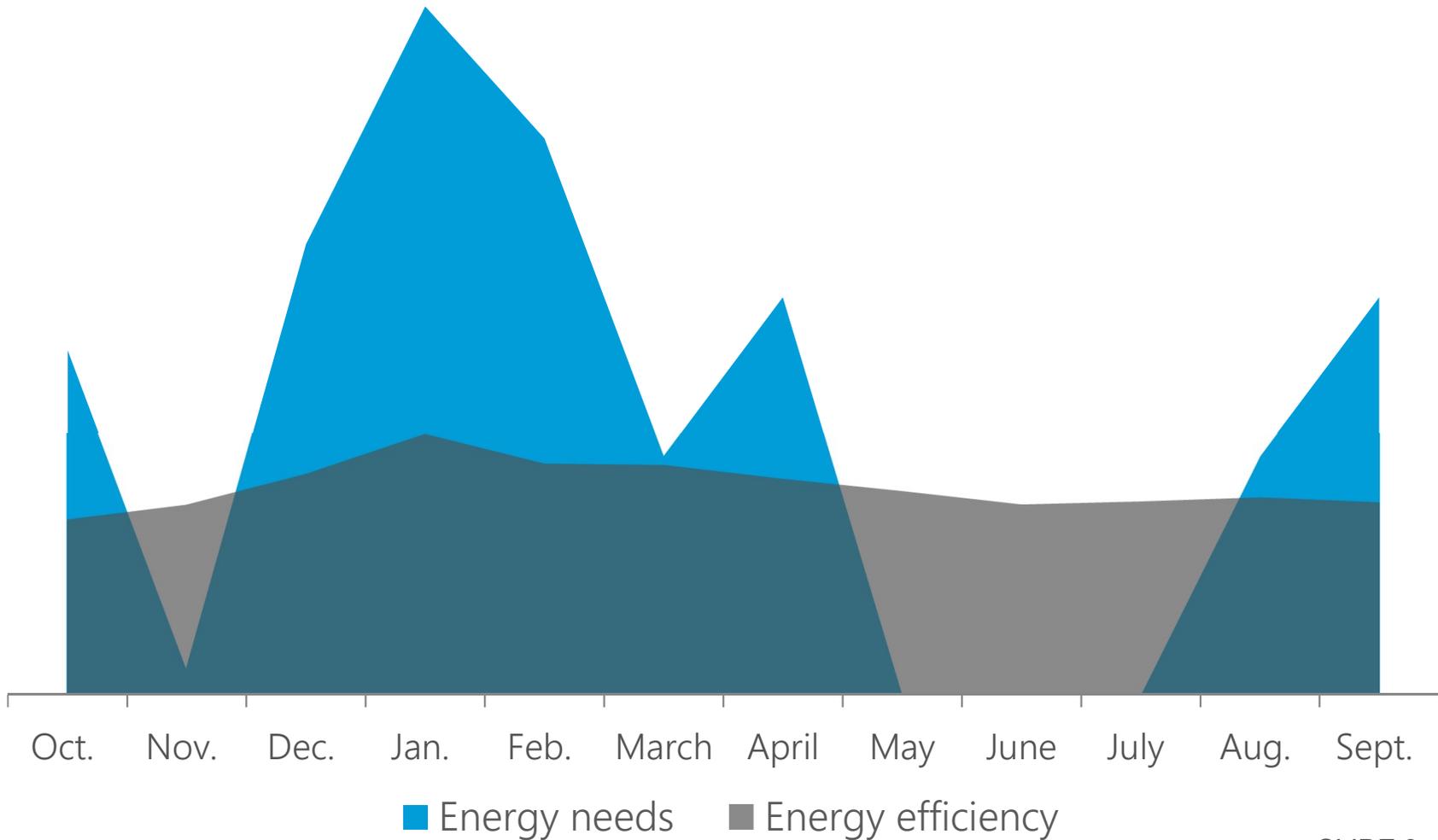
TYPE

of EE most suited to meet
our system needs

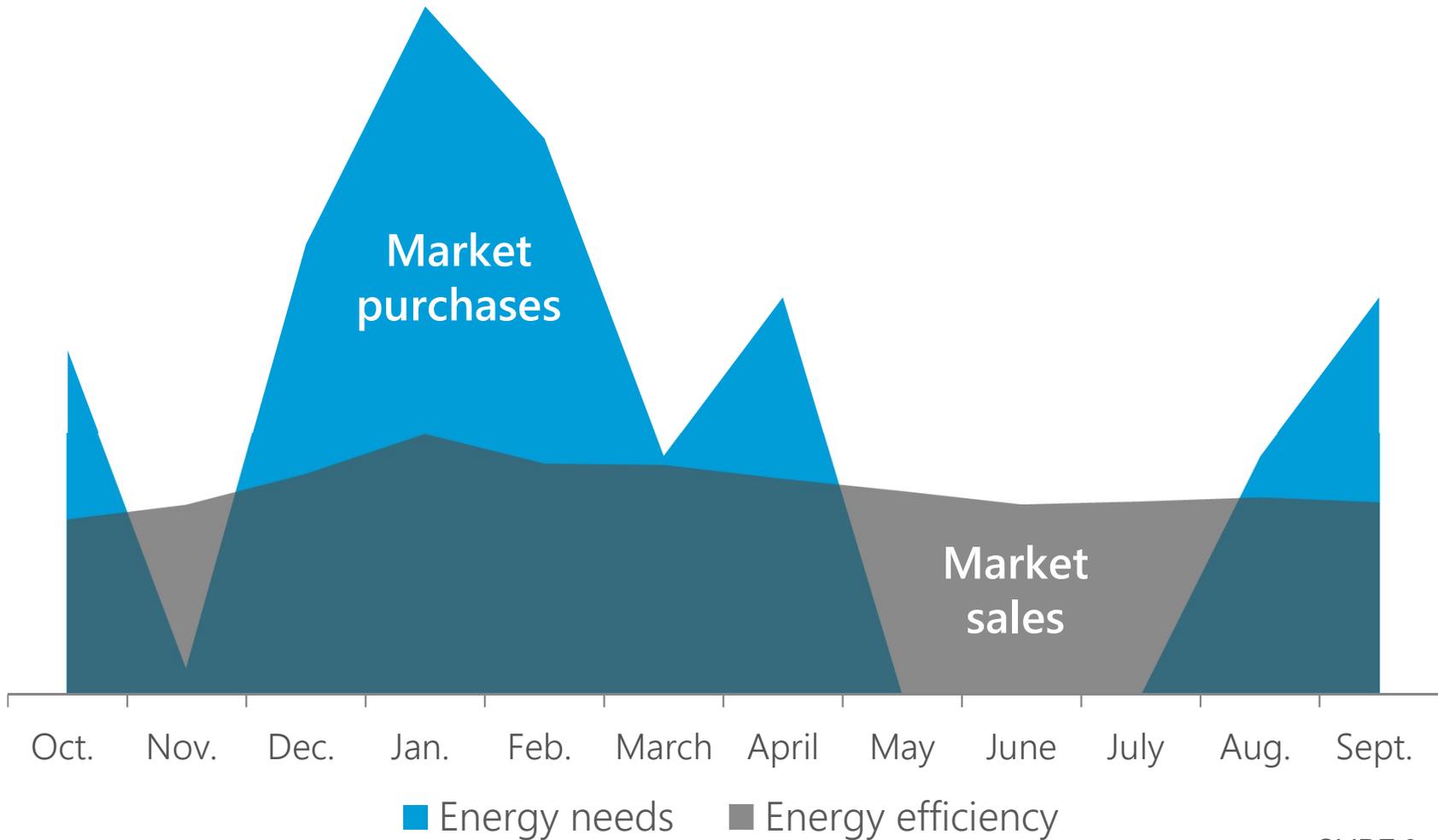
HOW EE HELPS MEET OUR ENERGY NEEDS



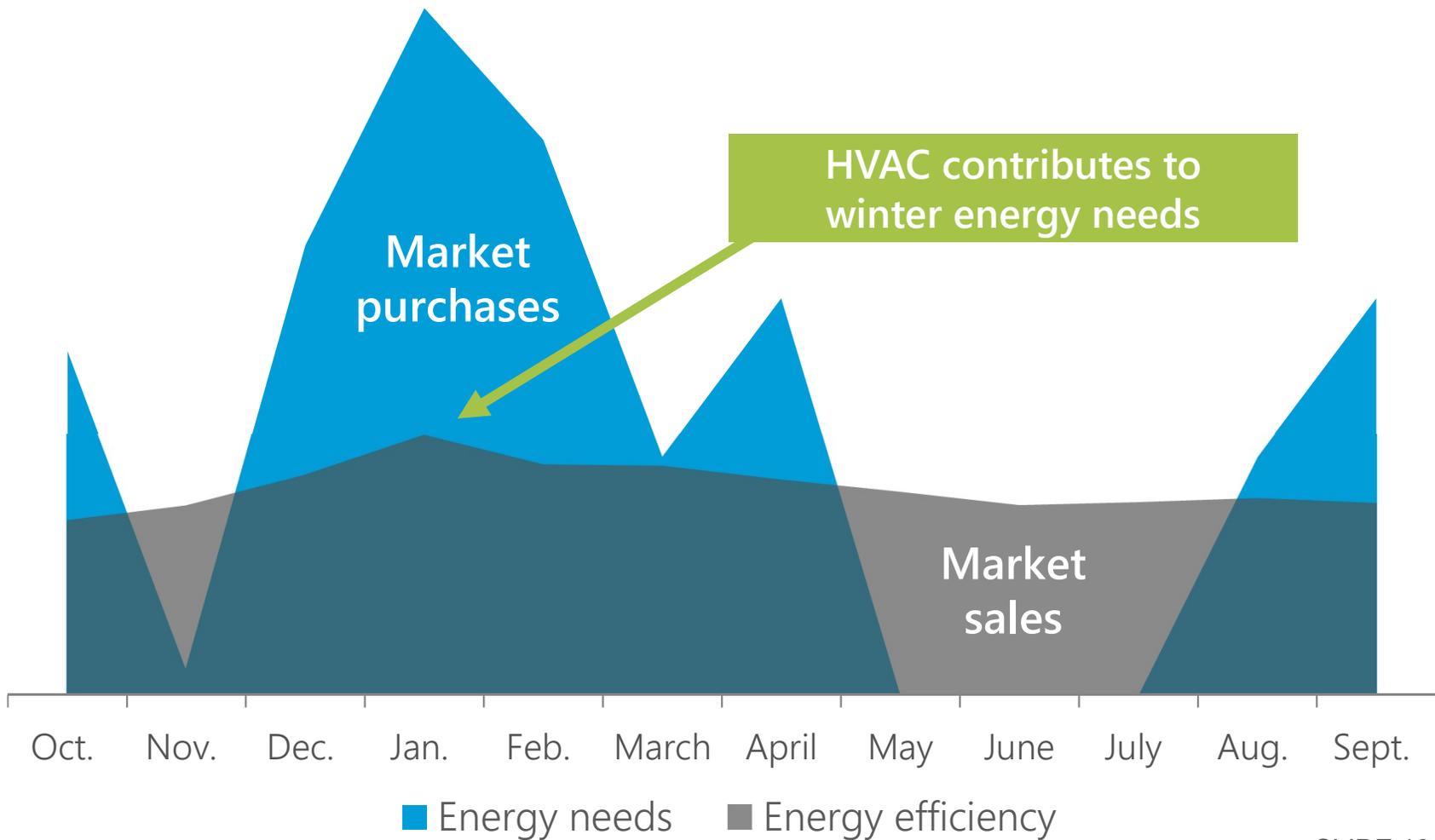
HOW EE HELPS MEET OUR ENERGY NEEDS



HOW EE HELPS MEET OUR ENERGY NEEDS



HOW EE HELPS MEET OUR ENERGY NEEDS



2018 FINDING: EE REMAINS AN IMPORTANT PART OF THE BPA RESOURCE MIX



BPA can continue to meet its obligations with a mix of EE, DR and market purchases



EE is a significant component of a least-cost acquisition portfolio



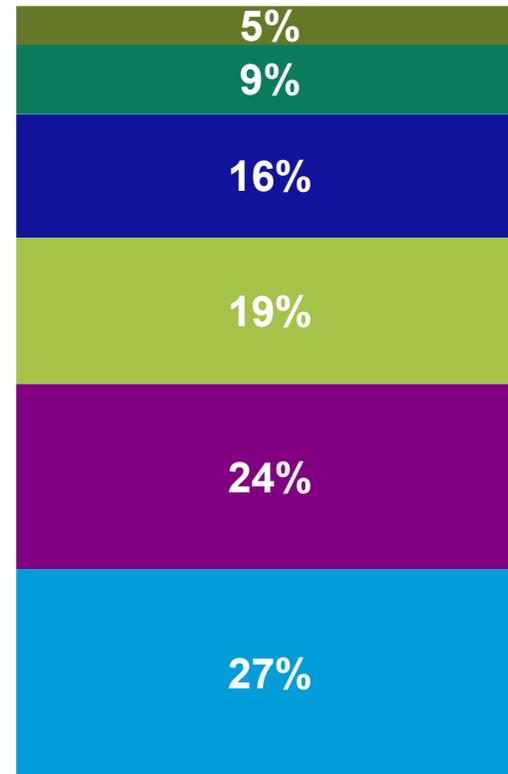
Some energy efficiency provides a greater contribution to our needs

Consistent with Seventh Power Plan Conclusions

BUT...THE TYPE OF EE SELECTED IS DIFFERENT



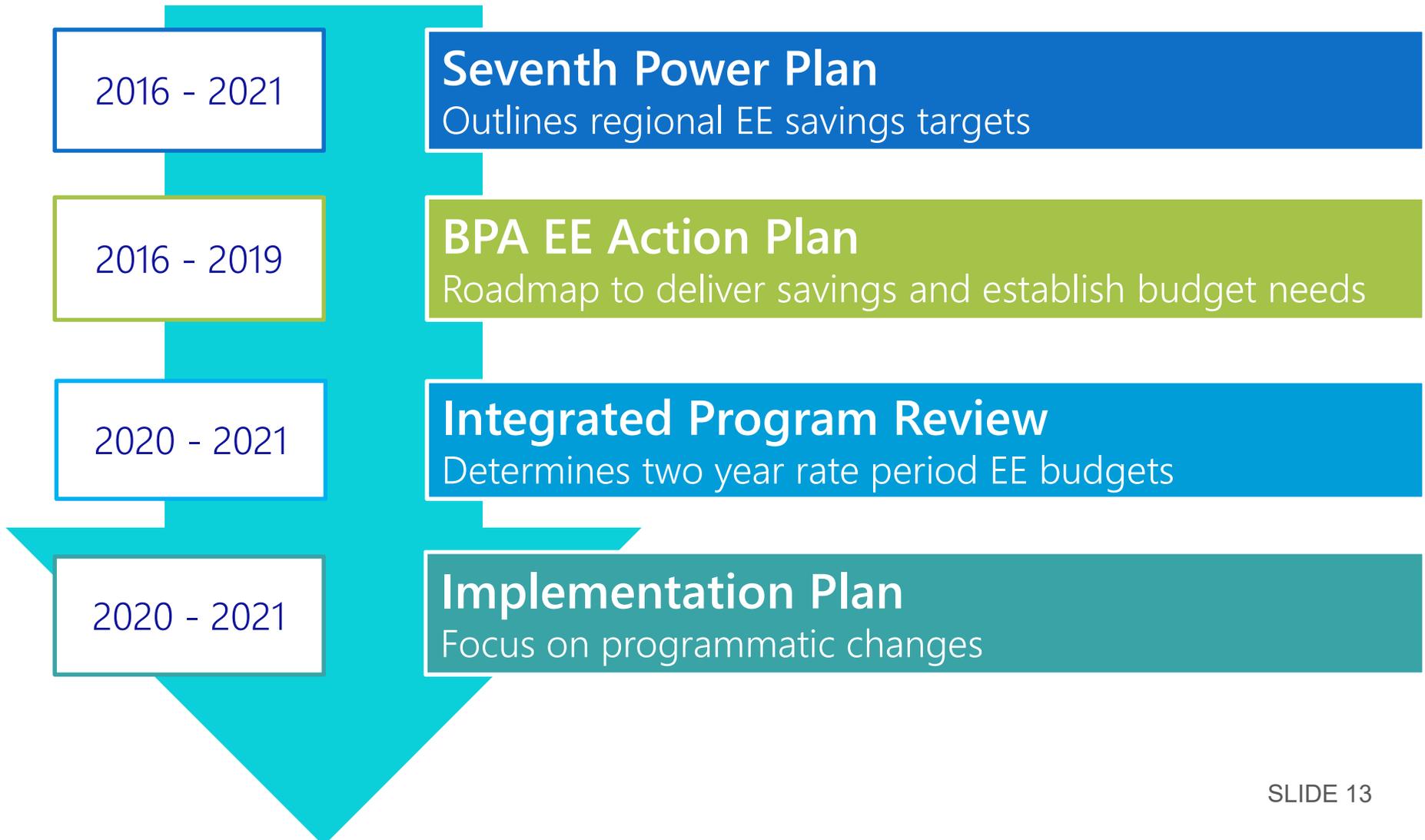
2016-2017 ACHIEVED PROGRAMMATIC SAVINGS



RESOURCE PROGRAM

■ Lighting ■ HVAC ■ Industrial ■ Electronics ■ Other ■ Water Heating

EVOLUTION OF SAVINGS FORECASTS



2020 - 2021 INTEGRATED PROGRAM REVIEW

(\$ Thousands)	2020	2021
Conservation Infrastructure	27,296	27,296
Conservation Purchases	67,000	67,000
Demand Response & Smart Grid	855	855
Low-income Energy Efficiency	5,739	5,853
Market Transformation	12,050	12,050
Grand Total	112,940	113,054

JUNE 2018 IPR COMMITMENTS 2020-2021

74 – 101*

aMW

Programmatic
energy savings

\$134

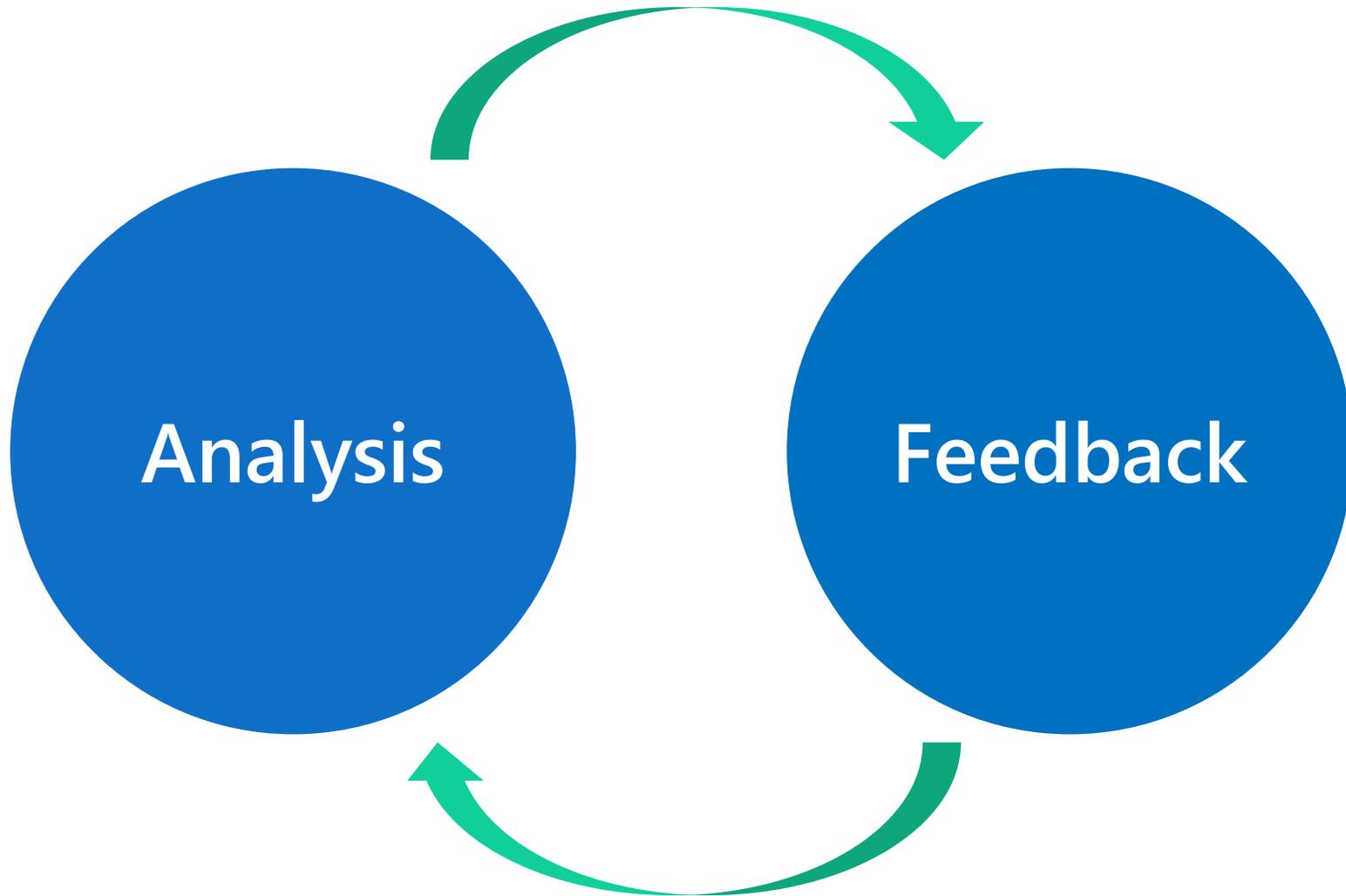
Million

Conservation
Purchases

IPR savings estimates based on a high-level and expedient analysis of program and cost changes

*Forecast relies on utility self funding in addition to conservation purchases budget

SINCE IPR...



UPDATED PROGRAMMATIC SAVINGS 2020-2021

90 – 110*
aMW

Programmatic
energy savings

\$134
Million

Conservation
purchases

*Forecast relies on utility self funding in addition to conservation purchases budget

EE PLAN SAVINGS ESTIMATES

2016-2021

	Momentum Savings	NEEA Savings	Programmatic Savings	TOTAL
2016 EE Plan	200 aMW	29 aMW	352 aMW	581 aMW
2018 IPR	200 aMW	29 aMW	325-351 aMW	554-580 aMW
Updated EE Plan	170-190 aMW	50 aMW	340-360 aMW	560-600 aMW

IMPLEMENTING PROGRAM CHANGES

Increased alignment to BPA's energy needs will occur through short-term and longer-term actions

SHORT TERM

April change notice

October 2019
Implementation Manual

LONG TERM

Program strategy

Regional
infrastructure and support

EE PROGRAM STRATEGIES SHORT TERM



DECREASE

payments for residential
and nonresidential lighting

residential lighting savings
due to federal standards

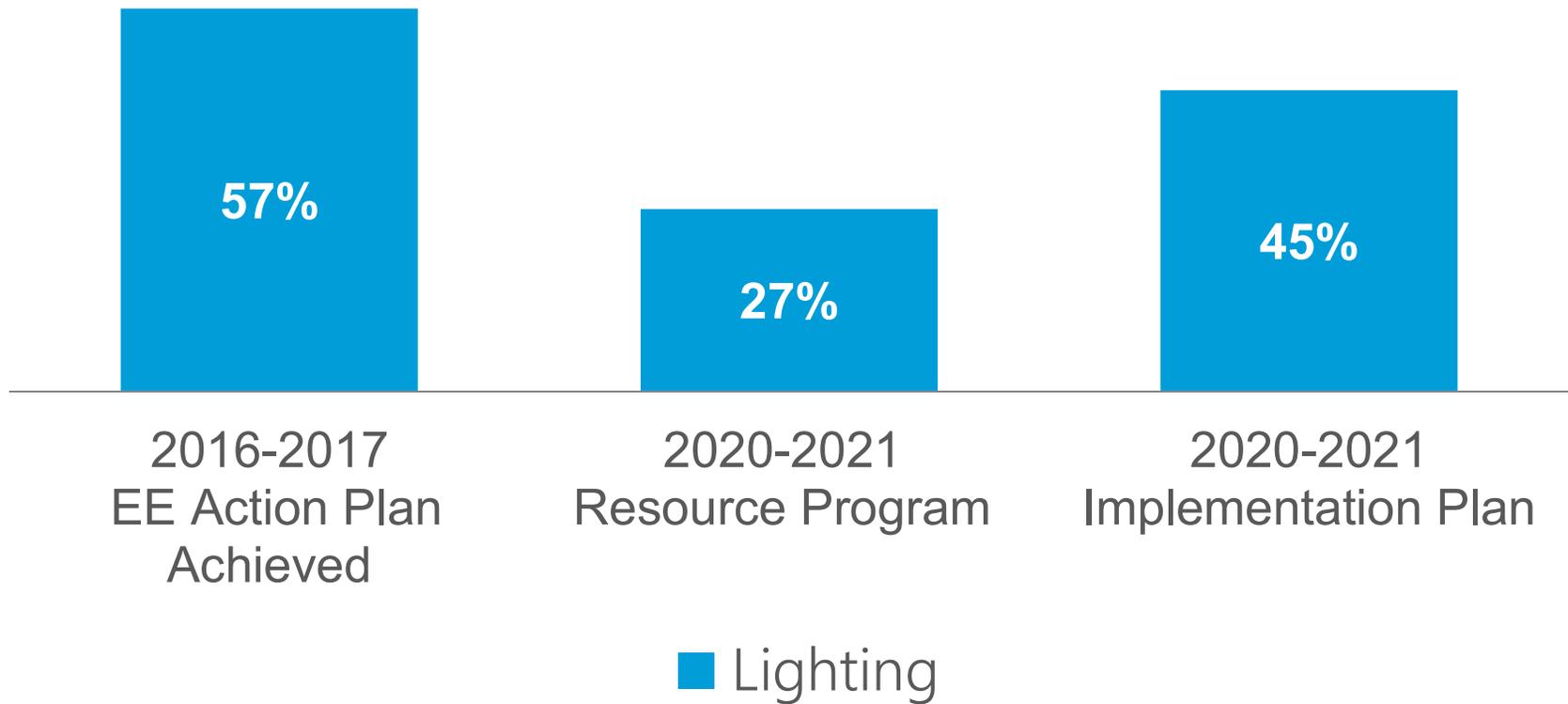


INCREASE

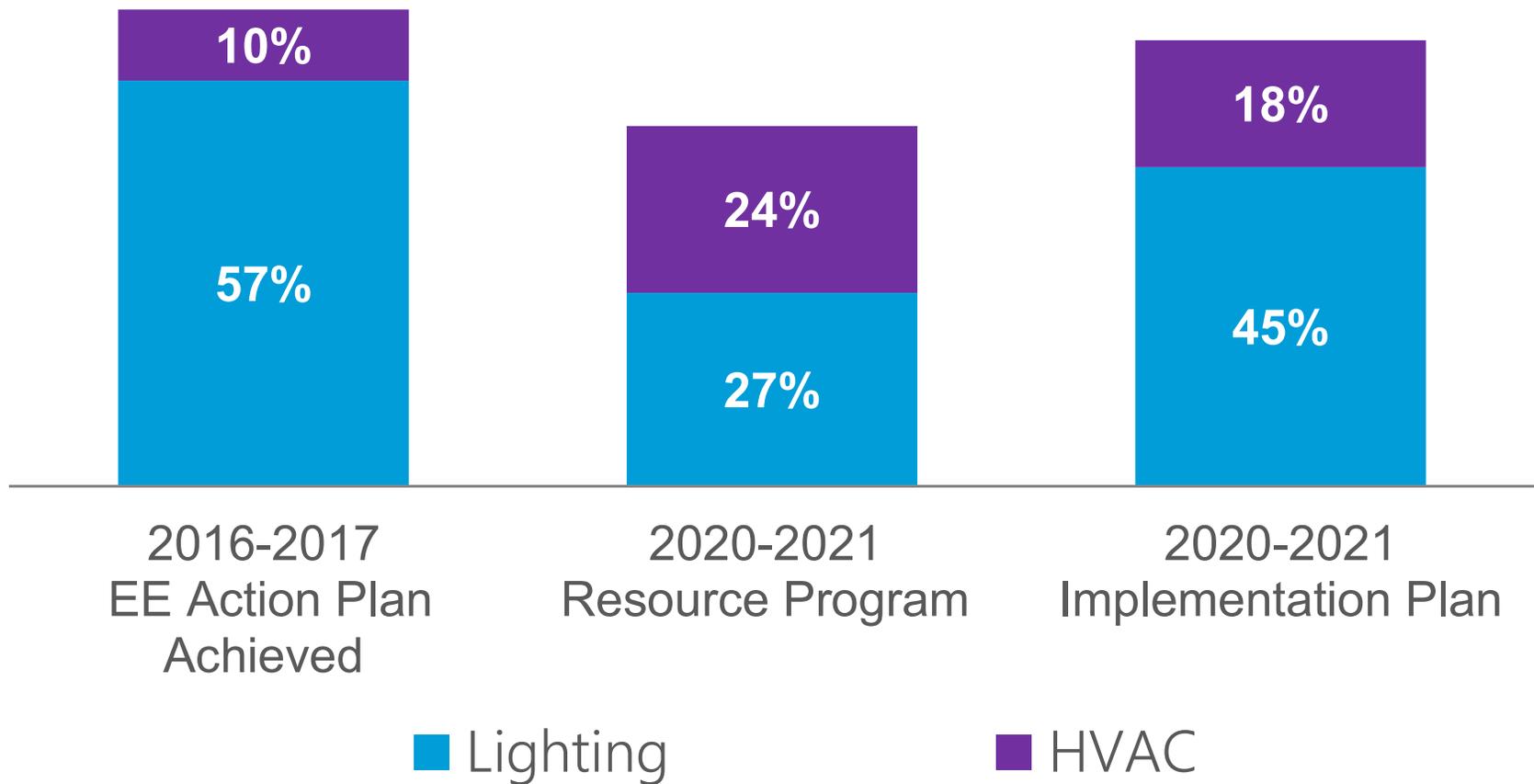
payments for
weatherization and HVAC

program focus on
weatherization and HVAC

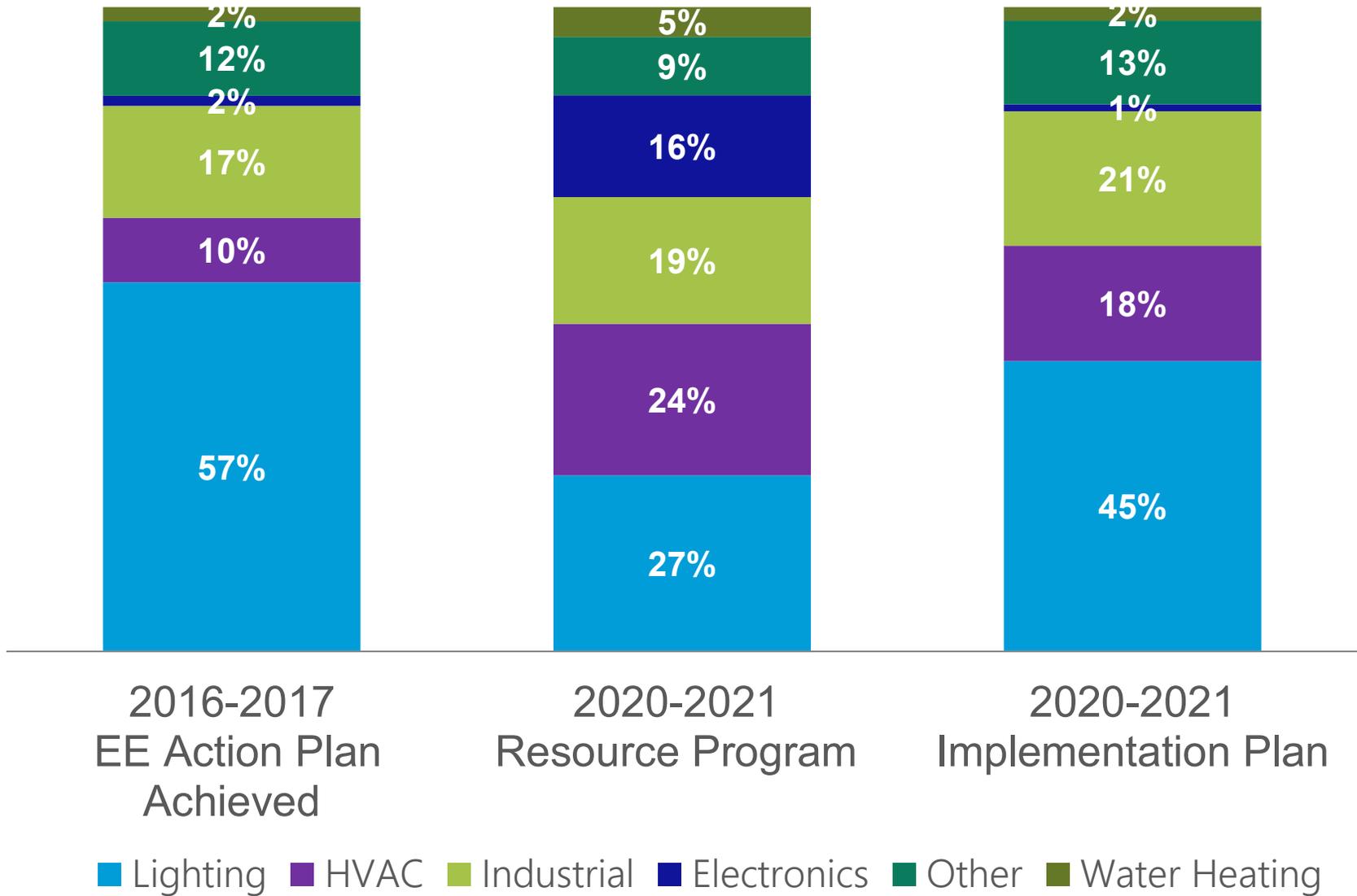
RESOURCE PROGRAM ALIGNMENT



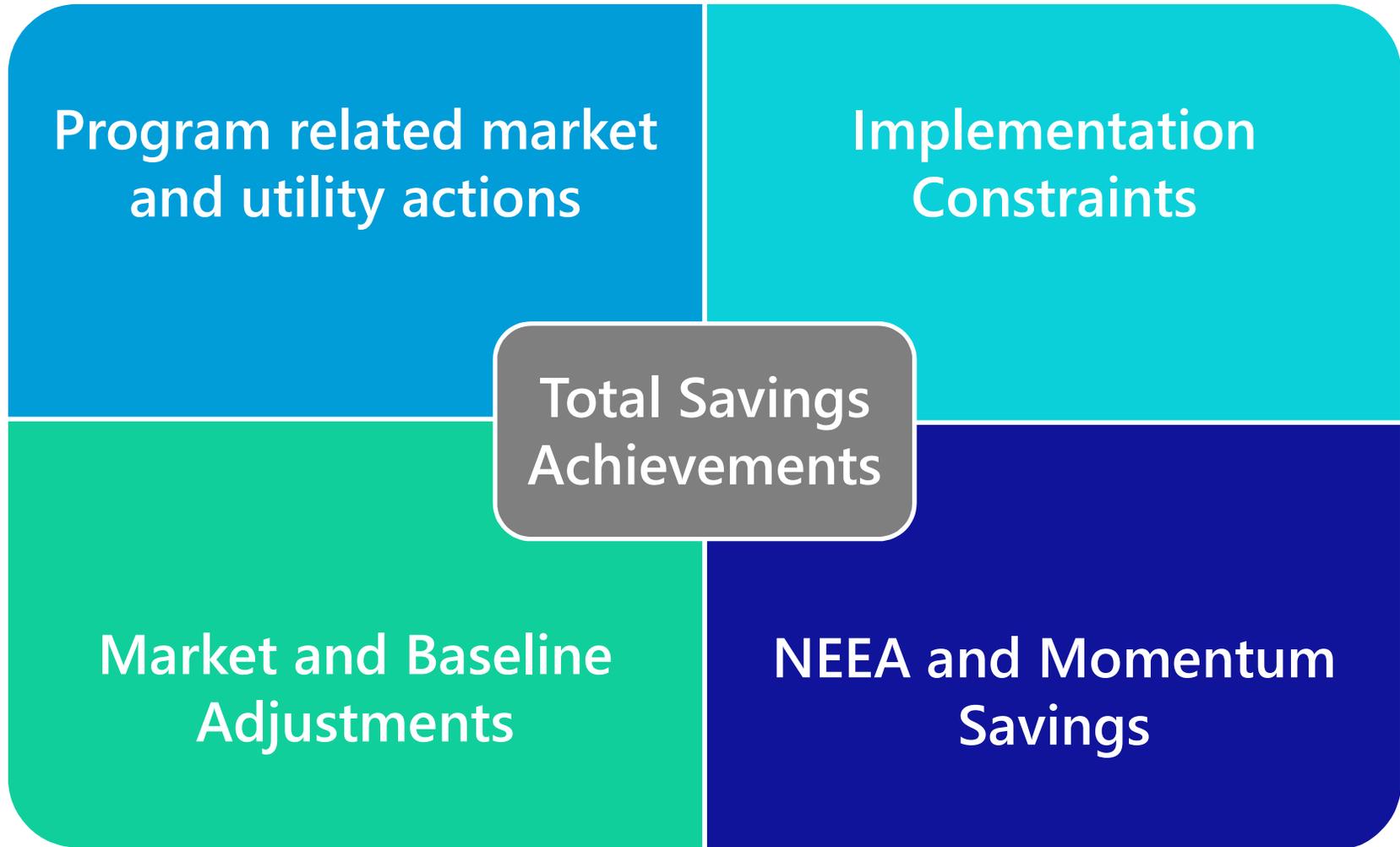
RESOURCE PROGRAM ALIGNMENT



RESOURCE PROGRAM ALIGNMENT



UNCERTAINTIES



NEXT STEPS





Questions?

