



2020-2021 BPA EE Implementation Plan

January 24, 2019



AGENDA

Background

BPA Resource Program

Recap of IPR commitments

Savings forecast

Proposed program changes

Uncertainties

Next steps

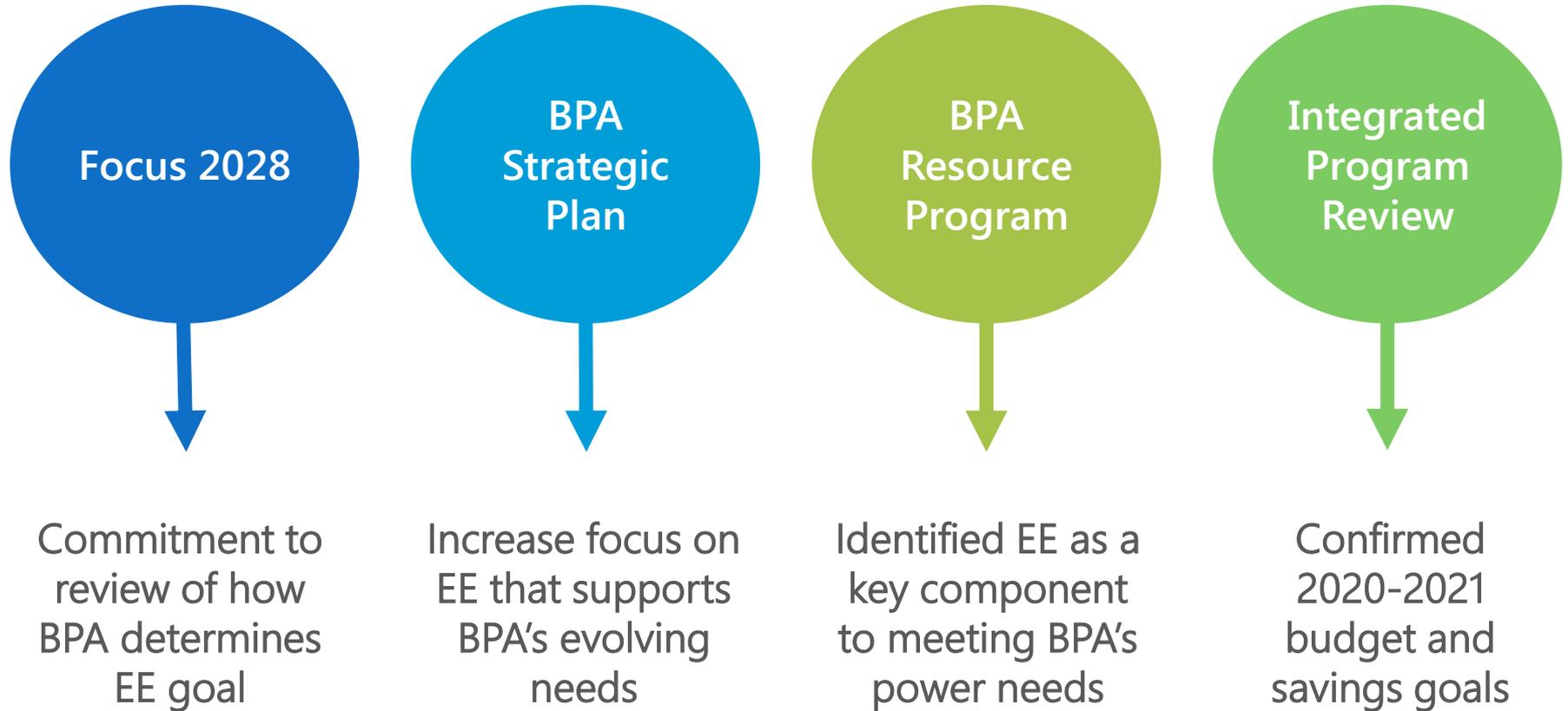
OBJECTIVES

Understand proposed program and measure changes

Discuss and collect initial feedback

*Additional opportunities for feedback through EERs following today's workshop

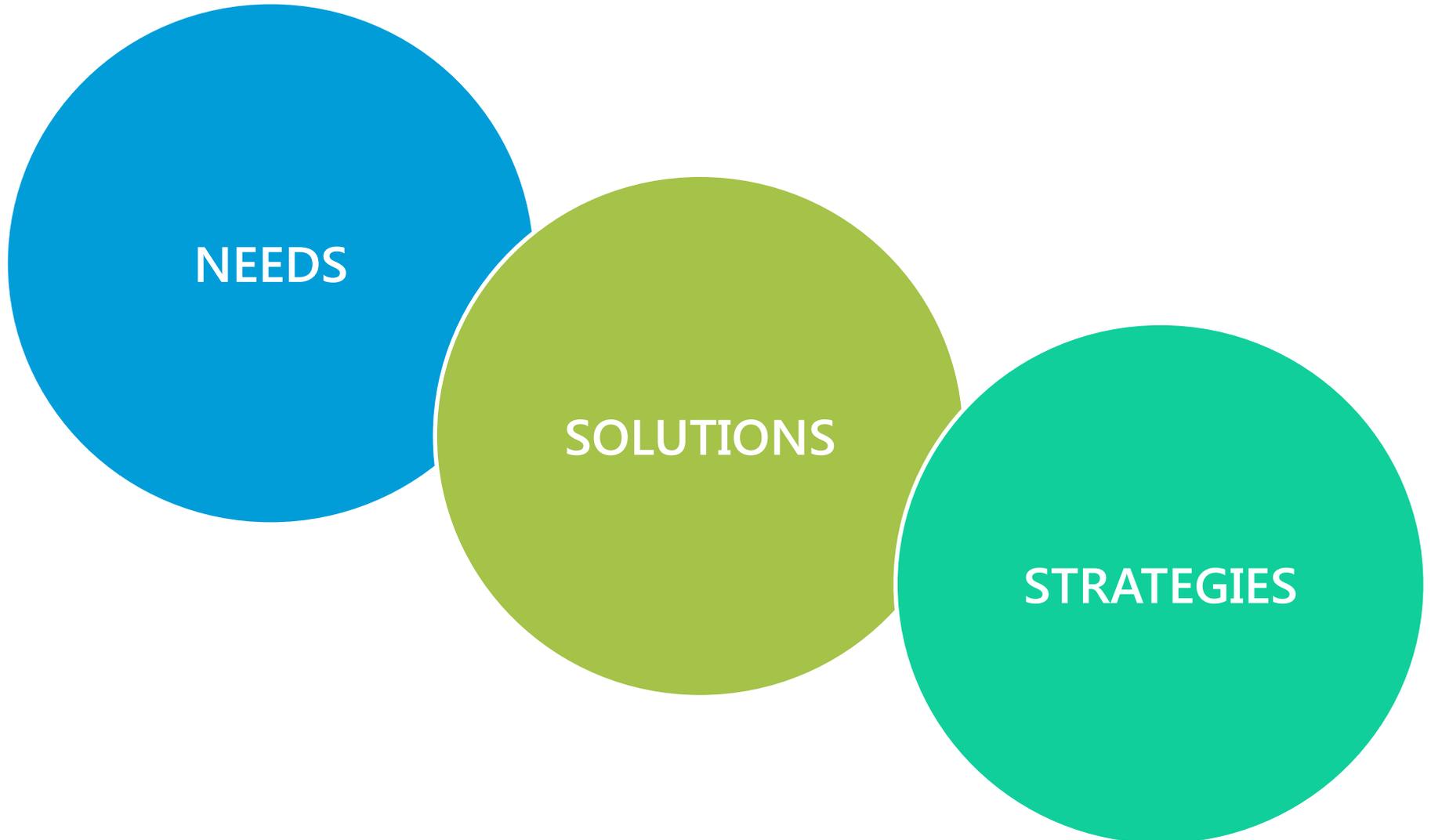
BACKGROUND



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?

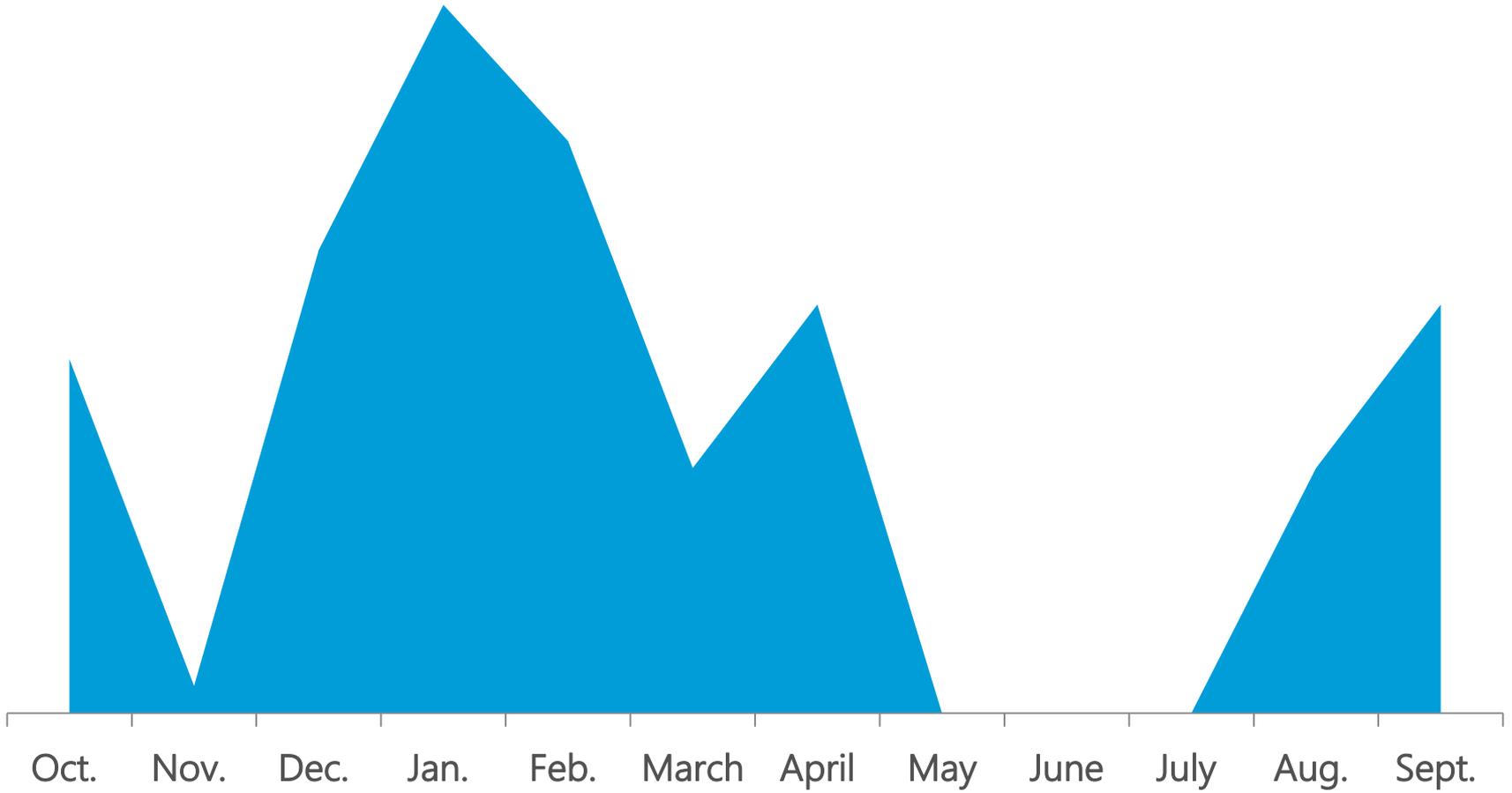
HOW MUCH

EE to acquire to meet
our system needs

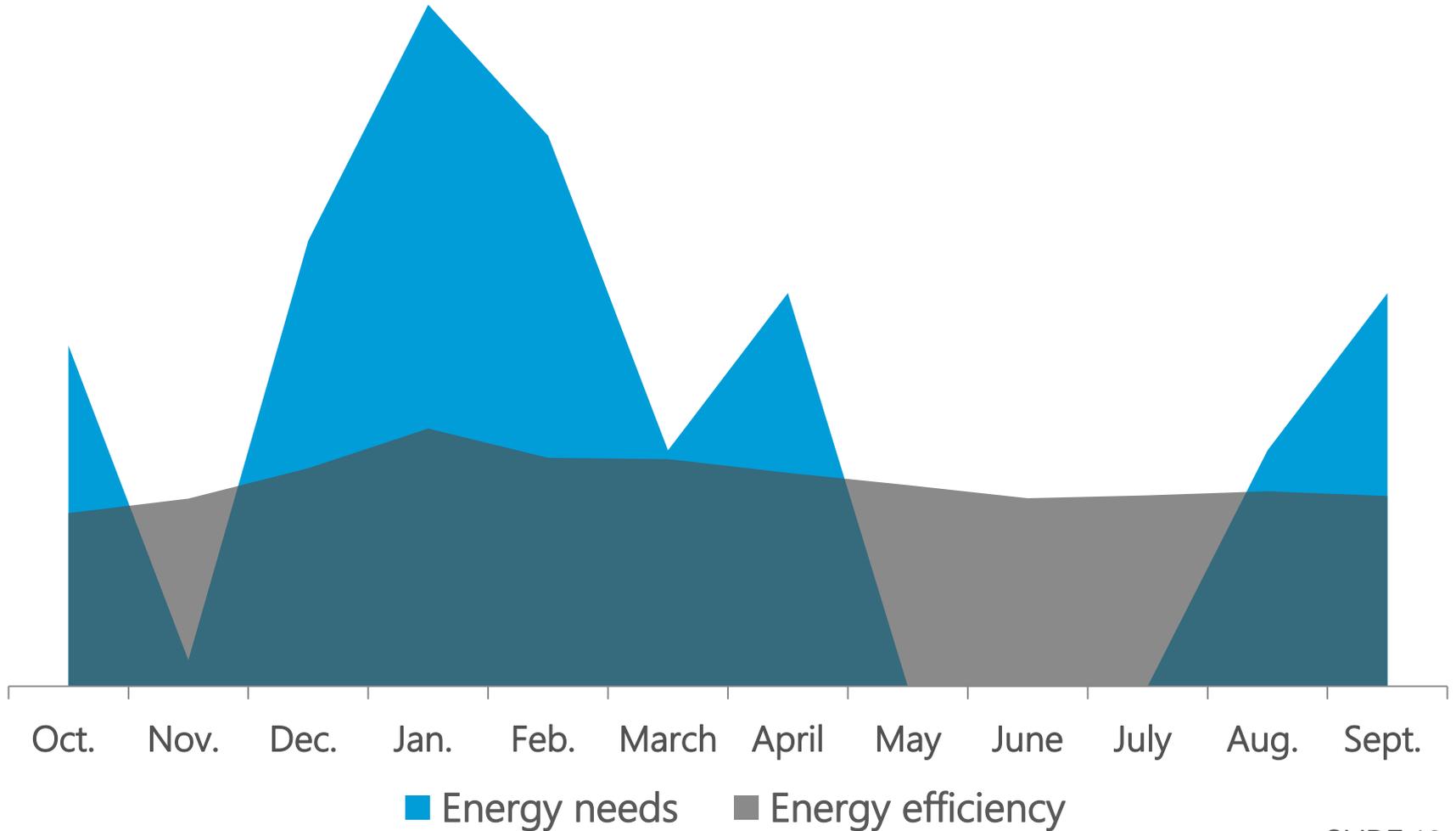
TYPE

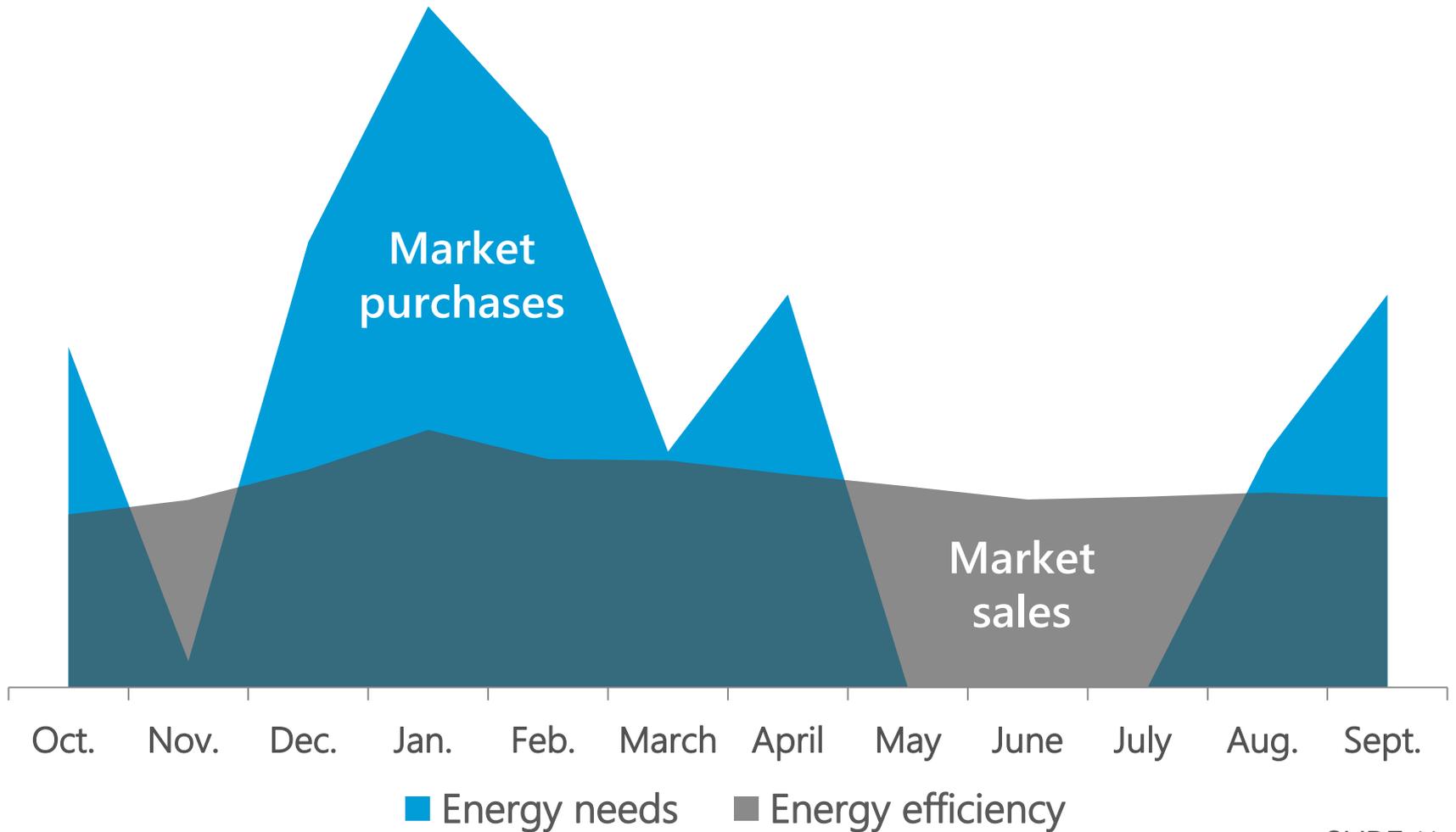
of EE most suited to meet
our system needs

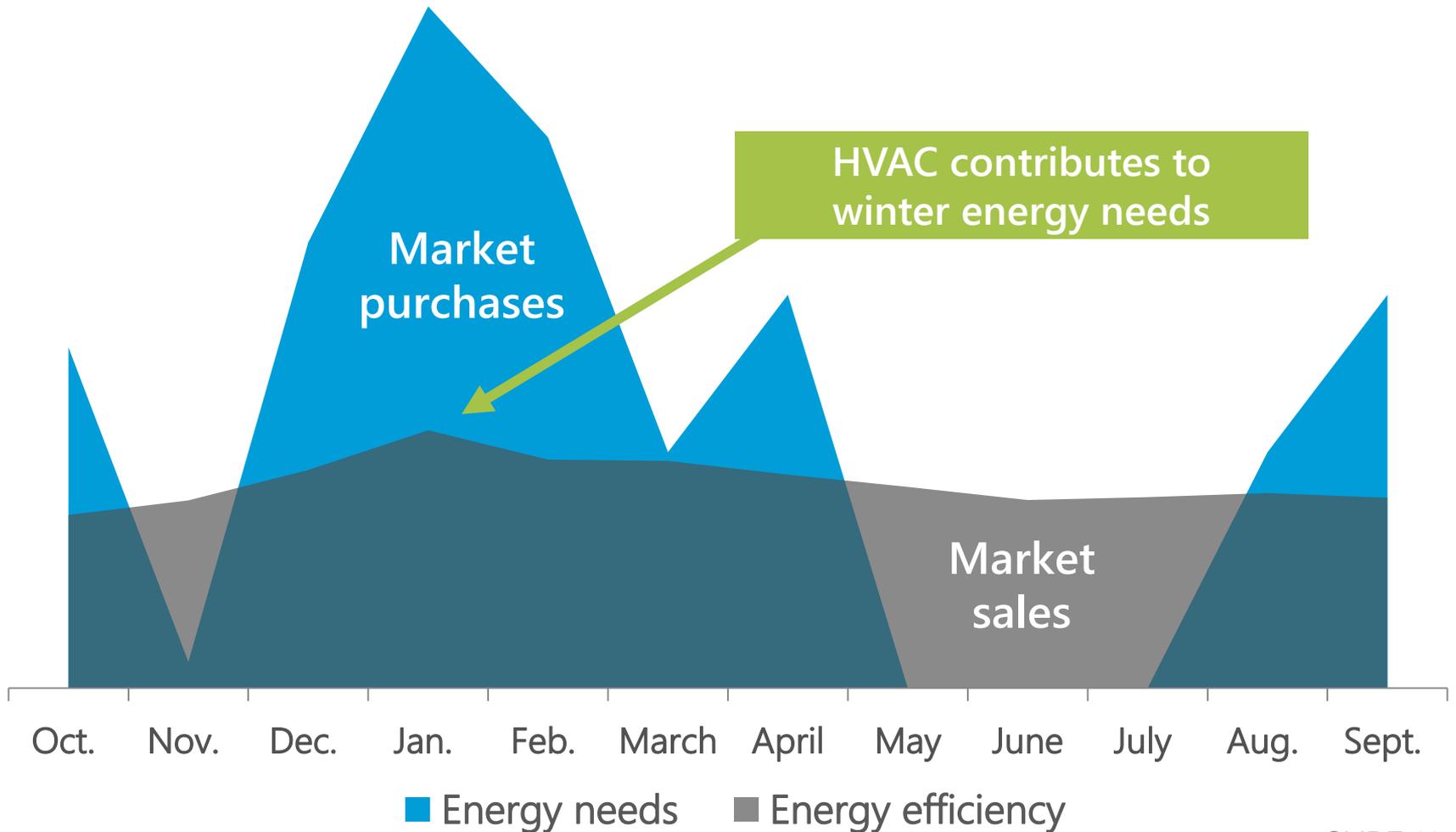
HOW EE HELPS MEET OUR ENERGY NEEDS



■ Energy needs







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

EE, DR and
Market
Purchases

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

Least Cost
Contributor

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

Not All
Savings Are
Equal

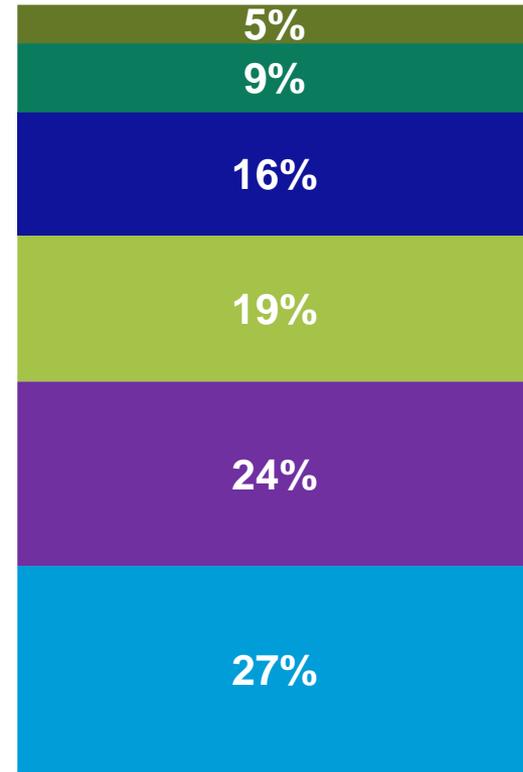
Some energy efficiency provides a greater contribution to our needs

Consistent with Seventh Power Plan conclusions

BUT...THE TYPE OF EE SELECTED IS DIFFERENT



2016-2017 Programmatic Savings



Resource Program Identified Portfolio

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

EVOLUTION OF SAVINGS FORECASTS

2016 - 2021

Seventh Power Plan

Outlines regional EE savings targets

2016 - 2019

BPA EE Action Plan

Roadmap to deliver savings and establish budget needs

2020 - 2021

Integrated Program Review

Resource Program informed two year EE budgets

2020 - 2021

Implementation Plan

Focus on programmatic changes

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

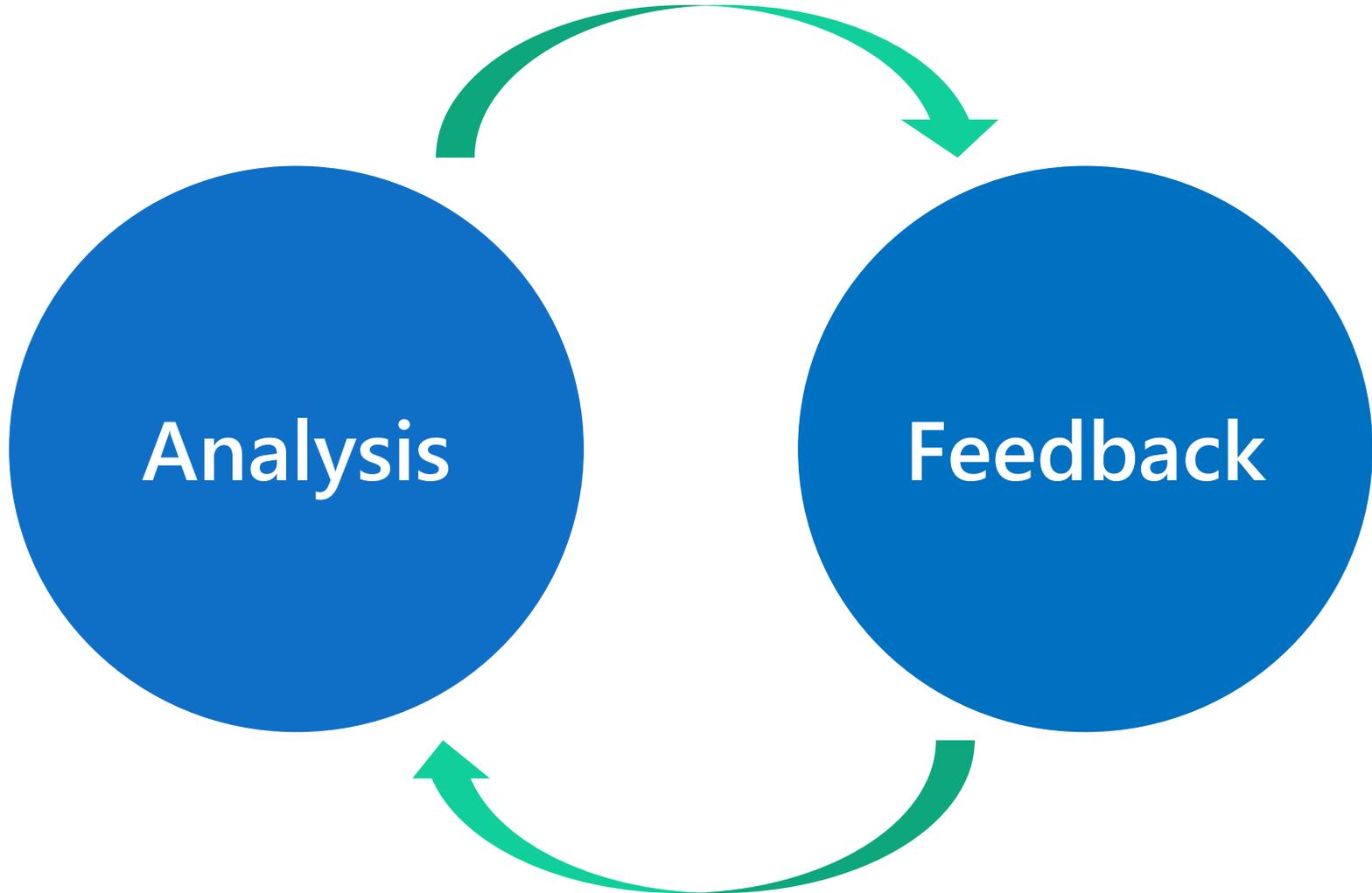
Million

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

Short Break

IMPLEMENTING PROGRAM CHANGES

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

SHORT TERM

April change notice

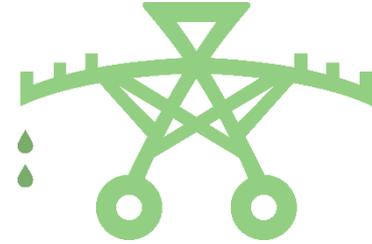
October 2019
Implementation Manual

LONG TERM

Program strategy execution

Regional
infrastructure and support

AGRICULTURAL



SHORT TERM

Sunset of SIS and some
sprinkler measures

Continued support from BPA engineers
and APS

LONG TERM

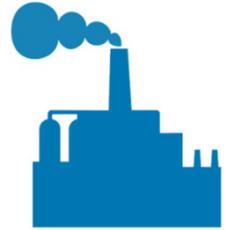
Identifying opportunities for
continued support

CUSTOMER IMPACT

Little impact based on
Resource Program

Adaptation to limited program
opportunities

INDUSTRIAL



SHORT TERM

Continued support from Energy Smart Industrial program

No changes to incentive or savings

LONG TERM

Monitor and evaluate based on customer and system needs and resource availability

CUSTOMER IMPACT

Little impact based on Resource Program

RESIDENTIAL: GENERAL



SHORT TERM

Use incentives to shift portfolio

Collaborate with customers and stakeholders to set direction

Weigh tradeoffs to balance needs and resources

LONG TERM

Develop strategic program infrastructure

Manage evolution of existing programs

Maintain collaboration

CUSTOMER IMPACT

Increased high-value savings
Reduced overall savings

Challenge replacing lighting
Better opportunities to engage customers

RESIDENTIAL: HVAC AND WEATHERIZATION



SHORT TERM

Increased weatherization incentives

Simplified program requirements

Collaborative program development
(Weatherization and PTCS)

Continued support for DHPs

LONG TERM

Augment incentives with
field support

Target new program by FY21

Monitor impact of incentives
on portfolio cost

Continued engagement
on infrastructure

CUSTOMER IMPACT

High-impact programs for
residential customers

Simplified approach to PTCS

RESIDENTIAL: PROGRAM INFRASTRUCTURE



SHORT TERM

Current Simple Steps model
through FY21

Continued support for PTCS and
non-PTCS HVAC measures

Finalize workgroups to guide
program development

LONG TERM

Program support in response to
work group feedback

Strategic evolution of retail
efficiency programs

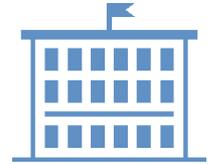
Monitor and evaluate based on
customer and system needs

CUSTOMER IMPACT

High-impact programs for
residential customers

Simplified approach to PTCS

COMMERCIAL: GENERAL



SHORT TERM

Use incentives to shift portfolio

Prime the market;
customer and trade ally outreach

Continue foundational trainings;
roll out integrated workshops
(HVAC and Lighting)

LONG TERM

Continuous improvement of
program infrastructure

Heighten HVAC focus;
track nonresidential lighting trends

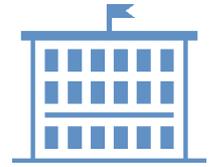
Maintain collaboration and
opportunities to extend utility
capabilities

CUSTOMER IMPACT

Early transitional phase
for nonresidential lighting

Increase support for advanced
lighting, complex HVAC

COMMERCIAL: NONRESIDENTIAL LIGHTING



SHORT TERM

LC 5.0 series; reduce calculated payments and payments for commodity TLEDs

Align to LC 5.0 series payment levels; sync up the market

Networked lighting control trainings

LONG TERM

Focus on networked lighting controls (marketing, support)

Investment in networked lighting controls training (e-learning, NXT Level, in-person)

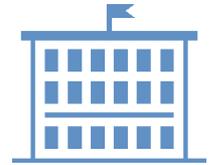
Continue regional coordination and collaboration

CUSTOMER IMPACT

Support local contractors in education; adaptation to new technologies

LC 5.0 series rollout

COMMERCIAL: HVAC AND WEATHERIZATION



SHORT TERM

Updating savings, payments;
increase where possible

Build awareness of incentives;
support regional alignment of
incentives

LONG TERM

Influence distributors

Investment in HVAC trainings
(e-learning, in-person)

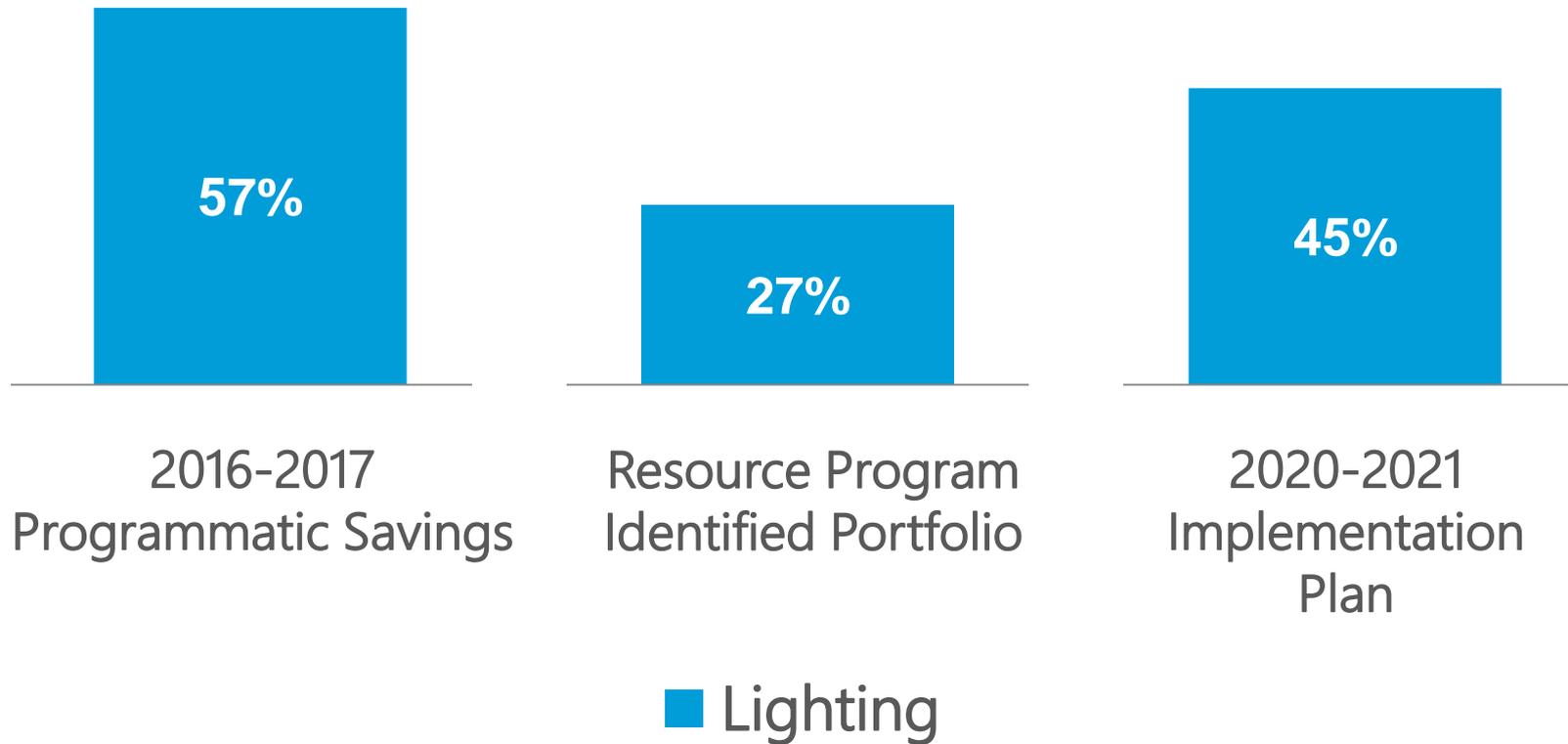
Increase trade ally support
(onsite, best practices, etc.)

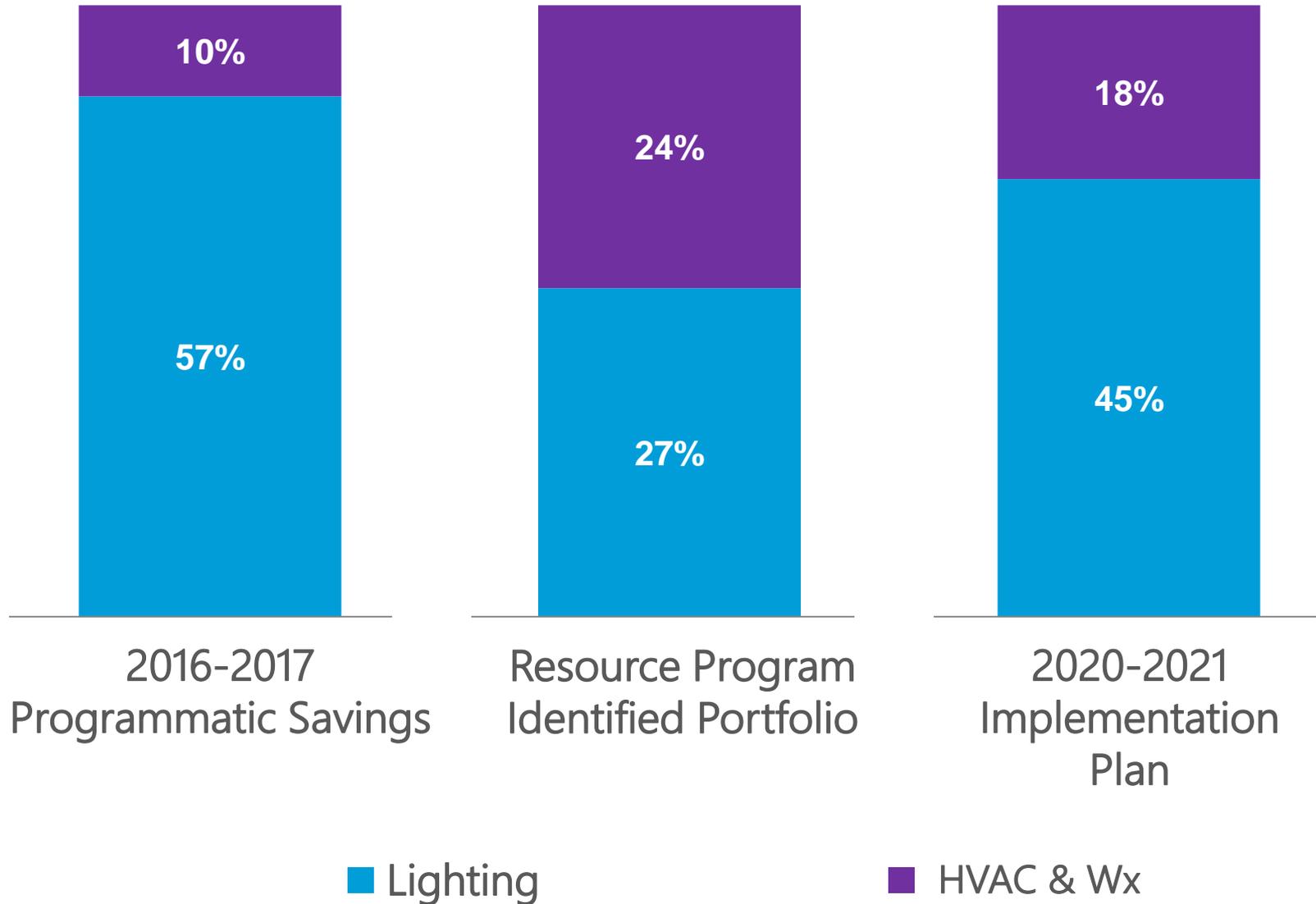
CUSTOMER IMPACT

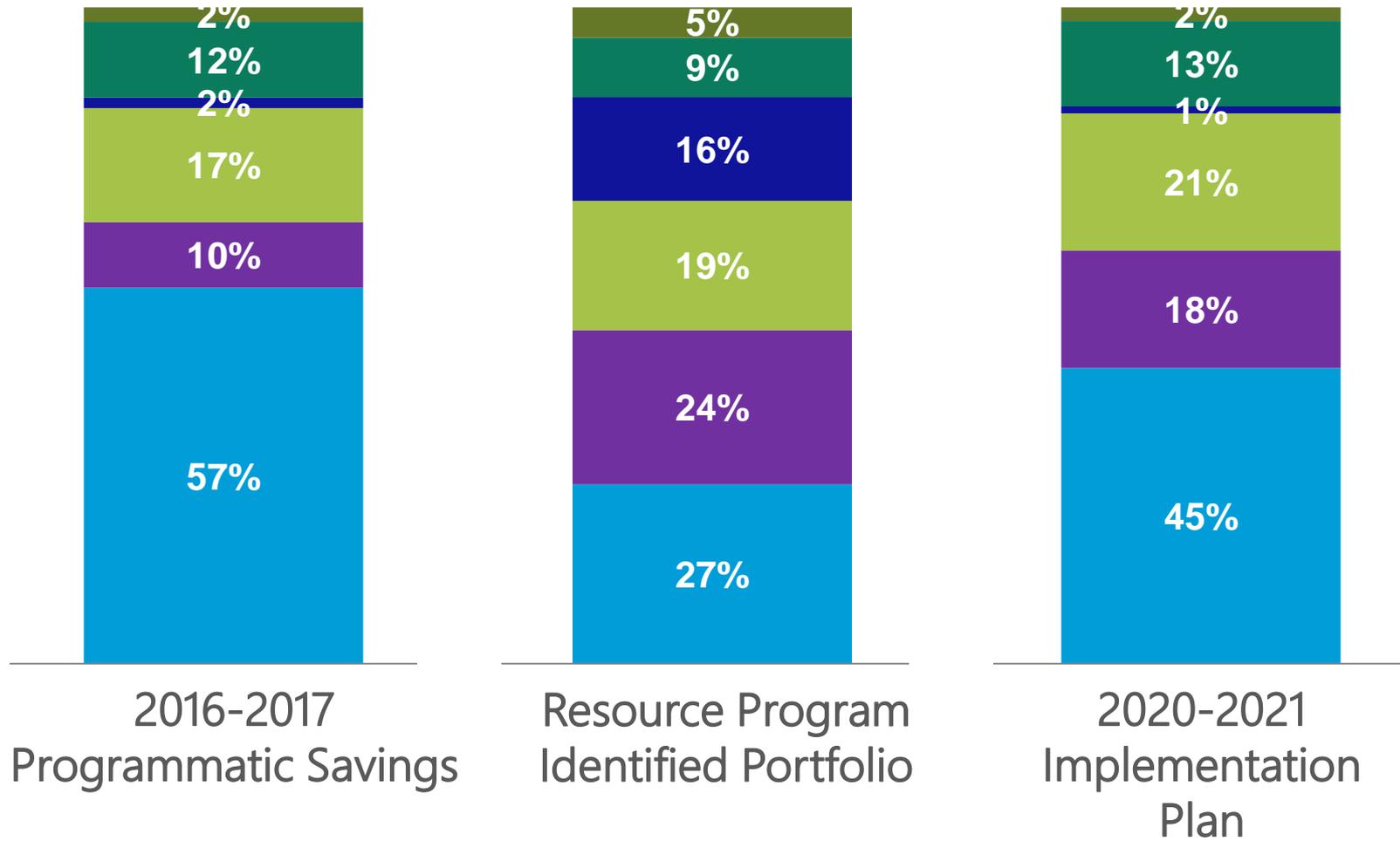
Support local contractors in
awareness, education

Deeper collaboration and coordination
with local contractor networks

RESOURCE PROGRAM ALIGNMENT

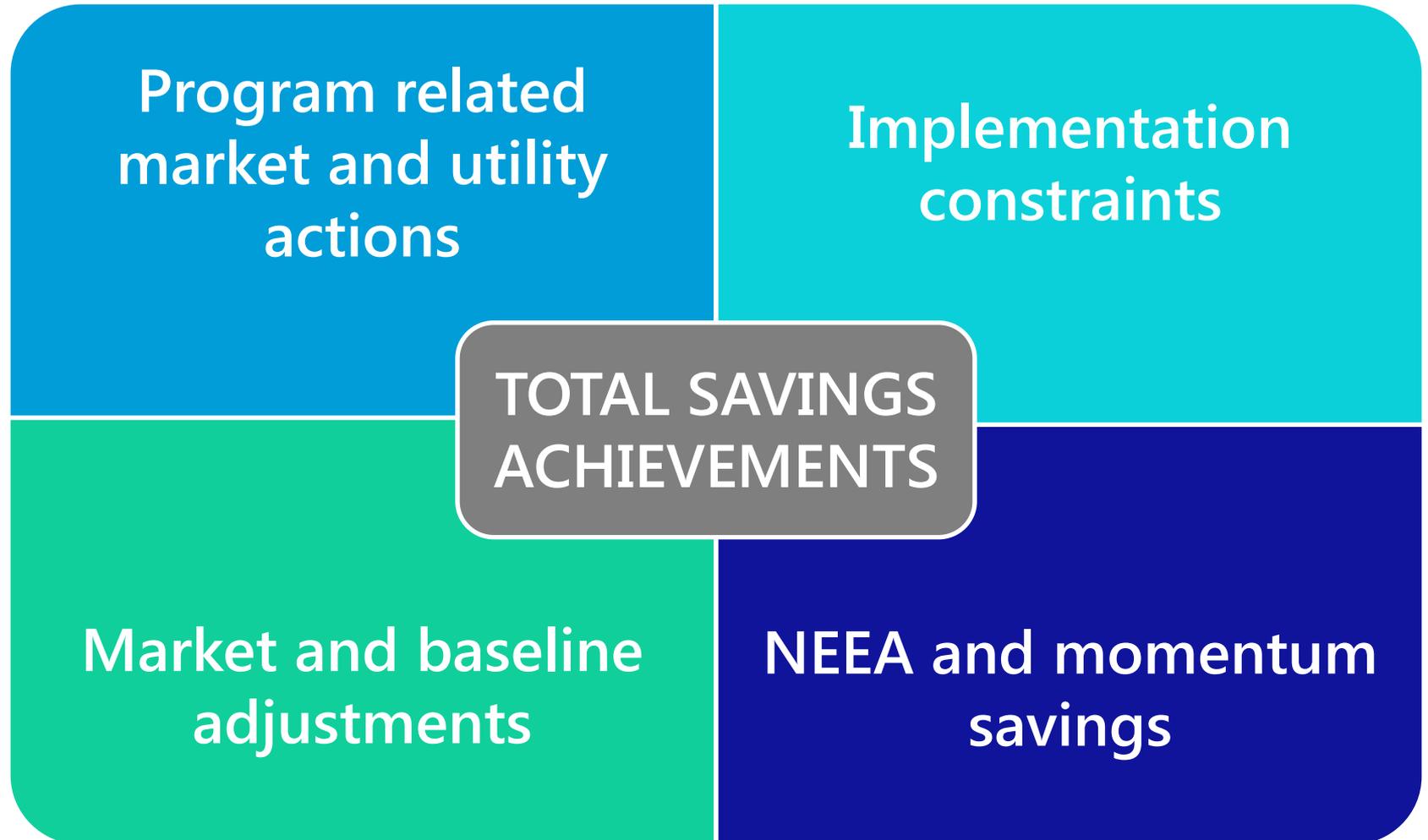




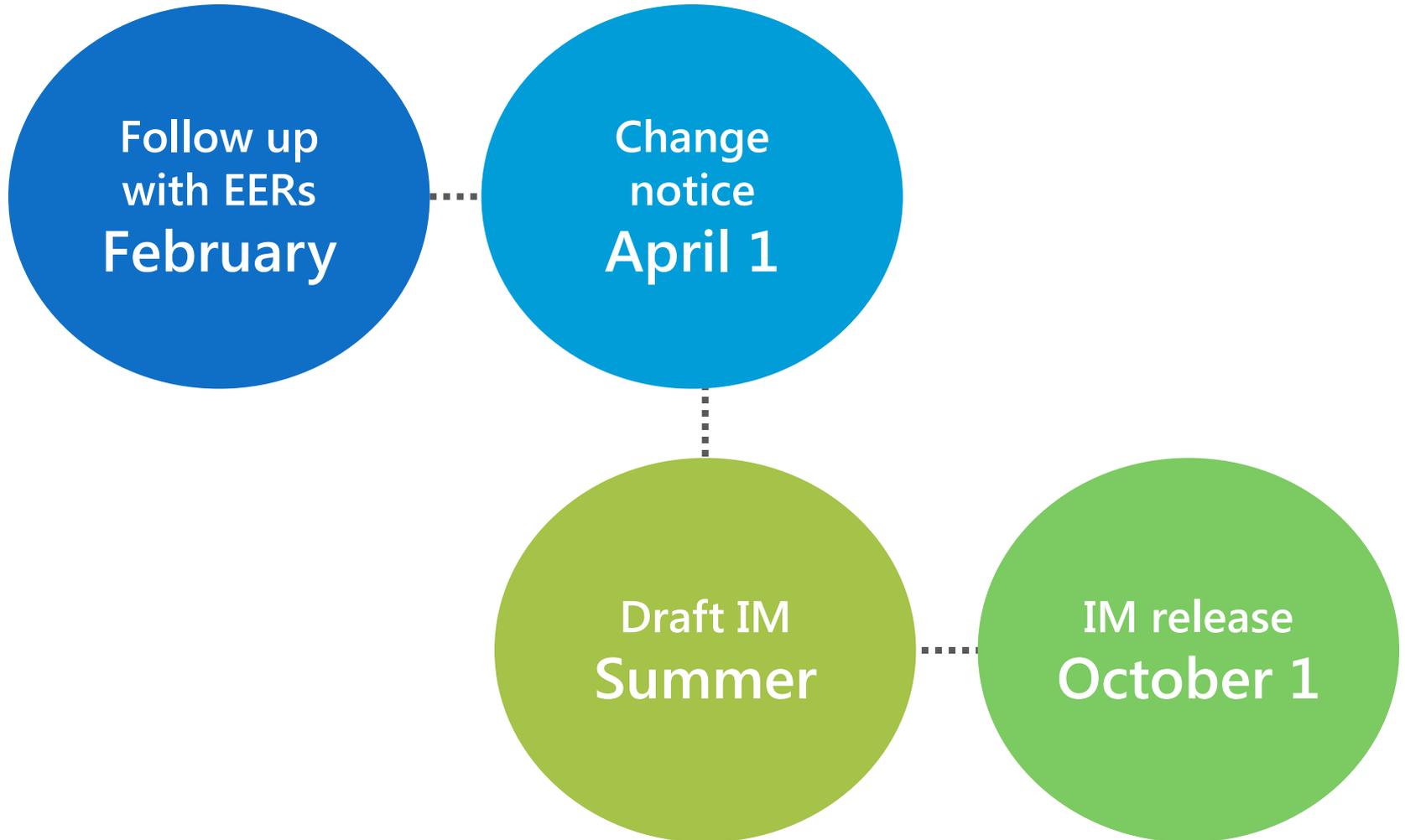


■ Lighting
 ■ HVAC & Wx
 ■ Industrial
 ■ Electronics
 ■ Other
 ■ Water Heating

UNCERTAINTIES



NEXT STEPS





Questions?

