

Momentum Savings & Market Research Quarterly Call

December 7, 2022





ROLE CALL ICE BREAKER

WHAT WAS YOUR MOST LISTENED TO ARTIST, SONG, OR ALBUM IN 2022?

Innovation and Research

Emerging Technologies

Smart Grid

Market Research and Momentum Savings

Energy is changing the power grid.

Efforts are a foundational part of BPA's total energy conservation resource necessary to ensure that energy conservation is happening in different ways. This research allows regional programs to better understand generation and capacity needs.

Since 2004, BPA has performed market research to quantify [Momentum Savings](#) (formerly "non-programmatic savings"), which are defined as all the energy efficiency occurring above the Northwest Power and Conservation Council's Power Plan baseline that are not directly reported by utilities or the Northwest Energy Efficiency Alliance. [Momentum Savings](#) used to be an add-on to the Northwest Energy Efficiency Alliance's program.

Website Refresh

[Adjustable Speed Drives Market Research](#)

THE VALUE OF BPA'S ENERGY EFFICIENCY WORK

Bonnie Watson, BPA

November 2022



HISTORICAL CONTOURS OF BPA'S EE EFFORTS

- › Council sets the regional conservation target
- › BPA provides infrastructure and incentive funding; utility customers acquire public power share of target. NEEA leads market transformation.
- › Low-cost EE potential is relatively abundant
- › Renewable alternatives expensive
- › Focus is on energy savings, regardless of time or location

CURRENT ENERGY LANDSCAPE

- › BPA Resource Program
- › Much of low-cost EE acquired
- › Alternative resources cheaper
- › Regional grid challenges emerging
- › Increasing divergence of utility needs
- › 2028 contract renewals ahead

A scenic landscape featuring a river in the middle ground, with mountains in the background and tall grasses in the foreground. The scene is bathed in warm, golden light, suggesting a sunset or sunrise. The image is partially obscured by a white rectangular box containing text and a dark blue background on the right side.

The Value of EE

More than **2,500**
aMW of EE resource
since **1982**



2000

2020

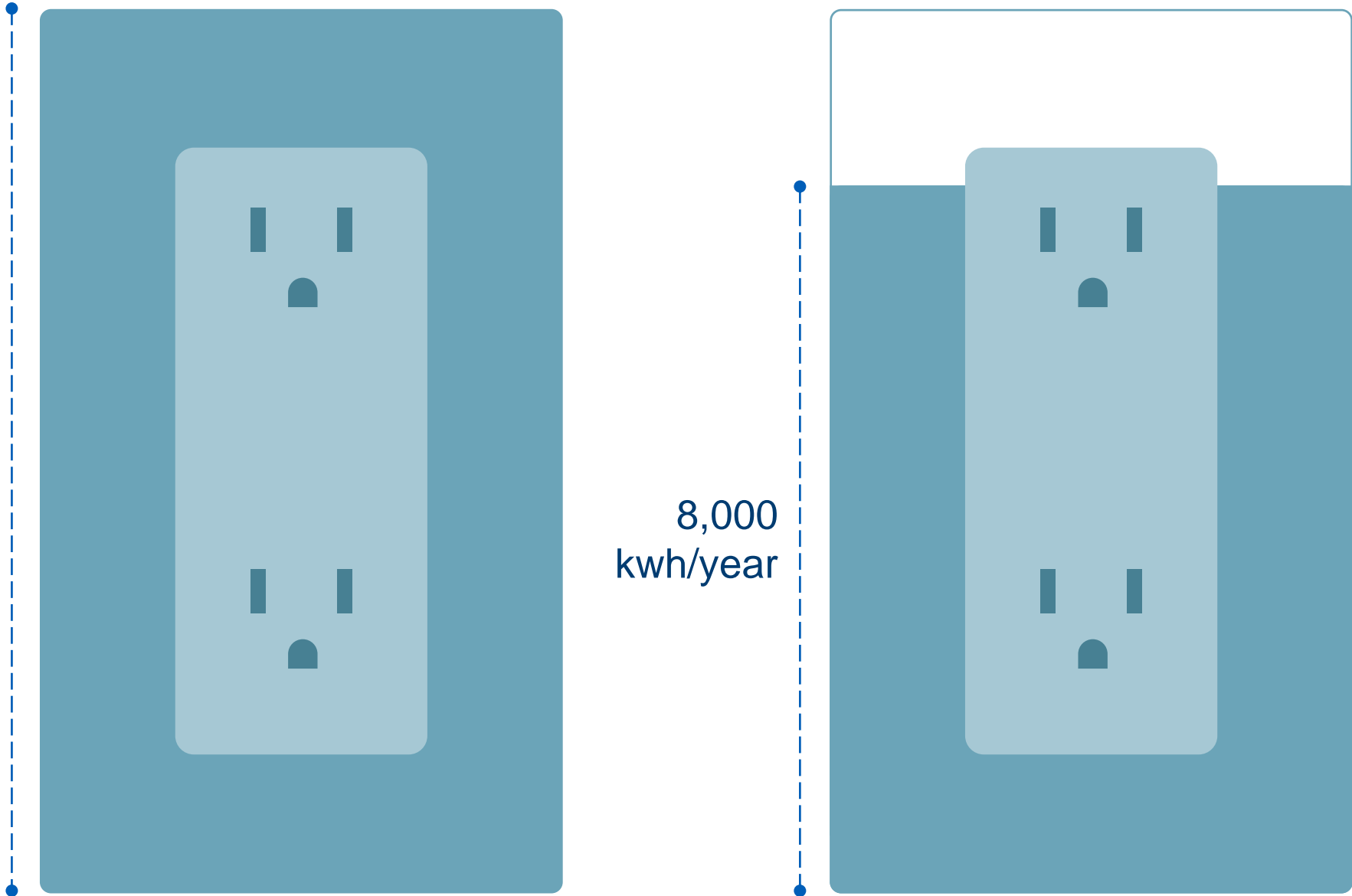
Yeah, but
is it real?

Yes.

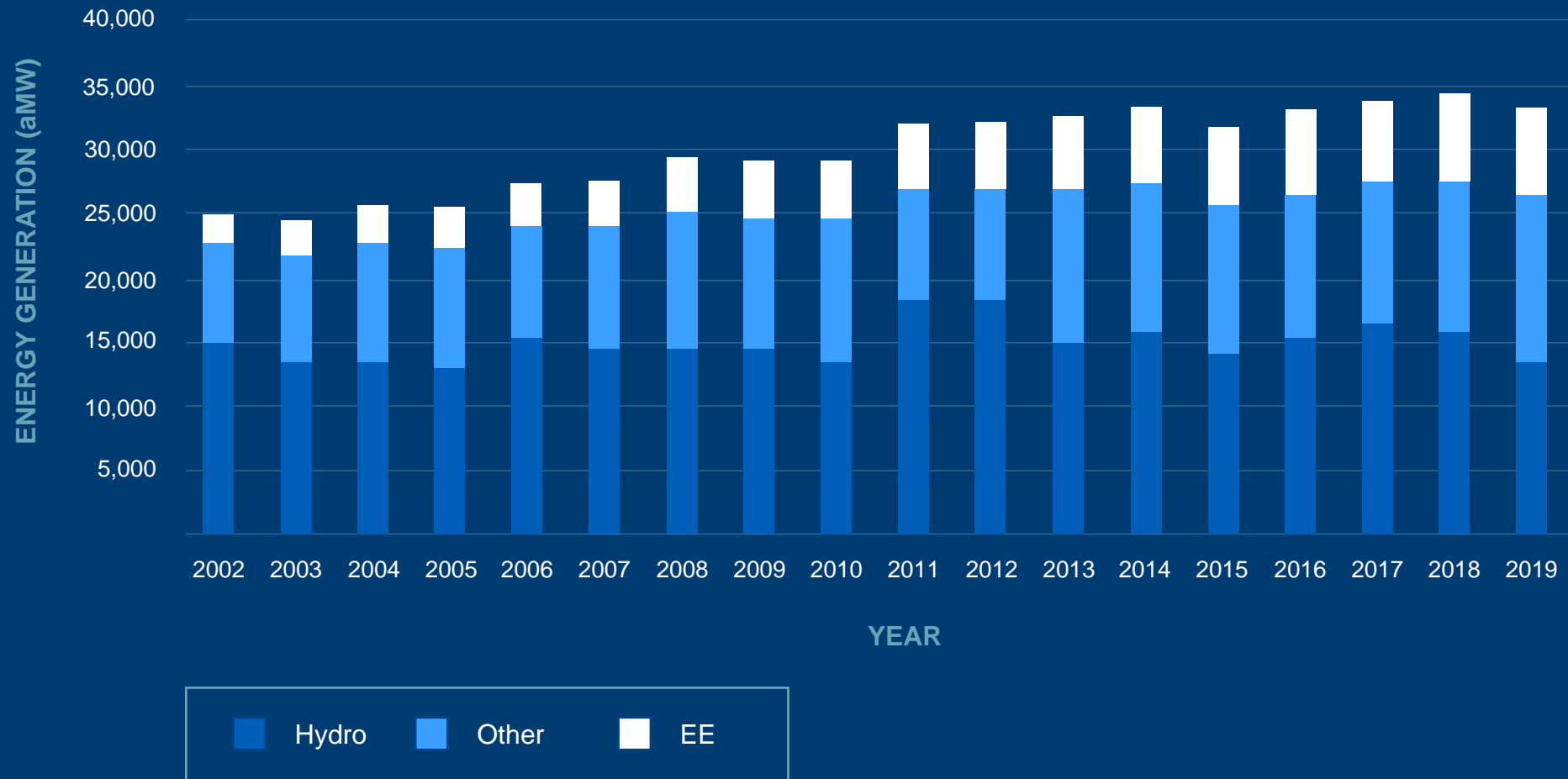
10,000
kwh/year

8,000
kwh/year

Average Seattle City Light Residential Customer Use



Pacific Northwest Annual Energy Production, Including Energy Efficiency



An aerial photograph of a river valley. The river flows from the bottom center towards the middle ground, winding through a lush green forest. In the background, a large lake is visible, surrounded by mountains under a clear sky. The text "BONNEVILLE'S UNIQUE UNIFYING ROLE" is overlaid in white, bold, sans-serif font across the middle of the image.

BONNEVILLE'S UNIQUE UNIFYING ROLE



**Enabling Customer
Success**



**Creating Economic Benefits
for the Community**



**Building a
Resilient Future**



**Minimizing
Environmental Impacts**

**The EE
Resource
Brings
Many
Benefits**

Enabling Customer Success



Customers Can Leverage BPA Engineering Expertise To...



Identify EE
opportunities



Prioritize
measures



Implement
measures



Measure and
verify savings



Assist in
claiming
savings

Supporting Customer Regulatory Compliance



I-937



CETA



Policy Goals

***A positive
connection to
customers***





Investing in the community



Enabling economic vibrancy

CUSTOMER SUCCESS

Water and energy conservation



Impact Beyond Energy Savings

Safety



**Air
quality**



Comfort



Supporting Tribes and Low-Income Households

Since 2016:

- Weatherized > 4 million sqft. of living area
- Approx. \$1.25 million in bill savings

Creating Economic Benefits for the Community





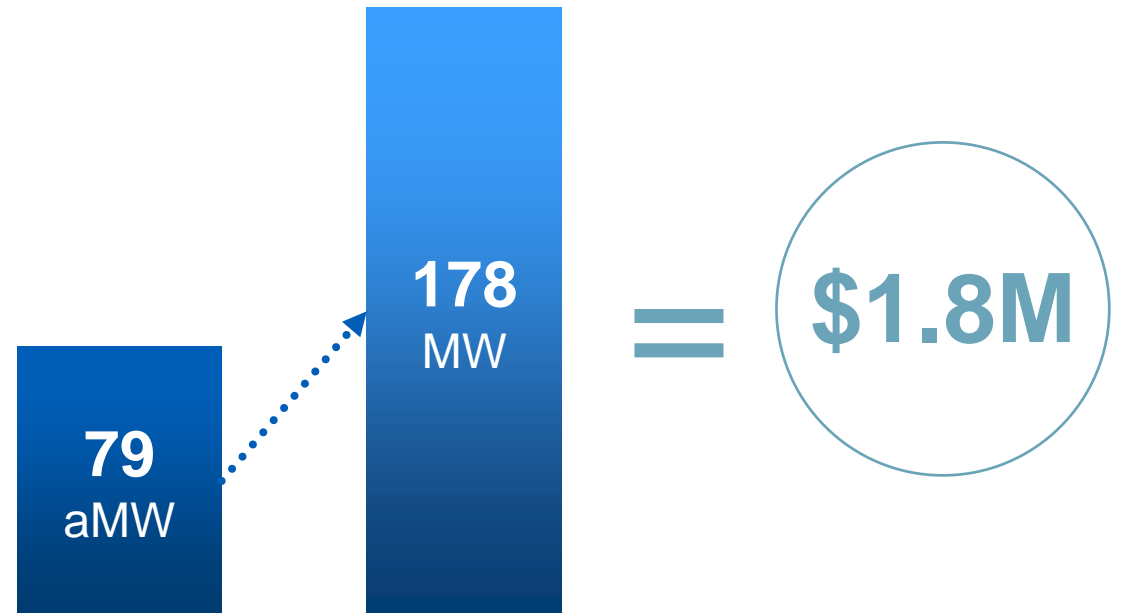
“The cumulative efficiency savings since 1980 have reduced consumer electricity bills by about **\$4 billion** per year.”

– 2021 Power Plan

Lower Costs and Lower Bills



Supporting Regional Capacity Needs



**A hedge for some
peace of mind**



Deferred Distribution System Costs



ECONOMIC BENEFITS

A True Community Resource



ECONOMIC BENEFITS

Building a Resilient Future

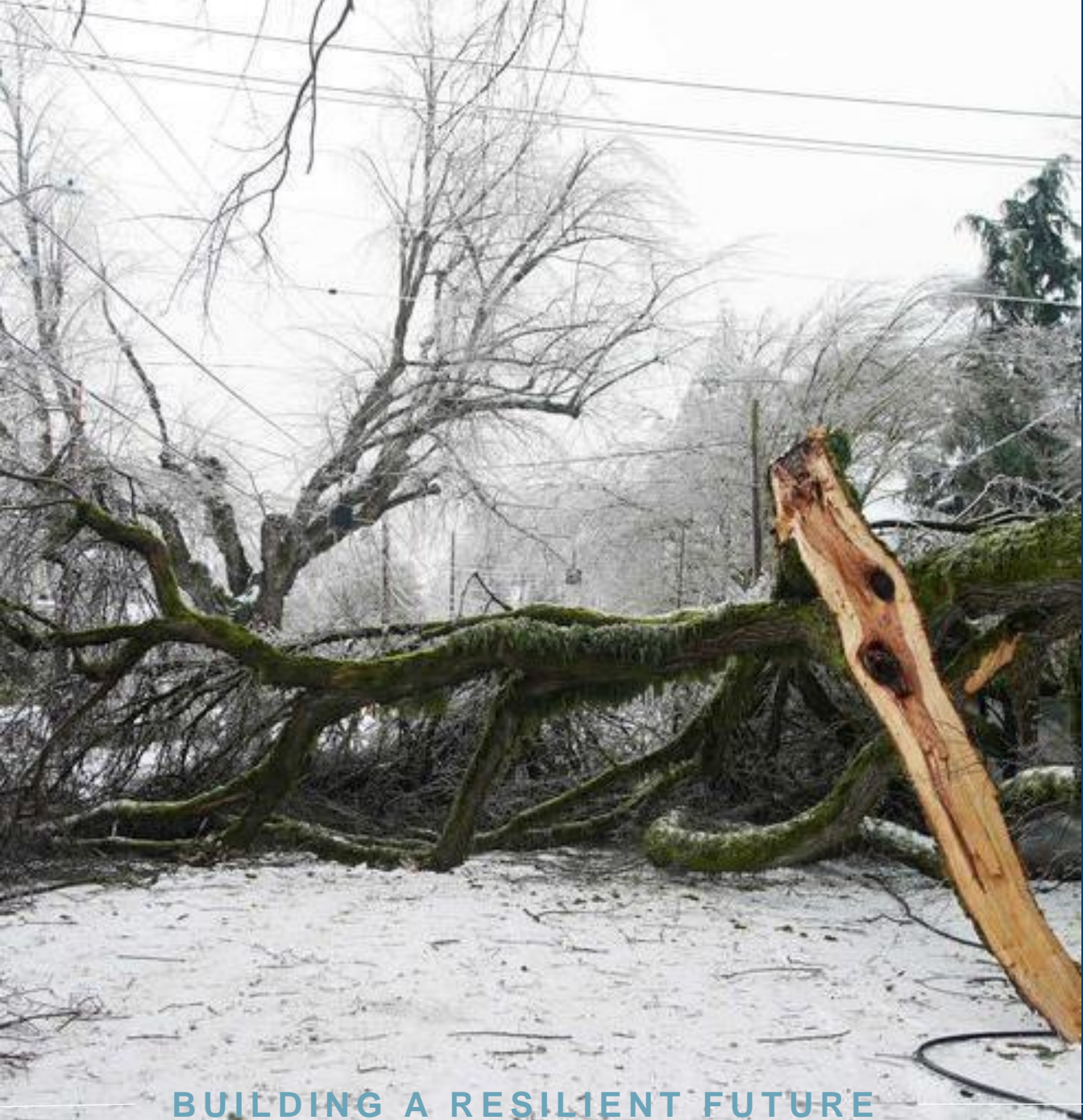


Improving the grid's ability to cope with a new world



Mitigating the impact of electrification



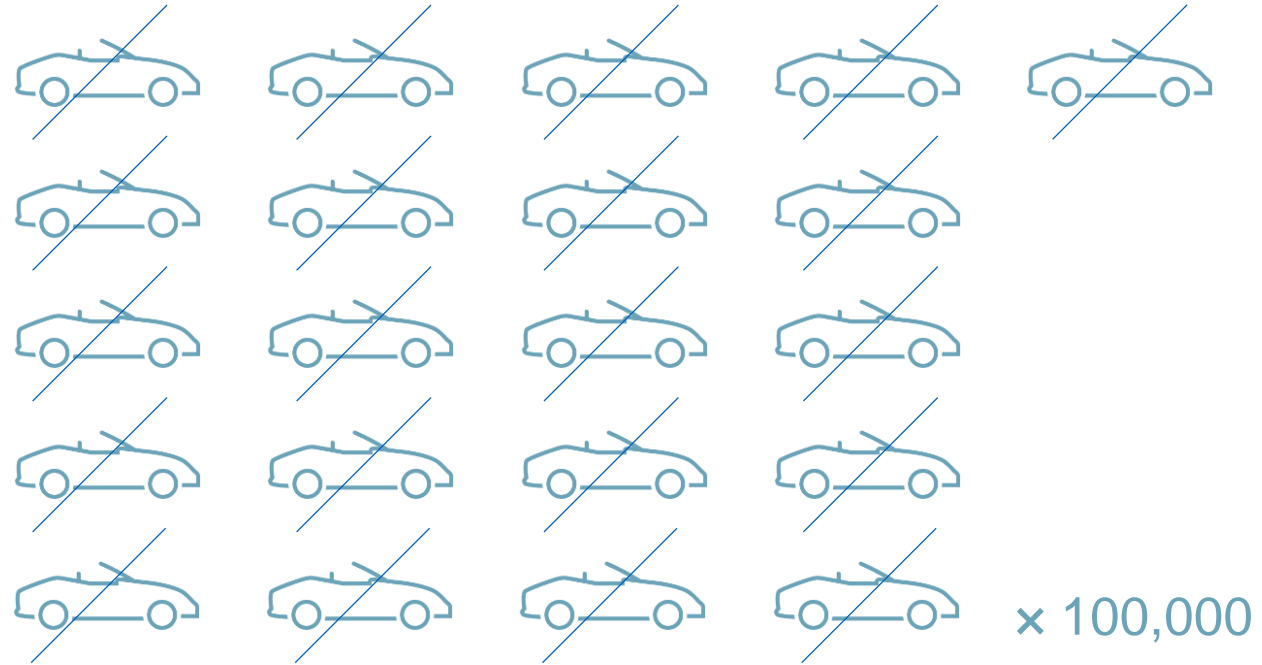


Offering customer resilience in extreme events

Minimizing Environmental Impacts



**10 MILLION TONS
OF CO₂e AVOIDED**



**Equivalent to taking more
than 2.1 million cars off the road**



Minimizing carbon-based market purchases for our customers



Avoid environmental impact associated with any new builds



**Enabling Customer
Success**



**Creating Economic Benefits
for the Community**

EE as a Resource

**Building a
Resilient Future**



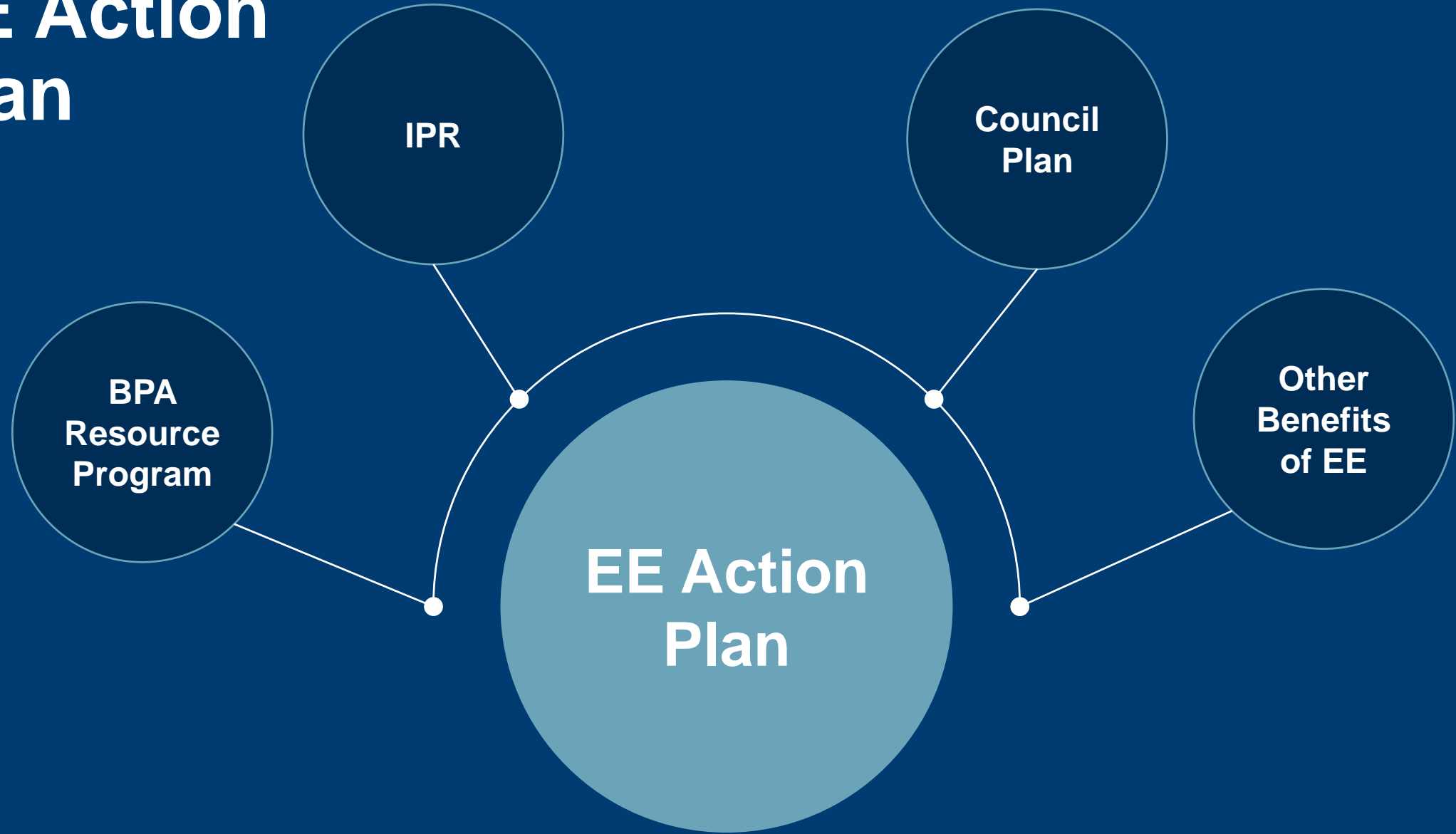
**Minimizing
Environmental Impacts**



What's Next



EE Action Plan



THANK YOU !

See you on February 1, 2023

Email questions to: momentumsavings@bpa.gov

