



SEATTLE CITY COUNCIL

Sustainability, City Light, Arts and Culture Committee

Agenda

Friday, March 1, 2024

9:30 AM

Council Chamber, City Hall

600 4th Avenue

Seattle, WA 98104

Tanya Woo, Chair

Cathy Moore, Vice-Chair

Tammy J. Morales, Member

Rob Saka, Member

Dan Strauss, Member

Chair Info: 206-684-8808

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<https://seattle.gov/cityclerk/accommodations>.



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Meeting Location:

Council Chamber, City Hall , 600 4th Avenue , Seattle, WA 98104

Committee Website:

<https://www.seattle.gov/council/committees/sustainability-city-light-arts-and-culture>

This meeting also constitutes a meeting of the City Council, provided that the meeting shall be conducted as a committee meeting under the Council Rules and Procedures, and Council action shall be limited to committee business.

Members of the public may register for remote or in-person Public Comment to address the Council. Details on how to provide Public Comment are listed below:

Remote Public Comment - Register online to speak during the Public Comment period at the meeting at

<https://www.seattle.gov/council/committees/public-comment>

Online registration to speak will begin one hour before the meeting start time, and registration will end at the conclusion of the Public Comment period during the meeting. Speakers must be registered in order to be recognized by the Chair.

In-Person Public Comment - Register to speak on the Public Comment sign-up sheet located inside Council Chambers at least 15 minutes prior to the meeting start time. Registration will end at the conclusion of the Public Comment period during the meeting. Speakers must be registered in order to be recognized by the Chair.

Pursuant to Council Rule VI.C.10, members of the public providing public comment in Chambers will be broadcast via Seattle Channel.

Submit written comments to Councilmembers at Council@seattle.gov.

Please Note: Times listed are estimated

A. Call To Order

B. Approval of the Agenda

C. Public Comment

D. Items of Business

1. The Role of Bonneville Power Administration with Seattle City Light

Supporting Documents: [Presentation](#)

Briefing and Discussion (30 minutes)

Presenters: Paul Dockery, and Kristy Grainger, Seattle City Light

E. Adjournment



Legislation Text

File #: Inf 2415, **Version:** 1

The Role of Bonneville Power Administration with Seattle City Light

Introduction to Seattle's Power Supply: Bonneville Power Administration (BPA)

Sustainability, City Light, Arts & Culture Committee Meeting
March 1, 2024

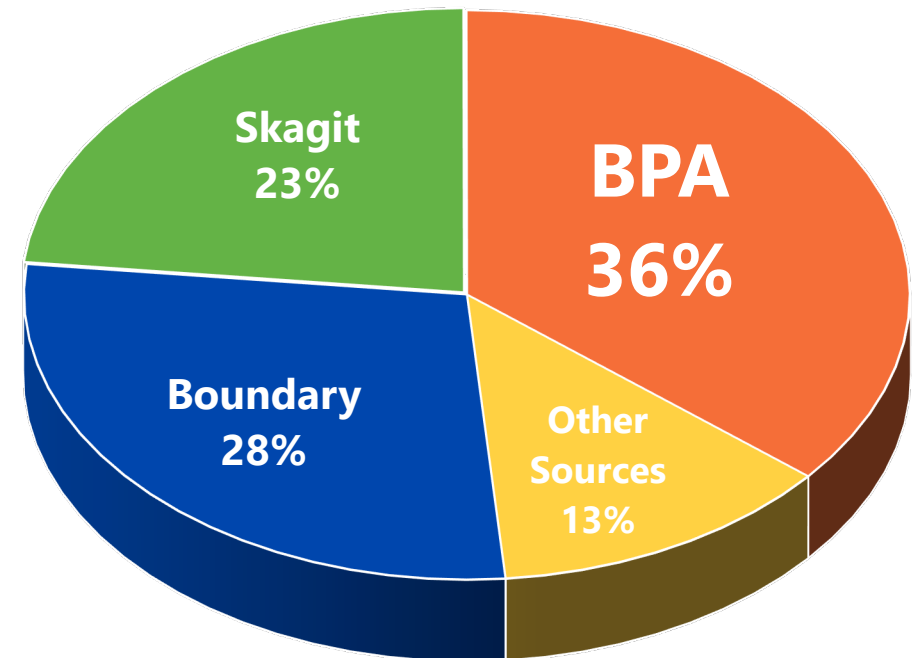


Seattle City Light

WE POWER SEATTLE

One Third of Seattle's Electricity Comes from BPA

- Power
 - 36% of our power supply
 - \$37.93/MWh, below market value
- Transmission
 - Transports power from Boundary Dam and Mid-C trading hub to Seattle
 - "Firm" rights – guaranteed access
- \$191M per year contract cost
- Power purchase agreement is a 17-year contract that expires October 1, 2028



City Light Electricity Sources, 2021

What is the Bonneville Power Administration (BPA)

BPA delivers reliable, affordable and carbon-free hydropower produced in the Columbia River Basin to communities across the Northwest.

- Agency within the US Department of Energy with appointed Administrator and ~2,400 federal employees
- Funded primarily by cost-based rates paid by NW public utility customers
- Provides 28% of the power in the Northwest
- Provides power to 3 million people in the Northwest (ID, MT, OR & WA)
- Maintains 15,000+ circuit miles of high voltage lines
- Markets the hydropower from 31 federal dams in the Northwest
- Northwest Power Act was passed in 1980 to mitigate the impact on fish & wildlife from the hydropower system while providing affordable, reliable electric supply



BPA: Regional Power Provider

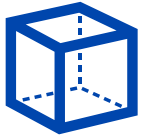


Sources: Esri, Bonneville Power Administration

MARK NOWLIN / THE SEATTLE TIMES

Power Supply: BPA Block Contract

- Three BPA power product options:



Block



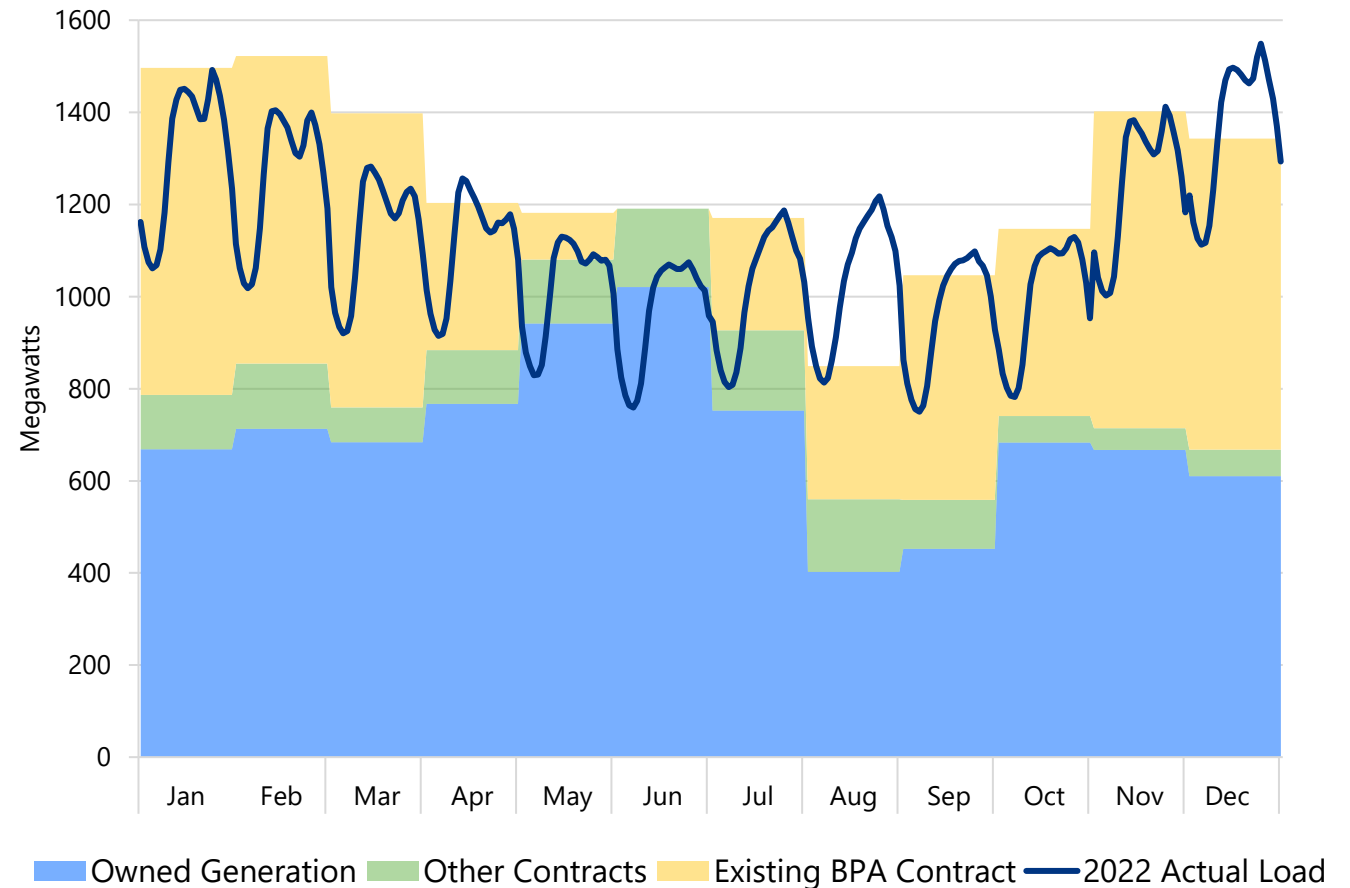
Slice



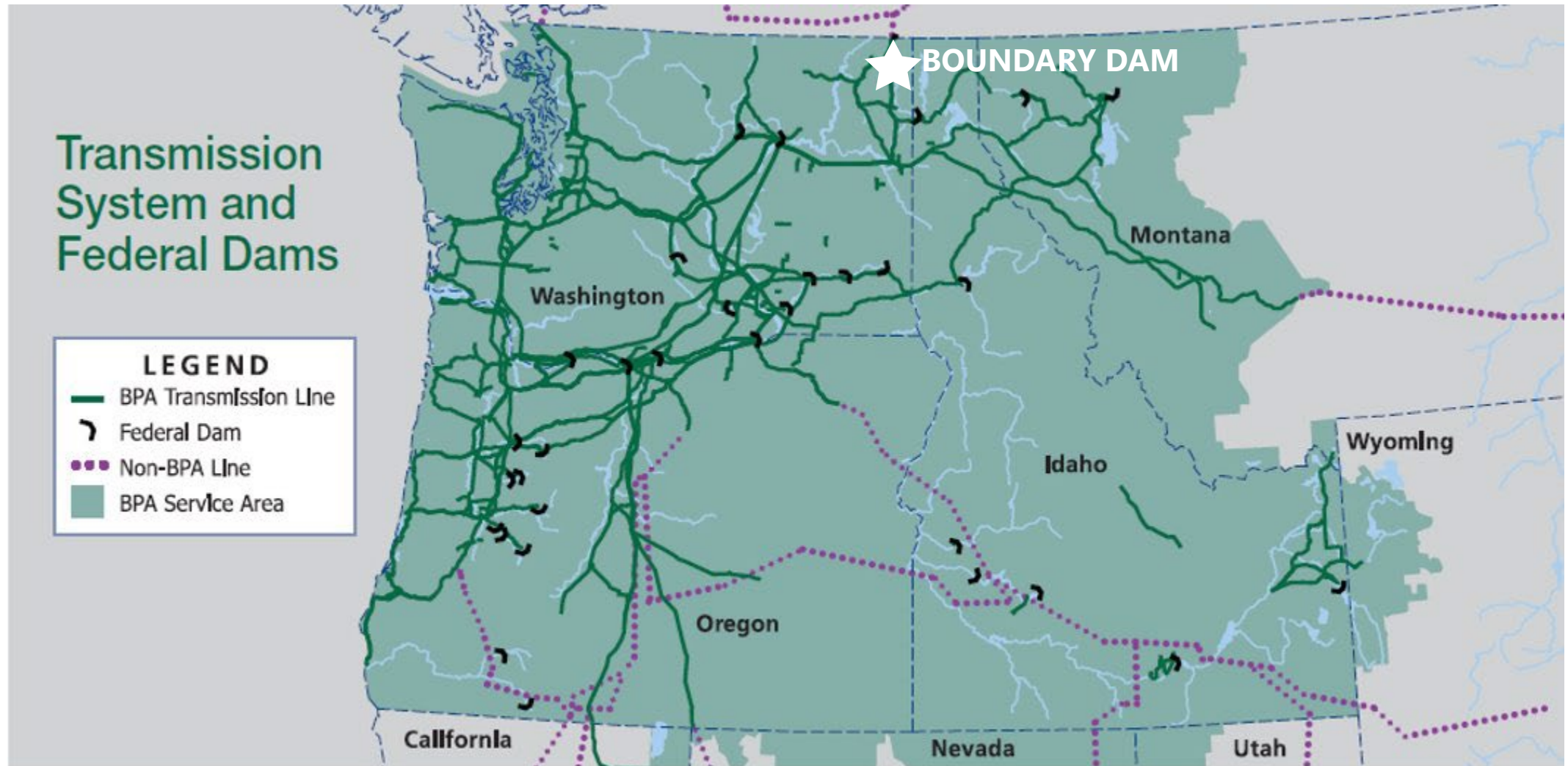
Load Following

- Seattle City Light buys “Block”, which provides shaped electricity tailored to our needs
- More in winter when electricity demand is higher
- Less in spring when our hydro generation is higher
- Also shaped intra-day between heavy and light demand hours

Seattle City Light Load-Resource Balance

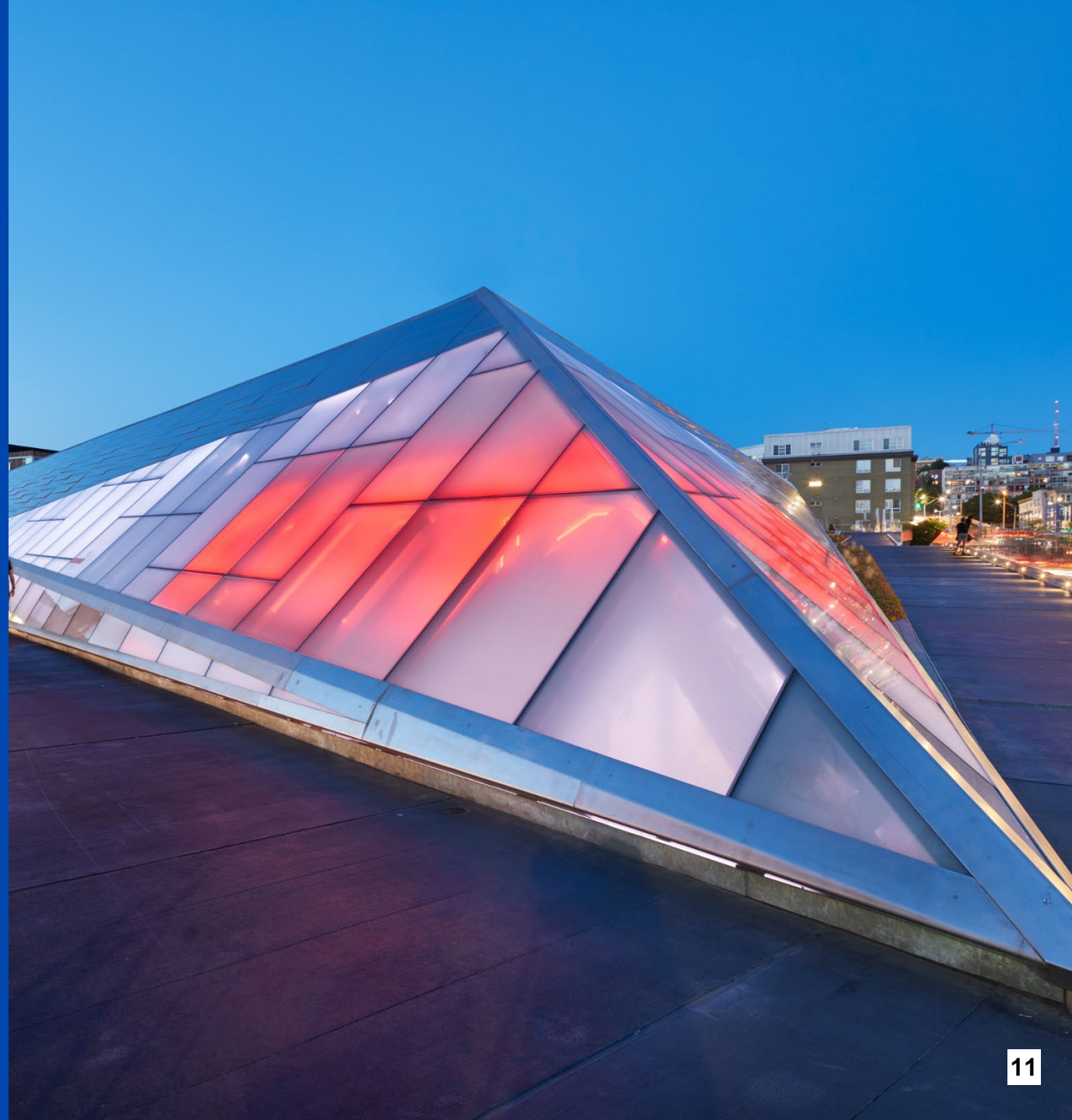


BPA: Regional Transmission Provider



DOE/BP-4998 • October 2020

BPA Policy Issues & Upcoming Decisions

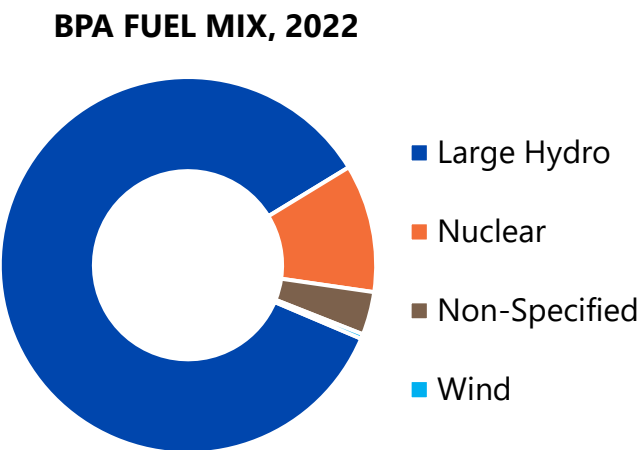


BPA Regional Policy Issues

- ➡ 1. Post-2028 contract development
- ➡ 2. Day-Ahead Market choice
- ➡ 3. Transmission system expansion & generator interconnection
- 4. Environmental litigation related to the Lower Snake River Dams
- 5. Columbia River Treaty
- 6. Residential Exchange Program
- 7. Energy Imbalance Market
- 8. Western Resource Adequacy Program

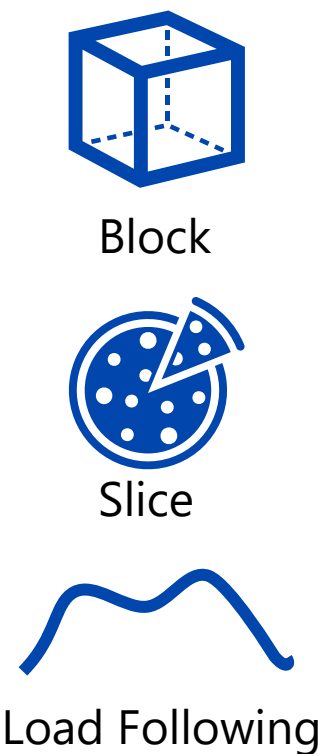
Post-2028 Contract Development

Emissions Policy

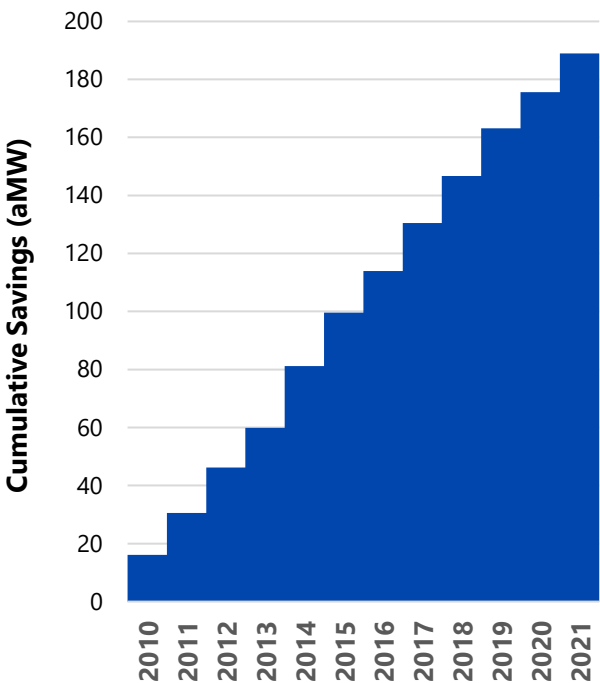


Source: www.bpa.gov/-/media/Aep/power/fuel-mix/2022-bpa-fuel-mix.pdf

Product Design



Energy Efficiency



Upcoming Decision: Day-Ahead Market

Which to join?

Option 1:

Extended Day-Ahead Market (EDAM)

*with
California Independent System Operator (CAISO)*



Option 2:

Markets Plus (Markets+)

with Southwest Power Pool (SPP)



Option 3: Nothing

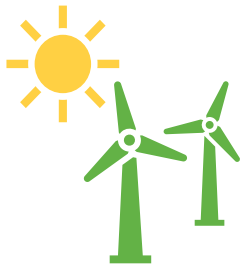
Regional Need for More Transmission



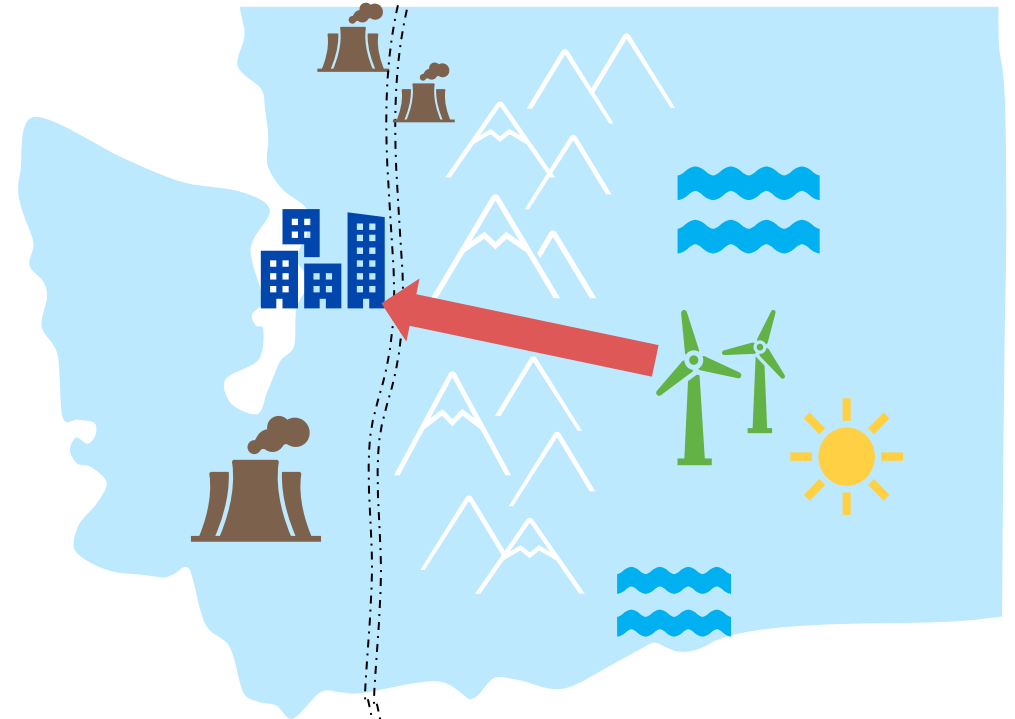
Demand for electricity growing due to tech industry growth, building and transportation electrification



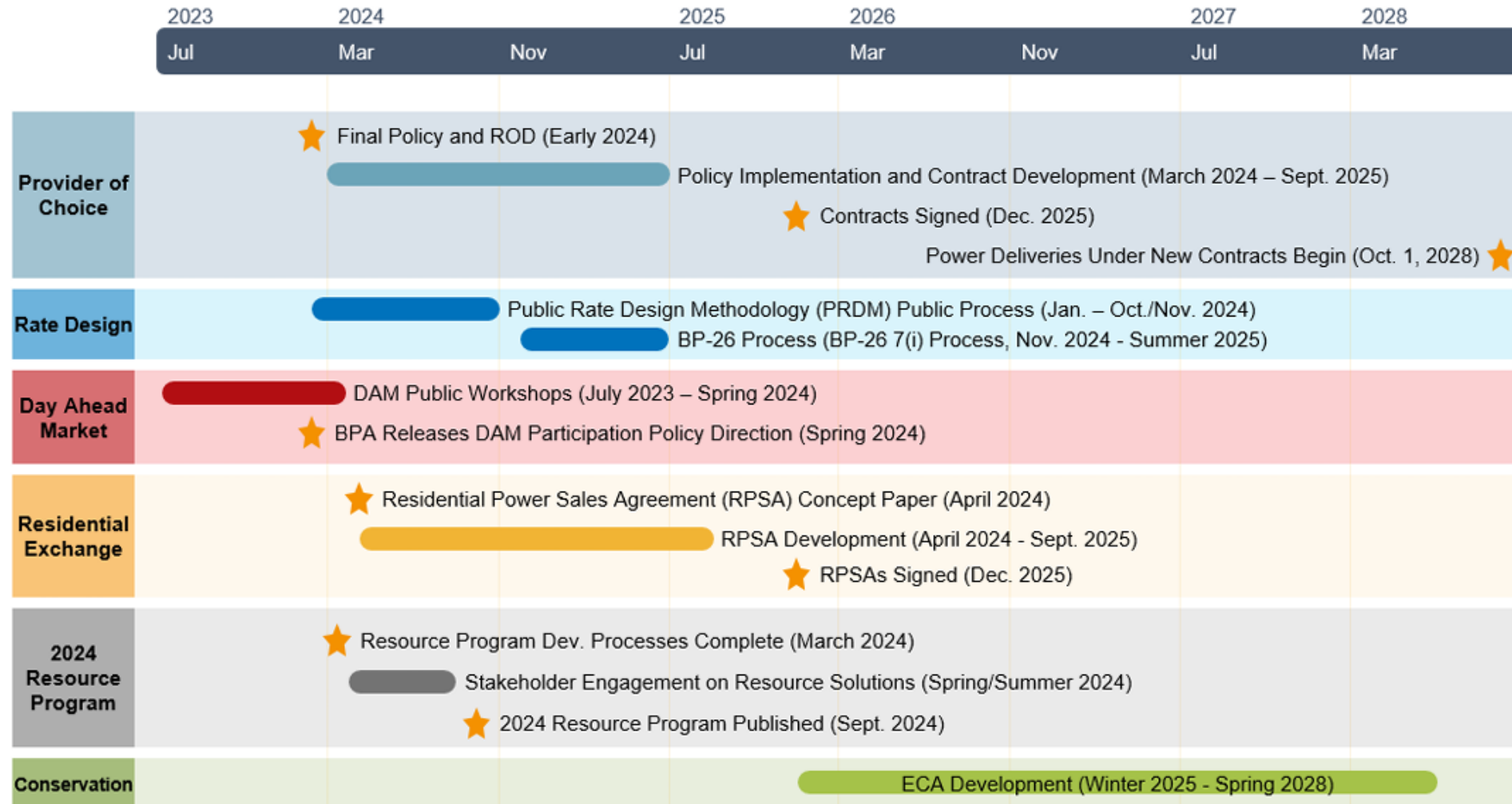
Reduced operation of “thermal” (gas & coal) power plants along I-5 corridor



New resources from wind and solar located east of the Cascades



Timeline for Upcoming BPA Policy Decisions





seattle.gov/city-light



You Tube