Western Resource Adequacy Program Ordinance Economic Development Technology & City Light Committee Briefing Seattle City Council March 22, 2023



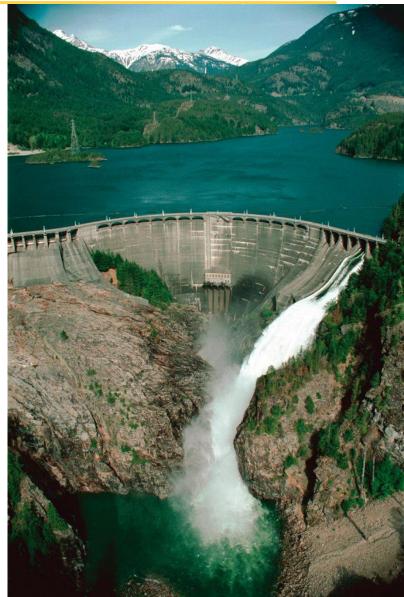
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Having enough resources to provide electric service under a range of conditions or scenarios with a sufficient degree of reliability.



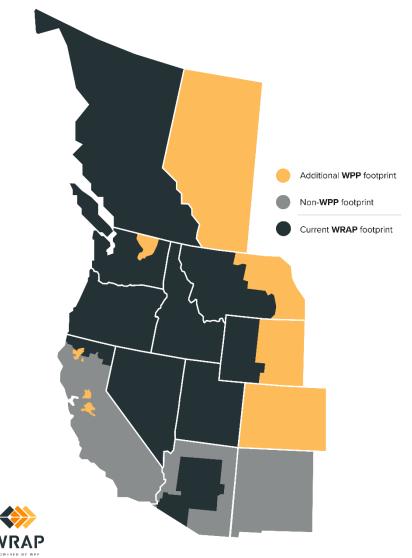
#### Why Now? Resource Adequacy & Reliability Challenges

- Recent studies demonstrate resource shortfall by mid-2020s across western U.S.
- Driven by multiple factors:
  - New regulations to decarbonize the power sector;
  - Replacement of fossil generation with intermittent renewables;
  - Load growth: Data center & agricultural sectors; acceleration of transportation and building electrification; and
  - Drought conditions and extreme weather events.



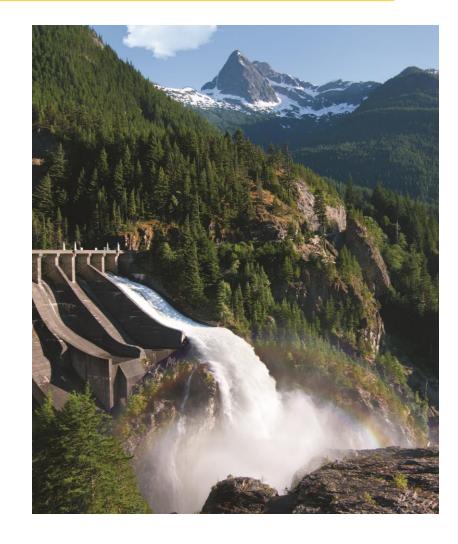
### What is the Western Resource Adequacy Program?

- First regional reliability planning and compliance program in the history of the West.
- A region-wide approach for assessing and addressing resource adequacy.
- With coordination and visibility across participants, the WRAP paints a more accurate, regional picture of resource needs and supply.
- Ensures reliability through collaboration, taking advantage of operating efficiencies, diversity, and sharing pooled resources.



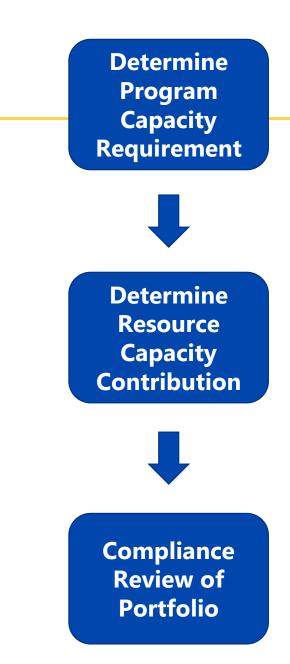
#### Value Proposition

- Enhances grid reliability as the west decarbonizes the resource mix.
- Leverages diversity of resources, loads and transmission across a broad footprint.
- Efficiently inform resource selection for the region driving investment savings for members and their customers.
- Ensure capacity is available to support transportation/building electrification & agricultural/industrial decarbonization.



### **Program Elements**

- Forward Showing
  - Participants demonstrate they have secured their share of capacity for upcoming season
  - 7 months in advance of binding season
  - Regional reliability metric 1 event-day in 10 years
- Operational Program
  - Evaluates real time operational situation relative to Forward Showing assumptions
  - Members with surplus assist participants with deficits in the hours of highest need



### **WRAP** Participants

- Arizona Public Service
- Avista
- Bonneville Power Administration
- Calpine
- Chelan County PUD
- Clatskanie PUD
- Eugene Water & Electric Board
- Grant PUD
- Idaho Power
- Northwestern Energy

- NVEnergy
- PacifiCorp
- Portland General Electric
- Powerex
- Puget Sound Energy
- Salt River Project
- Shell Energy
- Tacoma Power
- The Energy Authority

#### WRAP Current Status & Timeline

• City Light plans to request City Council approval this Spring to join WRAP



#### What Does the Ordinance Do?

- Authorizes the City Light General Manager to execute an agreement with the Northwest Power Pool doing business as the Western Power Pool Corporation to enter and participate in the WRAP.
- Authorizes City Light to participate in the WRAP as long as the GM believes it is within range of prudent utility practices.
- Authorizes GM to execute additional agreements & amendments associated with WRAP participation (not to exceed current budget authority).
- Any action consistent with this ordinance taken after its passage but prior to its effective date is ratified & confirmed.

## Questions?





# THANK YOU







### Mission, Vision & Values

#### **Mission**

Seattle City Light provides our customers with affordable, reliable and environmentally responsible energy services.

#### Vision

Create a shared energy future by partnering with our customers to meet their energy needs in whatever way they choose.

#### Values



**Customers First** 



**Environmental Stewardship** 



**Equitable Community Connections** 



**Operational and Financial Excellence** 



Safe and Engaged Employees



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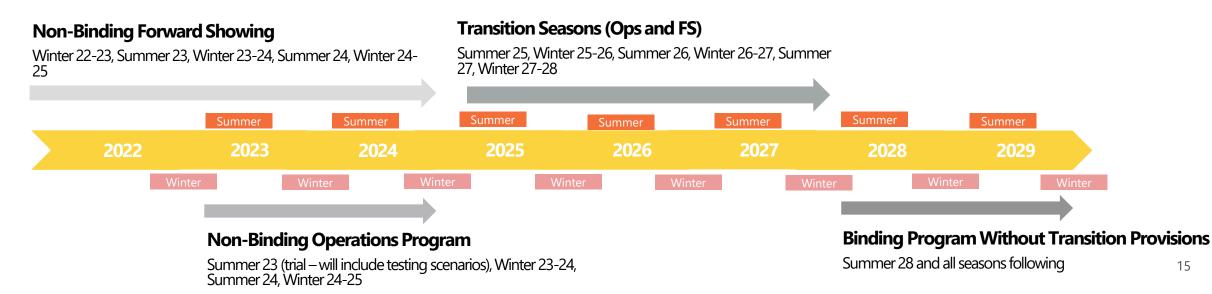
### Appendix





#### Transition to a Binding Program

- A thoughtful, deliberate transition from a non-binding to a binding program is important to maintain participation, remain viable, and ensure value to the region
  - The region greatly benefits from keeping the footprint moving forward together. The program should make reasonable efforts to accommodate any entity that desires to be part of the program
  - The program needs to ensure transition provisions generally maintain the principle of all parties providing a fair share of the region's capacity need. The program does not have the ability or intent to backstop capacity for participants unable to procure it in the market
  - Communication and coordination around the transition plan and impacts is vital.



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### Administration and Operation

- Program Administrator Western Power Pool
  - Responsible for ensuring that all tariff requirements are fulfilled.
  - Non-profit, mutual-benefit corporation and Internal Revenue Code section 501(c)(6) taxexempt organization based in Portland, Oregon.
  - Formed in 1941 by six investor-owned utilities operating in the Pacific Northwest.
  - Membership grew to include both investorowned and public power utilities, federal power marketing administrations, and Canadian entities.



- Program Operator Southwest Power Pool
  - Existing technical expertise, leverage industry experience to perform the functions necessary to operate the WRAP.
  - Forward showing and operations program functions, modeling and system analytics, realtime operations, continual technical improvement and IT systems work.
  - Non-profit corporation that operates regional transmission organization for central United States – responsible for ensuring reliability.



#### WRAP Governance

- Tariff approved by the Federal Energy Regulatory Commission (FERC)
  - Outlines program rules of participation
  - Tariff approved on February 10, 2023
- Independent Board of Directors
  - Selected by Nominating Committee
  - Nominating committee comprised of 14 members representing 12 different sectors of the energy industry (utilities, independent power producers, load serving entities, public interest groups, customer advocacy groups and state regulators)
  - Criteria for candidates included electric industry, regulatory, general management, Western electric system, or organized market experience; geographic diversity so no region was over-represented; diversity of perspectives including professional background, gender, ethnicity, and life experience; and strong collaboration skills

#### **WRAP Board Members**

- Michelle Bertolino, Former Executive Utility Director at Roseville Electric Utility
- **Doug Howe**, Consultant for the Western Public Utility Commission Joint Action Framework on Climate Change
- Andrew Ott, former CEO of PJM
- Susan Ackerman, Former Chief Energy Officer at Eugene Water and Electric Board
- Bill Drummond, WPP Board Chairperson