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



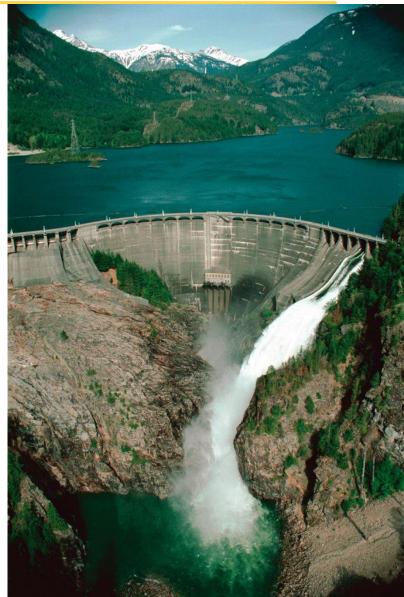
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Having enough resources to provide electric service under a range of conditions or scenarios with a sufficient degree of reliability.



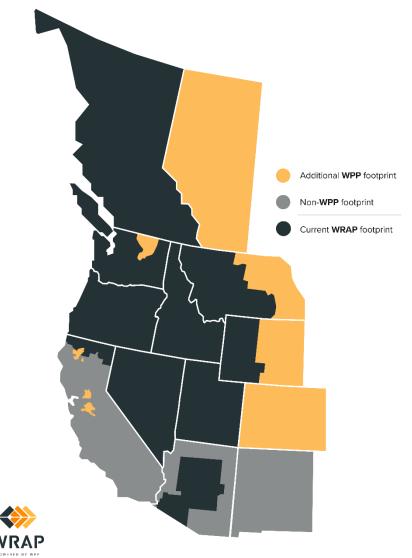
Why Now? Resource Adequacy & Reliability Challenges

- 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.



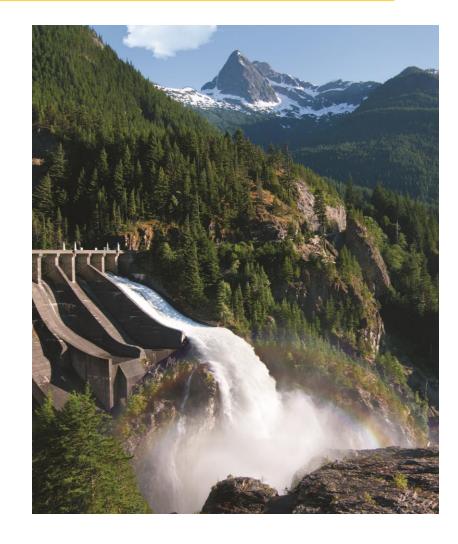
What is the Western Resource Adequacy Program?

- 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.



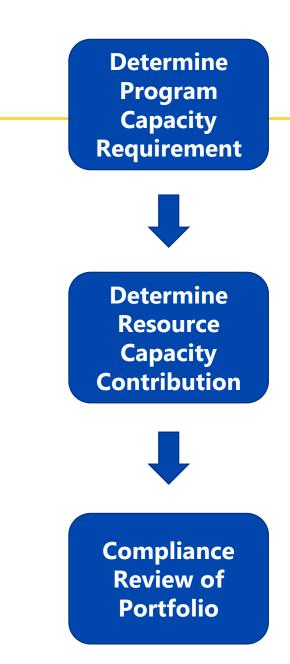
Value Proposition

- 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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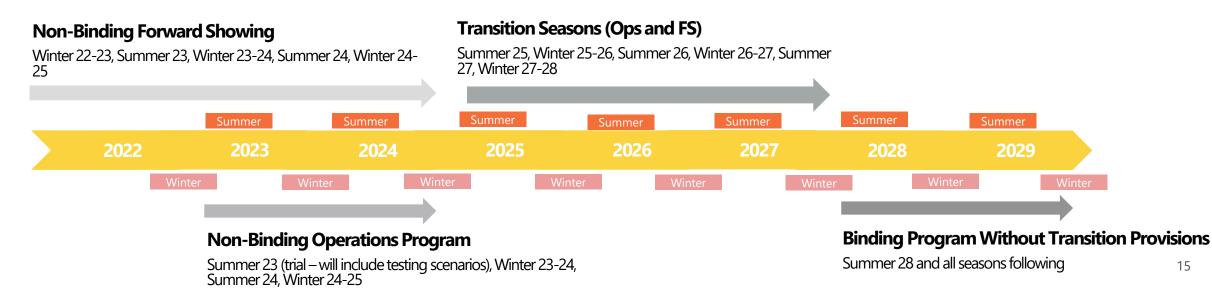
Appendix





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