

2023 IRP Kickoff

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Today's Agenda

- **IRP Refresher**
- **2023 IRP Kickoff and Timeline**

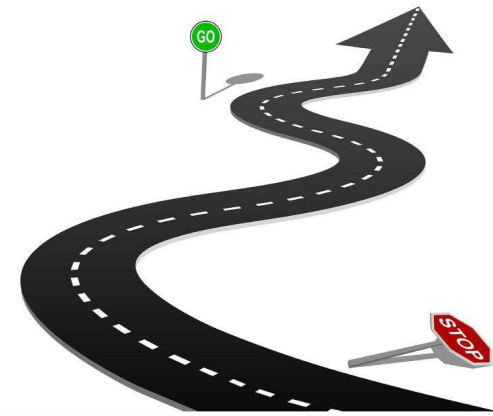
Our Asks Of You

- **Today's briefing is informational only. There is no decision to be made.**
- **We are asking for support and feedback on the 2023 IRP process.**



An IRP asks: How should we serve our customer-owners?

1. What **possible futures** could the PUD face thru 2045?
2. Does our existing energy portfolio meet our customer's needs thru these futures?
3. If not, what new resources are the best additions?
4. When might they be needed?

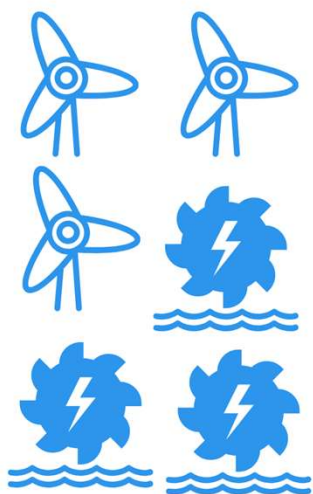


5. How do we get from where we are today to where we are going?



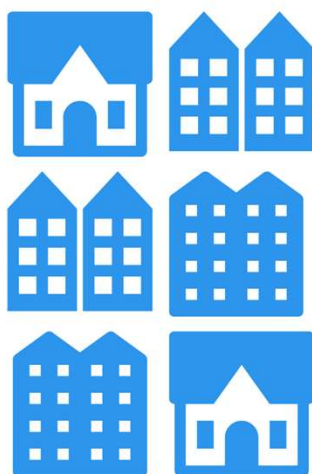
At a 30,000 foot level.....

PUD Generation



**Ex: 900 aMW
Generation**

Forecast Demand



**Ex: 950 aMW
Load**

New Resource Options



**Ex: 50 aMW
Forecast Need**

Given our resource needs, our portfolio, policy, and the cost of resources- what should we fill our need with?

1. Do we have a resource need?
2. How often?
3. How big?
4. When?

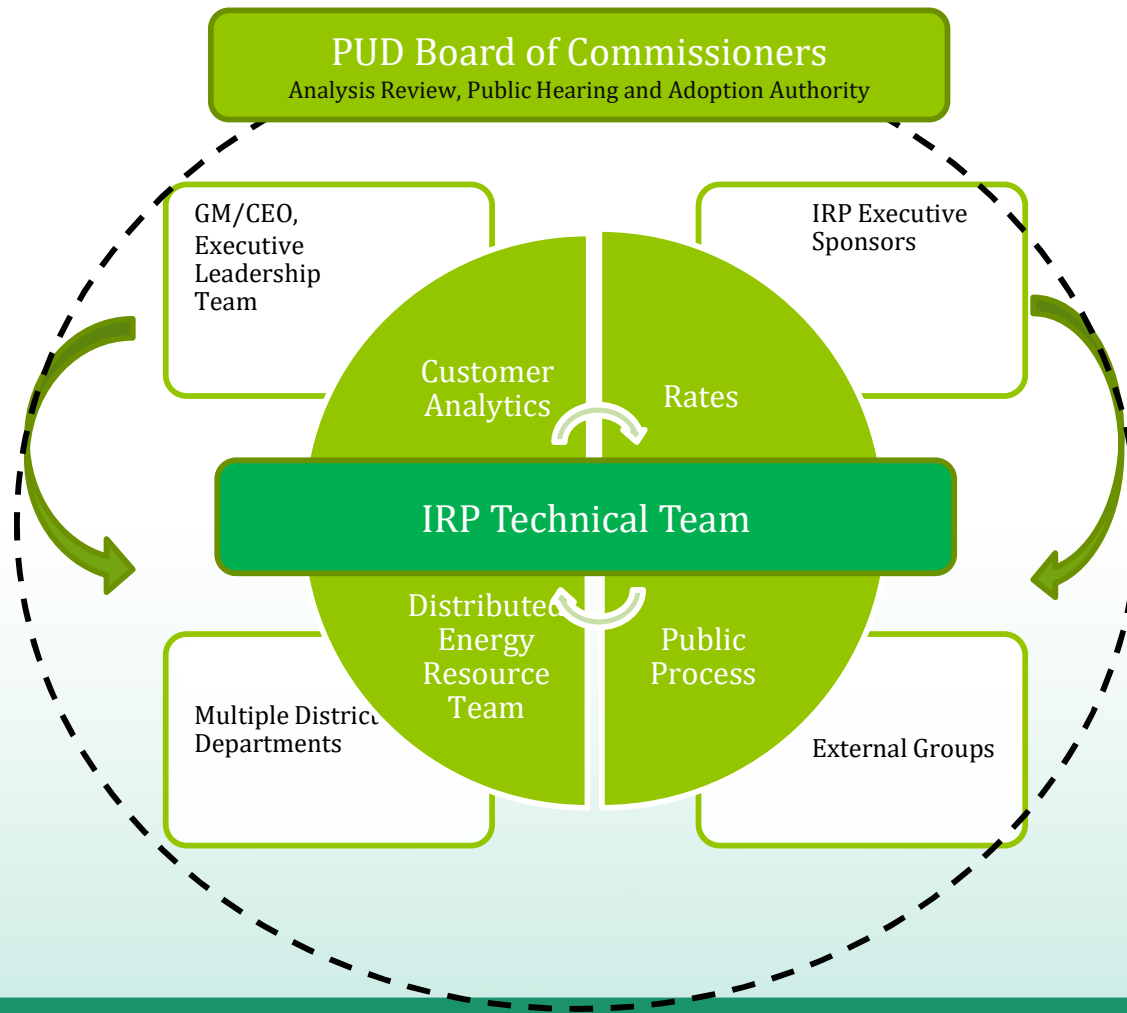


Why are we doing a 2023 IRP

- Didn't we just finish one?
 - RCW 19.280 requires utilities to develop and update resource plans every 2 years.
- 2023 is an update to the 2021 IRP. An update is an abbreviated version of a comprehensive IRP.



Snohomish PUD's 2023 Integrated Resource Planning Process



What has changed since the last IRP

- The 2028 BPA contract negotiation has some more clarity, but its still in flight.
- Climate Commitment Act starts Jan 1, 2023
- Western Resource Adequacy Program design complete, tariff filed.
- AMI rollout is closer to launch
- Electrification and load forecast changes.
- Market prices went up significantly



2021 Action Plan (Condensed)

- ✓ 1. Pursue all cost-effective conservation.
- ✓ 2. Pursue energy storage.
- ✓ 3. Acquire demand response.
- ✓ 4. Continue to improve our modeling of both demand and supply side.
- ✓ 5. Participate in regional forums and discussions
 - Climate change
 - Resource Adequacy
 - Organized Markets
 - BPA 2028 Contract



*Full action plan is in 2021 IRP Pg 216. [Integrated Resource Plan - Snohomish County PUD \(snopud.com\)](#)



The process at a glance

- **Phase 1:** Set the Scope
- **Phase 2:** Measure and Assess PUD needs
- **Phase 3:** Assess Options to Meet PUD needs
- **Phase 4:** Optimize portfolio to find cost-effective portfolio
- **Phase 5:** Turn results into a flexible strategy

	22-23	2023			
	Winter	Spring	Summer	Fall	Winter
1					
2					
3					
4					
5					



Public Engagement



- Public Engagement will be open house style both virtually and in person.
 - First set of public engagement will be in late February 2023
 - Key question: What should the PUD consider in its IRP process?
 - In Person open house, virtual open house will be in PowerTalks
 - Second will be after Phase 5 in Q4 2023.
 - Key question: What feedback do you have about the resource strategy?
 - In Person Open House, virtual engagement will be a Zoom call.



How the IRP Study is organized

- **Scenarios:** A set of variables organized to forecast how a potential future could play out locally, regionally, and nationally to assess what resource strategy could best serve the PUD. *A change in environment.*
- **Sensitivities:** A variation in a single meaningful variable within a given scenario, to assess how changes in that variable could change a resource strategy. *A change within an environment.*



Variables that will change within update scope

- Market price environment
- Load forecasts (Low, Base, High – all with electrification)
- BPA
- Demand Response and Energy Efficiency supply and cost updates
- Supply side resource cost updates



Core Study Questions

- How do newer electrification and electric vehicle forecasts affect our resource strategy?
- What have we learned in the BPA post 2028 process that may impact our resource strategy?



Study Scope

	Block/Slice	Load Following	Block with Capacity Shaping
Low Load Growth	✓		
Base Load Growth	✓	✓	✓
High Load Growth	✓		

*All scenarios include updated electrification load forecast and climate change adjustments.



Next Steps

