

COMMUNITY VALUE FIRST



SD14 Update

November 17, 2021



Strategic Directive 14: Resource Planning

SD14

Resource Planning



Tacoma Public Utilities' highest priority is providing safe and reliable power, water, and rail services that meet or exceed customer needs over the long term (20 to 60 years).



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Resource
Planning



Rail Resource Planning



Areas of focus for Rail

- Anticipate hypothetical rail service futures; prepare for effects of climate change on our facilities – e.g. Sea Level Rise impacts to railroad tracks
- Develop a strategy and tactics to accelerate decarbonization of the locomotive fleet.
 - Battery-electric
 - Hydrogen
 - Other emerging technologies?
- Establish a volume investment fund
 - Mitigate impacts from extended economic downturns – preserve staff
 - Leverage unanticipated business development, or funding partnership opportunities



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Planning

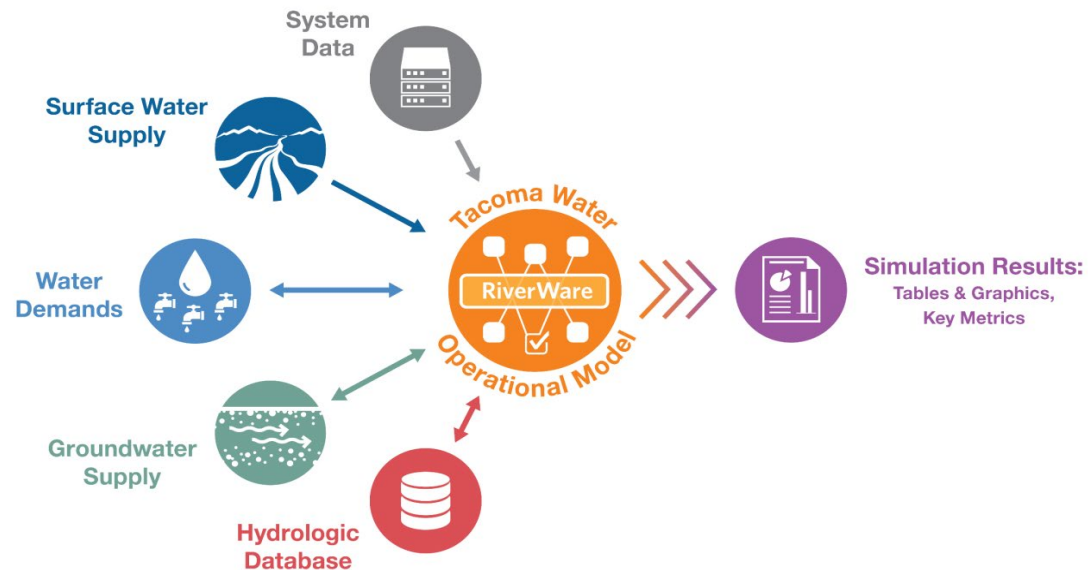
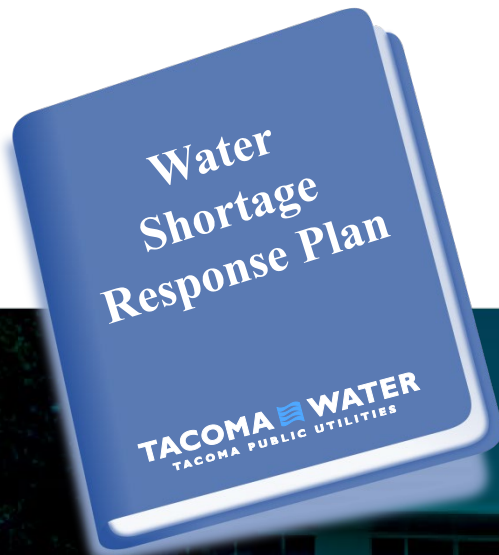


Water Integrated Resource Plan



IRP Process in 2018

- Invited and populated a **Public Advisory Committee**
- Performed a **Conservation Program Update**
- Conducted a **Reclaimed Water Check-in**
- Developed **Resource Adequacy Standard (RAS)**
- Developed **Water Yield Supply and Demand (WYSDM) Model with climate change integration**
- Recreated **Water Shortage Response Plan**



Potential Methods to Further Enhance Resource Adequacy & Reliability

Actively working on:

- Develop Groundwater – Wells Master Plan, improving well
- Additional Water Storage Project Phase 1 (AWSP1)– Completion of this project will result in an additional 10kAF to municipal supply at Howard Hanson Dam

For future consideration:

- Additional Water Storage Project Phase 2 (AWSP2)– Raise Eagle Gorge Reservoir an additional 10 feet
- Oasis – Aquifer Storage and Recovery (ASR)
- Aggressive Peak Shaving – Reduce summer peak demand in hot and dry years



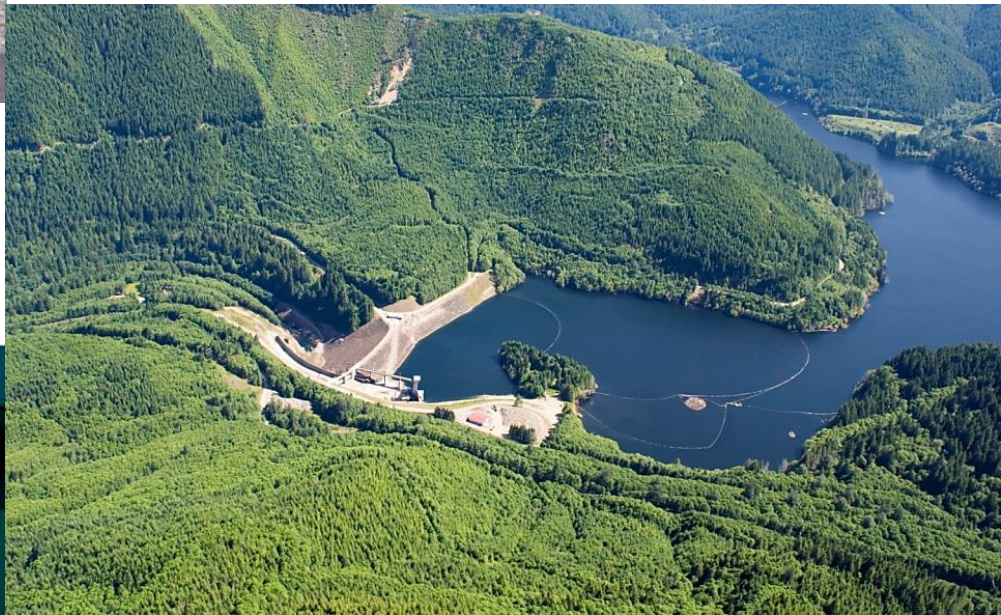
Current Efforts



Making progress on recommendations from the Wells Master Plan



Making Progress on Additional Water Supply Project Completion



Next Steps

- Follow through with Wells Master Plan recommendations
- Continue to work towards completion of the Additional Water Storage Project Phase I
- Continue to refine WYSDM model to incorporate latest information
- Continue to work with regional stakeholders and customers on peak reduction strategies
- Prepare for next iteration of IRP in 2024



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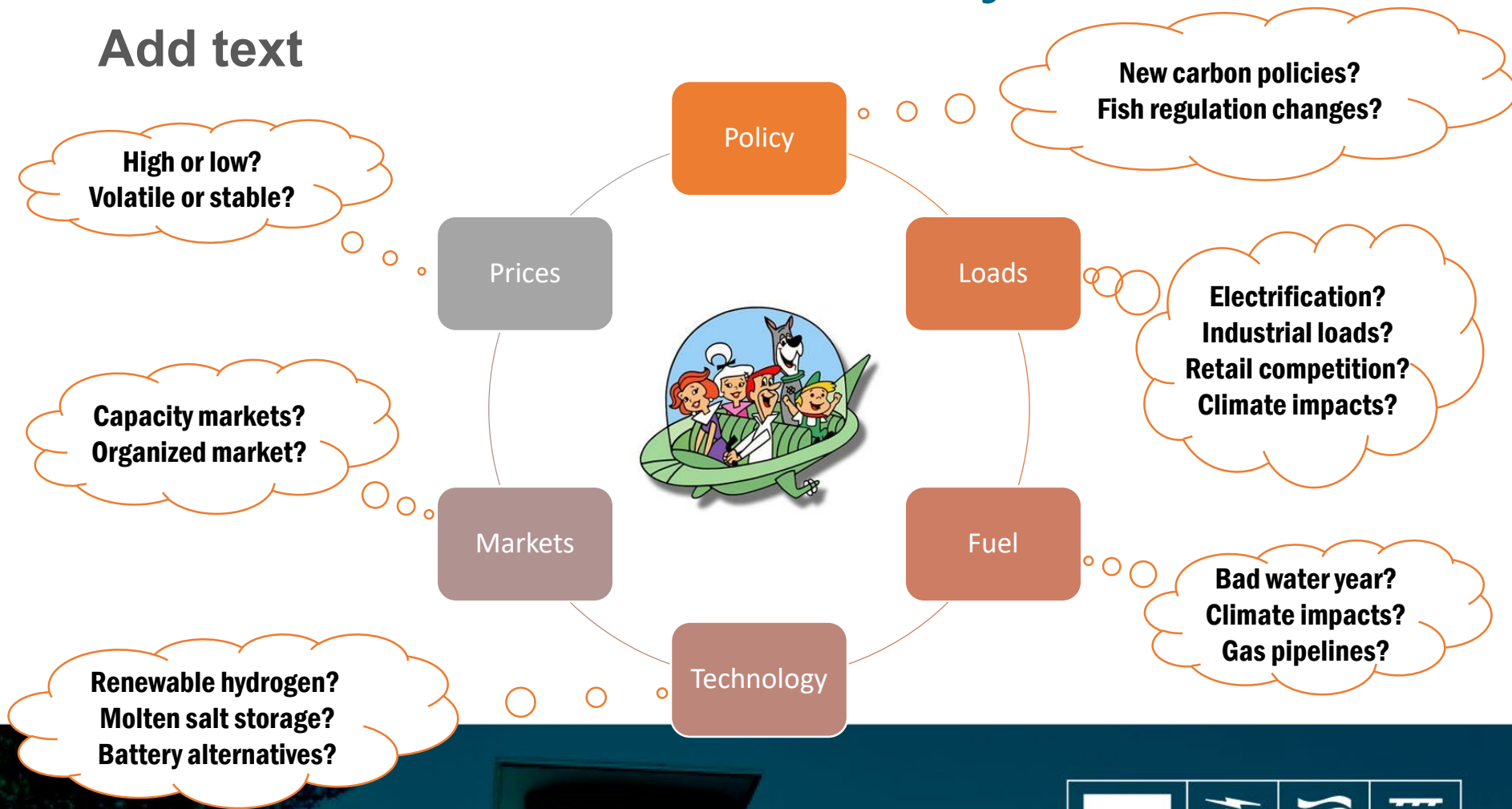


Power Integrated Resource Plan



Where will we be in 20 years?

Add text



RCW 19.280

- Requires utilities to develop integrated resource plans
 - Full plan every 4 years
 - Update every 2 years in between
- PUB role

*“The governing body of a consumer-owned utility that develops a plan under this chapter **shall encourage participation of its consumers** in development of the plans and progress reports and **approve the plans and progress reports** after it has provided public notice and hearing.”*
- Next update due September 2022



Key 2020 Findings

- Renewing BPA contract in 2028 with Slice/Block appears to best option
- Acquire 10MW of demand response by 2023
- Acquire all cost-effective conservation identified in CPA
- Do not renew Columbia Basin Hydro contracts as they expire (2022-2026)



2022 IRP Focus Areas

Continuing

- IRP workshops (4 workshops)
- IRP mailing list
- [IRP webpage](#)
- Social media, website, etc.

New

- Online public comment/ Q&A
- IRP survey(s)
- Outreach at community meetings



2022 IRP Focus Areas

| Activity | Q3 2021 | Q4 2021 | Q1 2022 | Q2 2022 | Q3 2022 |
|--------------------------------|---------|---------|---------|---------|---------|
| Modeling & analysis work | X | X | X | X | |
| Updates to PUB (3 check-ins) | | | X | X | X |
| PUB resolution & submit to DOC | | | | | X |
| Public Meetings | | X | X | X | X |





Thank you

