

COMMUNITY VALUE FIRST



SD5 – Environmental Leadership 2021 Update

April 13, 2022



Agenda

- Introduction
- SD5 Measurements
- SD5 Purpose Statement
- Tacoma Rail
- Tacoma Water
- Tacoma Power



A curious black bear at the Green River Watershed



SD5 Measurements

1. Track progress on related Tacoma Environmental Action Plan and participate in City's Greenhouse Gas Inventory.
2. Adherence to Watershed Management Plan.
3. Adherence on Electric Transportation Plan.
4. Adherence to environmental measures within our FERC licenses.
5. Environmental leadership will be reflected in legislative priorities.
6. Track community outreach and communication activities related to environmental leadership.
7. Customer survey results regarding environmental leadership.



SD5 Purpose Statement

TPU is committed to being stewards of the region's beautiful natural resources, and a leader in the preservation, protection, and restoration of those resources while maintaining our excellent delivery of services.

It is clear that in order to ensure we fulfill our operational duties into the future we must balance our resource usage with the health of our environment.



Upper Cowlitz River basin



Tacoma Rail

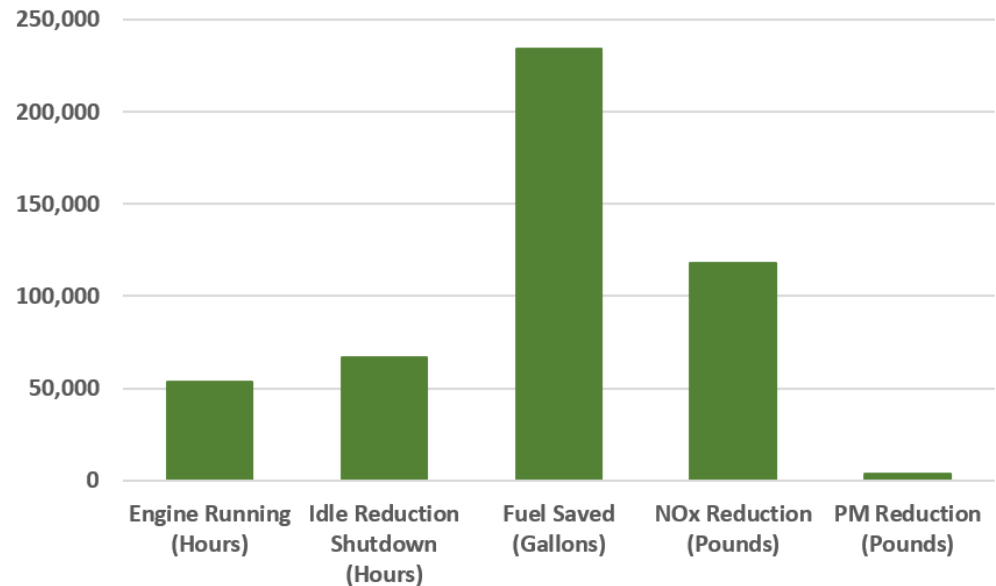
2021 Major Accomplishments

- Installed updated idle reduction tracking equipment on all locomotives.
- Successfully executed our first worst case scenario drill of the Oil Spill Contingency Plan (OSCP) in an all virtual environment.

COVID-19 Impacts

- Interrupted anticipated Worst Case Scenario (WCS) drill of the OSCP.
- Provided an opportunity to demonstrate capacity to perform in a virtual environment and strengthen interdepartmental cooperation.

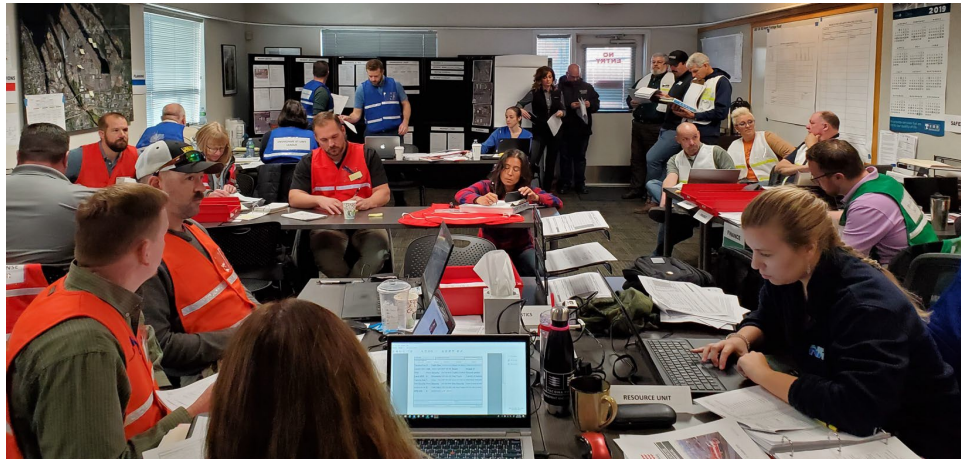
2021 Idle Reduction Savings




Tacoma Rail

Looking at 2022

- Will continue to explore alternative fuels and other options to accelerate decarbonization of the locomotive fleet.
- Routinely engage with various stakeholder groups to ensure readiness for rapid implementation of our Oil Spill Contingency Plan, if necessary.



	Team TR OSCP 2021 DRILL	...
General		
0.0 Check-In		
0.0 Technical Assistance		
0.1 SitStat Wall		
1.0 Incident_Unified Command		
1.1 Safety		
1.2 Liaison		
1.3 Public Information		
1.4 Legal		
2.0 Operations Section		
2.1 Wildlife		
3.0 Planning Section		
3.1 Situation Unit		
3.2 Documentation Unit		
3.3 Resources Unit		
3.4 Environmental Unit		
4.0 Logistics Section		
5.0 Finance Section		
6.0 Truth Sim Cell		
Evaluator Area 		



Tacoma Water - Watershed Management Plan

2021 Major Accomplishments

- Replaced and upsized 7 culverts to pass 100-year flow events and associated debris.
- Acquisition and restoration of 24 acre derelict property in the watershed.
- Worked with the USACE Howard Hanson Dam downstream fish passage team to select a preferred design.
- Watershed spill drill and drinking water protection.



Staff & Conservation NW Restoring Recently Acquired Property



Watershed Spill Drill



Tacoma Water - Watershed Management Plan

Looking at 2022

- Work with USACE Howard Hanson Downstream Fish Passage team to secure funding for design and construction.
- Implement our Watershed Strategic Plan and progress on Watershed Management Plan recommendations.
- Continue to mature our forest management practices.



Staff, Conservation NW and Board Members Cooley and Bushnell planting the 'Airstrip Property', Green River Watershed



Tacoma Power

Environmental Measures Within our FERC Licenses

2021 Major Accomplishments

- Produced over 10 million juvenile salmon and steelhead.
- Second year of sockeye salmon adult returns to the North Fork Skokomish River.
- Sixth year of successful spring Chinook salmon introduction on the North Fork Skokomish River.
- Collected and transported over 180,000 out-migrating juvenile salmon and steelhead at Cowlitz Falls.
- Created the Cushman “Hatcheries and Genetics Management Plans.”
- Conserved over 20,000 acres of land for wildlife protection.



Staff releasing sockeye into Lake Cushman



Tacoma Power

Environmental Measures Within our FERC Licenses

Looking at 2022:

- **Cushman Hatchery Genetic Management Plan Strategies**
 - Collaborative effort with Skokomish Tribe and WDFW.
 - Skokomish Basin recovery strategies.
- **Cowlitz Fisheries Hatchery Genetic Management Strategies**
 - Cowlitz Basin Recovery and Harvest strategies.
 - Develop Cowlitz Satellite Rearing Strategies.
- **Cowlitz Wildlife Management Plan Collaboration**
- **Design First Cowlitz Satellite Rearing Site**



Tacoma Power

Energy Research and Development

2021 Major Accomplishments

- Allocated \$1.2M in grant funding (non-ratepayer) to install more than 90 EV charging ports in the community.
- EV chargers installed in parking lots, at multifamily dwellings, in public spaces, at business districts, and at the Port of Tacoma.
- Over 50% of the funding allocated in low opportunity areas as identified by Tacoma Equity Index.
- Another \$1M in federal funding has just been secured to extend programs.



Tacoma Power

New Programs

- **Home EV Charging pilot** – provides flexible options to help overcome challenges to accessing Level 2 charging. Paves the way to future managed charging programs.
- **Smart Water Heater Controller pilot** – a study to test grid benefits of utility managed electric water heaters through a controller. 240 customers are participating.

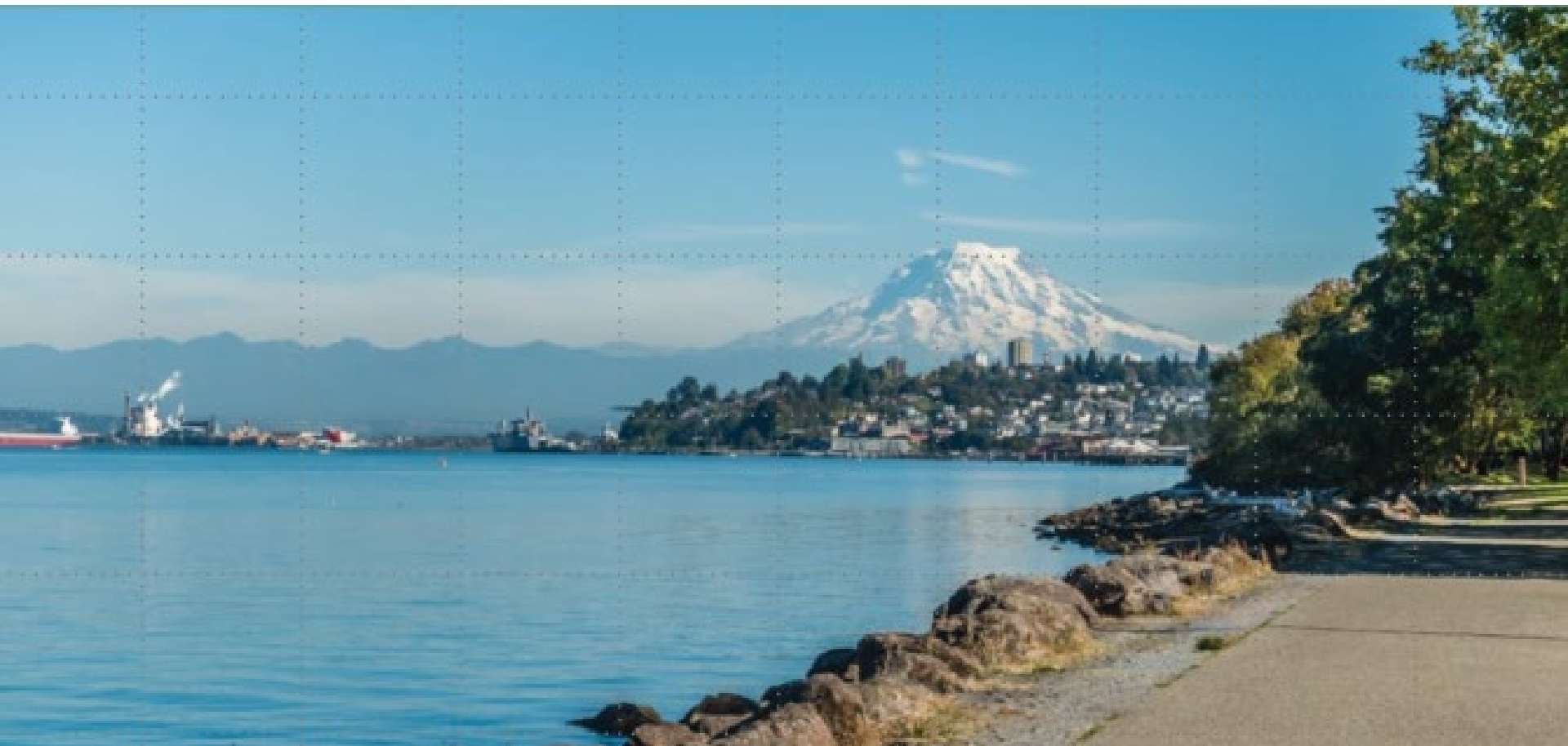


Tacoma Power

Research and Demonstration

- Participating in public-private partnerships to advance and demonstrate clean technology.
- Microgrid projects, liquid hydrogen carriers, zero emission ferries and port equipment.
- Major concerns: staffing.





Thank you

