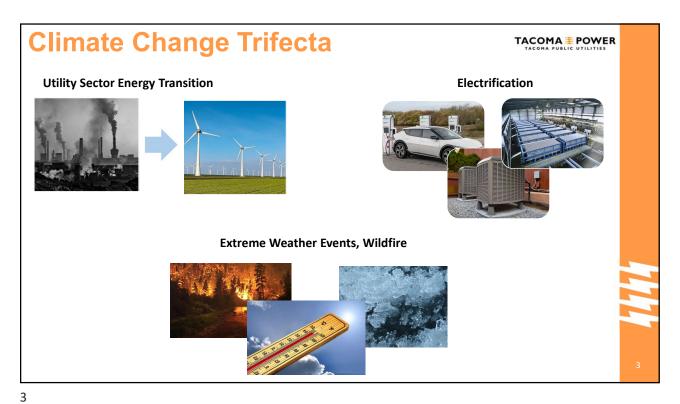


TACOMA **₹** POWER

Tacoma Power Emerging Issues

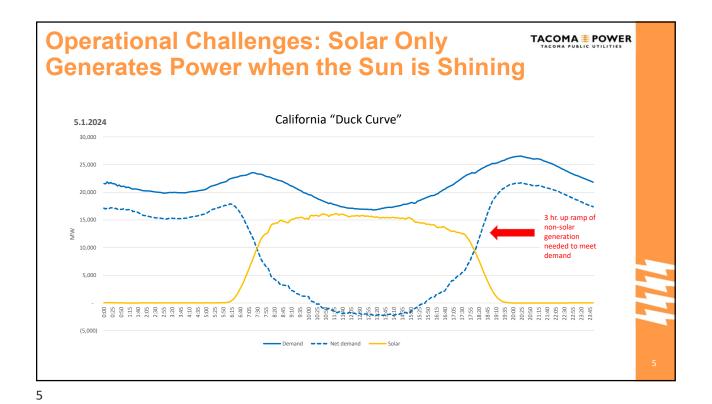
Chris Robinson, Power Superintendent



The Energy Transition

Coal Natural Gas

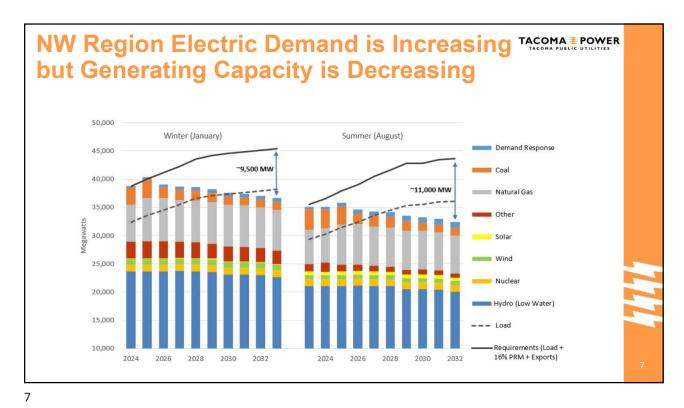
Solar Advanced Nuclear Conservation & DSM

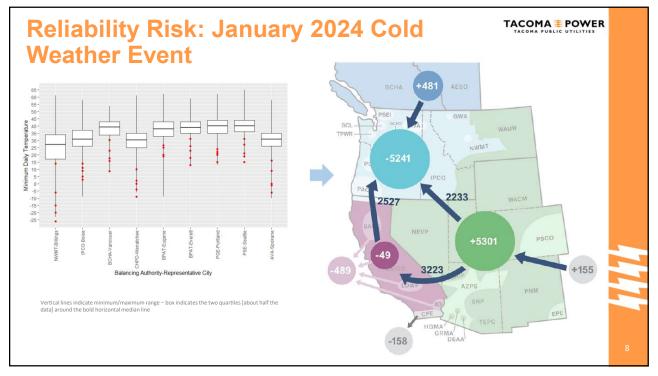


Transmission Challenges: Best Renewable Potential Far from Population Centers

Solar

Wind





Wildfire Risks Mitigation Requiring Huge Investments

TACOMA PUBLIC UTILITIES

➤ California utilities proposed over \$26 billion for 2023-2025 in wildfire mitigation investments

Pacific Gas & Electric: \$18 billion
Southern Cal Edison: \$6 billion
San Diego Gas & Electric: \$2 billion

· PacifiCorp: \$307 million

➤ 2 largest Oregon utilities requesting \$185M investments in the coming year for wildfire projects

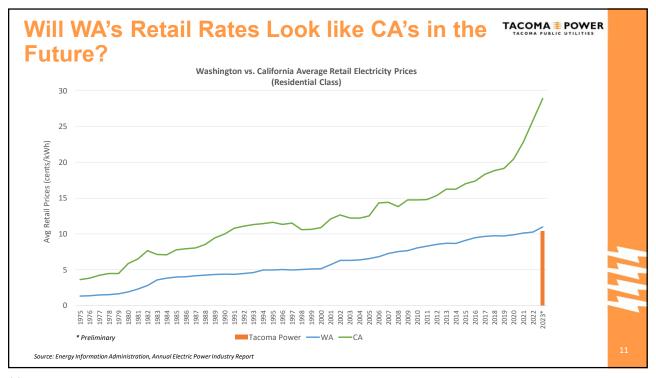
➤ During 2023 more than half the WA fires on DNR lands were in Western WA



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Big Cost Increases for...Everything TACOMA # POWER 2. Transmission and Distribution Equipment 1. New Power Supply Costs 2019 to 2023 Item **Current Power Supply New Power Supply Options** Transformers 280% \$180 Multiplex Wire 137% \$160 **Utility Poles** 48% \$140 \$120 3. Construction Costs including Labor \$100 \$80 45% -Handy Whitman Index 40% 35% -Tacoma Power System Avg Retail Rates 30% \$20 25% \$0 20% Tacoma Solar + Wind + Modular 15% Resources Batterv Battery Nuclear* 5% *New Emerging Technology 2020 2021 2022 2024



UTILITY	RATE INCREASE %		CPUC unanimously approves new PG&E rate hike to cover wildfire mitigation projects
	2024	2025*	After raising rates by 17% in 2024, PGE requests further hikes for 2025
Pacific Gas & Electric (PG&E)	18.5%	TBD	
Portland General Electric	17.0%	7.4%	Clark Public Utilities rates will jump 14.5 percent as of March 1
Clark PUD	14.0%	TBD	Pacific Power Increases Rates, Citing Rising Costs And Wildfire Mitigation
Pacific Power	12.9%	16.9%	
Avista	12.6%	7.8%	Avista Utilities set to raise Washington electricity rates
Seattle City Light	9.5%	5.0%	Weather challenges, demand increases, and rising costs result in changes to customer electricity rates
Snohomish PUD	5.8%	TBD	by Seattle City Light on October 12, 2023
Tacoma Power	3.5%	TBD	City Light rates in Seattle to increase by nearly 10% next
Grant PUD	3.5%	TBD	year
Chelan PUD	3.0%	TBD	Chelan PUD customers face five years of 3% rate increases
Puget Sound Energy**	1.7%	17.0%	Puget Sound Energy proposes hefty rate hikes to pay for hydro and wind power

TACOMA PUBLIC UTILITIES

Trends Unique to Tacoma Power

- 1. Hydro Relicensing (3 of 4 hydro projects)
- 2. Dam Safety Program (seismic remediation projects at Cowlitz and Cushman)
- 3. SAP Now! (Tacoma Power's share is the largest of all department allocations, uncertainty in costs)
- 4. Grid Modernization (grid upgrades for improved efficiency and resiliency)
- 5. Power Supply Contract (new Bonneville Power Supply contract in 2028)
- 6. Home in Tacoma Residential Density Initiative

Total estimated expense for items <u>1 through 4</u> is over \$300 million over the next 10 years

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Solutions & Strategies

TACOMA PUBLIC UTILITIES

Overall Industry

- ✓ Retain current federal hydro production assets
- ✓ Develop additional generating capacity
- ✓ Transmission siting and permitting reforms
- ✓ Further development of organized markets (and maybe an RTO).
- ✓ Generating technology advancement
- ✓ Demand side management

Tacoma Power

- Maintain adequate financial reserves (add to our rate stabilization fund when possible)
- ✓ Maintain AA ratings
- ✓ Steady retail rate increases
- ✓ Grid modernization (prepare for the future)
- ✓ Wildfire Mitigation Strategy
- ✓ Obtain the best BPA contract terms possible
- ✓ Support development of organized markets
- ✓ Mitigate rate increases for incomeconstrained customers

Ξ

For more info, check out the...

TACOMA PUBLIC UTILITIES

Seattle Times Climate Lab Series

"Western Washington is one of the worst places in the contiguous United States for solar energy. Perhaps even the worst place"

Seattle Times
May 13, 2024 at 6:00 am
Solar projects keep
sprouting. Can this work in
overcast Seattle?
We need renewable power to clean up the

We need renewable power to clean up the grid, slow climate change and meet emission reduction goals. But is solar in Western Washington a worthwhile...

"In Washington, power line fires have destroyed towns and homes. During the Labor Day fires of 2020, five homes were destroyed in Pierce County after a tree fell onto a PSE power line"

Seattle Times
May 5, 2024 at 6:00 am
PSE may use a 'tool of last
resort' as WA wildfire
season nears

Season nears

PSE joins utilities across the Western U.S. that are turning to blackouts to prevent wildfires sparked by powerlines.

"At risk is the affordability and reliability of the region's power."

Seattle Times
May 2, 2024 at 6:00 am
Surge in electricity demand
poses tricky path ahead for
PNW utilities, report
shows

Without new power sources, transmission lines and battery storage, the region's long-standing and reliable energy system could falter when people need electricity the most.

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TACOMA

WATER

Tacoma Water Emerging Issues

Scott Dewhirst, Water Superintendent

Summary of Water Emerging Issues

TACOMA WATER

- Ongoing impacts from the WestRock Tacoma mill closure
- Employee experience
 - · Shifting expectations: work hours; overtime; use of tools/technology; policies
 - · Employee safety in the community
- Regulatory mandates: PFAS, Lead and Copper Rule, spoils disposal
- Enterprise-wide technology projects
- · Risks to the Water system:
 - · Seismic risk/resiliency
 - · Climate change impacts to supply availability and forest health
- HHD funding from Federal sources and our cost shares
- Infrastructure cost increase and construction inflation
- Innovative wholesale pricing and additional water sales opportunities

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Infrastructure Cost Increases

TACOMA SWATER

Construction and Other Inflation

The utility generally faces different inflationary pressures than consumers. While customers primarily observe the Consumer Price Index (CPI) as an indicator for inflation, the Construction Cost Index (CCI) is a better indicator for a capital-intensive utility. Long-term financial planning allows the utility to weather periods of high costs in the short term and spread the impact over time.

Ongoing Impacts

The rate of inflation continues to level off, however cost decreases are unlikely, resulting in a new, higher 'normal' cost environment. Our Capital Improvement Plan (CIP) is considerably higher in part due to this higher escalation.

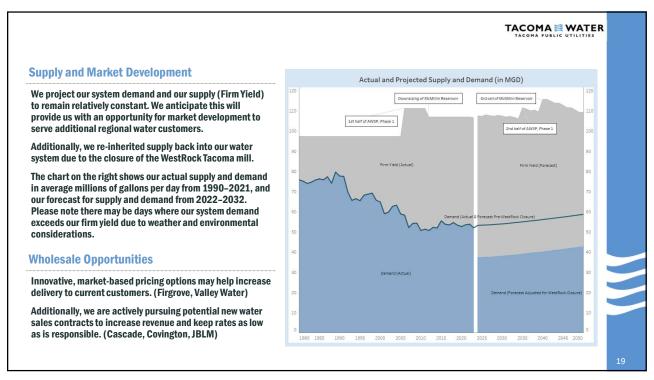
Interest rates for the next several years are expected to be near their highest levels in over a decade, resulting in higher financing costs for our upcoming capital plan.



FRED 2 - Consumer Price Index for All Urban Consumers: Water and Sewer and Trash Coll

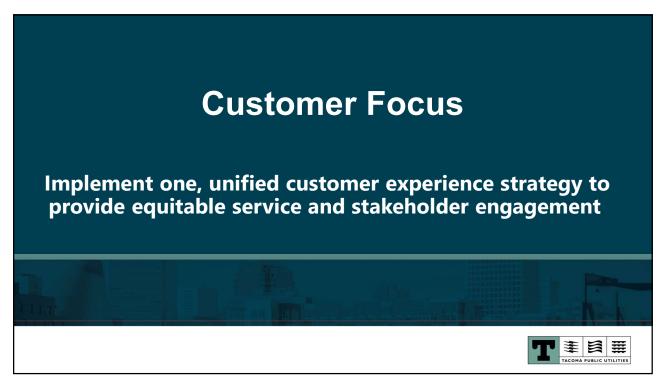
IR publishes both a Construction Cost index and Building Cost index that are widely used in the construction industry. The Construction Cost index (CCI) tracks 200 urs of common labor at the 20-city average of common labor rates, plus 25 cwt of standard structural steel shapes at the mill price prior to 1996 and the fabricated

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Customer Experience and External Affairs
LaTasha Wortham, Deputy Director

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Our NORTH STAR



Our customers and communities experience compassion and equity in action so they are understood, valued, and empowered.

We deliver this through:

- Knowledgeable, empathetic advocacy
- •Consistent, transparent, and competent support that provides the right solution
- •Understanding, dialogue, and support that reflect our data-driven approach to understanding their current and future expectations