Quarterly Energy Resources Review

for the quarter ended December 31, 2023



February 20, 2024 Mike Bradshaw, Janet Jaspers



What We Will Cover Today

- Wholesale and energy-related revenue update
- Western power markets update
- Operations and planning

Update only, no action required

Appendix: Additional detailed information not covered today



Key Highlights

Below average water year in 2023

- NWR and other Energy-Related Revenue was \$175M (\$18M better than budget)
- Lower wholesale electricity prices, lower generation (below average water), and higher electric loads
- Rocky Reach inflow averaged 75% of avg

Climate Commitment Act (CCA)

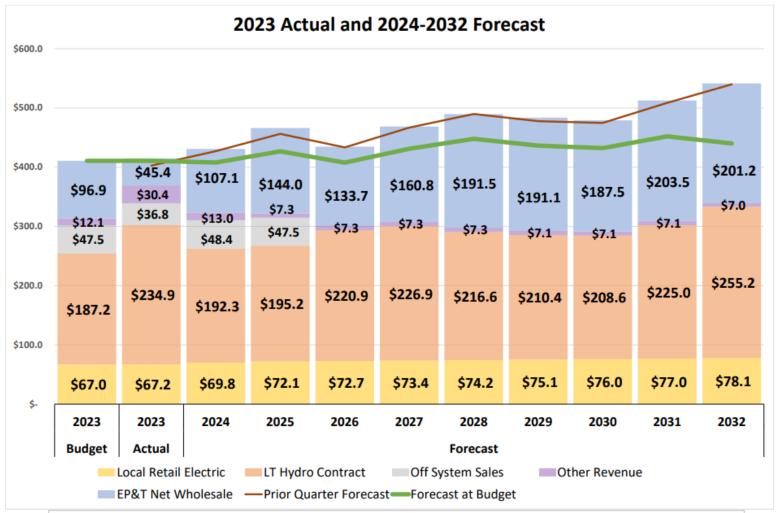
- Q4 Auction took place on December 6, 2023, with a settlement price of \$51.89/metric ton
- Allowance prices trading near \$32/metric ton of CO2e on secondary market as the California linkage bill and WA Initiative weigh on secondary prices
- Auction 5 scheduled for March 6, 2024

Day-Ahead Market Initiatives

- SPP Markets+
 - Chelan plans to fund Phase 2
- CAISO Energy Day Ahead Market (EDAM)
- Pathways Initiative meetings



Electric Revenues Forecast - \$ Millions



Other Revenue includes Real Time, LT Contract admin fees, frequency response and load shedding, renewables, carbon allowance auction proceeds, and scheduling.



2023 NWR and Other Energy-Related Revenue

(\$ Millions)

	В	Budget Ad		Actual [1]	V	Variance	
EP&T Net Wholesale Revenue (NWR)							
Energy Sales/Purchases	\$	83.7	\$	32.3	\$	(51.4)	
Specified Source Premium	\$	13.3	\$	10.9	\$	(2.4)	
Renewables - Bundled	\$	-	\$	2.3	\$	2.3	
NWR Sub-total [2]	\$	96.9	\$	45.4	\$	(51.5)	
Off System Sales							
Off System end use sales	\$	47.5	\$	36.8	\$	(10.7)	
Other Energy-Related Revenue							
LT Power Contract- Retained Surplus	\$	-	\$	62.6	\$	62.6	
LT Power Contract- Admin Fees	\$	3.4	\$	4.0	\$	0.6	
Frequency Response & Load Shedding	\$	1.2	\$	1.2	\$	-	
Other [3]	\$	0.4	\$	10.0	\$	9.6	
Renewables - Unbundled	\$	0.1	\$	1.0	\$	0.8	
Real-Time Revenue	\$	7.0	\$	14.2	\$	7.2	
Other Energy-Related Sub-total	\$	12.1	\$	92.9	\$	80.8	
NWR and Other Energy-Related Revenue	\$	156.5	\$	175.1	\$	18.6	

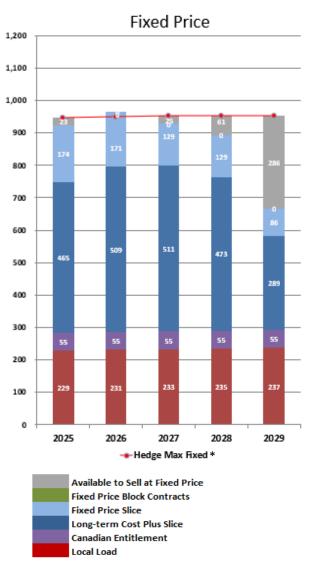
^{[1] 2023} Jan - Dec Actual "Unaudited"

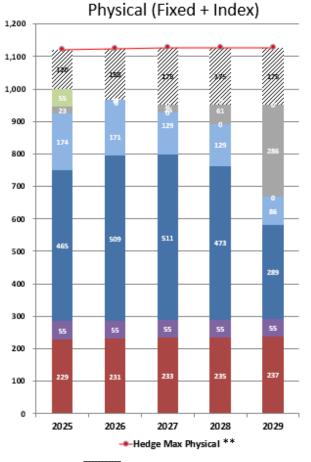


^[2] NWR includes PWX specified source sale/full requirements purchase and transmission pass through costs

^[3] Other includes scheduling, carbon allowance proceeds & admin fees and the sale of reserves

District's Energy Commitments





(Average MW)

Note: The graphs represent the limits contained in resolution 20-14439 approved by the Board on March 23, 2020.

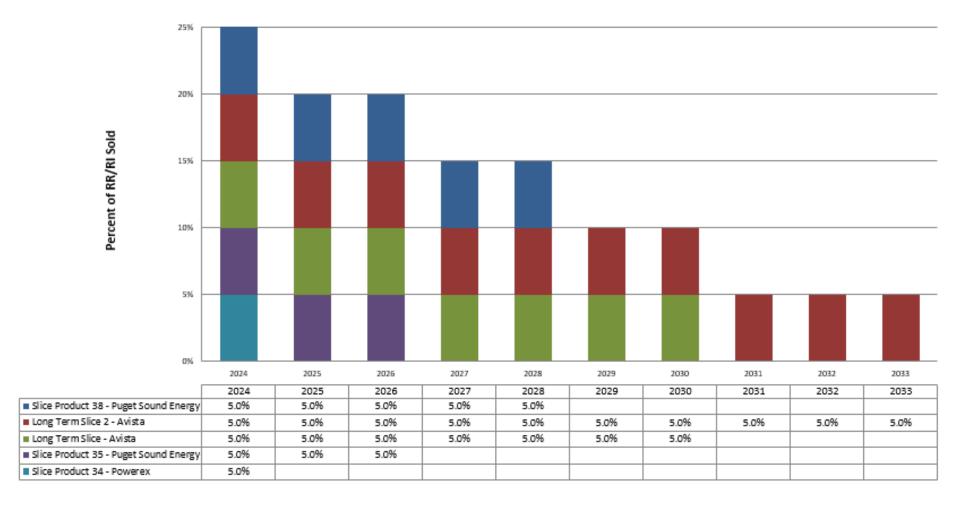


Available to Sell at Index Price
Available to Sell at Fixed Price
Index Price Block Contracts (Includes Off-System End-Use)
Fixed Price Block Contracts
Fixed Price Slice
Long-term Cost Plus Slice
Canadian Entitlement
Local Local

^{*}Hedge Max Fixed = stress water generation

^{**}Hedge Max Physical = stress water generation + 175 aMW

Fixed Price Slice Contracts





Changes in the western power market

Western Resource Adequacy Program (WRAP)

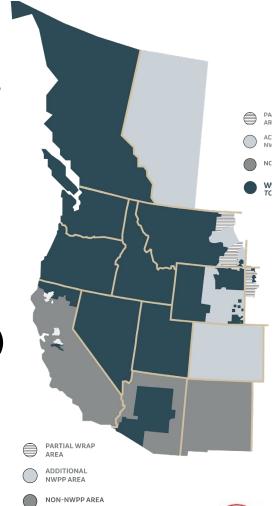
- Nonbinding Forward Showing submittals (3/31/2024)
- Testing of nonbinding operational program began 11/1/23
- Business Practice Manuals drafts

Climate Commitment Act (CCA)

- Next regularly scheduled quarterly auction on 03/6/2024
- Allowances currently trading \$32/metric ton of CO2e in secondary market
- Electric utilities will submit 2023 emissions data in June 2024

Short term markets (within hour → real-time → day ahead)

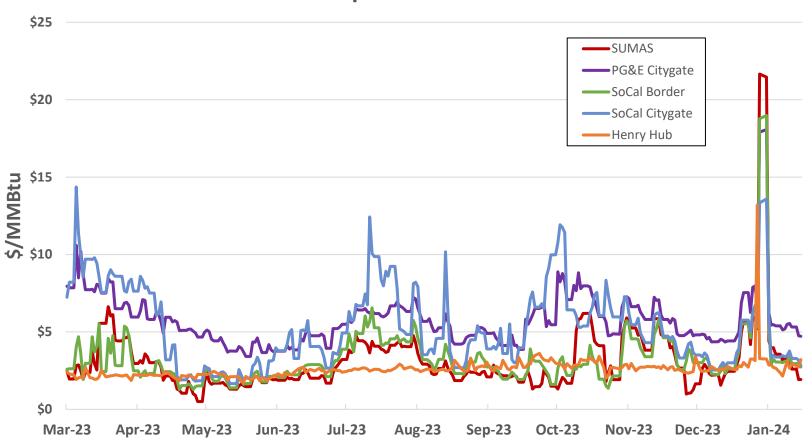
- SPP Markets+ tariff filing expected w/in next 60 days
 - Chelan plans to fund Phase 2
- CAISO EDAM tariff largely approved by FERC
- Western regulators Pathways Initiative (Independent governance and west wide market including California) meetings have begun



Daily Natural Gas Prices

Mar 2023 – Jan 2024

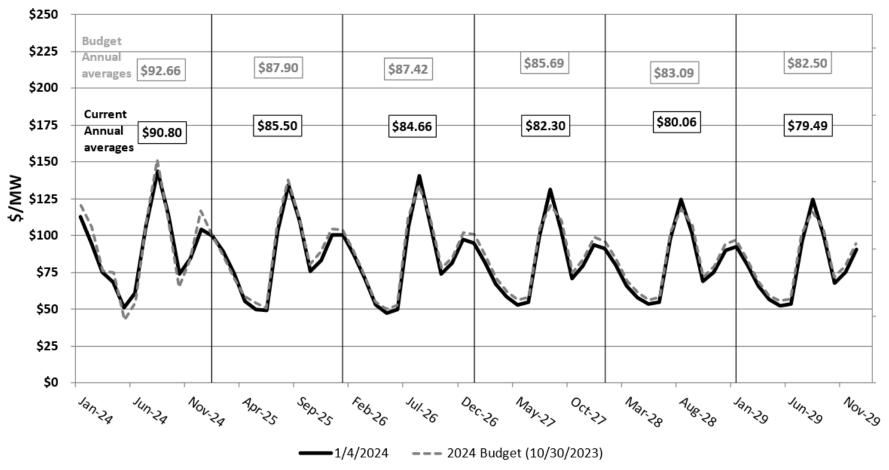
Select Western Natural Gas Hubs
Spot Prices





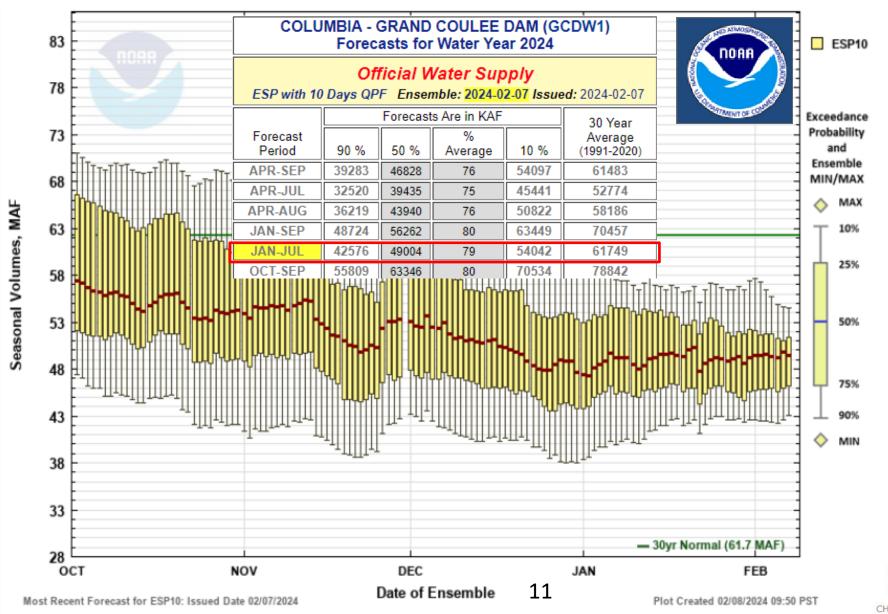
Mid-C forward price curve

MIDC Flat Forward Price Curve (ICE DA index prices for previous months)

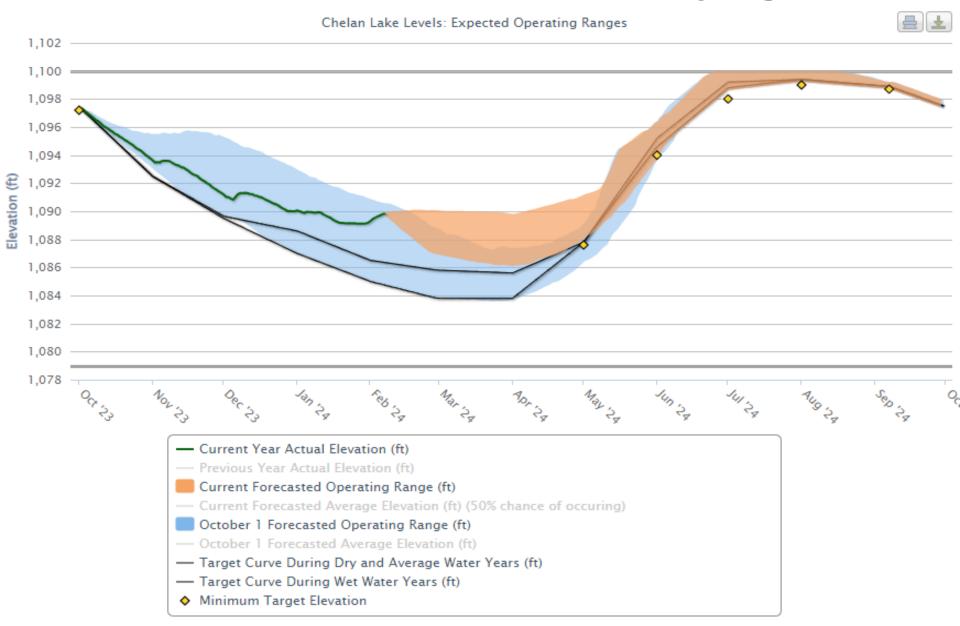




Water Year 2024: Water Supply forecast



Lake Chelan level webpage



Q4 2023 Summary

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Questions?

