

ENERGY PLANNING & TRADING

2018 Q1

Portfolio Overview

Operations and Planning

- » Snowpack, Streamflow and Pricing update
- » Net Wholesale Revenue Forecast update

Market Update

Energy Efficiency Update

KEY MESSAGE POINTS

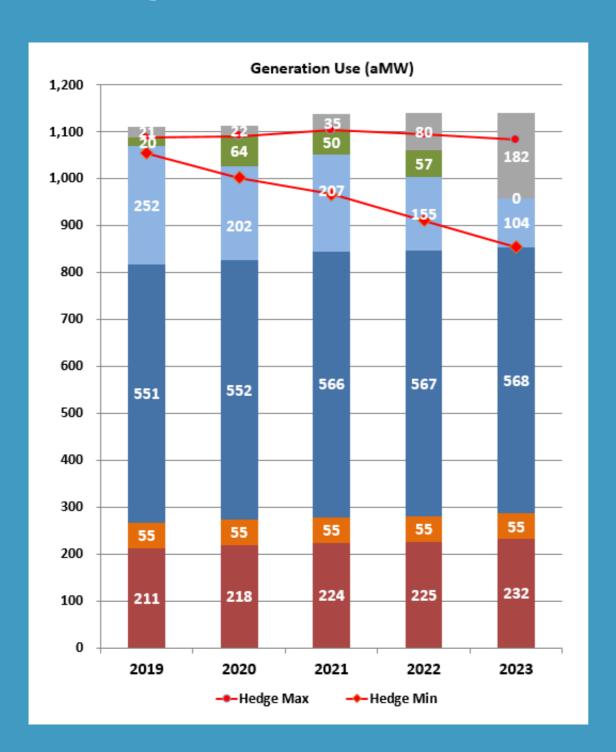
The District's 2018 Net Wholesale Revenue and other energy-related revenues are forecasted to be \$116.9 Million which is \$0.6 Million higher than budget.

Specified Source energy sales are expected to contribute \$4.3 Million to the Net Wholesale Revenue which is \$0.6 Million higher than budget.

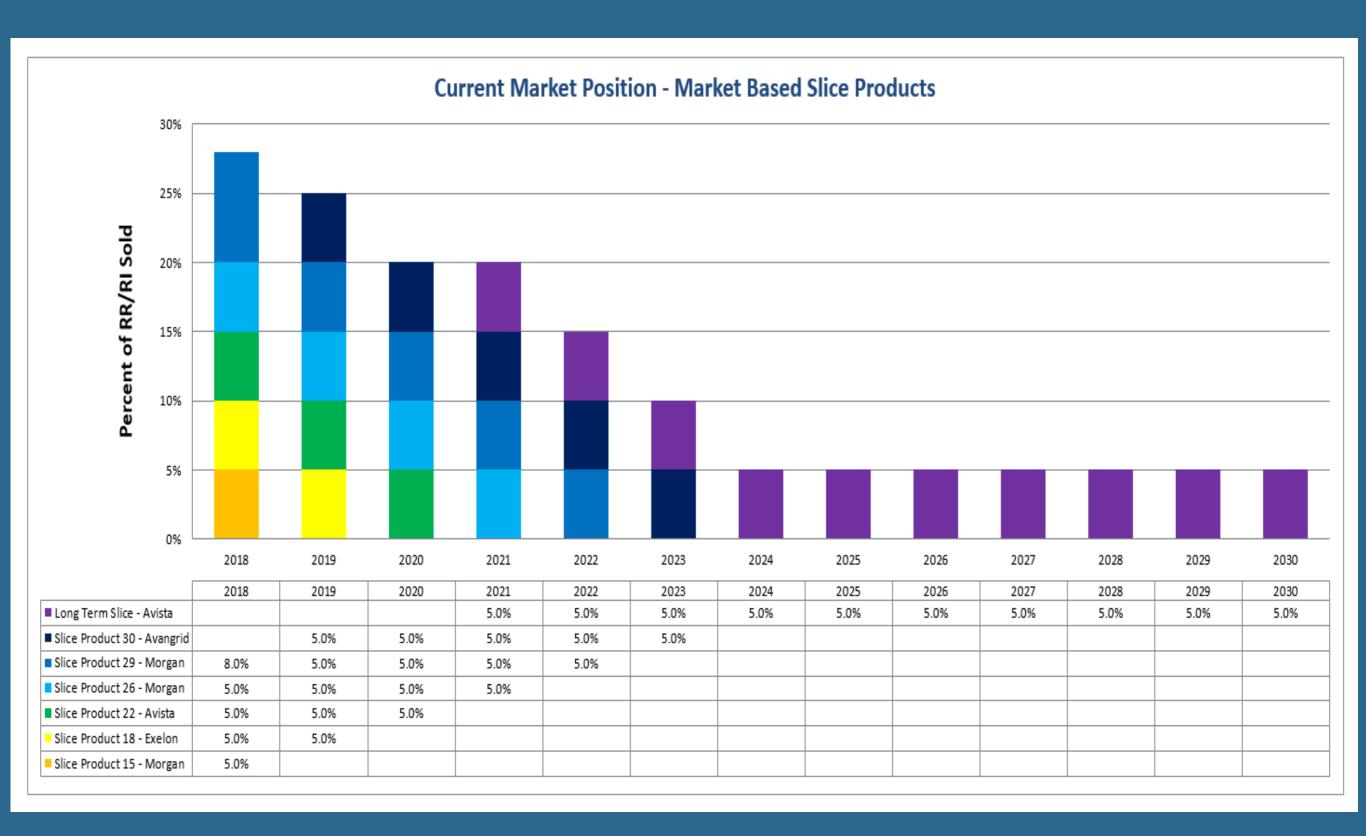
Energy Efficiency programs are working towards meeting both the compliance and stretch goals.

DISTRICT'S LOAD/RESOURCE BALANCE

(average MW)





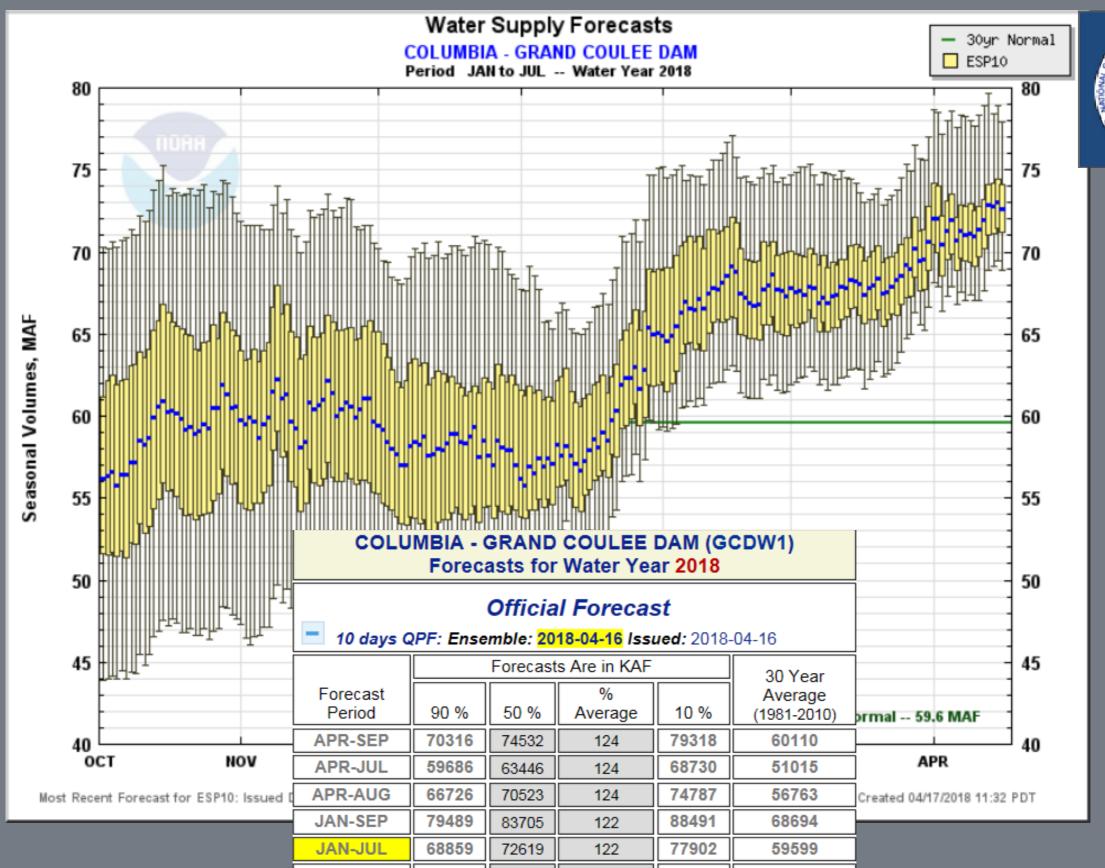


COLUMBIA RIVER FLOW UPDATE FOR 2018

2018	Rocky Reach Flow (kcfs)	Budget Rocky Reach Flow (kcfs)	% of Budget
Jan	122	115	106%
Feb	150	110	137%
Mar	112	102	110%
Apr	123	114	107%
May		147	
Jun		167	
Jul		131	
Aug		106	
Sep		76	
Oct		78	
Nov		92	
Dec		108	
YTD Average	127	112	113%

^{*} Budgeted Rocky Reach flow is the median year from the 1929-2011 data set

WATER SUPPLY FORECAST



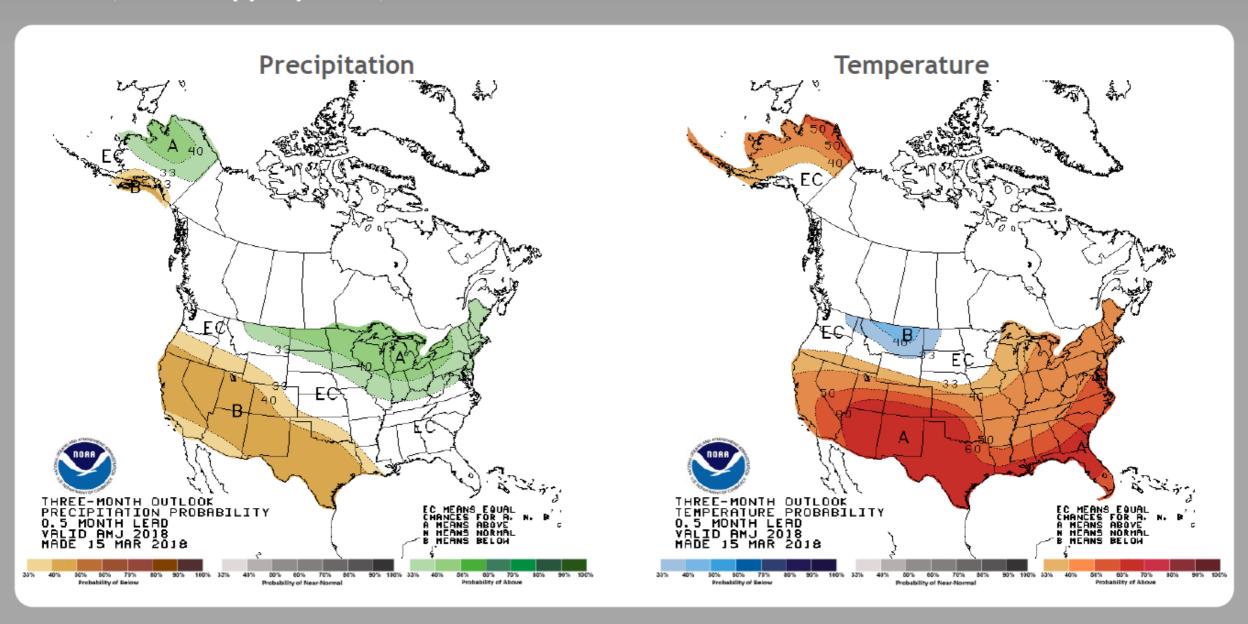
OCT-SEP



U. S. Seasonal Outlooks

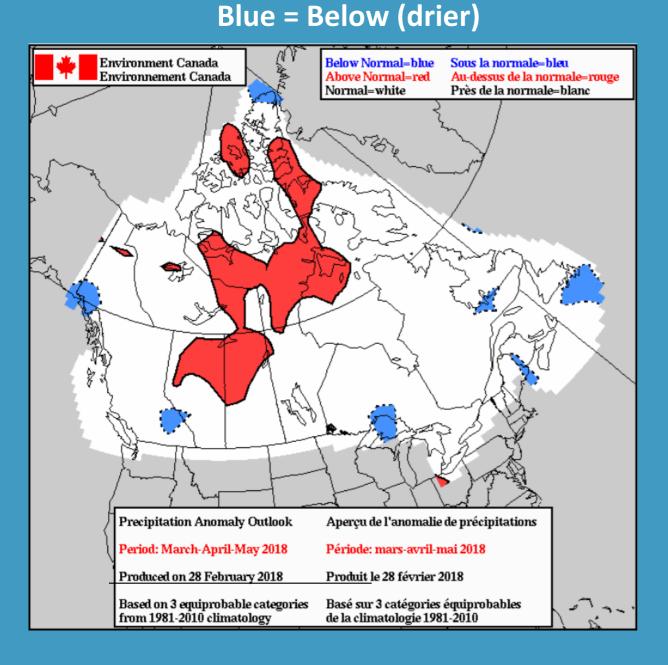
April - June 2018

The seasonal outlooks combine the effects of long-term trends, soil moisture, and, when appropriate, ENSO.

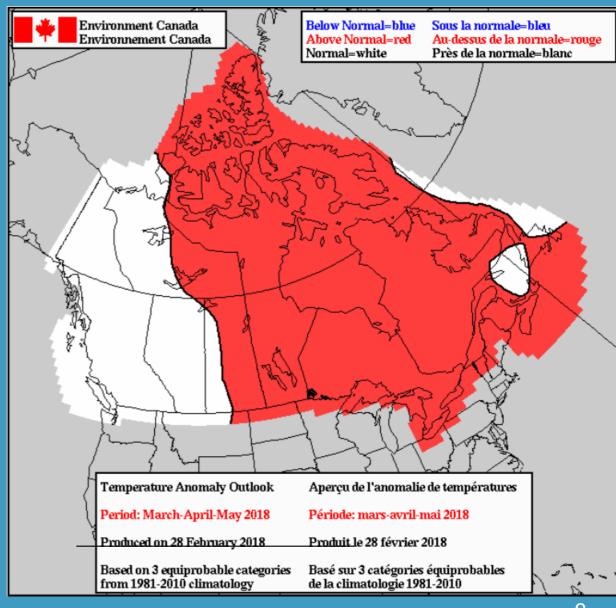


CANADIAN MAR – MAY FORECASTSTemperature and Precipitation Deterministic Forecasts

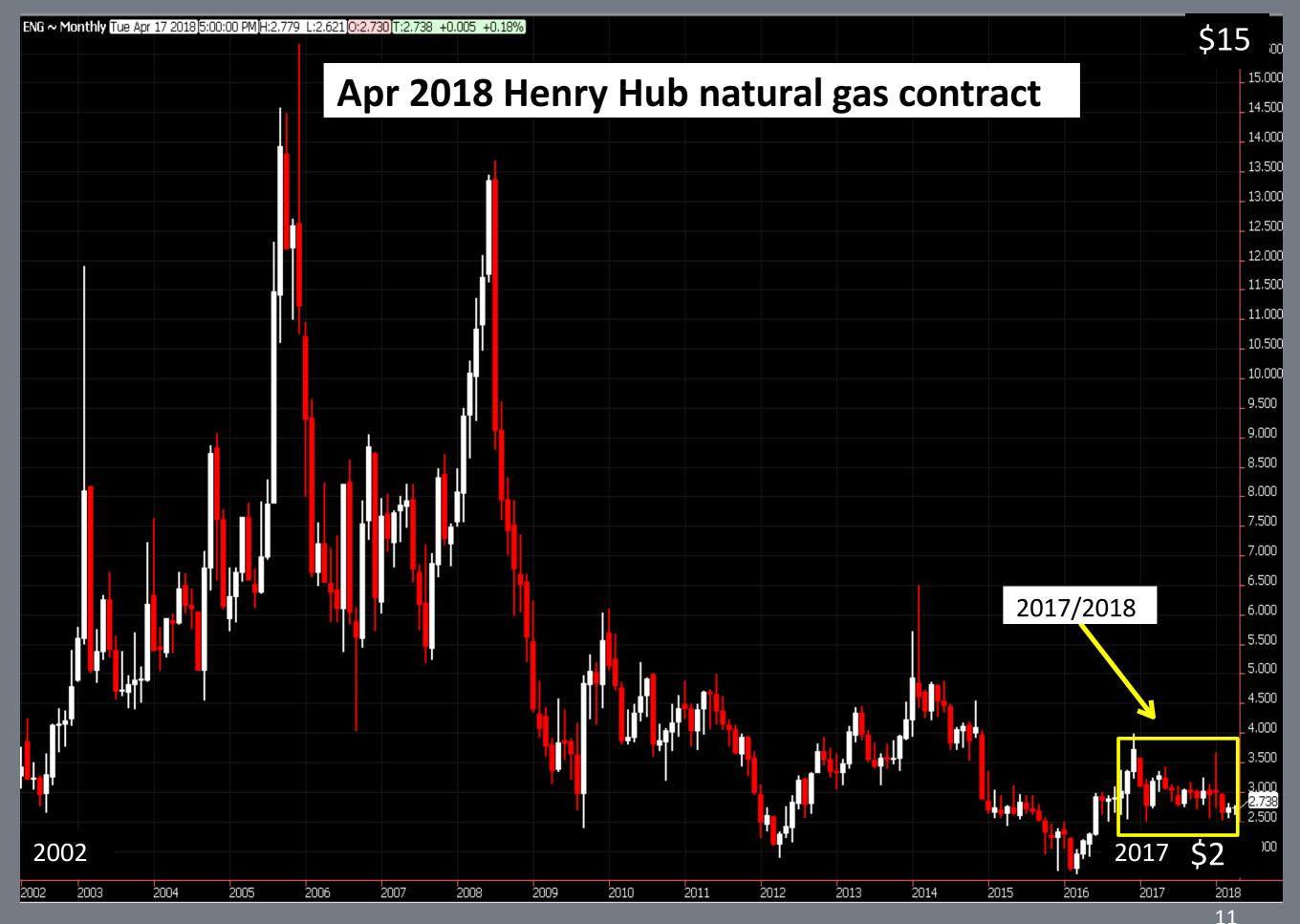
Precipitation
Red = Above (wetter)



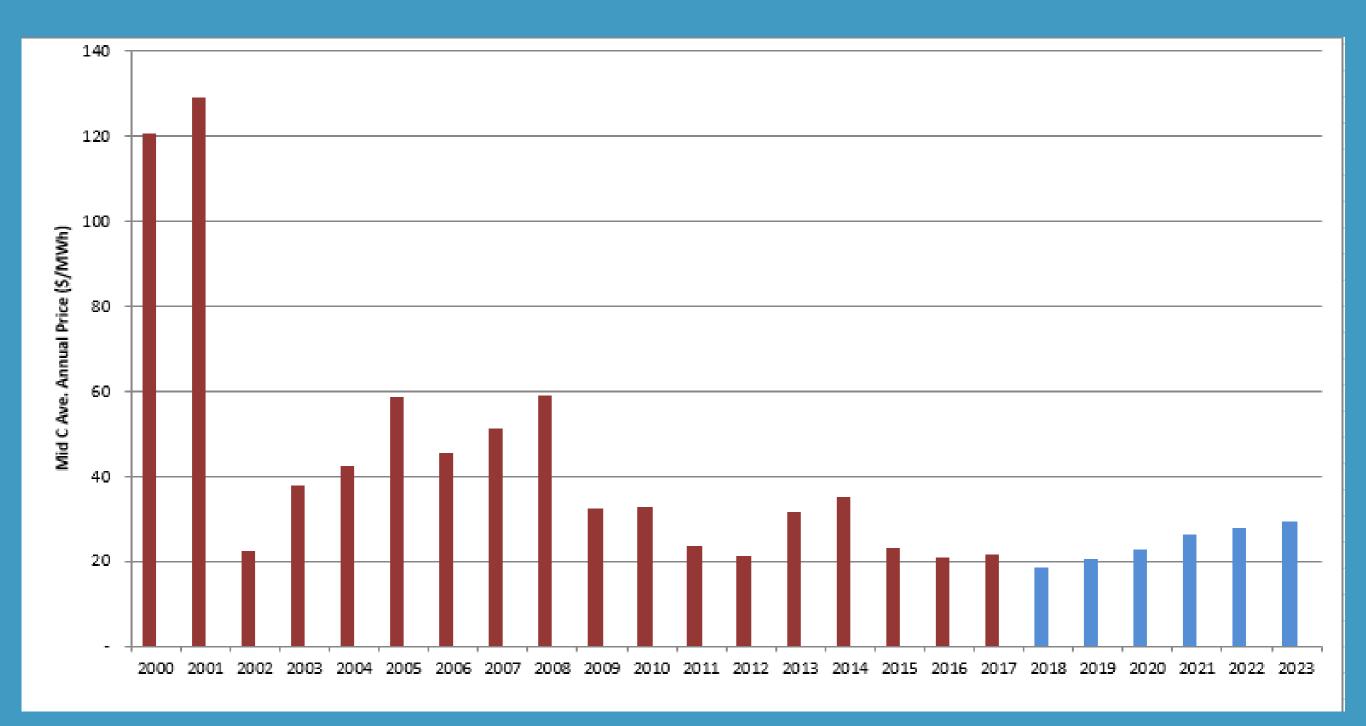
Temperature
Red = Above (warmer)
Blue = Below (colder)







MID-C FLAT ANNUAL WHOLESALE ELECTRICITY PRICES



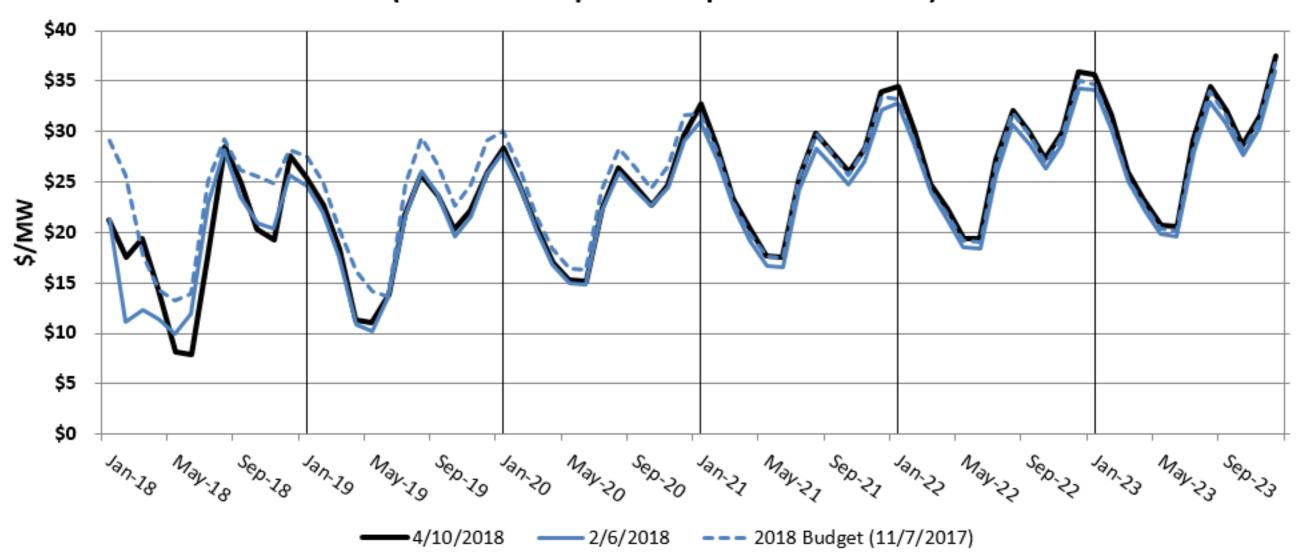
Red = Historical prices

Blue = Forward price curve

MIDC FLAT FORWARD PRICE CURVE

(ICE DA index prices for previous months)

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



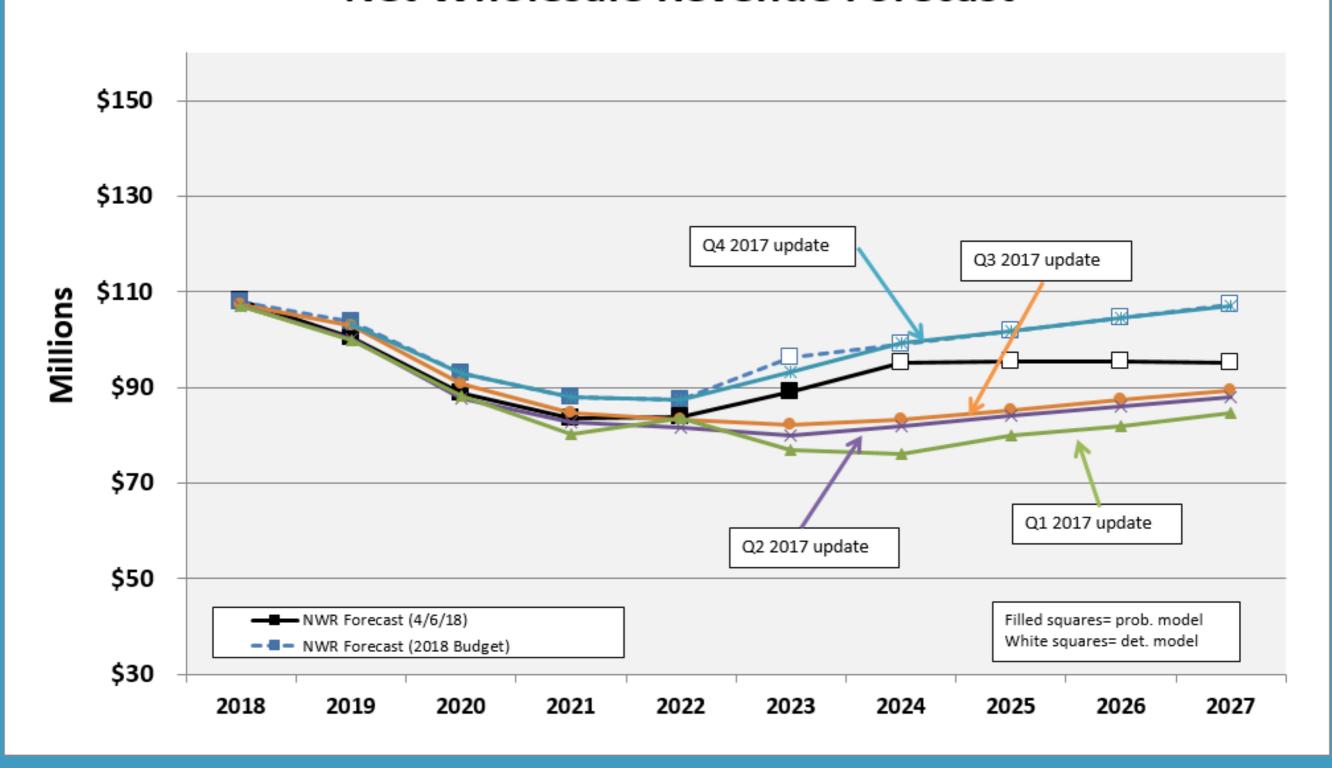
2018 NWR and Other Energy-Related Revenue											
		Budget		Forecast**		Variance					
Net Wholesale Revenue*	\$	108,000,661	\$	108,312,319	\$	311,658					
Specified Source	\$	3,736,377	\$	4,338,928	\$	602,551					
Other	\$	560,214	\$	576,942	\$	16,728					
Alcoa PSC Revenue		-	\$	270,000	\$	270,000					
Frequency Response		638,314	\$	638,314	\$	-					
Renewables		675,764	\$	675,764	\$	-					
Real-Time Revenue		7,000,000	\$	7,023,578	\$	23,578					
NWR and Other Energy-Related Revenue		116,314,739	\$	116,919,975	\$	605,236					

^{*}Net Wholesale Revenue (NWR) includes all premiums from specified source and other premium products as well as slice sales and standard forward / pre-schedule energy trading activity.

Other premium products include hubbing, system delivery, scheduling services, Lake Chelan reserves and super peak products **2018 forecast based on Jan-Mar unaudited actuals and Apr-Dec estimates.

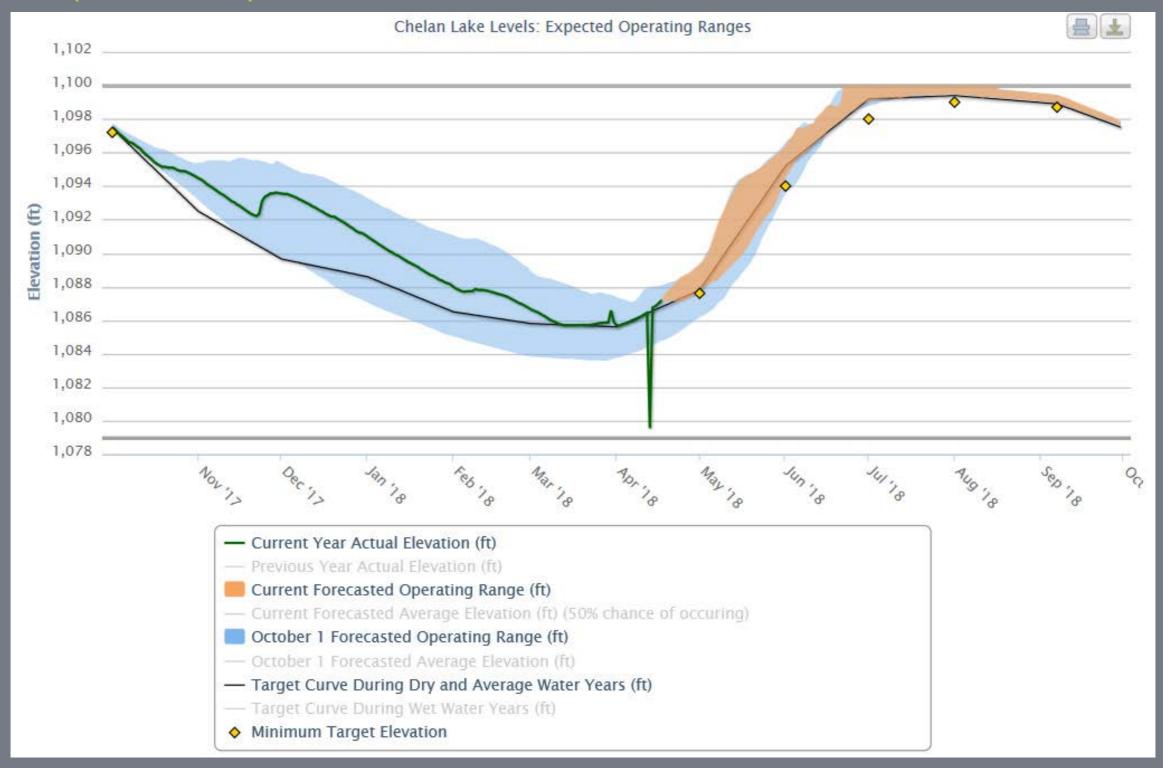
NET WHOLESALE REVENUE FORECAST

Net Wholesale Revenue Forecast



LAKE CHELAN LAKE LEVEL WEBPAGE

(04/17/18)



MARKET INFO

Idaho Power and Powerex begin participation in western EIM

- Idaho Power and Powerex begin participation in western EIM. Idaho Power and Powerex entered the western Energy Imbalance Market 4/4/2018, allowing the CAISO real-time market to serve imbalances occurring within about 55% of the electric load in the Western Interconnection
- Expected to join the EIM in next two years:
 - BANC (April 2019)
 - SRP, SCL and LADWP (by April 2020)

Cal-ISO Sets Three Records in Two Days

- Peak solar generation hit an all-time high of 10,411 MW at 10:18 am PST 3/5/2018, surpassing the previous record of 9,913 MW reached 6/17/2017
- Cal-ISO hit an all-time peak percentage of demand served by solar at 12:58 pm PST 3/4/2018, when solar served 49.9% of peak demand
- The ISO also set all-time peak ramps on 3/4/2018 with a three-hour ramp of 14,777 MW and a one hour ramp of 7,545 MW

Q1 ENERGY EFFICIENCY RESULTS

Two-Year Compliance Target is 2.42 aMW Annual 2018 Stretch Target is 1.7 aMW

Energy			Le	velized		
Efficiency	Incentive and		Cost		Estimated Value	
Savings (aMW) ¹	Labo	r Cost	(\$/	'MWh)²	Over Life ²	
0.4	\$	683,000	\$	21.00	\$1,120,000	

- 1. Pending verification
- 2. Based on weighted avg. life of measure and discounted at 7%

SUMMARY

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Specified Source energy sales are expected to contribute \$4.3 Million to the Net Wholesale Revenue which is \$0.6 Million higher than budget.

With .4 aMW acquired in Q1, the energy efficiency team is on track to meet both compliance and stretch targets.

