# Energy Resources Quarterly Board Update 2020 Q1

May 11, 2020



# Why We're Here

- Portfolio Overview
- Operations and Planning
  - » Pricing update
  - » Net Wholesale Revenue Forecast update
- Market Update



### **Key points**

• The District's 2020 Net Wholesale Revenue forecast and other energy-related revenues is \$99.9 million, which is \$2.4 million below budget.



# Energy Resource Team is monitoring major changes in the western power market

#### Resource Adequacy

Northwest Power Pool effort to design resource adequacy program is underway

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

Many utilities have joined CAISO Energy Imbalance Market (EIM) for within hour products (about 4% of trades)

CAISO is proposing to expand EIM to the day-ahead market (Extended Day-ahead Market or EDAM)

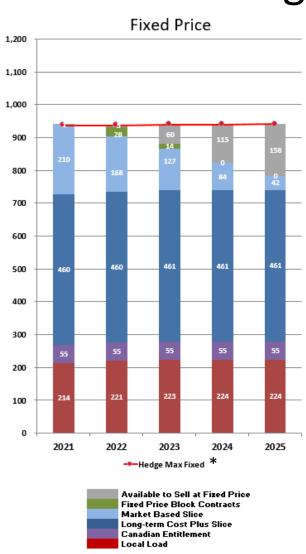
#### State carbon policies

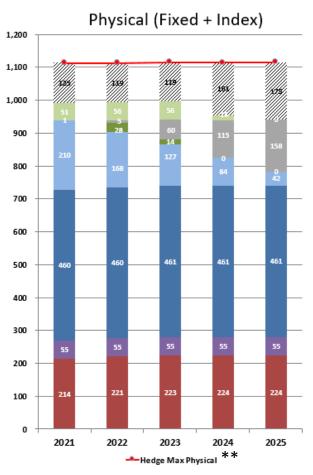
Rulemaking beginning on WA Clean Energy Transformation Act (CETA)

New products and services



### District's energy commitments (average MW)





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

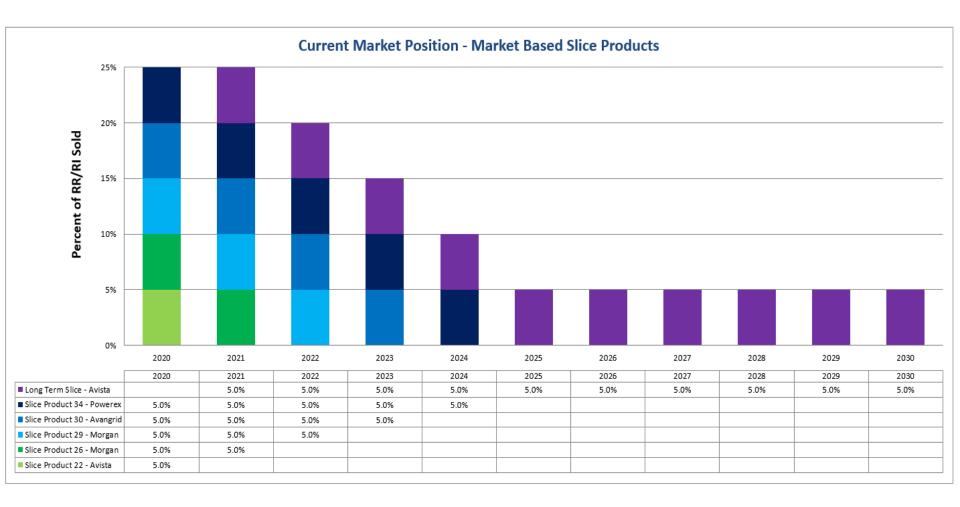
Available to Sell at Index Price
Available to Sell at Fixed Price
Index Price Block Contracts (Includes Off-System End-Use)
Fixed Price Block Contracts
Market Based Slice
Long-term Cost Plus Slice
Canadian Entitlement
Local Load



<sup>\*</sup>Hedge Max Fixed = stress water generation

<sup>\*\*</sup>Hedge Max Physical = stress water generation + 175 aMW

### Market-based slice contracts



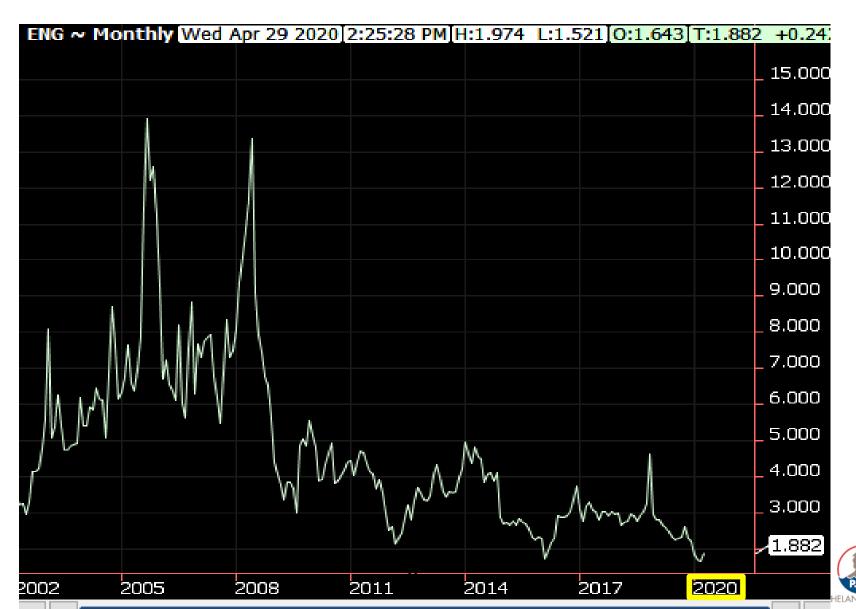


### June 2020 Henry Hub natural gas

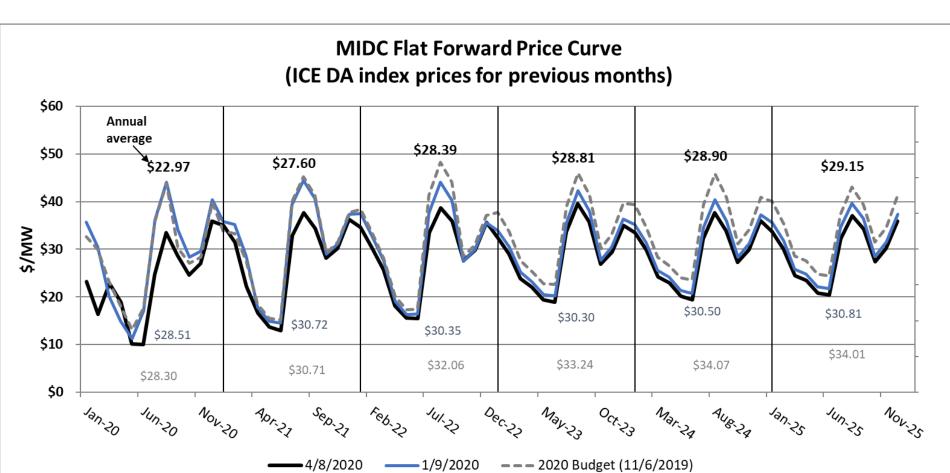




# June 2020 Henry Hub natural gas contract (price history since 2002)



## MIDC forward price curve





(amounts in millions)

	Budget	Forecast [1]	Variance
Net Wholesale Revenue (NWR)			
Energy Sales	\$ 65.1	\$ 64.9	\$ (0.1)
Specified Source Premium	\$ 8.2	\$ 8.2	\$ -
Renewables- Bundled	\$ 0.9	\$ 0.9	\$ (0.0)
NWR Sub-total [2]	\$ 74.1	\$ 74.0	\$ (0.2)
Off-System End-Use Revenue			
Off-System End-Use Sales [3]	\$ 17.6	\$ 15.5	\$ (2.1)
Off-System End-Use Sub-total	\$ 17.6	\$ 15.5	\$ (2.1)
Other Energy-Related Revenue			
LT Power Contract- Retained Surplus	\$ -	\$ -	\$ -
LT Power Contract- Admin Fees	\$ 2.2	\$ 2.2	\$ -
Frequency Response & Load Shedding	\$ 0.9	\$ 0.9	\$ -
Other [4]	\$ 0.3	\$ 0.3	\$ 0.0
Renewables- Unbundled	\$ 0.1	\$ 0.0	\$ (0.0)
Real-Time Revenue	\$ 7.0	\$ 6.9	\$ (0.1)
Other Energy-Related Sub-total	\$ 10.5	\$ 10.4	\$ (0.1)
NWR and Other Energy-Related Revenue	\$ 102.3	\$ 99.9	\$ (2.4)

<sup>[1] 2020</sup> forecast based on preliminary Jan-Mar unaudited actuals and Apr-Dec estimates (4/8/20 NWR forecast).

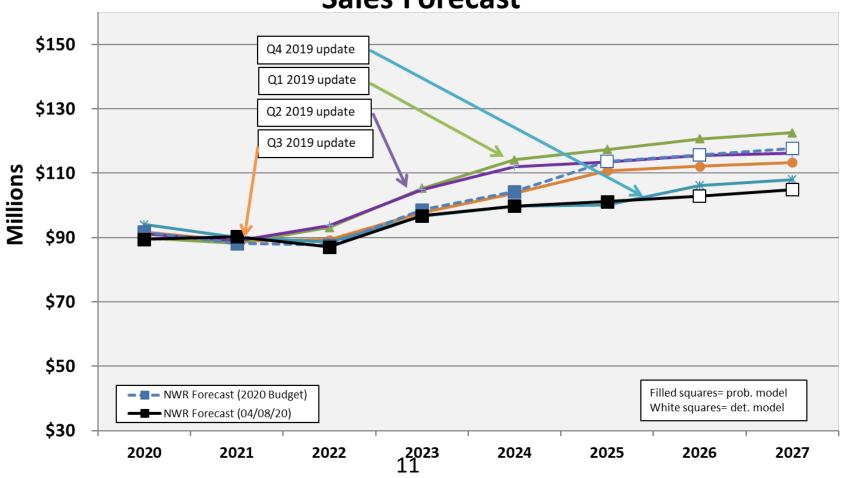
<sup>[2]</sup> NWR includes PWX specified source sale/full requirements purchase and transmission pass through costs.

<sup>[3]</sup> Off-system end-use sale includes transmission pass through costs, but not the transaction specific costs.

<sup>[4]</sup> Other includes scheduling & admin fees and the sale of reserves.

# Net Wholesale Revenue + Off-System End-Use sales forecast

Net Wholesale Revenue + Off System End-Use Sales Forecast



#### Market info

# California snowpack well below average:

- 42% of normal
- Increased risk of fires this summer

#### April 29, 2020 Provided by the California Cooperative Snow Surveys Report generated: April 29, 2020 09:17 Today 29 NORTH Number of Stations Reporting Average snow water equivalent 6.8" Percent of April 1 Reporting 23% Percent of Normal for this date 31% CENTRAL Number of Stations Reporting Average snow water equivalent 11.7" Percent of April 1 Reporting 39% 47% Percent of Normal for this date SOUTH Number of Stations Reporting 28 Average snow water equivalent Percent of April 1 Reporting 46% Percent of Normal for this date 9.7" Statewide Average SWEQ 34% Statewide Percent of April 1 Statewide Percent of Normal 42%

#### North Las Vegas agrees to remain NV Energy customer for \$250,000/year

- NV Energy will pay City of North Las Vegas \$250k per year through 2024 to keep the municipality from turning to independent power marketer
- Strategy to prevent departure of largest customers for alternative energy suppliers
- NV Energy has agreed to pay a total of about \$4.5 million to state and local government agencies

### Summary

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Questions?

