

State Of WASH. TIL. AND TRANSP. COMMISSION

#### Washington Utilities and Transportation Commission Tom Pardee, Manager of Natural Gas Planning

February 23, 2021 Avista 2021 Integrated Resource Plans Avista Natural Gas Service Areas, Gas Fields, Trading Hubs and Major Pipelines

Avista Service Territory Williams – Northwest Pipeline Enbridge – Westcoast TC Energy – GTN TC Energy – Foothills TC Energy – Nova Kinder Morgan – Ruby Jackson Prairie Storage Project



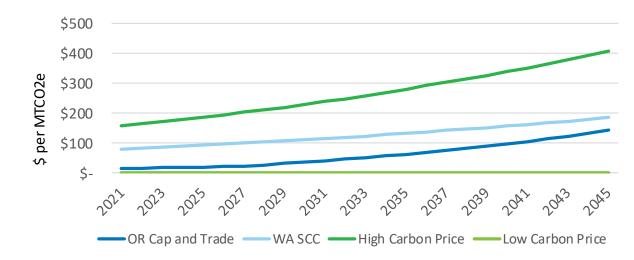
## **Building the Expected case**

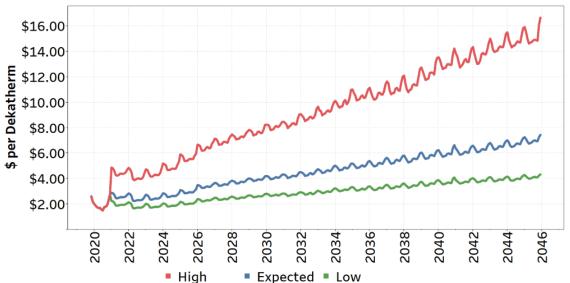
- > Average Weather 20 years daily average by planning area
- > Prices blend of 2 consultants, forward price
- Use 3 year average by planning area
- ➢ DSM Utility Cost Test 7 million Dth
- Price Elasticity 0.81% for every 10% change in price
- Peak Weather Planning Standard 99% probability of 1 in 30 years
- Carbon Price SCC 2.5% Discount Rate in WA
- Expected Customer Growth 1%
- Upstream Emissions
- Policy Carbon Reduction and Electrification



# **Prices and Carbon Policy**

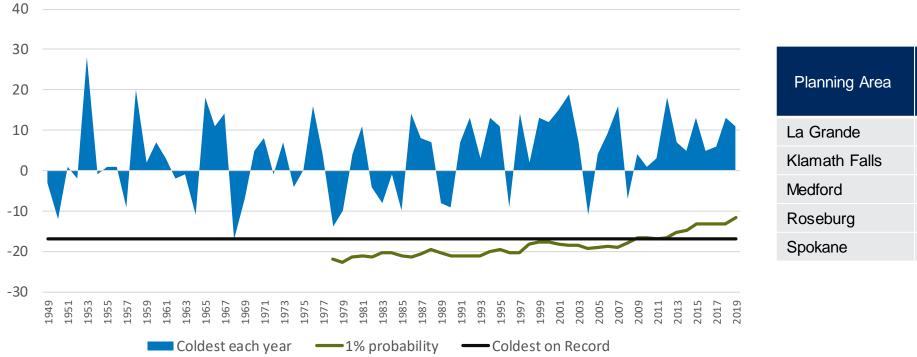
Years	Price Blend Methodology
2021 & 2022	forward price only
2023	forward price / 25% average consultant forecasts
2024	50% forward price / 50% average consultant forecasts
2025	25% forward price / 75% average consultant forecasts
2026 - 2040	100% average consultant forecasts





AVISTA

# **Peak Weather Planning Standard**



Planning AreaRecord<br/>(Prior IRP's)Probability<br/>Avg. TempLa Grande-10-11Klamath Falls-7-9Medford411Roseburg1014Spokane-17-12

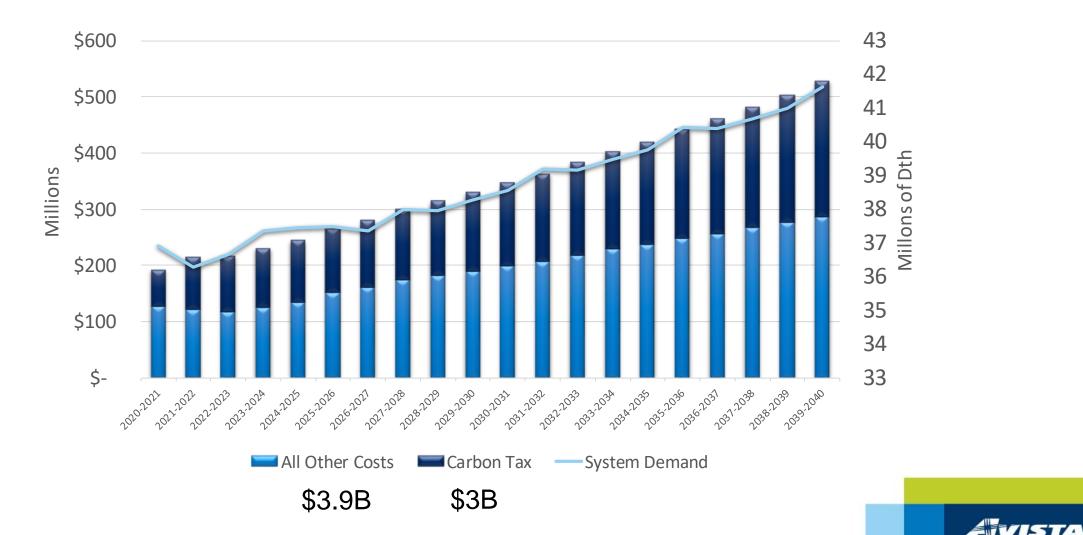
Coldest on

- Peak Weather 99% probability of 1 in 30 years
  - will capture climate change vs. coldest on record
  - Will account for coldest average day for each year



New - 99%

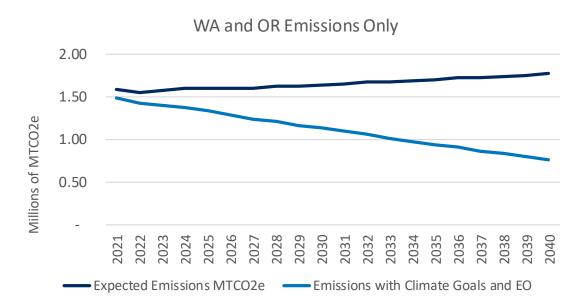
### **Expected Case Costs (20 year – system)**



- \*No unserved demand based on existing resources and fossil fuel natural gas
- 6

# **Policy and Future IRP's**

- Carbon Reduction policy is continuing to be discussed in our Oregon and Washington territories
- Reducing emissions below 1990 levels was signed into law in Oregon via Executive Order 20-04 in 2020
  - Once rules and regulations implementing Executive Order 20-04 are determined, future IRPs will likely require carbon reducing resources like RNG & H2 as a piece of future preferred resource strategy





## **Action Items**

- Further model carbon reduction
- Investigate new integrated resource planning modeling software and integrate Avista's system into software to run in parallel with Sendout
- Model all requirements as directed in Executive Order 20-04

• Public Outreach meeting on February 24<sup>th</sup> @ 5pm



# **Electrification**

- WA-Residential and Commercial customers
- 80% reduction in natural gas customers load by 2045
- 75% of load switching is estimated to be within Avista electric territory
- 2045 electrical retail rate of energy increases by 8.3%
  - Excludes new transmission & distribution facility costs
  - Excludes customer conversion costs
  - Assumes CETA's 2045 clean energy target is an acquisition of 100% of retail sales rather than 100% delivered clean energy

