

# 2021 Integrated Resource Plan

## **Initial Portfolio Analysis Results**

October 18, 2021

Becky Keating  
Senior Analyst



# Why We Are Here

## *Preliminary*

- Load forecast
  - I-937 qualifying renewable resources
- District net position and load forecasts
- Portfolio: scenario results

# Board and Public Process – 2021

## **October 18 No board action requested today**

Initial portfolio analysis results

## **November 15 (tentative)**

Finalized portfolio analysis and final draft IRP document

## **December 6 (tentative)**

Final draft IRP for board approval  
(Resolution to be presented)

## **Prior to September 1, 2022**

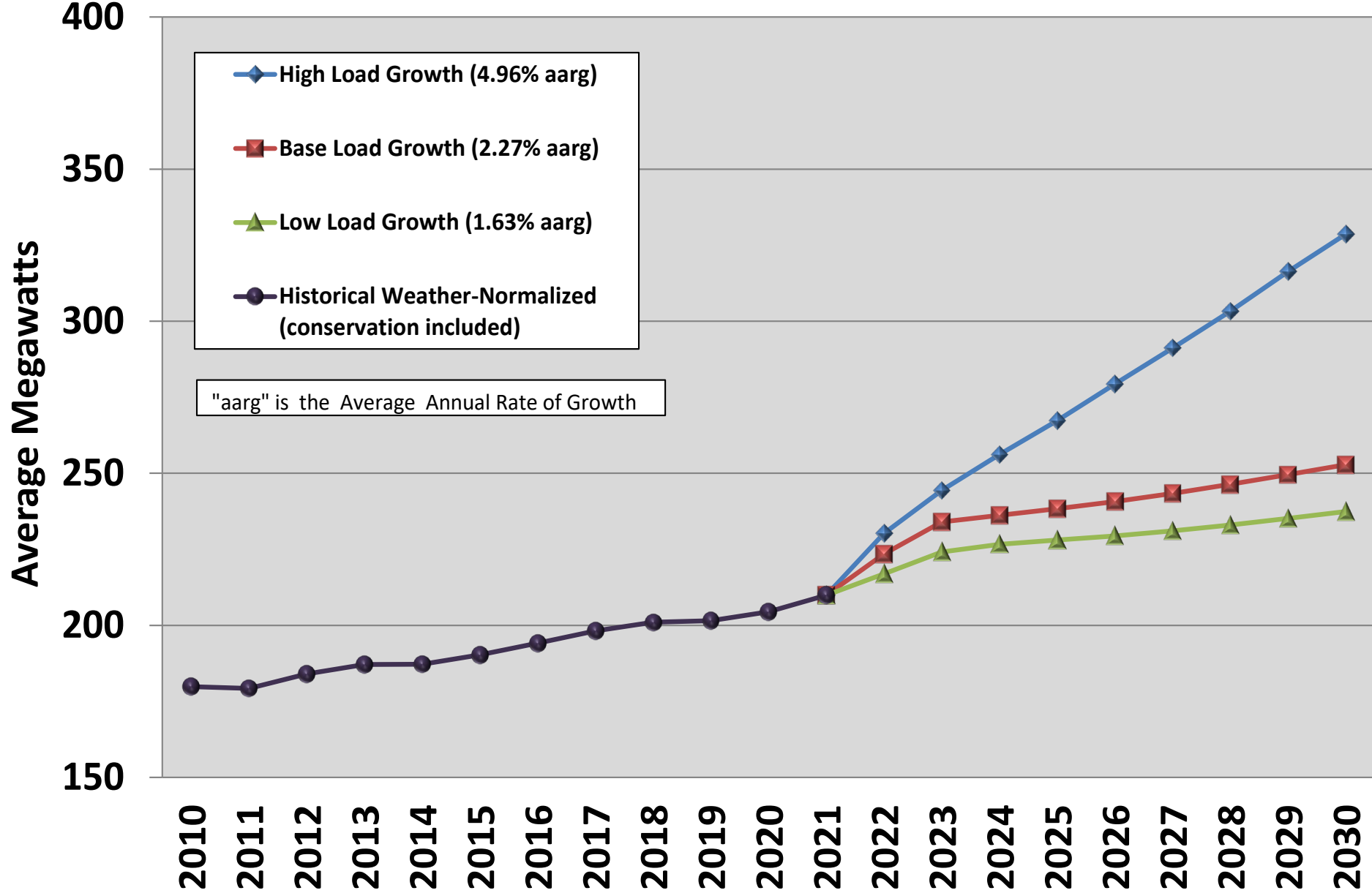
Submit final IRP to Department of Commerce

# Load Forecast - *Preliminary*

- Total sector sales – residential, commercial, industrial, HDL, EV & all “other” (plus losses) for 2021-2030 (rates are before the effects of conservation)
  - Low – 1.51% average annual rate of growth (.69% in 2020)
  - Base – 2.15% average annual rate of growth (1.75% in 2020)
  - High – 4.86% average annual rate of growth (5.08% in 2020)
- District’s historical load growth
  - 2010-2020 – approx. 1.71%
  - 2010-2020 – approx. 1.23% (after the effects of cumulative conservation)
- Based upon current base load forecast (net of conservation), the amount of I-937 qualifying renewable resources required will be approximately:
  - 31-35 aMW (15% of retail load) in 2021-2030

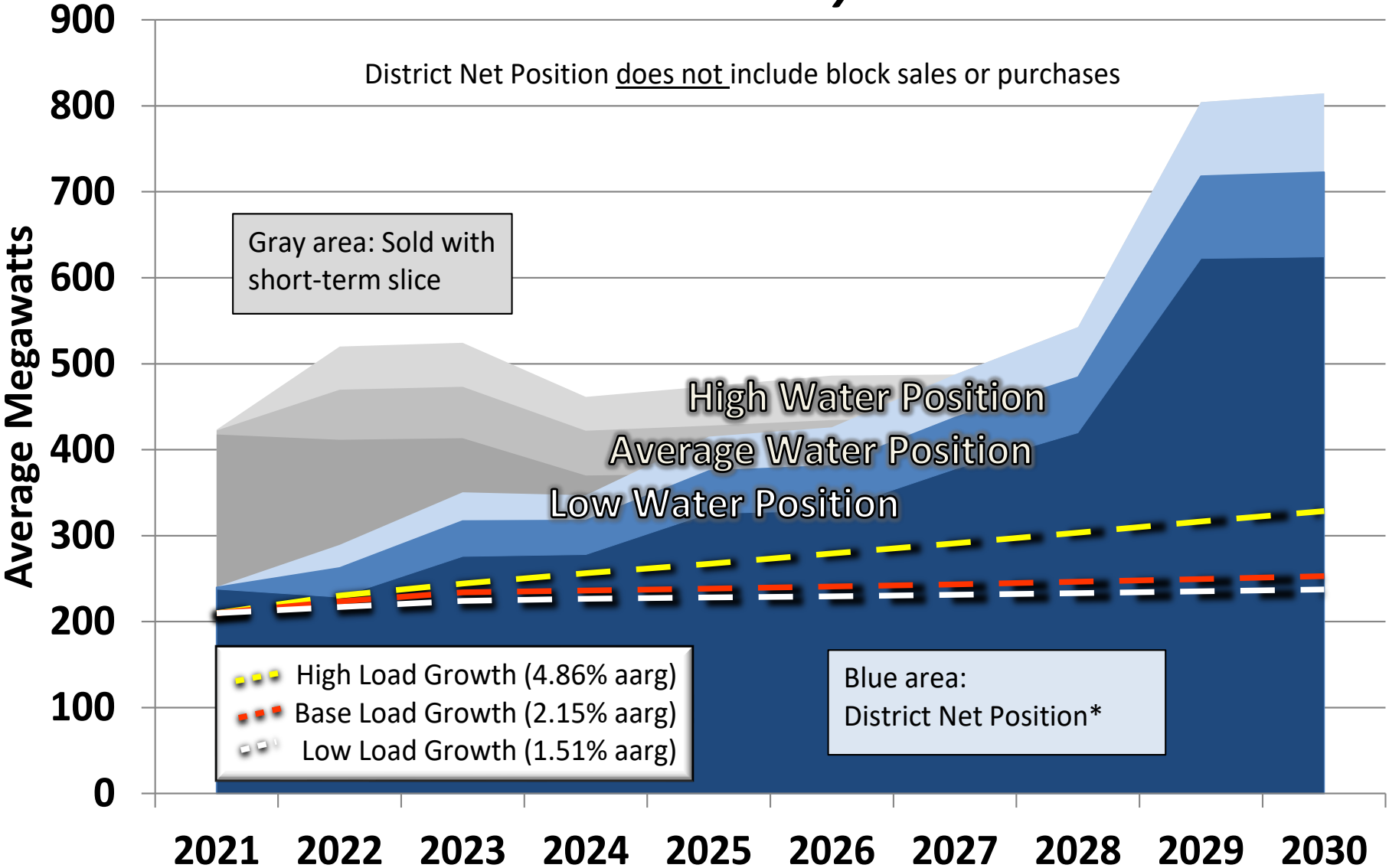
# Historical and Forecasted Annual Energy Load

## *Preliminary*



# District Net Position and Load Forecasts

## *Preliminary*



\*District net position includes the effects of encroachments, Canadian Entitlement Allocations, other contractual obligations including long-term power purchaser contracts and short-term hedging strategy slice contracts

# Portfolio: Scenario Results 2021-2030


## *Preliminary*


- Load/resource balance
  - Low, base and high levels of hydro generation stressed with various stream flows
  - Low, base and high load growth forecasts
  - Expected to be able to serve retail load without new power supply
  - Finalizing conservation targets
- Service reliability
  - Load/resource balance evaluated and expected to exceed hourly peak load forecast for each month plus operating reserve requirements
  - District involved in NWPP capacity resource adequacy effort to manage in a coordinated manner
  - Portfolio may change to address reliability standards
- Environmental impacts
  - District's hydro and wind resources **do not** emit air pollutants


# Chelan PUD IRP Website

<http://www.chelanpud.org/environment/operating-responsibly/integrated-resource-plan>

- Operating Responsibly
- Fish and Wildlife
- Habitat Conservation Plans
- Electric Vehicles
- Renewable Energy

- Web Links 
- Read RCW 19.280

- Related Pages 
- Clean Energy Implementation Plan

- Related Documents 
- 2020 IRP Document
- 2018 IRP Progress Report
- 2016 IRP Document
- 2014 IRP Progress Report
- 2012 IRP Document
- 2010 IRP Progress Report
- 2008 IRP Document

**Public Participation**  
Your comments in the development of this IRP are welcome. Click [here to submit your comments](#).

[Home](#) / [Environment](#) / [Operating Responsibly](#) / [Integrated Resource Plan](#)

## Integrated Resource Plan

In 2006, RCW 19.280 was adopted by the Washington State legislature. The statute requires investor-owned and consumer-owned electric utilities with more than 25,000 customers to develop Integrated Resource Plans (IRP) and progress reports. Among other things, IRPs must include a range of load forecasts, assessments of commercially-available, utility-scale renewable and nonrenewable generating technologies, a comparative evaluation of renewable and nonrenewable generating resources and conservation and efficiency resources and an assessment of methods for integrating renewable resources and addressing overgeneration events, if applicable.

In 2019, the passage of RCW 19.405: the Washington Clean Energy Transformation Act (CETA) added significant requirements to RCW 19.280. These include an assessment and forecast of the availability of regional generation and transmission capacity on which the utility may rely to deliver electricity to its customers, a determination of a resource adequacy metric, a forecast of distributed energy resources installed by customers, and assessments of energy and nonenergy benefits and reduction of burdens to vulnerable populations and highly impacted communities, long-term and short-term public health and environmental benefits, costs and risk and energy security and risk and a 10-year Clean Energy Action Plan (CEAP). During the development of this IRP, the rulemaking for CETA continues to be ongoing. Due to Chelan County PUD's hydropower resources being surplus to its forecasted retail electric load throughout the planning period, the District does not anticipate the CETA requirements will have a significant impact on the District's IRP development.

Utilities must produce progress reports reflecting changing conditions related to and the progress towards the IRP every two years and an updated IRP must be developed at least every four years.

Additionally, governing boards of consumer-owned utilities shall encourage participation of its consumers in development of the plans and progress reports and approve the plans and progress reports after it has provided public notice and hearing.

A new IRP is being developed in 2021, to coincide with the development of the District's first Clean Energy Implementation Plan (CEIP). The CEIP is a requirement of CETA. The IRP will outline the sources of power needed to supply PUD customers through 2030. It will describe the mix of resources from generation, conservation and efficiency and demand response that will meet current and projected needs at the lowest reasonable cost and risk to the utility and its customer-owners. The 2021 IRP will be submitted to the Washington State Department of Commerce before the September 1, 2022 deadline. Meeting notices and presentations will be linked below as available.

### Public Meetings/Hearing - 2021

October 18, 2021, 10 a.m.

November 15, 2021, 10 a.m.

December 6, 2021, final hearing, 1 p.m.





Questions?