

Resource Plan Compliance Year 2022

	Base Year	5 Year Est.	10 Year Est.
Estimate Year	2021	2026	2031
Period	Annual	Annual	Annual
Units	(MWa)	(MWa)	(MWa)
Loads	80.76	88.65	94.42
Resources:			
Conservation/Efficiency		1.20	3.41
Demand Response		-	-
BPA Tier 1	77.79	79.93	79.93
BPA Tier 2	-	5.04	-
Non BPA:			
Hydro (Packwood)	0.97	0.66	0.66
Wind (Nine Canyon & White Creek)	1.97	1.80	-
Distributed Generation (Solar Bldg.D)	0.02	0.02	0.02
Undecided	-	-	10.40
Total Resources	80.76	88.65	94.42



Mason PUD 3 Resource Plan 2022

According to the Washington State Utility Resource Plans law, 19.280 RCW, utilities are required to update its resource plan every two years. The attached report shows how Mason PUD 3 plans to match its resources to the anticipated load requirements. It was adopted by our Board of Commissioners on August 23, 2022

Loads:

Mason 3 is a Bonneville Power Administration (BPA) load following / full requirements customer. The estimated load is:

- 2026: 88.65 aMW
- 2031: 94.42 aMW

Conservation/Efficiency:

In compliance with the Washington State Energy Independence Act (I-937), Mason 3 uses the Benefit-Cost Ratio Approach (WAC 194-37-070 (5)) in determining the economic and achievable conservation potential that pass a total resource cost test. The Conservation Potential Assessment (CPA) was developed in partnership with Lighthouse Energy Consulting. The future year amounts for 2026 and 2031 are the accumulated CPA targets for years 2022 through 2026 and 2027 through 2031, respectively.

Demand Response

In compliance with the Washington Clean Energy Transformation act (CETA), Mason 3 did an assessment to determine the amount of demand response potential that is cost-effective, reliable, and feasible. It was developed in partnership with Lighthouse Energy Consulting. The assessment found no demand response potential that met the cost, reliability, and feasibility tests. Mason 3 has a small customer base and relatively low costs for additional power capacity in the demand charges from BPA.

BPA's Tier 1 and Tier 2 Power:

The amount for 2021 is the actual amount of energy BPA provided for its Tier 1 product.

Future year amounts are based on the estimated amount of Tier 1 available to Mason 3 as determined by BPA's Rate Period High Water Mark (RHWM) process performed in its two-year rate cases. The preliminary amount published in BPA's active rate case was utilized for all future years since they are unknown.

If the resource amounts are not sufficient to meet load, then a Tier 2 product is necessary, and this is estimated to be the case in future years. At this time, we are planning to utilize BPA's Short-Term product for 2026 as agreed to in the contract. A decision has not been made for the resource need in 2031. Right now, the BPA's new 2028 contract is still in flux with negotiations currently underway. Once the contract terms are known we will be in a better place to make that decision.

Hydro:

The amount for 2021 is the actual amount of energy provided, which is 10% of the total project output. Future years utilize Mason 3's specified resource amounts as provided in the BPA contract as they are calculated based on critical water conditions.

Wind:

The amount for 2021 is the actual amount of energy provided by Nine Canyon Wind project and White Creek Wind project, which is 3.14% and 1.573% of the total project outputs, respectively. Future years utilize the expected amount of generation.

Mason 3 is a project participant of the Nine Canyon Wind project and holds a contract with Energy Northwest. The contract terminates on July 1, 2030. It has not been decided if Mason 3, or if the collective of participants, will extend it.

Mason 3 is not a project participant of the White Creek Wind project. We simply take the output at a fixed contract price. The contract with Lakeview Light and Power terminates on November 21, 2027.

Distributed Generation:

This distributed generation is from a 225-kWdc photovoltaic system located on Building D at Mason 3's operations center. The project is now owned by Mason 3. The amount for 2021 is the actual amount of energy provided. Future years utilize the expected amount of generation.

Undecided:

As mentioned in the BPA section above, a decision has not been made for the resource need in 2031. Right now, the BPA's new 2028 contract is still in flux with negotiations currently underway. Once the contract terms are known we will be in a better place to make that decision. With that said, any resource selected will be nonemitting generation or renewable.

Clean Energy Transformation Act (CETA):

In compliance with the Washington CETA, all of Mason 3's retail sales of electricity to its customers will be greenhouse gas neutral by January 1, 2030, and it will be one hundred percent from nonemitting generation and renewable resources by January 1, 2045.

Mason 3 will take the following actions to meet these mandates:

1. Implement energy efficiency programs to meet the target identified in our Clean Energy Implementation Plan. In addition, continuing to pursue energy efficiency will help minimize future load growth and reduce the needs for additional resources.
2. Continue to consider additional nonemitting generation or renewable resource projects.
3. Work with BPA to have a mutually beneficial contract that will help us meet our requirement.
4. Reduce risks to vulnerable populations and highly impacted communities by:
 - a. Conducting targeted outreach to expand participation in new and existing programs.
 - b. Exploring opportunities to expand Pre-Pay and budget billing programs.
 - c. Evaluating opportunities to reduce energy burdens of at-risk customers.
 - d. Evaluating opportunities to encourage adoption of electric buses.

More information can be found in Mason 3's Clean Energy Implementation Plan which is published on our website.