

Utility name:	Public Utility District No. 1 of Klickitat County
Report date:	12/14/2021
Contact name/Dept:	Anita Clever - Energy Services
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Small utility:	Yes

A small utility is a utility that is not required by RCW 19.280.030(1) to prepare an integrated resource plan.

Interim target: Percentage of retail load to be served using renewable and nonemitting resources (WAC 194-40-200(2))

Resource	2022	2023	2024	2025	4-year Period
Renewable					
Nonemitting					0%
Total	0%	0%	0%	0%	92%

[Small utilities may enter a single value in cell G6 and leave the remaining cells blank.]

Describe how the target demonstrates progress toward meeting the 2030 and 2045 CETA standards (WAC 194-40-200(2)). This section is not required if the value in cell G6 is 80% or greater:

Not required.

Specific targets (WAC 194-40-200(3)):

Resource	Amount	
Energy Efficiency	4404	MWh to be acquired over the interim performance period (measured in first-year savings)
Renewable energy	1612867	MWh to be used during the interim performance period
Demand response	0	MW to be acquired over the interim performance period

Identify and describe the specific actions the utility will take over the next interim performance period to demonstrate progress toward meeting the utility's interim targets and the 2030 GHG neutral and 2045 clean electricity standard (WAC 194-40-200(1)):

Specific action proposed	Description of how the action demonstrates progress toward meeting interim targets and the standards
N/A	Currently meeting interim targets
Energy Assistance	KPUD will continue to grow its low-income programs with in it's already existing energy efficiency rebate offerings along with customer bill credit programs.

Highly impacted communities (WAC 194-40-200(4))

Report each Highly Impacted Community in the table below.

Highly Impacted Community is defined in RCW 19.405.020(23) as:

(23) "Highly impacted community" means a community designated by the department of health based on cumulative impact analyses in RCW 19.405.140 or a community located in census tracts that are fully or partially on "Indian country" as defined in 18 U.S.C. Sec. 1151.

Department of Health has designated Highly Impacted Communities as those ranking 9 or 10 on the Environmental Health Disparities map. Visit the Department of Health website for instructions on how to identify Highly Impacted Communities:

<https://www.doh.wa.gov/DataandStatisticalReports/WashingtonTrackingNetworkWTN/ClimateProjections/CleanEnergyTransformationAct/CETAUtilityInstructions>

Census Tract (enter 11 digit FIPS code)	County Name	Tribal Lands (Yes/No)	Environmental Health Disparities Topic Rank
53039950100	Klickitat	Yes	9
53039950200	Klickitat	Yes	9
53039950300	Klickitat	Yes	9
53077940003	Yakima	Yes	9

Vulnerable populations (WAC 194-40-200(4))

Please list all indicators developed through a public process and used to identify Vulnerable Populations based on the definition in RCW 19.405.020(40):

(40) "Vulnerable populations" means communities that experience a disproportionate cumulative risk from environmental burdens due to:

(a) Adverse socioeconomic factors, including unemployment, high housing and transportation costs relative to income, access to food and health care, and linguistic isolation; and

(b) Sensitivity factors, such as low birth weight and higher rates of hospitalization

Indicator	Details	Source	Date Last Updated	Approximate number of households in service territory (if applicable)
<i>Ex. COVID cases</i>	<i>Cases by race and ethnicity</i>	<i>Department of Health COVID-19 data dashboard</i>	<i>2021</i>	<i>1,000</i>
Large elderly population	Persons 65 years and over	ACS Survey Data	2019	5321 people
Renters	Renter occupied households	ACS Survey Data	2019	2840 units
Food stamp or Snap Benefits recipients	Poverty level population	ACS Survey Data	2019	3910 people
ALICE Households	Households that earn more than FPL, but less than basic cost of living threshold	United Way ALICE repo	2018	2647 households

Describe and explain any changes to the indicator from the utility's previous CEIP, if any:

No previous CEIP

Distribution of energy and non-energy costs and benefits (WAC 194-40-200(4))

Please report one or more indicators, developed through a public process, and used to identify the forecasted distribution of energy and non-energy costs and benefits for the utility's portfolio of specific actions, including impacts resulting from achievement of the specific targets established under WAC 194-40-200(3).

Indicators must be associated with one of the following categories: energy benefits, non-energy benefits, reduction of burdens, public health, environment, reduction in cost, energy security, or resiliency.

Category	Indicator	Details	Source	Date Last Updated
<i>Ex. Resiliency</i>	<i>Number of outages in utility census tracts</i>	<i>Use SAIDI, CAIDI and SAIFI data geolocated across service territory</i>	<i>Utility data</i>	<i>2021</i>
Energy and non-energy benefits	Low income elderly population 65 and older	Track the distribution of program participation across customer types	ACS Survey data	2019
Energy and non-energy benefits	Low-income other than elderly	Track the distribution of program participation across customer types	ACS Survey data	2019
Reduction of energy burdens	Renter occupied households	Gather data from a pilot AMI metering program	ACS Survey data	2019

Please report the forecasted distribution of energy and non-energy costs and benefits on identified highly impacted communities and vulnerable populations for the utility's portfolio of specific actions, including impacts resulting from achievement of the specific targets established under WAC 194-40-200(3). You must do a separate row for each action and for each population affected.

Identify the expected effect of specific actions on highly impacted communities and vulnerable populations and the general location, if applicable, timing, and estimated cost of each specific action. If applicable, identify whether any resource will be located in highly impacted communities or will be governed by, serve, or otherwise benefit highly impacted communities or vulnerable populations in part or in whole.

Utility Specific Action (e.g. name of resource)	Population affected? (select one per row)	Indicator	Detail (describe distribution of energy and non-energy benefits on named population)	Location of Resource (if applicable)
<i>Ex. Replace substation</i>	<i>Tribe</i>	<i>resiliency</i>		<i>substation address</i>
Implement EE programs upgrades to meet identified targets	All vulnerable and highly impacted communities	Energy and non-energy benefits	While all Klickitat PUD customers benefit from the low-cost procurement of energy, incentives such as bill reduction programs, conservation incentives for home improvements are frequently reserved for those who can afford the cost of purchasing energy-efficient equipment. KPUD's planned action to lessen risks to highly impacted and vulnerable members of the community, so that they can obtain more of these benefits.	NA
Energy conservation in rental housing	All vulnerable and highly impacted communities	Energy and non-energy benefits	Identify the barriers and solutions for both the landlord and renter to aid in creating an energy efficiency program that meets the identified need.	NA
Automated bill pay & other payment options	All vulnerable and highly impacted communities	Non-energy benefits	The elevated burden on households in our rural communities is compounded by transportation costs where many low-income and other vulnerable populations are inadequately served by affordable and efficient transportation options. Offering automated, web based and looking in to the development of other payment options will help eliminate travel costs to pay utility bills	NA
AMI Pilot program	All vulnerable and highly impacted communities	Reduction of burden	During the testing program, advanced meter technology will show us if it will help identify a homes energy burden along with supplying real-time data for educational training to the household	NA

Integrated resource plan compliance (WAC 194-40-200(6))

This CEIP is consistent with the most recent integrated resource plan or resource plan, as applicable, prepared by the utility under RCW 19.280.030. **Select yes or no.**

Yes

Clean energy action plan compliance (WAC 194-40-200(7))

The CEIP is consistent with the utility's clean energy action plan developed under RCW 19.280.030(1) or other ten-year plan developed under RCW 19.280.030(5). **Select yes or no.**

Yes

Long-term plans (WAC 194-40-200(4)(c)(iii))

Describe how the specific actions in the CEIP are consistent with, and informed by, the utility's longer-term strategies based on the analysis in RCW 19.280.030 (1)(k) and clean energy action plan in RCW 19.280.030 (1)(l) from its most recent integrated resource plan, if applicable:

No integrated resource plan is required for Klickitat PUD as a small rural utility.

Risk (WAC 194-40-200(4)(d))

Describe how the utility intends to reduce risks to highly impacted communities and vulnerable populations associated with the transition to clean energy.

Power Supply: As a load following customer of BPA KPUD has access to a largely carbon free power supply for the majority of our needs. In addition KPUD has made contract elections with BPA that would allow for 100% of our power supply to be sourced from BPA utilizing our existing contracts combined with BPA Tier 2 product. This ensures that the majority of our power supply will be carbon free which limits the financial exposure our highly impacted communities or vulnerable population have to energy not considered clean under CETA

KPUD intends to reduce risks to highly impacted communities and vulnerable populations in its service territory, by continuing to focus our on our ongoing reliability efforts and the following programs

Energy efficiency program: KPUD presently offers an energy efficiency rebate program, which will be expanded by adding a more comprehensive low-income marketing campaign that focuses on weatherization and more efficient heating choices and to include the high elderly and renter populations.

Low-interest conservation loans: KPUD will continue to provide low-interest in-house financing to make energy-efficiency upgrades in our customers' houses more accessible and affordable. When applicable, rebates for completed projects will be paid to the principle of the loan.

Energy education component: KPUD wants to expand on these efforts by offering lectures, training videos, social media campaigns, and reaching out to community and professional agencies to establish a more varied plan, in addition to constantly being a presence at county-wide events.

Advanced Metering Infrastructure (AMI): We are entering into an AMI pilot testing plan to evaluate the hardware and software with collecting and processing meter data through a router and gateway platform on approximately 60 homes in our territory. This advanced meter system could allow for advanced metering technology to help homes identify their energy burden along with real-time data for conservation needs assessments if is found feasible to accomplish.

Nothing in this CEIP shall be considered to limit the powers of the Klickitat PUD Board of Commissioners, and they will retain in full their local ratemaking and other legal authority. This CEIP is adopted by Klickitat PUD Board of Commissioners on December 14, 2021 with the provision that such adoption shall sunset annually; and such adoption shall have no further force and effect in subsequent years, absent a motion and approval reauthorizing adoption by the board annually in subsequent years.

Public participation (WAC 194-40-200(4), -220(1))

Provide a summary of the public input process conducted in compliance with WAC 194-40-220. Describe how public comments were reflected in the specific actions under WAC 194-40-200(4), including the development of one or more indicators and other elements of the CEIP and the utility's supporting integrated resource plan or resource plans, as applicable.

In order to further inform our planning efforts, KPUD launched a public survey as part of the CEIP's public participation plan. The goal was to seek feedback on how KPUD could handle the CETA obligations for cleaner energy by soliciting consumer opinions, preferences, and input.

The survey's key research objectives were as follows:

- Recognize the preferences and priorities of CETA's energy benefit categories among customers.
- Identify the main customer concerns and challenges in the clean energy transition.
- Identify the indicators, vulnerable populations, assess the risks during the clean energy transition.

KPUD's customer outreach techniques included introducing community people to the CEIP website to complete the survey and requesting them to attend public board meetings for more information and debate.

- Publicly posting the survey links to KPUD's CEIP web page and news page.
- Distributing bill inserts to approximately 12,000 customers.
- Posting on social media pages.
- Advertising in the local Ruralite magazine.
- Providing handouts and informational posters in our lobbies.
- Multiple public meetings were held to discuss the CEIP process and to gather public input. Those dates were: October 26, November 9 & 23, and December 14, 2021

Other methods for obtaining data regarding the communities in Klickitat County were:

- Data USA
- United Way ALICE report (Asset Limited, Income Constrained, Employed)
- US Census Data (American Community Survey)
- Washington State Department of Health Tracking Network for Environmental Public Health Data
- WGAP Community Needs Assessment

The data provided from our public survey does not constitute a statistically valid sample based on the number of responses compared to the total customer base. However, the data is deemed adequate for purposes of CEIP completion. A

summary of the high-level theme across the public survey is as follows:

- The overall result was that KPUD customers are in favor of addressing climate change issues, with an emphasis on resiliency and affordability.
 - Keep in mind the expense vs. benefit of KPUD's planning efforts
 - Concerns about how large-scale alternative energy options would effect biodiversity and land use.
 - Would like to see more incentives for conservation including net metering programs.
 - Concerns about affordability without increasing rates and fees.
 - KPUD public processes should include an emphasis on connecting with community groups and provide venues for discussion to community member without regular access to computers or the internet. On December 14, 2021 during
- a public hearing the Klickitat Board of Commissioners adopted this CEIP with provisions.

Use of alternative compliance options (WAC 194-40-200(5))

Identify any planned use during the period of alternative compliance options, as provided for in RCW 19.405.040(1)(b):

Alternative compliance payments:	0	Dollars
Unbundled renewable energy credits:	0	Credits
Credits from energy transformation projects:	0	MWh
Electricity from the Spokane municipal solid waste to energy facility:	0	MWh

Resource adequacy standard (WAC 194-40-200(8))

Identify the resource adequacy standard and measurement metrics adopted by the utility under WAC 194-40-210 and used in establishing the targets in the CEIP.

Resource adequacy standard	<p>BPA assures its power supply is available to meet its firm power supply obligation on a long term planning, forecast, basis. As directed by the Pacific Northwest Electric power planning and Conservation Act, a fundamental statutory purpose for BPA is to assure it has an adequate supply of power, which BPA meets through its power planning function as guided by the Northwest power and Conservation Council power Plan.</p> <p>BPA’s firm power supply obligation under the Northwest power Act means BPA supplies all the power a customer needs to serve their retail consumer demands on a continuous basis except for reasons of force majeure. This obligation takes into account and is adjusted by the amount of non-federal power/resources Klickitat County PUD #1 uses to serve their load and by the type of product the Klickitat County PUD #1 elects to purchase from BPA. BPA’s currently effective Regional Dialogue load Following Contracts obligates BPA to supply all the electricity required to meet the second to second variation in the Klickitat County PUD #1’s load net of the Klickitat County PUD #1’s non-federal resources</p>
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Methods of measurement	<p>BPA uses its Resource Program, which includes a Needs Assessment that examines on a 10-year forecast basis the uncertainty in customer loads, expected water conditions affecting federal hydro production (including Biological Opinion requirements), resource availability, natural gas prices, and electricity market prices to develop a least-cost portfolio of resources that meet Bonneville’s obligations. The goal of the Needs Assessment, which is one of the early steps in the Resource Program, is to measure Bonneville’s existing system, in relative isolation, against Bonneville’s obligations to supply power to show whether any long-term energy and/or capacity shortfalls may occur over the 10-year study horizon. The Needs Assessment forecasts Bonneville’s needs for long-term energy and capacity based on resource capabilities and projected obligations to serve power. The Needs Assessment informs later steps of the Resource Program, where resource optimization techniques are used to evaluate and select potential solutions for meeting Bonneville’s long-term needs based on cost and risk.</p> <p>The Needs Assessment uses the following four metrics to assess Bonneville’s long-term energy and capacity needs:</p> <ul style="list-style-type: none"> • Annual Energy: Evaluates the annual energy surplus/deficit under 1937 critical water conditions, using forecasted load obligations and expected Columbia Generating Station output. • P10 Heavy Load Hour: Evaluates the 10th percentile (P10) surplus/deficit over heavy load hours, by month, given variability in hydropower generation, load obligations, and Columbia Generating Station output amounts. • P10 Superpeak: Evaluates the P10 surplus/deficit over the six peak load hours per weekday by month, given variability in hydropower generation, load obligations, and Columbia Generating Station output. • 18-Hour Capacity: Evaluates the surplus/deficit over the six peak load hours per day during three-day extreme weather events and assuming median water conditions. Winter and summer extreme weather events, such as cold snaps or heat waves, are analyzed, both of which assume maximum delivery of the Canadian Entitlement outside of the region, zero wind generation, and limited energy market purchases. Winter events assume reduced streamflows due to impacts from ice forming in reservoirs. Summer events assume reduced Columbia Generating Station output due to adverse weather conditions, as the plant must power down during high temperatures for safety reasons.
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Klickitat PUD does not plan to use the incremental cost approach during this interim compliance period