



HOTLINE

News From Your Public Power Utility • 3rd Quarter, 2019



Apprentice Lineman Aaron Petroff at Queen of Angels School's Touch-A-Truck event.



A car vs. pole accident disrupted service to nearly 500 customers served by the Airport Substation in May.



Lightning arrestors help protect from overvoltage events. These did their job at the Airport Substation after the car vs. pole accident on May 8.



PUD bucket truck in the Irrigation Festival Grand Parade.



PUD vintage 1956 International truck pulling the community solar display in the Irrigation Festival Grand Parade.



The Forks office recently received a facelift.

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Clallam County PUD
PO Box 1000
Carlsborg, WA 98324

Postal Customer

PRSR STD
U.S. Postage
PAID
Olympic Mailing
Services
ECRWSS

PUD Mission: Providing reliable, efficient, safe and low-cost utility services in a financially and environmentally responsible manner.



DOUG NASS

From the General Manager

Dear Customers,

In May, the Commissioners awarded the bid for our community solar project. By the time you receive this newsletter, construction activity should be plainly visible at our old Sequim substation property at 410 E. Washington Street in Sequim. It is exciting to see this project underway.

It's also an exciting time in the utility industry. Advances in renewable energy, batteries, and electric vehicles are all providing opportunities to move towards a cleaner future. Our challenge will be in integrating these resources and technologies while maintaining the balance that is important for managing our power grid. Fortunately, we have clean, reliable and renewable hydropower, and clean nuclear power that does the job while helping to keep our rates some of the lowest in the nation!


Inside this issue, we bring you information on some of the many steps Clallam PUD has taken, and continues to develop, to reduce our carbon footprint. As always, if you have any comments, questions, or feedback, please do not hesitate to reach out by calling or emailing us at info@clallampud.net.

Doug Nass, General Manager

Contact PUD

PO Box 1000
Carlsborg, WA 98324
360-452-9771
Toll-free: (800) 542-7859
info@clallampud.net
www.clallampud.net





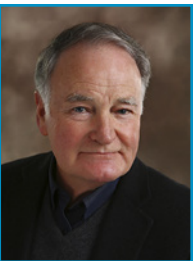
Fuel Mix

Your PUD's electricity comes from the following fuel mix (which is 98% clean energy!):

Coal:	1%
Hydroelectric:	87%
Natural Gas:	1%
Nuclear:	11%
Total:	100.00%

Commissioners

Clallam County Public Utility District #1 is directed by a three-member board of commissioners elected by the citizens of the county. Our Board holds public meetings the 2nd and 4th Mondays monthly at 1:30 p.m. at our Carlsborg Main Office.



Will Purser
President, District #1

Will Purser has served as District 1 PUD Commissioner since appointment in April 2001. He represents the 1st District, which is the Eastern part of the County. Commissioner Purser recognizes that the issues of energy, water, and waste disposal are critical to the quality of life of Clallam

County residents now and in the future. He also serves on the Energy Northwest Board of Directors' Executive Board. Energy Northwest is a Joint Operating Agency of 28 public utilities operating nuclear, hydroelectric, wind, and solar projects.

wepurser@clallampud.net • 360-565-3512

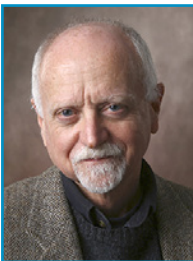


David Anderson
Secretary, District #2

David Anderson was appointed in September of 2018. He spent thirteen years as a Project Manager on the design and construction of utility projects, as well as fifteen years prior in construction and project management roles. With a Masters degree in Construction

Management, his experience is invaluable to understanding the District's infrastructure and future planning as the PUD grows. His interest as Commissioner is "to assure that management of the PUD continues to provide reliable and affordable power, water and wastewater..." adding that the role allows him to expand his engagement in community service.

danderson@clallampud.net • 360-565-3528



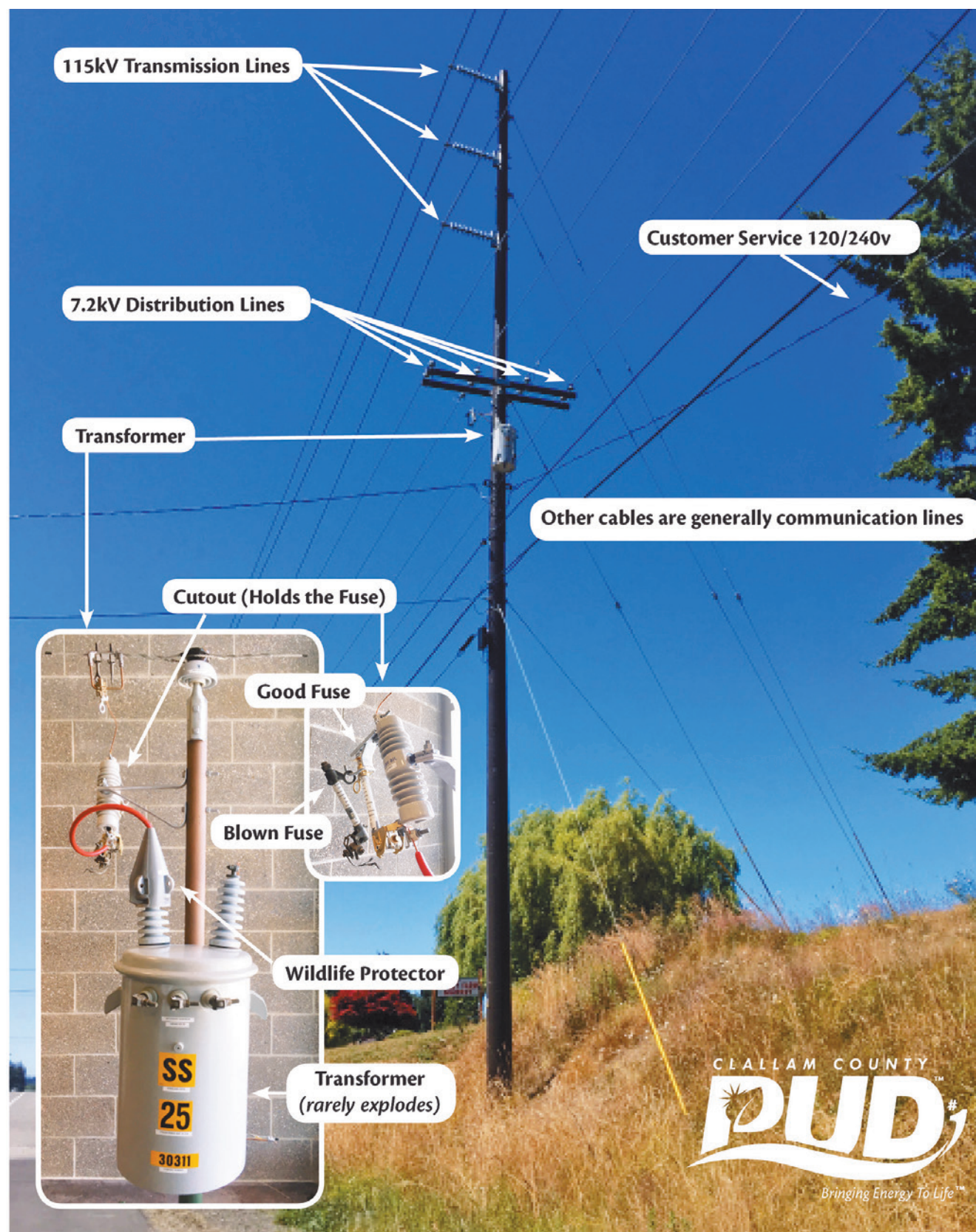
Jim Waddell
Vice President, District #3

Jim Waddell is a Civil Engineer who is retired from a 35-year public service career with the U.S. Army Corps of Engineers. For over twenty years of that career he has been a leader in developing the policies and practice of Sustainable Development. He also served with the

Environmental Protection Agency and the National Science Foundation (NSF). Jim's work with the NSF and then as the Senior Policy Analyst for the Environment in the White House office of Science and Technology Policy was largely focused on climate change policy, budgets and research integration. During the early stages of his career, Jim Waddell was an officer in the Army National Guard, serving in Engineer, Signal, and Transportation units.

jwaddell@clallampud.net • 360-565-3521

ANATOMY OF A POWER POLE



Ever see a flash or hear a loud explosion and then your power goes out?

It is often reported by customers when they call in to report an outage, or on social media sites that “a transformer blew.” This is very rarely the occasion.

An explosive sound likely indicates a fuse has been tripped, which is doing exactly what it should be doing to protect the system, much like what your breakers do at home if there is a fault in the system. A visible flash could also be a fuse, or it could be a tree or branch in the line.

There are a variety of reasons why an outage occurs.

Call us at

360-452-9771
or 800-542-7859

to report an outage and whether you heard or saw something, or report it using the SmartHub app on your mobile device.

Our expert crew will respond and make the diagnosis and get to work restoring power.

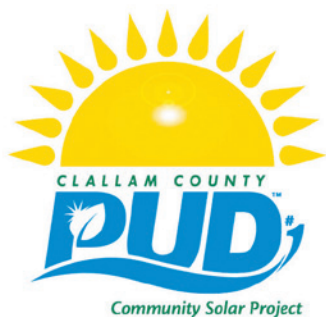




COMMUNITY SOLAR OPEN HOUSE

We invite you to an open house to see a presentation on the construction of Clallam County's first community solar project! Hear about the progress being made and learn how you can help support bringing renewable energy to our community.

**Friday, August 2, 2019
1:00 p.m. or 6:00 p.m.
PUD Main Office - Lake Crescent Boardroom
104 Hooker Road, Carlsborg**



**Questions? Contact our
Conservation Department at
360-565-3249 or
utilityservicesinfo@clallampud.net**

Community Solar Update

The PUD is accepting paid participation agreements for the purchase of units of its community solar installation, expected to begin production in late 2019. The project, sited at 410 E. Washington St. in Sequim, WA, will be a 30kW project consisting of approximately 96 panels and estimated to produce up to 32,000 kWh annually over 25 years. There will be 2,000 units available in this project, with a unit being equal to approximately 15 watts of power.

Community solar differs from rooftop solar in that rooftop solar is typically owned by a homeowner or business owner and located on homes or businesses rooftops. However, not all customer properties are conducive to solar generation because they are not optimally situated relative to the sun or objects that may block the sun.

Community solar is a low-hassle option that generally offers a lower entry price than rooftop solar and allows you to support a sustainable future through an investment in a renewable source of energy – solar. You and others in your

Clallam PUD Commissioner Net Metering Policy Update

The District's Interconnection Requirements Policy was modified by Commission vote on April 8, 2019 to eliminate the prior Utility requirement that an AC disconnect or full service disconnect be collocated with the District's meter at remote meter pedestals or in other cases where the utility meter is a significant distance from the generation equipment. For customers who install solar or wind generation equipment this change results in a reduction in customer funded utility cost that typically ranged between \$750 to \$1,500 under the previous language. In lieu of the collocation requirement, District-approved signage is required at the Utility meter location so long as it effectively describes the location of the remote AC disconnect associated with the generation equipment, and the path is unobstructed. Visit <https://www.clallampud.net/net-metering/> to view the updated policy.

community come together to share in the cost of the construction of a solar electric system. Customers investing in community solar have the opportunity to take advantage of financial incentives currently offered by the State of Washington, in addition to receiving a credit on their bill based on the production of the solar array.

A customer can submit an offer to purchase between one and 125 units by completing the participation agreement and submitting payment in person at the

Clallam PUD main office. The cost per unit is \$57.96. Payment can be made via cash, check, or VISA/MasterCard/Discover debit or credit card at any of Clallam PUD's offices.

To see if units are still available for purchase, or for complete program details visit www.clallampud.net/communitysolar/.

Legislative Net Metering Update

On May 7, 2019, Governor Inslee signed ESSB Bill 5223 into law which will make net metering available to customer-generators on a first-come, first-serve basis until the earlier of June 30, 2029, or the first date upon which the cumulative generating capacity of net metering systems equals four percent (4%) of the utility's peak demand during 1996. Previously this cap had been set at one-half percent (0.5%). Upon reaching either of those dates, the utility will then have the discretion, subject to Board approval, in how it will manage and compensate net metering customers. As of the end of May 2019, Clallam PUD currently has 346 net metering customers, whose capacity equals 1.43% of the utility's 1996 peak demand. The effective date is July 28, 2019. The legislation specifically states the net generation is to be compensated at the retail kWh rate. Staff will bring a policy revision resolution to the Board of Commissioners prior to the effective date.

Thanks to the
irrigation benefits
of hydropower, the
Northwest has nearly
**8 million more
acres** of farmland.

#HydroFlowsHere

The Smart Way - SmartPay!

No Deposits - No Late Fees - No Billing Statements

Take control of your account with SmartPay!* Free yourself up from deposits and manage your account from the convenience of your computer or smart phone. SmartPay allows you to:

- Pay what you can, when you can, anytime 24/7!
- Track your daily usage
- Avoid late fees and collection fees
- Your electric service continues as long as you have funds in your account.

Call 360-452-9771 or 800-542-7859 to sign up!

*Must be enrolled in the SmartHub online account portal with the ability to receive email or text alerts. Upon sign up, any deposit on file will be applied to the account balance. Residential customers with PUD Water, Sewer and/or CT meter service, are not eligible for SmartPay. Other restrictions apply; read the Terms of Service for details.



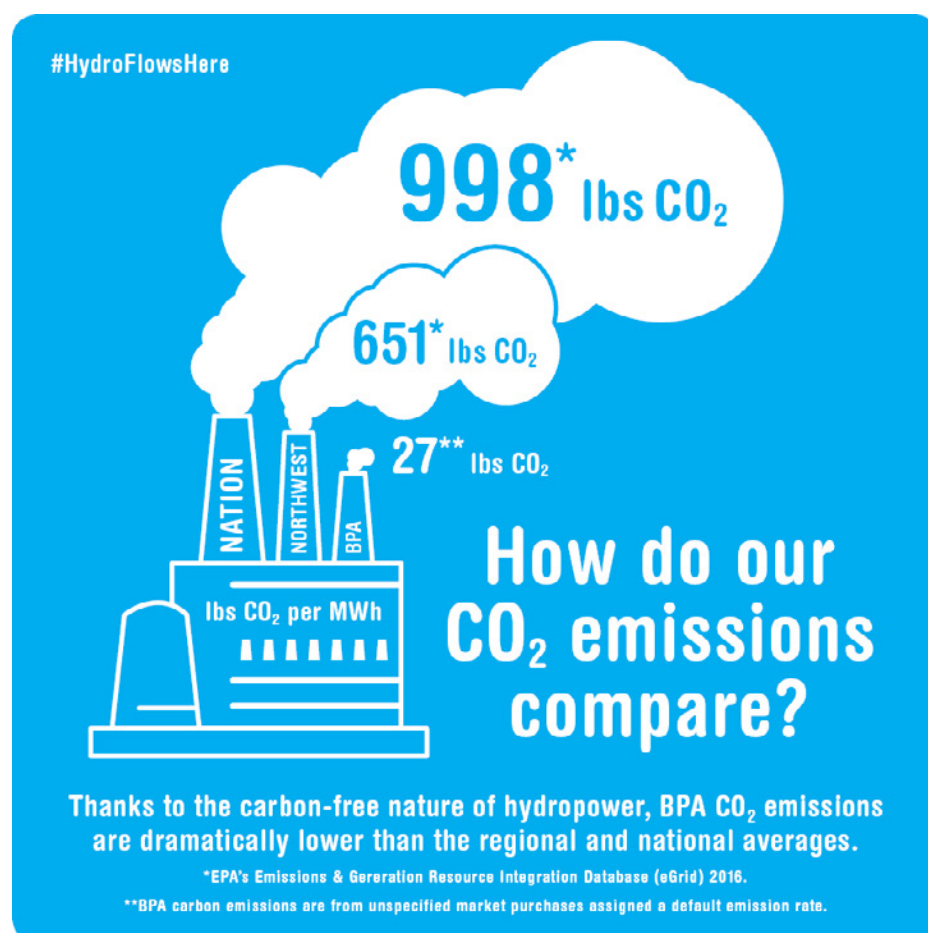
Climate Change & Your PUD

With all the headlines about clean energy in the news, you might be wondering what your PUD is doing to help address climate change. It's right in our mission statement: "Providing reliable, efficient, safe, and low cost utility services in a financially and environmentally responsible manner." In fact, the energy you receive from Clallam PUD is over 98% carbon-free!

In addition to receiving the bulk of our power from Bonneville Power Administration's clean, renewable, and reliable hydropower system, we have spent almost 25 years promoting and taking proactive steps to implement innovative energy conservation with our customers and support renewable distributed generation. Looking forward, building and leveraging an integrated smart grid is critical to low cost and minimizing utility-controllable carbon emissions.

What do we mean when we say "Smart Grid"?

The "grid" refers to the electric grid, a network of electric equipment and lines that deliver electricity from the power source to your home or business. A "smart" grid relies on cutting-edge technology to automate and manage the increasingly complex processes required to deliver power in the 21st century. This is increasingly important as more renewable energy generating resources are integrated into the grid. A smart grid is more efficient, allows for quicker restoration after an outage, reduces costs, manages demand, and offers improved security.



The major elements for Clallam PUD's smart grid in its network are:

- A broadband communications network
- Distribution automation for substations and lines
- Integrated information systems, analysis and applications
- Advanced Metering Infrastructure (AMI)
- Knowledgeable personnel who understand and effectively apply technology to optimize electric system operations

Some of the projects on the conservation side of the utility assist customers with transitioning to more energy efficient appliances, lighting and building materials to conserve energy, whether residential or commercial, reducing the customer's utility bills as well as conserving energy.

In addition, the PUD has offered net-metering since 1998 and has now integrated 346 customer-owned renewable distributed generation systems, primarily rooftop solar. We are in the process of implementing a community solar project in downtown Sequim (see pages 4-5). Future plans are to add battery storage to this project as well as an electric vehicle (EV) charging station to the site. Clallam PUD is also collaborating with Energy Northwest and municipalities to create an EV charging corridor along Highway 101.

How does all this impact climate change and improve efficiency?

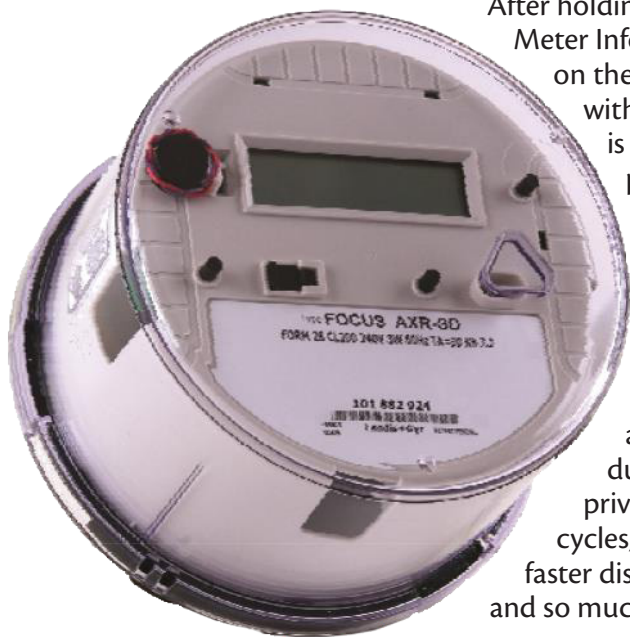
- Improved data and accuracy results in smaller carbon footprints of system designs and electric operations
- Effective integration of renewable distributed generation
- New and more effective system-wide energy conservation
- Our computer-based Geographic Information System (GIS) smart applications for crew field use are paperless
- Real-time system status, maps and information will be available to system operators and line crews
- Web-based information available to customers online and via mobile apps
- Rapid diagnosis, prioritization and response to system problems
- More than 20% fewer "truck rolls", site visits and travel
- Reduced need for customers to have to travel to PUD offices
- Improved outage management system and response
- Will allow future implementation of time-of-use rates with the goal of shifting energy habits away from system peaks which will allow substantially more load through existing infrastructure and reduce costs.

The results (using a higher carbon national average fuel mix for electricity):

- Smart utility operations reduce fleet activity and eliminates up to 180 tons of CO₂eq /year
- Proper design and operation of electric facilities reduce CO₂ emissions from line losses by up to 2,000 tons of CO₂eq / year, at little customer cost

continued...

Advanced Meter Misconceptions



After holding several Advanced Meter Informational Workshops on the “smart meter” project with customers, the project is progressing forward as planned.

Over time, more and more customers will be able to enjoy the benefits of advanced meters (AMI meters) such as reduced outage duration, enhanced privacy, consistent billing cycles, more accurate bills, faster disconnect/reconnect, and so much more!

Over the past few months, however, we have found that there have been recurring misconceptions that we feel are important to clarify so that you, the customer, are completely informed.

Following are our top misconceptions that we have heard and the correct information in response:

My bill will go up when I get a “smart meter.”

It is possible. If the meter being replaced is an old electromechanical (analog) meter, by replacing it with an AMI meter your meter readings will now be accurate as the analog meters slow down over time. If the meter being replaced is any other form of a digital meter then there would be no difference in accuracy or your bill. The PUD bills you for actual energy consumed, which can vary depending on many factors including temperature, if you have visitors, days in your billing cycle and more. If you have questions about your bill, please contact customer service at 360-452-9771.

Climate Change and Your PUD ... continued

- PUD sponsored conservation programs have contributed to an annual reduction of several 1,000’s tons of CO2eq / year
- Distribution Automation, including fully implemented Conservation Voltage Reduction has potential to reduce CO2 emissions by 4,000 tons of CO2eq / year
- Future Smart Grid implementations designed to increase throughput of power through existing infrastructure can avoid up to \$15,000,000 in capital infrastructure and reduce CO2 emissions by as much as 10,000 tons of CO2eq / year

A “smart meter” will be able to track what I’m doing in my home.

The PUD’s meters will only transmit total power consumed, instantaneous voltage, device numeric identification, and disconnect position (on/off).

These “Smart Meters” will be constantly transmitting radio frequency (RF) signals

Based on discussions held at the workshops, the PUD intends to program the AMI two-way radio frequency meters to transmit data once a day, Total period transmitting over a full year will average about 12.2 minutes, or, the equivalent exposure as a 6 minute 4G cell phone call or wirelessly streaming anything.

The answers to these questions and much more are all available on the PUD’s website at www.clallampud.net/advanced-meter-information/. We encourage you to get your information directly from the source to avoid frustration.

If you have any questions beyond what is available at the above link, please e-mail info@clallampud.net.



**MORE
THAN A COMPANY.
A TEAM.**

We are
MORE POWERFUL TOGETHER.

To learn how you and Clallam PUD are **#MorePowerfulTogether**, visit www.clallampud.net.



Neighborhood Assistance Program

You can help neighbors in need by donating to this fund. Indicate how you would like to contribute and your choice of agency below. Please clip and enclose this with your PUD payment or drop off at your nearest PUD office. *(If submitting with payment, only one payment is necessary for both your contribution and your PUD bill.)*

Name: _____

Acct. No.: _____ Phone No.: _____

Address: _____

My choices for participation in the Neighborly Assistance Program are indicated below. This **replaces** any previous pledges.

☐ Please bill \$ _____ every month, beginning with my next statement, until I contact the PUD to cancel.

☐ I prefer a one-time contribution of \$ _____

I want my one-time or monthly contribution to go to:

\$ _____ to Olympic Community Action Programs

\$ _____ to Port Angeles St. Vincent de Paul

\$ _____ to Sequim Community Aid

\$ _____ to Sequim St. Vincent de Paul

Signature: _____ Date: _____

**SEE US AT THE CLALLAM
COUNTY FAIR!
AUGUST 15-18, 2019**






STANDARD ELECTRIC WATER HEATER	HEAT PUMP WATER HEATER
<input checked="" type="checkbox"/> Heats Water	<input checked="" type="checkbox"/> Heats Water
<input checked="" type="checkbox"/> Built To Last	<input checked="" type="checkbox"/> Built To Last
<input checked="" type="checkbox"/> High Quality	<input checked="" type="checkbox"/> High Quality
<input type="checkbox"/> Uses Up To 50% Less Energy	<input checked="" type="checkbox"/> Uses Up To 50% Less Energy

JUST BECAUSE THEY LOOK THE SAME DOESN'T MEAN THEY WORK THE SAME.

That's because heat pump water heaters work much more efficiently than their standard electric counterparts. And that means you can save up to 50% on your monthly electric water heating costs for years to come.



Bringing Energy To Life™

<https://www.clallampud.net/water-heater-rebates/>