

In 2023, electric-hybrid and EV's made up 16% of all new vehicles sales in the US. In Jefferson County, EV registrations continue to grow.

When we reported on the first all-electric truck in Jefferson County (May 2022), only 415 EV's were registered countywide. In Nov 2023, EV registrations totaled 638 (42% increase).

The rapid growth of EV's means that in addition to water, sewer, power, and broadband business, the PUD is now solidly in the fuel business. In fact, we installed our first 'fueling' station for the PUD's new

all-electric Ford F-150 Lightning in December.

EV charging is a bit easier than the PUD's traditional gas fueling station which has 2 pumps, a covered area, and large underground tank system. The EV station is just a 240V, wall-mounted Level 2 charger.

The PUD's Lightning has an estimated 320-mile range from a 98kWh battery, which fully charges in 8-12 hours. Nationally, daily home usage is approx 30kWh of power. The Lightning itself is essentially a generator, providing field crews front and rear 120V power outlets and the potential for a 240V port in the bed capable of energizing a building.

Unlike traditional vehicles or even hybrids (both plug-in or not), fully electric vehicles require no gas or diesel, nor oil (for engine),

nor transmission fluid (there is no transmission). An EV's fuel is simply the 96% carbon-free electricity direct from the PUD.

Fueling with low-cost PUD power can save money, as shown in the 100-mile example comparing the PUD's new EV vs current fleet truck. EV's convert

between 80%-90% of stored energy into motion, while traditional vehicles average 20%-25% when converting fuel into motion.

#### EV's and Demand on the Grid

Adding electric vehicles to the grid is a shift from longstanding power consumption

models. Typically, power usage occurs in peaks and valleys. Peak hours are the main concern for utilities and occur in the morning between 6-9am (homes heating) and in the evening from 6-8pm.

Charging EV's during low-demand times (overnight or mid-day during work hours) helps reduce peaks and aids in flattening the power usage trend. This helps the PUD better identify power usage trends systemwide, said Kevin Streett, PUD General Manager. Continuous usage trends can also help the utility better negotiate power contracts as demand rises.

"Adding the EV and needed infrastructure to the PUD fleet helps us grow as a utility alongside our customers," Streett said.

# Going the Distance - Comparing 100 Miles

A closer look at cost of operation for 100 miles of drive distance for the PUD's F-150 Lightning vs current PUD fleet F-150 vehicle.

F-150 Lightning (EV): \$3.89

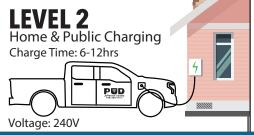
41.6kWh needed for 100 miles. Tier 1 kWh rate 0.0936

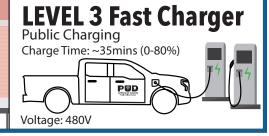
F-150 (gas-powered): \$24.30

17mpg average. 5.8-gal needed for 100 miles. WA average: \$4.19/gal

**EV Chargers** 









Commissioner, Dist 2 dtoepper@jeffpud.org



Commissioner, Dist 1 jrandall@jeffpud.org

> Board Member since 2016

Board Member since 2018

2023 was a busy and productive year. I extend my deepest gratitude to all JPUD employees, staff and contractors for their dedication and commitment to providing reliable and quality services.

To our customer owners, thank you for your continued support and patience as this burgeoning utility takes steps to grow and succeed.

Your PUD continues to successfully collaborate with local, state, and federal entities to expand opportunities and improve broadband, electric, water and wastewater services countywide.

You have three JPUD line crews and experienced electric division specialists working tirelessly to minimize outages as they upgrade our grid and help to deploy broadband fiber optic service.

Your water/wastewater division works closely with utility stakeholders and several communities to support water and sewer services, old and new.

Retail broadband operations is a focal point for our staff, Customer Service Reps, and installers as we deliver internet service throughout grant funded areas in 2024.

The new year will see PUD organizational structure defined for decades to come as we add and/or train personnel that will contribute to the shaping and delivery of much needed and critical services to every corner of our service area.

Wishing everyone a happy and safe 2024.

I hope 2024 finds you and your family well. In 2023, the PUD's grant-funded 100 kW solar array on our headquarters generated about 118,000 kWh of electricity—enough power to drive an electric truck like our latest all-electric Ford Lightning fleet vehicle about 200,000 miles per year. If you exclude vehicle charging, the solar array will offset about 63% of our office's annual energy use. I look forward to the PUD expanding our electric vehicle fleet and seeking more opportunities to generate clean electricity in coming years.

In 2023 we began building our high-speed fiber network to improve access to the internet for Jefferson County residents. Construction of this network will take years to complete, but retail service to customers begins in 2024. On our fiber network, you'll be able to choose either the PUD or a private company to be your internet service provider (ISP) over the same high-speed network. Looking ahead, the PUD will continue making investments to modernize and improve our electric, water, and sewer systems so that these systems continue to be efficient and reliable.

An important project for the PUD is working with Jefferson County to develop a public sewer to for the Hadlock area. This project is essential to support existing and new commercial businesses and local residents.

# Stay Safe During Storm Season

Storms bring challenging conditions that can impact the entire region. Be prepared with these tips!



#### **KEEP A 3-DAY SUPPLY OF WATER ON-HAND**

Store 3 gallons per person, per day. Store extra to help others and change water yearly.



#### **BATTERIES & FLASHLIGHTS**

Unopened batteries have a 7-year shelf life. Keep headlamps & flashlights on-hand.



# KEEP IT COLD! DON'T OPEN THE FRIDGE

Fridges & freezers are insulated and keep cold better if unopened during outages.



#### **POWER LINE DOWN? STAY AWAY!** Treat any downed power line as if it is live.

**STAY AT LEAST 50 FEET AWAY!** 



#### **FUEL-UP & CHARGE-UP BEFORE A STORM**

Fuel-up vehicles and generators & charge EV's beforehand in case travel is needed.



#### STAY INFORMED VIA MOBILE

Follow the PUD on jeffpud.org, Facebook, **Nextdoor for update postings and info.** 

The Rainy Day Fund helps neighbors in need! Round-up today!

**Jeff Randall** Commissioner D1

**Ken Collins** Commissioner D2

**Dan Toepper** Commissioner D3

**Kevin Streett** General Manager irandall@jeffpud.org kcollins@jeffpud.org dtoepper@jeffpud.org kstreett@jeffpud.org

# EMERGENCY RESOURCE GUIDE



**Jefferson County Emergency Mgmt** 

Phone: (360) 385-9368 Website: bit.ly/jeffcoeoc



# **Jefferson County Sheriff's Office**

Phone: DIAL 9-1-1, Non-Emergency: (360) 385-3831 Website: www.co.jefferson.wa.us/172/Sheriff

# **Port Townsend Police Department**

Phone: DIAL 9-1-1, General Line: (360) 385-2322

Website: www.cityofpt.us/police

# **East Jefferson Fire Rescue**

Phone: DIAL 9-1-1, Non-Emergency: (360) 385-2626

Website: www.ejfr.org
Quilcene Fire Rescue

Phone: DIAL 9-1-1, Non-Emergency: (360) 765-3333

Website: www.quilcenefirerescue.org

**Brinnon Fire Department** 

Phone: DIAL 9-1-1, Non-Emergency: (360) 796-4450

Website: www.brinnonfire.org

**Discovery Bay Volunteer Fire & Rescue** 

Phone: DIAL 9-1-1, Non-Emergency: (360) 379-6839

Website: www.dbvfr.org





# NIXLE TEXT ALERT SYSTEM Sign up for the free public safety text messaging service NIXLE alerts by

Sign up for the free public safety text messaging service NIXLE alerts by texting JEFFCODEM to 888777. Countywide notifications will be sent direct to your mobile device.

# **Jefferson County Roads Maintenance Division**

Phone: Non-Emergency: (360) 385-0890 Roadway Emergency: (360) 344-9779 Website: bit.ly/jeffcosnowandice

# **Washington State Dept of Transportation**

Travel Route Questions: (206) 464-6400 Website: www.wsdot.wa.gov/travel

Social Feeds: Twitter(X): @wsdot / Facebook: WSDOT



**HOOD CANAL BRIDGE INFO** www.wsdot.com/travel **Search: Hood Canal Bridge** 

or scan with smart phone camera





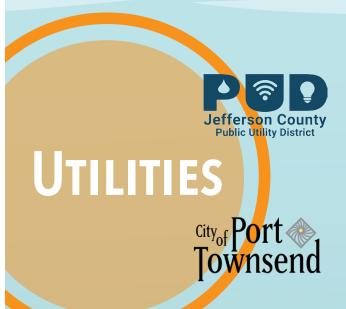




### **Jefferson Transit**

Phone: (360) 385-4777

Website: www.jeffersontransit.com Facebook: Jefferson Transit Authority Twitter(X): @JTAtransit



## **Jefferson County PUD**

Phone: (360) 385-5800 Website: www.jeffpud.org

Facebook: Jefferson County Pud #1

**Nextdoor: Jefferson County Public Utility District** 

# **City of Port Townsend**

Phone: (360) 385-3000 Website: www.cityofpt.us

Snow Info: bit.ly/cityofptsnowremoval

Facebook: City of Port Townsend, WA Government

# **JEFFERSON COUNTY SCHOOL DISTRICTS**



### **Port Townsend School District**

Website: bit.ly/ptschoolswinterweather **Transportation Dept: (360) 302-5812** 



# **Chimacum School District**

Website: bit.ly/chimacumschoolswinterweather Transportation Dept: (360) 302-5890



#### Quilcene School District

Website: bit.ly/quilceneschoolswinterweather Transportation Dept: (360) 765-3363



#### **Brinnon School District**

Website: bit.ly/brinnonchoolswinterweather Transportation Dept: (360) 302-5890

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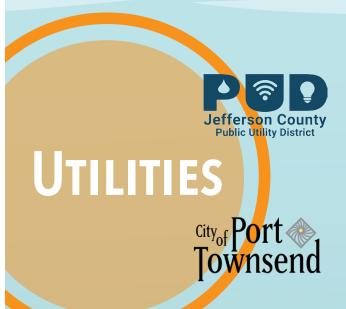




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