### Special Meeting Agenda PUD Board of Commissioners Project Work Update and Executive Session

Friday, October 18, 2024 11:00 AM 310 Four Corners Rd. and per ZOOM Port Townsend, WA 98368 and online via Zoom



**To join online go to:** <a href="https://zoom.us/my/jeffcopud">https://zoom.us/my/jeffcopud</a>. Follow the instructions to login. Meetings will open 10 minutes before they begin. TOLL FREE CALL IN #: 833-548-0282, Meeting ID# 4359992575#. Use \*6 to mute or unmute. \*9 to raise a hand to request to begin speaking.

#### 1. Call to Order

JPUD will be offering both virtual on-line meetings as well as in-person meetings, unless advance notice is provided. Online participant audio will be muted upon entry. Please unmute at the appropriate time to speak. If you are calling in, use \*6 to mute and unmute and\*9 to raise a hand to request to speak.

#### 2. Roll Call

Establishment of Quorum by confirming attendance of commissioners present.

#### 3. Agenda Review

Recommended Action: Approve a Motion to adopt agenda as presented

#### 4. Presentation - PUD Project Plan Work Update

2 - 25

Long-Range Planning presentation Oct 18.pdf @

- 5. Executive Session per RCW 42.30.110 (1) (g) to review the performance of a public employee
- 6. Adjourn

# Long-Range Planning

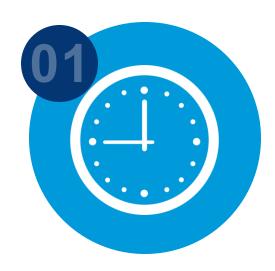
A detailed look at timelines relating to our 2025 project schedule and 4-year workplan.

**Kevin Streett, General Manager** 

310 Four Corners Rd, Port Townsend, WA | July 30, 2024



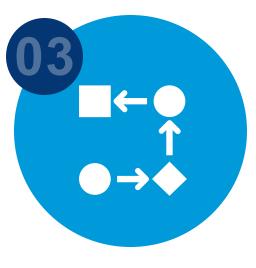
### Today we will cover:



**Timelines** 



**Understanding Funding** 



**Priority Setting** 



### **A** Primer

Planning is key to success.
Utility projects and project success are measured in months and years. Setting and hitting key timeline objectives is the key to long-range planning.

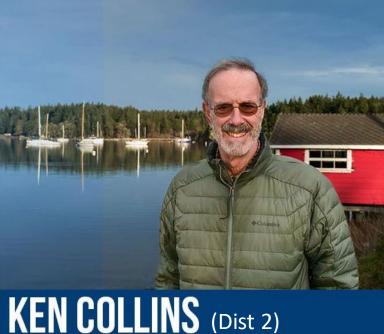
### **Our Commission**

**Jefferson PUD is** guided by three publicly-elected officials who direct based upon the Strategic Plan. **Commissioners** are advised by staff, outside professionals, ruers to guic utility forward. and our customerowners to guide the





DAN TOEPPER (Dist 3)



Connecting our Community

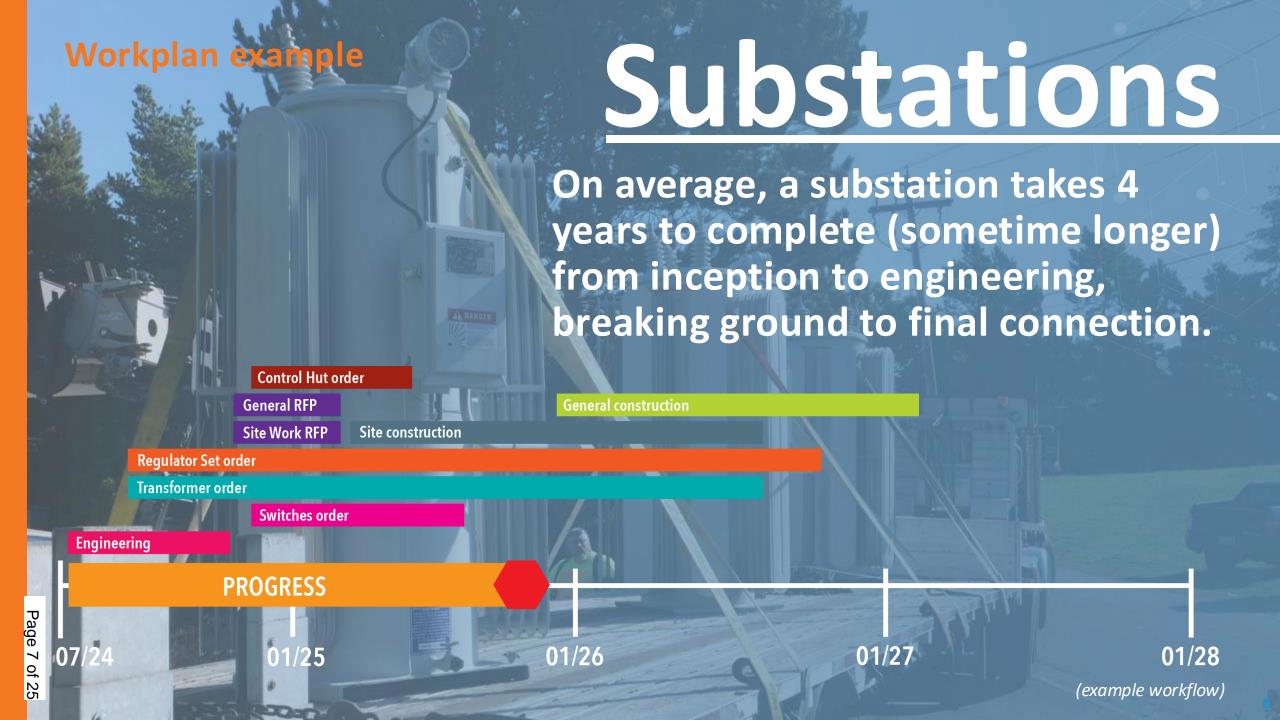


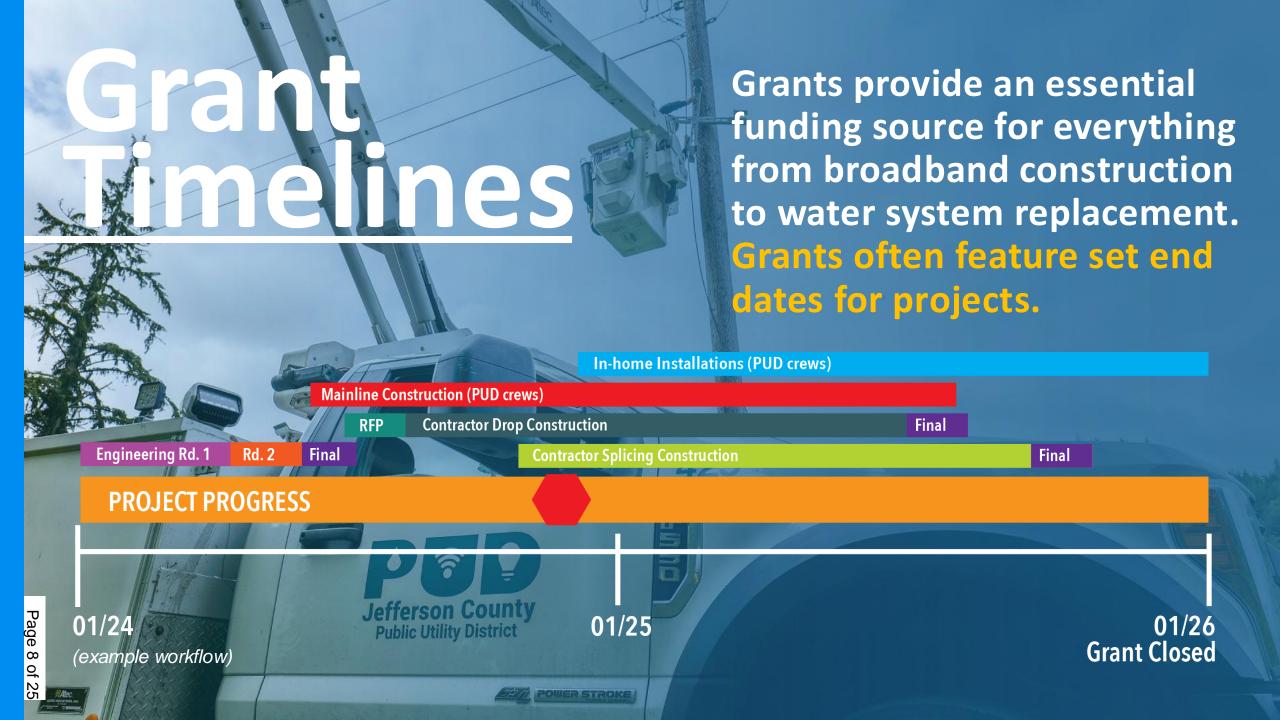
## UNDERSTANDING TIMES

PUD staff work on large-scale projects across all service offerings

Projects often present multiple funding sources, equipment lead time, contractor availability, easement and permitting requirements, and fixed completion dates.

Decision timing is critical. Waiting months to make decisions on large-scale projects only delays timelines and future actions.





# FUNDERSTANDING FUED SEE SOLUTION & SOLUTION

Infrastructure Project

RATES GRANTS

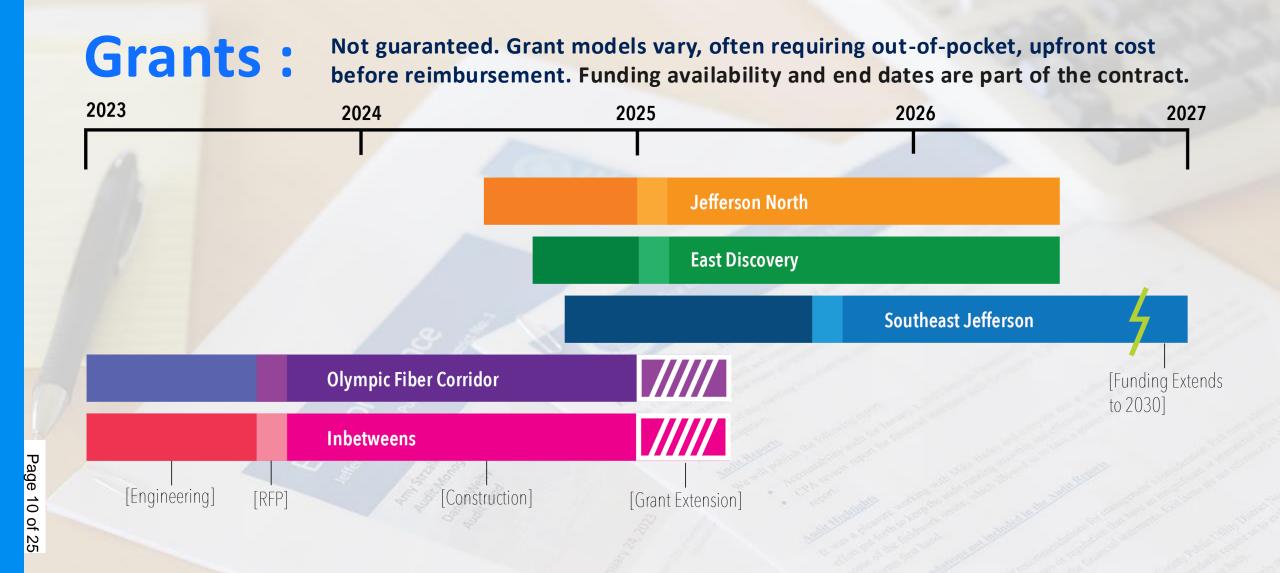
FINANCING

Large-scale projects often require complex funding sources bases upon feasibility studies or board-approved work plans.

**WORKFLOW NOTE:** 

Funding approval decisions are critical. Grant, loan, or appropriation timelines for approval often take months if not years to finalize.

### **Funding Sources**



### **Funding Sources**

**RUS Loan Process:** 

Requires an electric project to be part of the approved 4-year work plan.

- The PUD has 3 months left to go on our work plan.
- Formal approval of the work plan takes ~1 year in Washington DC.

RESP Loans: Rural Energy Saving Programs provide energy efficiency loens from the USDA Rural Development. 3-year process!

# Loan in

#### **Funding Providers:**

Public Works Board Construction Loan & Jefferson County infrastructure grant

#### uilcene Water System

tal project cost: \$3.1M ut-of-Pocket Cost: ~\$1M umber of customers: 40 **WA State Loan:** 

**Utilities can apply for project-specific loans** from the state. Most often loans are used for water projects such as the Quilcene Water System, Coyle Water System, and Shine Plat. Low interest can also apply for broadband, such as the PT Business Fiber zone.

### Funding Sources

### **Appropriations:**

Funding provided by federal or state agencies for particular programs as written into the agency budget.



#### **Example:**

 The PUD is working with the US Navy to design a dedicated undersea feed to the Indian Island Naval Mag (pictured)

### **Bond Market:**

**Revenue Bonds or General Bonds** 

### Understanding Priorities

### Electric:

#### 2025 Calendar Year

Mill Rd (PT) Substation	\$3M
Chimacum Feeders	\$2M
Quilcene Sub	\$1.5M
Port Ludlow Sub	\$1.5M
Port Ludlow Sub Feeders	\$1M
OH-to-UG Olele Point Rd	\$625k
Irondale Bay #2 Feeders	\$450k
UG Line Extensions	\$400k
OH-to-UG Conversions	\$350k
Aging Conductors	\$200k
SCADA Equipment Replace	\$200k
OH Line Extensions	\$175k
New Subdivisions	\$150k
SCADA Master Stations	\$100k
Pole Replacement	\$100k
Wildlife Protection	\$75k

Move Poles for Easement	\$60k
Pole-Mount Transformers	\$50k
Pad-mount Transformers	\$50k
Fencing	\$50k
Easement & Right-of-Way	\$45k
115kV Insulator Replace	\$45k
3-Phase Dist Reclosers	\$40k
Security & Street Lights	\$20k
Meters	\$15k

#### **Total**

\$12,725,000

Item Number	Description	2025	2026	2027	2028	Total
	100 - New Line	Construction				
101	Construct underground distribution line extensions and service runs to serve new customers; single-phase & three-phase. Approximately 50 per year; approximately 3 miles annually.	\$400,000	\$350,000	\$340,000	\$340,000	\$1,430,000
102	Construct overhead distribution line extensions and service lines to serve new customers; single-phase & three-phase. 30 per year; approximately 2 miles annually.	\$174,000	\$135,000	\$135,000	\$135,000	\$580,000
103	Construction for new subdivisions. Approx. 1 per year.	\$150,000	\$150,000	\$150,000	\$ -	\$450,000
New Lir	ne Construction Annual Totals	\$750,000	\$635,000	\$625,000	\$475,000	\$2,460,000
	200 - New Distribution	n Main-Line Cons	struction			
201	Underground feeders out of Irondale Bay #2.	\$450,000	\$200,000	\$ -	\$ -	\$650,000
202	New feeder(s) out of Port Ludlow Substation - Engineering & construction.	\$1,000,000	\$1,500,000	\$3,000,000	\$ -	\$5,500,000
203	Feeder(s) interconnection to new substation - Engineering & construction.	\$ -	\$2,000,000	\$1,000,000	\$1,000,000	\$4,000,000
204	New feeder(s) out of Chimacum Substation - Engineering & construction.	\$2,000,000	\$1,700,000	\$2,000,000	\$ -	\$5,700,000
New Dis	stribution Main-Line Construction	\$3,450,000	\$5,400,000	\$6,000,000	\$1,000,000	\$2,460,000

Item Number	Description	2025	2026	2027	2028	Total					
	300 - Conversion										
301	Convert single-phase to three-phase	\$ –	\$ –	\$200,000	\$150,000	\$350,000					
302	Convert single-phase overhead distribution to underground along Olele Point Road.	\$625,000	\$40,000	\$ –	\$ –	\$665,000					
303	Construct overhead distribution to undergound (general budget).	\$350,000	\$250,000	\$350,000	\$380,000	\$1,330,000					
304	Culvert replacement (State requirement)	\$ -	\$200,000	\$200,000	\$200,000	\$600,000					
Conver	rsion Annual Totals	\$975,000	\$490,000	\$750,000	\$730,000	\$2,945,000					
	400 - New Subst	ations									
401	New substation (Mill Road). Engineering & construction.	\$3,000,000	\$4,000,000	\$4,960,600	\$ –	\$11,960,000					
New Su	bstations Annual Totals	\$3,000,000	\$4,000,000	\$4,960,000	\$1,000,000	\$11,960,000					

Item Number	Description	2025	2026	2027	2028	Total				
500 - Substation Changes										
501	Hastings Substation. Replace aging substation 15kV regulators, bypass switches, and controls.	\$-	\$500,000	\$-	\$-	\$500,000				
502	Irondale Substation. Replace aging substation 15kV regulators, bypass switches, and controls. Install new regulator rack.	\$ -	\$ -	\$500,000	\$ -	\$500,000				
503	New susbtation transformer (spare)	\$ -	\$ -	\$1,700,000	\$ -	\$1,700,000				
504	Quilcene Substation. Engineering & construction.	\$1,500,000	\$9,700,000	\$ -	\$ -	\$11,200,000				
505	Port Ludlow Substation. Engineering & construction.	\$1,500,000	\$2,000,000	\$7,800,000	\$ -	\$11,300,000				
Substat	ion Changes Annual Totals	\$3,000,000	\$12,200,000	\$10,000,000	\$-	\$25,200,000				
	600 - Misc. Distribution	on Equipment								
600.400-1	Marrowstone Island regulator bank.	\$ –	\$150,000	\$ -	\$ –	\$150,000				
601-1	Install new pole-mount transformers to serve new customers. 10 per year.	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000				
601-2	Install new pad-mount transformers to serve new customers. 10 per year.	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000				
601-3	Transformer replacement of aging units.	\$25,000	\$25,000	\$25,000	\$25,000	\$100,000				

Item Number	Description	2025	2026	2027	2028	Total			
600 - Misc. Distribution Equipment, continued									
602-1	Install new three-phase distribution-line reclosers.	\$40,000	\$40,000	\$40,000	\$40,000	\$160,000			
603-1	Install new line regulators.	\$ –	\$150,000	\$ –	\$150,000	\$300,000			
603-2	Regulator replacement of aging units.	\$ –	\$ -	\$150,000	\$ -	\$150,000			
604	Pole replacement. 20 per year.	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000			
605	Replacing aging conductors.	\$200,000	\$175,000	\$150,500	\$354,500	\$880,000			
606	Wildlife protection.	\$75,000	\$25,000	\$25,000	\$25,000	\$150,000			
Misc. D	istribution Equipment Annual Totals	\$540,000	\$615,000	\$590,500	\$794,500	\$2,540,000			
	700 - Other Distrik	oution Items							
700.004	SCADA Field equipment.	\$200,000	\$100,000	\$100,000	\$100,000	\$500,000			
700.005	SCADA Master stations(s).	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000			
701	Security and street lighting.	\$20,000	\$20,000	\$10,000	\$20,000	\$70,000			

Item Number	Description	2025	2026	2027	2028	Total			
	700 - Other Distribution Items, continued								
702	Meters.	\$15,000	\$10,000	\$10,000	\$10,000	\$45,000			
Misc. D	Misc. Distribution Equipment Annual Totals \$35,000 \$30,000 \$20,000 \$30					\$115,000			
1000 - Transmission Line and Station Changes									
1001	Move transmission poles for easements.	\$60,000	\$ –	\$60,000	\$160,000	\$280,000			
1002	Irondale Substation. Transmission relays replacement (new)	\$-	\$100,000	\$80,000	\$ –	\$180,000			
1003	115kV Insulator replacement. 10 poles per year.	\$45,000	\$45,000	\$45,000	\$45,000	\$180,000			
Transn	nission Line and Station Changes Annual Totals	\$105,000	\$145,000	\$185,000	\$205,000	\$640,000			
	1100 - Other Tran	nsmission Items							
1101	Easements and right-of-way.	\$45,000	\$25,000	\$ –	\$80,000	\$150,000			
Transm	nission Line and Station Changes Annual Totals	\$45,000	\$25,000	\$-	\$80,000	\$150,000			
	1200 - Commu	inications							
1201	Fiber line extensions.	\$ -	\$ –	\$ –	\$ -	\$ –			
Comm	unications Annual Totals	\$-	\$ -	\$ -	\$-	\$-			

Item Number	Description	2025	2026	2027	2028	Total				
1300 - Headquarters Facilities										
1301	Fuel tanks.	\$ –	\$ 205,000	\$100,000	\$ -	\$305,000				
1302	Fencing.	\$50,000	\$ –	\$25,000	\$100,000	\$175,000				
1303	Laydown yard expansion and building.	\$500,000	\$2,000,000	\$1,500,000	\$ –	\$4,000,000				
Headq	uarters Facilities Annual Totals	\$550,000	\$2,205,000	\$ 1,625,000	\$100,000	\$4,480,000				
	Annual	Totals								
2025 -	2028 Plan of Service Annual Cost	\$12,425,000	\$25,745,000	\$24,756,100	\$3,414,500	\$66,340,600				

# Priorities

### Broadband:

#### 2025 Calendar Year

Fiber	\$9,655,334
Engineering	\$1,699,975
Drops	\$1,527,980
Contingency	\$1,018,357
ONT's	\$771,247
Core PON	\$210,134
Huts/Building	\$163,506
Consulting	\$125,529

#### Total

\$15,172,062

#### **Estimate Includes**

Contractor Bids Fiber Reel & Equipment Costs

The 2025 Broadband budget spans multiple buildout areas as some projects near completion and others begin. Each area features unique funding mechanisms requiring organization across multiple departments including customer service (billing), operations, communications, and finance.

# Priorities



### Water:

#### 2025 Calendar Year

Coyle Main Replacement	\$2.6M
Quimper Upsizing	\$383,382
Bywater Main Looping	\$183,002
Pipeline Replacement	\$175,683
Coyle Dist Replacement	\$146,402
Seismic Retrofitting for tanks	\$14,641
Wastewater Capital Work	\$13,800
Snow Creek Power	\$8,784
Replace ATEC Media Filter	\$7,320
Valve Retrofit of ATEC	\$7,320
SCADA Upgrades	\$7,320
Tank Inspection	\$7,320
Tank Cleaning/Painting	\$7,320
Well Cleaning	\$7,320

#### **Total**

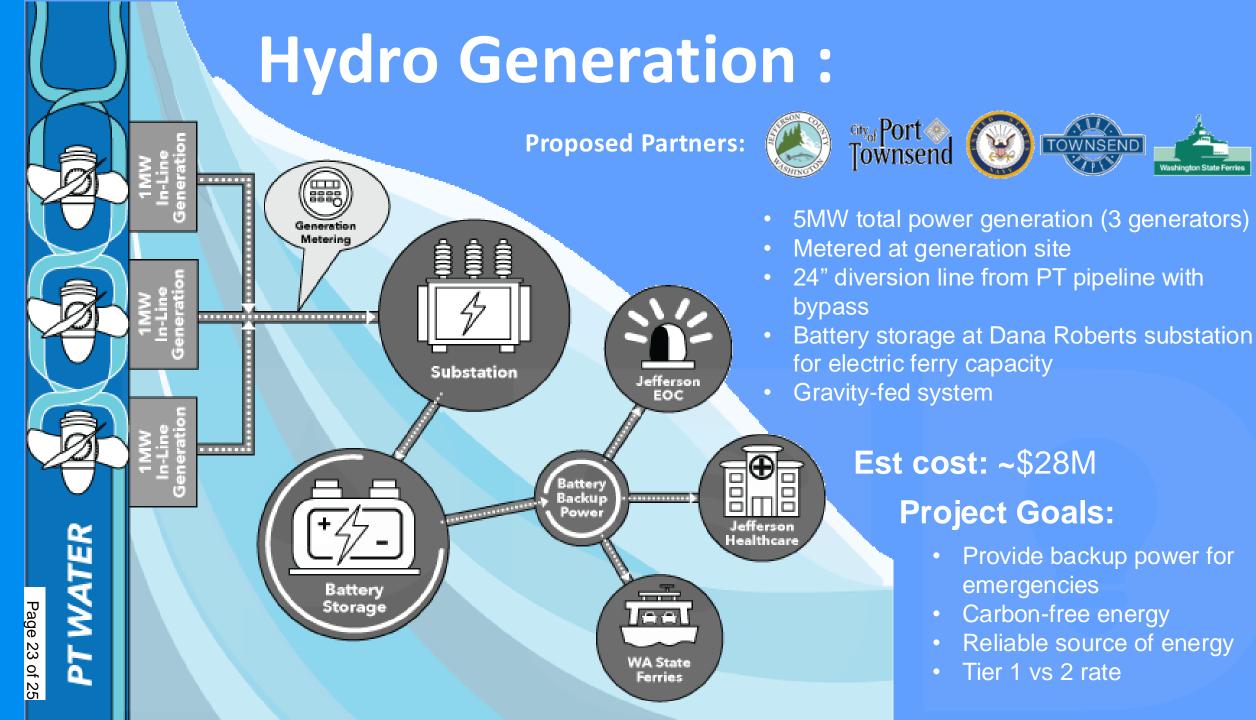
\$3,647,551

		Total Cost (2018 dollars)	Financing Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031 and Beyond
Bywater E	Bay	(2018 donars)	Source	2021	2022	2023	2024	2025	2026	2021	2028	2029	2030	seyond
Source	e / Pumping / Treatment													
B-P-1	Well #1 Portable Generator	\$20,000			\$20,000									
B-P-2 B-P-3		\$8,000 \$25,000	Rates		\$6,000			_		\$25,000				
B-P-4		\$35,000		\$35,000						\$20,000				
B-P-5	Booster pump on Shine Road and Harbor View Dr.	\$31,000	Rates	\$31,000										
Distrib	Shine Plat LUD Distribution Piping Replacement	\$400,000		\$200,000	\$200,000									
B-0-1		\$400,000	LUD	\$200,000	\$200,000									
0-0-2	Rd, under SR-104	\$125,000	Rates					\$125,000						
Gardiner	200000000000000000000000000000000000000													4
	e / Pumping / Treatment													
	Gardiner Well Portable Generator	\$25,000 \$6,000				\$25,000 \$6,000			_					
G.P.3	Gardiner Well Emergency Power Connections Replacement Well Pump and Upgrade Controls	\$80,000			\$80,000	30,000								
Distrib	ution	400,000	1.44.00		900,000									
G-D-1	Pipe Looping - East End		Developer											\$65,000
G-D-2	Pipe Looping - West End	\$100,000	Developer								-	_		\$100,000
Coyle	e / Pumping / Treatment													
C-P-1	Fire Pump	\$50,000	Rates			\$50,000								
Distrib	ution					A STORES								
	Transmission Line Replacement	\$55,000		\$55,000										
C-D-2	Distribution Plping Replacement	\$1,000,000	Rates			-		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Married Lane														
R-P-1	e / Pumping / Treatment Addition of fire pump to Ocean Grove BPS	\$95,000	Rates				\$95,000							
R-P-2	New domestic demand BPS	\$40,000	Rates						\$40,000					
R-P-3	New domestic demand BPS	\$40,000								\$40,000				
R-P-4	New 4-inch pipe (1,500 LF) and new domestic demand BPS		0-1								0475.05			
R-P-5		\$175,000	reates								\$175,000			
	BPS	\$130,000										\$130,000		
R-P-6	Sparling II Treatment Building Air Compressor	\$5,000	Rates		\$5,000							2.00,000		
R-P-7	Phase II Treatment Upgrades	\$50,000	Rates		100000	\$50,000								
Storag	New Clas Core Starons T1	84 *** ***	Dates								20.000.00	20.005.00		
R-S-1 Distrib	New Glen Cove Storage Tank	\$4,650,000	Rates/Loans								\$2,325,000	\$2,325,000		
	New PRV station	\$80,000	Rates						\$80,000					
	Reconfiguring pressure zones at Beckett Point using								400,000					
	existing piping and valves	\$2,000	Rates		\$2,000									
R-0-4					737700000									
R-D-5	flows from new Glen Cove Storage Tank Upsizing 6-inch to 10-inch (7,300 LF)	\$289,000 \$569,000					\$569,000					\$289,000		
R-D-6	Reconfiguring pressure zones along Cape George Rd	\$569,000	reates				\$009,000							
	and Huntington St using existing piping and valves	\$2,000	Rates		\$2,000									
R-D-7	Upsizing 4-inch to 8-inch (360 LF), Center Rd near													
-	Beaver Valley Rd	\$28,000	Rates		\$28,000									
R-D-8	Upsizing 2-inch to 6-inch (940 LF) and new 6-inch (2,520 LF) to make pipe loop	\$270,000	Dotor					\$270,000						
R-D-9	Upsizing 4-inch to 6-inch (1,200 LF)	\$94,000						\$270,000	\$94,000					
	0 Upsizing 6-inch to 8-inch (2,300 LF)	\$179,000							40.,000	\$179,000	000000			
R-D-11	1 New 6-inch pipe (350 LF) to make pipe loop	\$27,000	Rates								\$27,000			
R-D-12	2 New 6-inch pipe (30 LF) to make pipe loop	\$5,000										\$5,000		
	3 Upstring 8-inch to 12-inch (12,000 LF)	\$936,000	Developer									-	- 1	\$936,000
Lazy C	s / Pumping / Treatment													
L-P-1	Emergency Well Upgrades (Well 1 or 2 chlorination			100.000										
3.89%	tank, shed)	\$22,000	Rates	\$22,000										
Triton Co	ve													
Source	e / Pumping / Treatment Well #2 Portable Generator	\$20,000					\$20,000							
T.D.2	Well #2 Emergency Power Connections		Rates				\$6,000							
T-P-3	Williams Addition Wellhouse	\$10,000	Rates	\$10,000			90,000							
Snow Cre		\$10,000		710,000						- 0			0 03	4
Source	e / Pumping / Treatment													
0.0.4	Well Emergency Power Connections Wellhouse Replacement	\$6,000		*****				\$6,000						
	vveinouse Replacement	\$179,500	Rates	\$179,500										
S-P-2												- 4		
Mats View	e / Pumping / Treatment													
Mats View	e / Pumping / Treatment Well BPS Emergency Power Connections	\$6,000	Rates		\$6,000									
Mats View Source M-P-1	v Terrace e / Pumping / Treatment Well BPS Emergency Power Connections	\$6,000	Rates		\$6,000									
Mats View Source M-P-1 Quilcene Source	e / Pumping / Treatment Well'BPS Emergency Power Connections e / Pumping / Treatment	=			\$6,000						73			
Mats View Source M-P-1 Quilcene Source Q-P-1	e / Pumping / Treatment Well BPS Emergency Power Connections  e / Pumping / Treatment Source 2 Development	\$5,000	Rates	\$5,000	\$6,000									TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2	e / Pumping / Treatment Well'BPS Emergency Power Connections e / Pumping / Treatment Source 2 Development New larger pump at USFS well	\$5,000 \$15,000	Rates Rates	\$5,000 \$15,000	\$6,000									TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3	/ Pumping / Treatment     Well'BPS Emergency Power Connections     / Pumping / Treatment     Source 2 Development     New larger pump at USFS well     Culicone Well Emergency Power Connections	\$5,000 \$15,000	Rates	\$5,000 \$15,000	\$6,000	\$6,000								TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag	/ Pumping / Treatment Well BPS Emergency Power Connections  e / Pumping / Treatment Source 2 Development New larger pump at USFS well Culicene Well Emergency Power Connections pe	\$5,000 \$15,000 \$6,000	Rates Rates Rates	\$15,000		\$6,000								TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag	/ Pumping / Treatment     Well'BPS Emergency Power Connections     / Pumping / Treatment     Source 2 Development     New larger pump at USFS well     Culicone Well Emergency Power Connections	\$5,000 \$15,000 \$6,000	Rates Rates	\$15,000	\$6,000	\$6,000								TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1	/ Pumping / Treatment   Well BPS Emergency Power Connections   Pumping / Treatment   Source 2 Development   Source 2 Development   Source 2 Development   Culicene Well Emergency Power Connections   Source 2 Development   New Quitcene Storage Tank   Culicene Storage Tank	\$5,000 \$15,000 \$6,000 \$2,460,000	Rates Rates Rates Rates/Grants	\$15,000 \$460,000		\$6,000								TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other Q-O-1	/ Pumping / Treatment  Well BPS Emergency Power Connections  e / Pumping / Treatment Source 2 Development New larger pruma at USFS well Quilcene Well Emergency Power Connections  e  New Quilcene Storage Tarik  SCADA Repiacement - Trilon Cove, Lazy C, Quilcene	\$5,000 \$15,000 \$6,000	Rates Rates Rates Rates/Grants	\$15,000		\$6,000								TBO
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other Q-O-1	/ Pumping / Treatment Well EPS Emergency Power Connections  / Pumping / Treatment Source 2 Development New larger prima at USF'S well Quilcene Well Emergency Power Connections  / New Quilcene Storage Tarik  SCADA Repiacement - Triton Cove, Lazy C, Quilcene D-Wide Projects  Pipeline Repiacement - Coyle and Others	\$5,000 \$15,000 \$6,000 \$2,460,000	Rates Rates Rates Rates/Grants	\$15,000 \$460,000	\$2,000,000	\$6,000 \$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other Q-O-1 her PUI O-1	/ Pumping / Treatment Well BTS Emergency Power Connections  / Pumping / Treatment Source 2 Development Source 2 Development Well arger pump at USFS well Culicene Well Emergency Power Connections  / Power Culicene Storage Tark  SCADA Repiacement - Trilon Cove, Lazy C, Quilcene Devide Projects Pipeline Replacement - Coyle and Others  WSDOT Justic Coordination projects  / Power Replacement - Coyle and Others  WSDOT Justic Coordination projects	\$5,000 \$15,000 \$8,000 \$2,460,000 \$15,000 \$1,135,000 \$160,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$160,000	\$2,000,000	\$120,000	1000000							TBD
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storeg Q-S-1 Other Q-O-1 her PUI O-2 O-3	/ Pumping / Treatment Well BPS Emergency Power Connections  / Pumping / Treatment Source 2 Development New larger prima at USFS well Quilcene Well Emergency Power Connections  / Power Connections  / New Quilcene Storage Tark  SCADA Replacement - Trilon Cove, Lazy C, Quilcene D-Wide Projects WSDOT culvert coordination projects WSDOT culvert coordination projects WSDOT culvert coordination projects	\$5,000 \$15,000 \$6,000 \$2,460,000 \$15,000 \$160,000 \$50,000	Rates Rates Rates/Grants Rates Rates Rates Rates Rates Rates Rates Rates	\$15,000 \$460,000 \$15,000 \$55,000	\$2,000,000		\$5,000	\$120,000 \$5,000	\$120,000 \$5,000	\$120,000 \$5,000	\$120,000 \$5,000	\$5,000	\$5,000	TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storeg Q-9-1 Other Q-0-1 her PUI O-1 O-2 O-3 O-4	/ Pumping / Treatment Well BTS Emergency Power Connections  / Pumping / Treatment Source 2 Development Source 2 Development Well arger pump at USFS well Quicene Well Emergency Power Connections  / Power Quicene Storage Tark  SCADA Repiacement - Triton Cove, Lazy C, Quicene D-Wide Projects Pipeline Repiacement - Coyle and Others  WSDOT Juker Coordination projects Well Rehabilitation (cleaning) Replacement Well Drilling Replacement Well Drilling Replacement Well Drilling	\$5,000 \$15,000 \$8,000 \$2,460,000 \$15,000 \$160,000 \$50,000 \$180,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$160,000	\$2,000,000	\$120,000 \$5,000	1000000				\$5,000			TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storeg Q-S-1 Other Q-O-1 her PUI O-2 O-3 O-4	If / Pumping / Treatment Well EPS Emergency Power Connections  If / Pumping / Treatment Source 2 Development Source 2 Development Well Emergency Power Connections  If / Pumping / Treatment  Source 2 Development  Oulicene Well Emergency Power Connections  If / Pumping / Pumpi	\$5,000 \$15,000 \$6,000 \$2,460,000 \$15,000 \$160,000 \$50,000 \$180,000 \$40,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000	\$2,000,000 \$120,000 \$5,000	\$120,000 \$5,000 \$20,000	\$5,000 \$60,000	\$5,000	\$5,000	\$5,000	\$5,000 \$20,000	\$5,000 \$60,000	\$5,000 \$60,000	TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storeg Q-S-1 Other Q-O-1 her P-1 O-2 O-3 O-4 O-5	/ Pumping / Treatment Well BTS Emergency Power Connections  / Pumping / Treatment Source 2 Development Source 2 Development Well arger pump at USFS well Culicene Well Emergency Power Connections  / Power Coulcene Storage Tark  SCADA Repiacement - Trilon Cove, Lazy C, Quilcene D-Wide Projects Pipeline Replacement - Coyle and Others Well Rehabilitation (cleaning) Replacement Well Driling Booster Pump Replacement (with VFD) Tark Ceaning Pacting	\$5,000 \$15,000 \$8,000 \$2,460,000 \$15,000 \$1,135,000 \$160,000 \$50,000 \$180,000 \$40,000 \$50,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000	\$5,000 \$60,000 \$5,000	\$5,000 \$5,000	\$5,000 \$5,000	\$5,000 \$5,000	\$5,000 \$20,000 \$5,000	\$5,000 \$60,000 \$5,000	\$5,000 \$60,000 \$5,000	TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other Q-O-1 Ner PUI O-3 O-3 O-4 O-5 O-6 O-7	/ Pumping / Treatment Well BPS Emergency Power Connections  / Pumping / Treatment Source 2 Development New larger pump at USFS well Quilcene Well Emergency Power Connections  / Power Connection  / P	\$5,000 \$15,000 \$6,000 \$15,000 \$15,000 \$160,000 \$40,000 \$40,000 \$50,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000	TBD
Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storeg Q-S-1 Other Q-O-1 her P-1 O-2 O-3 O-4 O-5	## / Pumping / Treatment Well BPS Emergency Power Connections  ## / Pumping / Treatment Source 2 Development Source 2 Development Well Berger	\$5,000 \$15,000 \$8,000 \$2,460,000 \$15,000 \$1,135,000 \$160,000 \$50,000 \$180,000 \$40,000 \$50,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000 \$10,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000	\$5,000 \$60,000 \$5,000	\$5,000 \$5,000	\$5,000 \$5,000	\$5,000 \$5,000	\$5,000 \$20,000 \$5,000	\$5,000 \$60,000 \$5,000	\$5,000 \$60,000 \$5,000	TBD
Source M-P-1   Quilcene Source M-P-1   Q-P-2 Q-P-3   Storag Q-S-1   Other   Q-P-1   Other   Q-P-1   O-2   Q-P-1   O-5   Q-P-1   O-5   Q-P-1   O-7   Q-P-1	### / Pumping / Treatment  ### (Well BPS Emergency Power Connections  ### / Pumping / Treatment  ### Source 2 Development  ### Source 2 Development  ### Source 2 Development  ### Culicene Well Emergency Power Connections  ### Well Connections  ### Power Connections  ### SCADA Repiscement - Trition Cove, Lazy C, Quilcene  ### Development  ### SCADA Repiscement - Coyle and Others  ### SDOT Cukwell Drilling  ### Booster Pump Replacement (with VFD)  ### Tank Ceaning Pacifica  ### SCADA Upgrades  #### SCADA Upgrades  #### SCADA Upgrades  #### ### Tank Pacifica  ### ### Tank Pacifica  #### ### ### Tank Pacifica  #### ### ### ### ### ### ### ### ###	\$5,000 \$15,000 \$2,460,000 \$15,000 \$15,000 \$15,000 \$160,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	TBD
Source Source M-P-1 Quilcene Source Q-P-1 Q-P-3 Storag Q-S-1 Other PUI O-1 O-2 O-3 O-4 O-5 O-6 O-7 O-8 O-9 O-10 O-11	/ Pumping / Treatment Well BPS Emergency Power Connections  / Pumping / Treatment Source 2 Development New larger pump at USFS well Quilcene Well Emergency Power Connections  / Per Well Connections  / Well Connection Projects  WisDOT outwert coordination projects  WisDOT outwert coordination (cleaning)  Replacement Well Drilling  Boooster Pump Replacement (with VFD)  Tank Ceaning Parting  Tank Inspection  Selamic Retrofitting of Tanks  SCADA Upgrades  Retrofit Valves on ATEC Media Filter Systems  Replacement of ATEC Media Filters	\$5,000 \$15,000 \$2,460,000 \$1,135,000 \$11,355,000 \$40,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000	Rates	\$15,000 \$460,000 \$15,000 \$15,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$6,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000	TBD
Source Source Source Source Source Source Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other PUI O-1 Q-0-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q	### / Pumping / Treatment  ### (Well BPS Emergency Power Connections  ### / Pumping / Treatment  ### Source 2 Development  ### Source 2 Development  ### Source 2 Development  ### Culicene Well Emergency Power Connections  ### New Quicene Storage Tank  ### SCADA Repiscement - Trition Cove, Lazy C, Quicene  ### Development  ### SCADA Repiscement - Coyle and Others  ### SDOT Cukwell Drilling  ### Booster Pump Replacement (with VFD)  ### Tank Ceaning Pacifica  ### Tank Ceaning Out Tanks  ### SCADA Upgrades  ### Report I Values on ATEC Media Filter Systems  Replacement of ATEC Media Filter  *### Paccommissioning of Various Wells  #### Paccommissioning of Various Wells	\$5,000 \$15,000 \$6,000 \$2,460,000 \$15,000 \$160,000 \$60,000 \$40,000 \$50,	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	TBO
Mats View Source M-P-1 Quilcene Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other PUI O-1 O-2 O-3 O-4 O-5 O-6 O-7 O-8 O-9 O-10 O-11 O-12 O-13	If Pumping / Treatment Well BTS Emergency Power Connections  If Very Part Park Park Source 2 Development Source 2	\$5,000 \$15,000 \$2,460,000 \$1,150,000 \$1,150,000 \$40,000 \$40,000 \$50,00	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	ТВО
Source Source Source Source Source Source Source Q-P-1 Q-P-2 Q-P-3 Storag Q-S-1 Other PUI O-1 Q-0-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q-1 Q	### / Pumping / Treatment  ### (Well BPS Emergency Power Connections  ### / Pumping / Treatment  ### Source 2 Development  ### Source 2 Development  ### Source 2 Development  ### Culicene Well Emergency Power Connections  ### New Quicene Storage Tank  ### SCADA Repiscement - Trition Cove, Lazy C, Quicene  ### Development  ### SCADA Repiscement - Coyle and Others  ### SDOT Cukwell Drilling  ### Booster Pump Replacement (with VFD)  ### Tank Ceaning Pacifica  ### Tank Ceaning Out Tanks  ### SCADA Upgrades  ### Report I Values on ATEC Media Filter Systems  Replacement of ATEC Media Filter  *### Paccommissioning of Various Wells  #### Paccommissioning of Various Wells	\$5,000 \$15,000 \$6,000 \$2,460,000 \$15,000 \$160,000 \$60,000 \$40,000 \$50,	Rates	\$15,000 \$460,000 \$15,000 \$55,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$2,000,000 \$120,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000 \$5,000	\$120,000 \$5,000 \$20,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$20,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	\$5,000 \$60,000 \$5,000 \$5,000 \$10,000 \$5,000 \$5,000	TBO

# WATER System Plan

In 2022, the PUD approved a 10-year work plan for our water division. The work plan, and expansion of the plan, help the utility and funding agencies identify projects for capital improvement.

SHOWN: 10-Year Water System Plan, Chapter 8



Teamwork and the ability to move projects forward according to varying timelines are key.

Our workforce and internal communication will be key. Pairing staff with ownership of an appropriate project is essential.

Outsourcing of projects will be necessary, and providing our staff with the necessary tools to oversee contractors will be key.

Connecting our Community

### Questions?



Connecting our Community