

# Joint Commission Meeting

04/27/2026

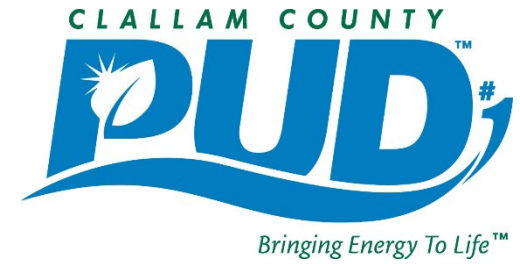
Agenda Item H

Bowen Kendrick - Director of Water & Wastewater

Shailesh Shere – Assistant General Manager



# CBCQ Water System Projects



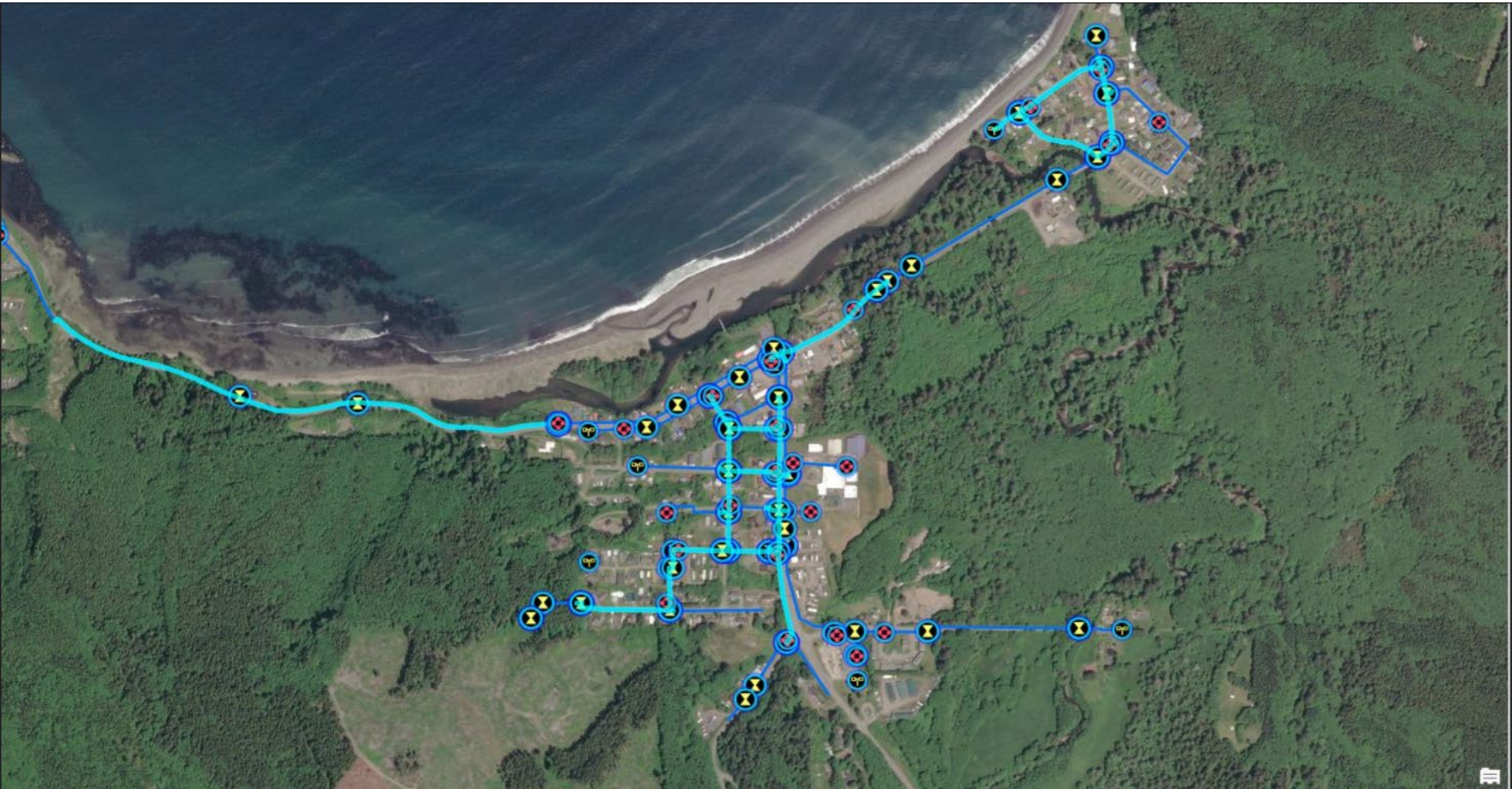
## Sekiu Water Mains Replacement



# CBCQ Water System Projects



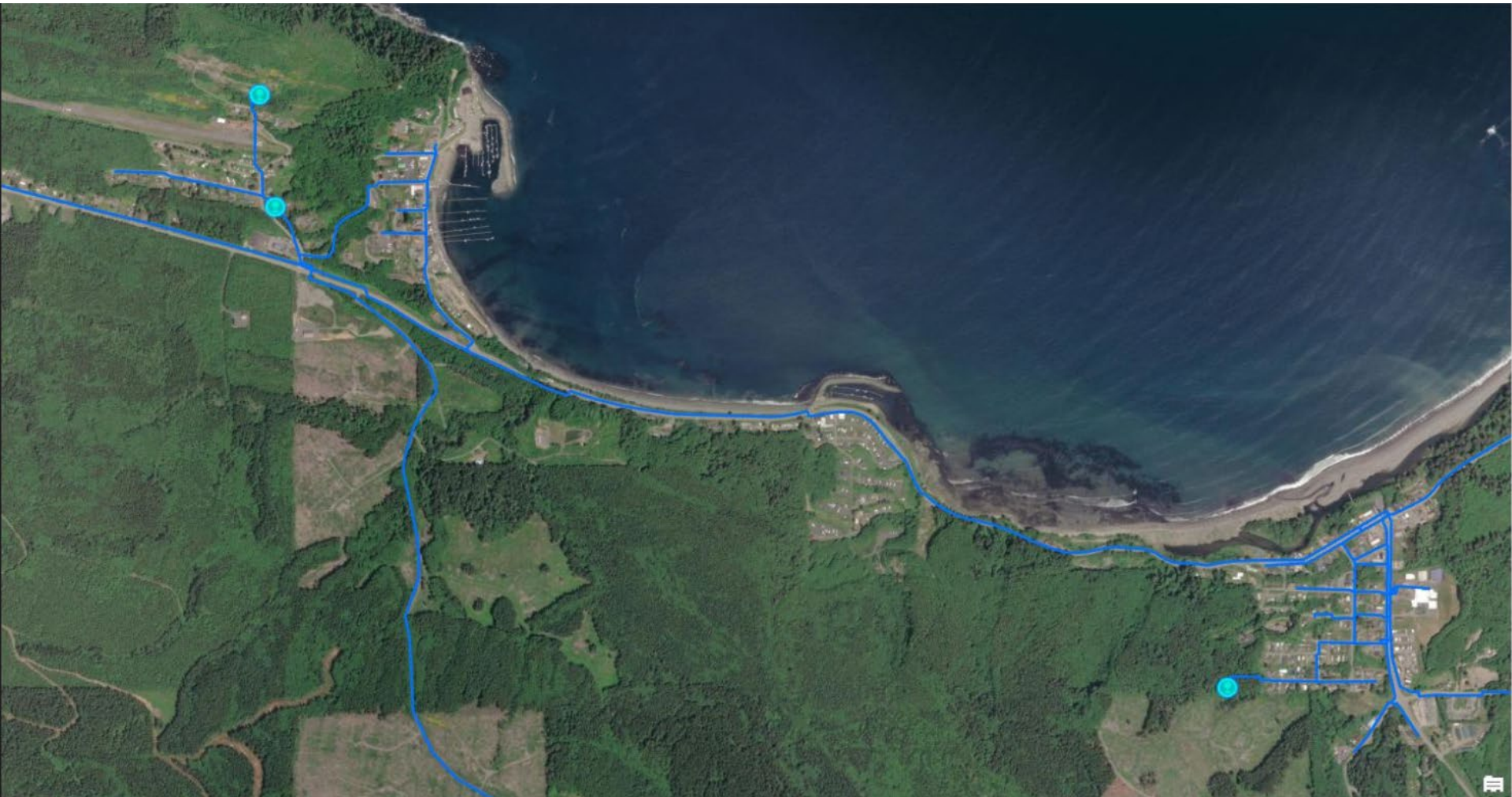
## Clallam Bay Water Mains Replacement



# CBCQ Water System Projects



## Reservoirs Replacement/Rehab



# Electric Projects –

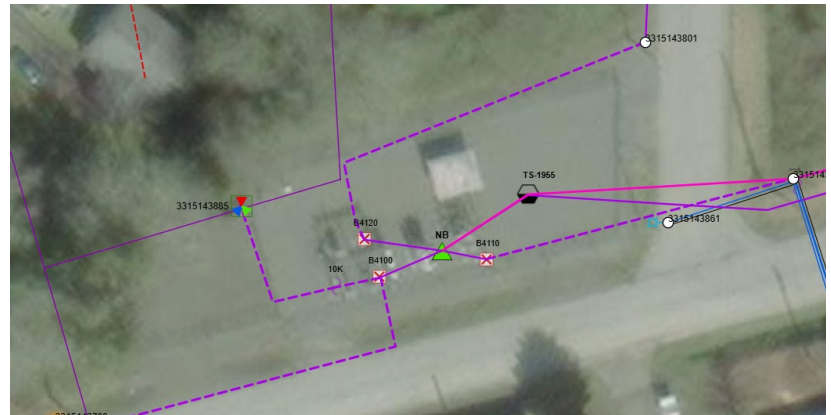
## Burnt Mountain Pole Replacements

- Transmission Poles Replacement
- Along SR 113 between Hwy 101 and SR 112
- Wood to Fiberglass
- 2025 – 44 Poles
- 2026 – 73 Poles



# Electric Projects – Neah Bay Substation

- Transformer Replacement
- Upgrade to 10MVA
- Circuit Switcher Replacement



# QUESTIONS?





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Shailesh Shere – Assistant General Manager



# Grant Program Overview



*Grant activity and results since grant-seeking began in September 2023*

Total Competitive  
Grants Awarded

**\$43.6M**

*since 2023*

Active Grant  
Funds Secured

**\$12.5M**

*active awards*

In Funding  
Pipeline

**\$27.7M**

*pending decision*





# Grant Program Overview

## Funded Projects – Closed Out

Project	Description	Funder	Award
Sequim Substation Microgrid Design – Clean Energy Fund	<i>Design phase – innovative, independent microgrid</i>	Commerce	<b>\$128,000</b>
Low Income Community Solar Tax Credit – Admin Bldg.	<i>Community solar installation at admin site</i>	WSU Energy	<b>\$252,080</b>
Low Income Community Solar Tax Credit – Engineering	<i>Community solar installation at engineering annex</i>	WSU Energy	<b>\$126,562</b>
Clallam Bay Pump Station Relocation Technical Assistance	<i>Received FEMA Direct Technical Assistance</i>	FEMA	Non-monetary
Clallam County HEAR Project (2024–25)	<i>Home Energy Appliance Rebates for low-income customers</i>	Commerce	<b>\$426,146</b>
Clean Energy Innovation Fellowship	<i>DOE Clean Energy Innovation Fellow focused on research and policy placed at PUD</i>	US Dept. of Energy	Non-monetary
WA Family Clean Energy Credits Program	<i>Financial assistance for low-income families</i>	Commerce	<b>\$1,318,938</b>
Clallam PUD Utility F.B.R. Relocations	<i>Pole relocations necessitated by fish barrier installations</i>	Commerce	<b>\$170,000</b>
Ecology Drought Response – Island View Water Trucking	<i>Water trucking for drought-impacted water system</i>	Ecology	<b>\$154,867</b>
<b>TOTAL CLOSED-OUT AWARDS</b>			<b>\$2,576,594</b>





# Grant Program Overview

## Funded Projects – Active Awards

Project	Description	Funder
Smart Meter / AMI Pilot Project – Small Scale Efficiency	<i>Install 440 smart Phase I digital smart meters</i>	Bureau of Reclamation
DEED Medical Equipment Backup	<i>Back-up power units for 50 medically vulnerable, low-income customers</i>	APPA
Grid Hardening Project – WA Grid Resilience	<i>Transmission and substation upgrades</i>	Commerce
Fire Prevention Project – WA Grid Resilience	<i>Pole replacements and vegetation removal in high wildfire risk areas</i>	Commerce
Electrical Undergrounding – WA Grid Resilience	<i>Underground cable infrastructure upgrades</i>	Commerce
Utility Pole Management - WA Grid Resilience	<i>Utility pole relocation and infrastructure upgrades</i>	Commerce
AED Upgrades	<i>Discount program for replacing AED devices</i>	AED Grant
PWB* Match – Pre-Construction Clallam Bay/Seki	<i>Infrastructure pre-construction loan match</i>	Commerce
PWB* Match – Clallam /Seki Reservoir Improvements	<i>Reservoir improvements loan match</i>	Commerce
<b>TOTAL ACTIVE AWARDS</b>		

*\*Commerce Public Works Board Loan Program matching grant funds*



# Grant Program Overview

## Funding Pipeline – Pending Decisions

Project	Description	Funder	Request
WA Grid Resilience - Grid Hardening Phase 2	<i>Phase 2 grid infrastructure upgrades</i>	Commerce	\$3,000,000
Clallam County HEAR Project Round 1 (2025–26)	<i>Phase 2 Home Energy Appliance Rebates for low-income customers</i>	Commerce	\$1,200,000
Port Angeles Operations Center Construction	<i>Construction of higher capacity and more resilient operations center</i>	Commerce/FEMA BRIC	\$20,000,000
Port Angeles Composite Transmission Tie	<i>Water main improvements near Ennis Creek</i>	Commerce/FEMA BRIC	\$3,487,500
<b>TOTAL PIPELINE REQUESTS</b>			<b>\$27,687,500</b>

- PUD Water has relied heavily on PWB loans since 2019.
- Future access to PWB capital is uncertain leaving primarily federal funding sources
  - EPA/DOH DWSRF, EPA (WIFIA), USDA (ECWAG/RD), USBR Watersmart, FEMA BRIC, etc.)





QUESTIONS?





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Bowen Kendrick - Director of Water & Wastewater

Shailesh Shere – Assistant General Manager



# Evaluate Current Demand



## ERU Demand planning figures:

Table 2-8 | ERU Planning Values Summary

Water System	ERU <sub>ADD</sub> (gpd/ERU)	MDD Peaking Factor	ERU <sub>MDD</sub> (gpd/ERU)
PA Composite	153.0	2.02	309.2
Clallam Bay-Sekiu	96.8	1.63	158.0
Island View	68.5	2.27	155.5
Carlsborg	135.6	2.69	365.0
Evergreen	208.3	2.62	546.5
Panoramic Heights	117.4	2.11	248.0

Table 2-9 2026 ERUs

Water System	ERURES	ERUCOM	ERUDSL
PA Composite	3422	612	717
Clallam Bay/Sekiu	330	1560	226
Island View	31	21	11
Carlsborg	247	262	66
Evergreen	775	9	71
Panoramic Heights	20	0	2



# Evaluate Water System Capacity

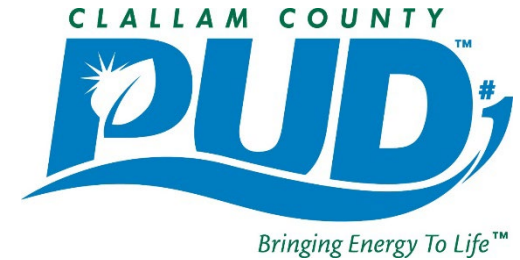


## Capacity analysis:

1. Compare current and future system capacity to demands.
2. Considers, ADD, MDD, PHD & FF against:
  - ✓ Water rights
  - ✓ Source of supply
  - ✓ Treatment
  - ✓ Pumping
  - ✓ T & D
  - ✓ Storage



# Evaluate Water System Capacity



System Component	Total Existing Capacity	Units	ERU Planning Value (Unit/ERU)	ERU Capacity	Projected ERUs		
					2026	2035	2045
<b>Clallam Bay - Sekiu</b>							
Water Rights (Qi)	810,720	GPD	158	5,131	2,117	2,207	2,316
Water Rights (Qa)	400	ac-ft/yr	0.11	3,689			
Source	864,000	GPD	158	5,468			
Storage	213,102	gal	271	786	959	1,049	1,159



# Develop 20-yr Growth Forecast



	10-Year Planning Period					20-Year Planning Period															
	Year	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
<b>Clallam Bay - Sekiu Water System</b>																					
Residential ERU Projections	330	333	336	340	343	347	350	353	357	361	364	368	372	375	379	383	387	390	394	398	
Commercial ERU Projections	403	408	412	416	420	424	428	433	437	441	446	450	455	459	464	468	473	478	483	487	
CBCC ERU Projections	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	1,157	
DSL ERU Projections	226	228	231	233	235	238	240	243	245	247	250	252	255	257	260	263	265	268	271	273	
Non-CBCC ERU Projections - includes DSL	959	969	979	988	998	1,008	1,018	1,029	1,039	1,049	1,060	1,070	1,081	1,092	1,103	1,114	1,125	1,136	1,148	1,159	
<b>Total ERU Projections</b>	<b>2,117</b>	<b>2,126</b>	<b>2,136</b>	<b>2,146</b>	<b>2,156</b>	<b>2,166</b>	<b>2,176</b>	<b>2,186</b>	<b>2,196</b>	<b>2,207</b>	<b>2,217</b>	<b>2,228</b>	<b>2,238</b>	<b>2,249</b>	<b>2,260</b>	<b>2,271</b>	<b>2,282</b>	<b>2,293</b>	<b>2,305</b>	<b>2,316</b>	
Residential ADD (gpd)	31,926	32,245	32,567	32,893	33,222	33,554	33,890	34,229	34,571	34,917	35,266	35,618	35,975	36,334	36,698	37,065	37,435	37,810	38,188	38,570	
Commercial ADD (gpd)	39,071	39,462	39,856	40,255	40,657	41,064	41,475	41,889	42,308	42,731	43,159	43,590	44,026	44,466	44,911	45,360	45,814	46,272	46,735	47,202	
CBCC ADD (gpd)	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	
DSL total (gpd)	21,904	22,123	22,344	22,568	22,793	23,021	23,252	23,484	23,719	23,956	24,196	24,438	24,682	24,929	25,178	25,430	25,684	25,941	26,200	26,462	
Non-CBCC ADD	92,901	93,830	94,768	95,716	96,673	97,640	98,616	99,602	100,598	101,604	102,620	103,646	104,683	105,730	106,787	107,855	108,933	110,023	111,123	112,234	
<b>Total ADD (gpd)</b>	<b>204,961</b>	<b>205,890</b>	<b>206,828</b>	<b>207,776</b>	<b>208,733</b>	<b>209,700</b>	<b>210,676</b>	<b>211,662</b>	<b>212,658</b>	<b>213,664</b>	<b>214,680</b>	<b>215,706</b>	<b>216,743</b>	<b>217,790</b>	<b>218,847</b>	<b>219,915</b>	<b>220,993</b>	<b>222,083</b>	<b>223,183</b>	<b>224,294</b>	
Residential MDD (gpd)	52,084	52,605	53,131	53,663	54,199	54,741	55,289	55,841	56,400	56,964	57,534	58,109	58,690	59,277	59,870	60,468	61,073	61,684	62,301	62,924	
Commercial MDD (gpd)	63,742	64,379	65,023	65,673	66,330	66,993	67,663	68,340	69,023	69,713	70,410	71,114	71,826	72,544	73,269	74,002	74,742	75,489	76,244	77,007	
CBCC MDD (gpd)	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	112,060	
DSL (gpd)	21,904	22,123	22,344	22,568	22,793	23,021	23,252	23,484	23,719	23,956	24,196	24,438	24,682	24,929	25,178	25,430	25,684	25,941	26,200	26,462	
Non-CBCC MDD	137,730	139,107	140,498	141,903	143,322	144,756	146,203	147,665	149,142	150,633	152,140	153,661	155,198	156,750	158,317	159,900	161,499	163,114	164,745	166,393	
<b>Total MDD (gpd)</b>	<b>249,790</b>	<b>251,167</b>	<b>252,558</b>	<b>253,963</b>	<b>255,382</b>	<b>256,816</b>	<b>258,263</b>	<b>259,725</b>	<b>261,202</b>	<b>262,693</b>	<b>264,200</b>	<b>265,721</b>	<b>267,258</b>	<b>268,810</b>	<b>270,377</b>	<b>271,960</b>	<b>273,559</b>	<b>275,174</b>	<b>276,805</b>	<b>278,453</b>	



# Electric System Capacity





QUESTIONS?



# SAFER - STRATEGIC AREA FOR FUEL & ENERGY RESERVES



### CONCEPT OVERVIEW

- Port led regional resilience platform anchored at William R. Fairchild International Airport (KCLM).
- Integrates emergency fuel reserves and microgrid / grid isolation capability.
- Focused on fuel and energy resilience and continuity of operations for:
  - Aviation operations
  - Emergency response
  - Other critical regional functions
- Advanced as a regional resilience initiative – not a commercial expansion – with the potential to support:
  - Joint Public Safety Facility (County / City of Port Angeles)
  - Clallam County PUD future Operations Center
  - Fairchild International Airport (CLM)
- Airport facilities function as critical infrastructure nodes during catastrophic events, outages, and supply disruptions.
- Fuel and energy resilience needs for Forks (West End) and Sequim (East End) would be addressed separately.

# SAFER

## ELECTRICAL GRID REDUNDANCY (EGR)

### ▶ MICROGRID & GRID ISOLATION FRAMING

- The Port's primary concern is grid redundancy and outage tolerance for critical infrastructure and employment centers.
- Under the SAFER framework, Electrical Grid Redundancy (EGR) would be centralized at Fairchild if a portion of the local grid could be isolated and operated in islanded mode for emergency operations.
- Microgrid and clean energy technologies are important tools, but they are means to improved reliability — not ends in themselves.
- Shared policy question for the Port, County, and PUD:
  - How much downtime can critical regional infrastructure tolerate in a catastrophic event?
- SAFER provides a framework to revisit and update fuel and energy assumptions within existing emergency preparedness and utility planning efforts.

## *Grant Funds at a Glance: Active Projects*

Federal Funds Awarded	\$41,100,175
State Funds Awarded	\$1,786,394
Port Match Committed	\$6,085,351
<b>Total</b>	<b>\$48,971,920 (12.4% Port)</b>

This does not include grant applications that have been submitted and are still under consideration:

- 2025 PIDP: Terminal 3 Cargo Efficiency Upgrades
- 2025 EDA Disaster Supplemental: Multi-User Marine Trades Buildings

# Grants Under Close-Out

Grant	Project	Total
EDA: Disaster Fund (2020)	Marine Trades Center development <ul style="list-style-type: none"><li>Project is being closed out with EDA. Final grant share is 91.9% (Federal/County) and 9.1% Port Capital.</li></ul>	<b>\$7,282,736 federal</b> \$905,326.07 Port \$1,756,833 County
WA Commerce: EV Charging Program (2024)	Installation of 7 Level 2 EV chargers around the Port	<b>\$112,000 state</b> \$37,335 Port

## Active (Obligated) Federal Funds

Grant	Project	Total
EDA: Recompete (2024)	North Olympic Peninsula Barging Network	<b>\$6,000,000 federal</b> \$0 Port
EPA: Clean Ports Program (2024)	Shore power upgrades <ul style="list-style-type: none"> <li>• <b>Shore power design is underway, nearing 60%.</b></li> </ul> Cargo handling equipment	<b>\$9,457,361 federal</b> \$525,408 Port
MARAD: Port Infrastructure Development Program (2022)	Intermodal Handling and Transfer Facility Upgrades <ul style="list-style-type: none"> <li>• <b>Construction contract went to ICI; project work will begin in May.</b></li> </ul>	<b>\$8,608,000 federal</b> \$2,152,000 Port

# Active (Obligated) Federal Funds - Continued

Grant	Project	Total
MARAD: Port Infrastructure Development Program (2024)	<p>Cargo Equipment</p> <ul style="list-style-type: none"> <li>• 2 new Tier 4 logstackers                             <ul style="list-style-type: none"> <li>• <b>Purchase is official!</b></li> </ul> </li> <li>• 2 hybrid material handlers</li> <li>• Conveyor system</li> </ul>	<p><b>\$9,000,000 federal</b> \$2,250,000 Port</p>
<p>EDA: Public Works &amp; Economic Adjustment Assistance (2025)</p> <p><i><b>Note:</b> Clallam EDC is the prime recipient</i></p>	<ul style="list-style-type: none"> <li>• T1/T3 Environmental Narrative and Preliminary Engineering Logistics Study</li> <li>• Public Kiln Feasibility Study</li> </ul>	<p><b>\$1,360,000 federal to EDC</b> \$150,000 Port</p>

## Active (Obligated) Federal Funds - Continued

Grant	Project	Total
FAA: Airport Improvement Program (2026) #45	Hangar Development (Phase 2 - Design)	<b>\$276,961 federal</b> \$18,385 Port
FAA: Airport Improvement Program (2025) #46	Taxiway 'A' Rehab	<b>\$6,079,748 federal</b> \$160,000 Port
DHS/FEMA: Port Security Grant Program (2025)	Security Operations Command Center; Safety Vessel; Mobile TWIC readers <b>ON HOLD due to DHS shutdown.</b>	<b>\$318,105 federal</b> \$106,035 Port

## Active (Obligated) State Funds

Grant	Project	Total
Ecology: Water Quality (2022)	Intermodal Handling & Transfer Facility stormwater design	<b>\$1,043,900 state (includes \$854,900 proviso)</b> \$63,000 Port
WSDOT: Port Electrification Grant Program (2024)	Match for EPA Clean Ports Program	<b>\$525,408 state</b> \$525,408 Port
Community Economic Revitalization Board (2024)	West Boat Haven Marina Master Plan <ul style="list-style-type: none"> <li>• <b>Preparing final report for project closeout.</b></li> </ul>	<b>\$75,000 state</b> \$50,000 Port
WSDOT Airport Aid (2025)	Taxiway 'A' Rehabilitation – Match for FAA funds	<b>\$142,086 state</b>

## Pending Funds (Federal and State)

Grant	Project	Total
FY26 Community Project Funding (“Earmark”) – Congresswoman Randall	Tse-whit-zen Restoration Area <ul style="list-style-type: none"><li>Remove industrial infrastructure</li><li>Install fence and signage</li></ul>	<b>\$850,000 federal</b> \$0 non-federal
FY26 Supplemental Capital Budget (Commerce)	Multi-User Marine Trades Building <ul style="list-style-type: none"><li>Construction of the 20,000sqft multi-user building at the Port Angeles Boat Yard.</li></ul>	<b>\$2,000,000 state</b> \$0 non-state match, but Port funds will be required to complete the project

# Funds Under Review (Federal and State)

Grant	Project	Total
MARAD: Port Infrastructure Development Program (2025)	<p>Terminal 3 Upgrades</p> <ul style="list-style-type: none"> <li>Remove timber dock, trestle from T3 and reconstruct a rectangular expansion with concrete/steel</li> <li>Remove the Chevron trestle</li> </ul>	<p><b>\$11,250,000 federal</b>  <b>\$3,000,000 Port</b></p>
EDA: 2025 Disaster Supplemental	<p>Multi-User Marine Trades Buildings</p> <ul style="list-style-type: none"> <li>Construct PABY and MTC multi-user buildings, including blast/spray facilities</li> </ul>	<p><b>\$17,670,664 federal</b>  <b>\$2,417,666 Port</b>  <b>\$2,000,000 state</b></p>
FY27 Federal Appropriation	<p>Phase 2 – Log Yard Stormwater Improvements</p> <ul style="list-style-type: none"> <li>Design Phase 2 stormwater improvements on the west side of the Log Yard</li> </ul>	<p><b>\$750,000 federal</b></p>

## Targeted Grants (Federal and State)

Grant	Project	Total	Due
FY26 Port Infrastructure Development Program	Terminal 3 Upgrades <ul style="list-style-type: none"> <li>Remove timber dock, trestle from T3 and reconstruct a rectangular expansion with concrete/steel</li> <li>Remove the Chevron trestle</li> </ul>	<b>\$11,250,000 federal</b> \$3,000,000 Port	Unknown
CERB Committed Private Partner Program	1010/1050 Building Upgrades	<b>\$5 million state (25% grant, 75% loan)</b> \$1.25 million Port	Rolling – targeting fall 2026
U.S. Marine Highway Program	Supporting private applicants across Washington State	Varies	Likely June/July 2026

# Questions?

