Special Meeting Agenda PUD Board of Commissioners Thursday, May 19, 2022 9:00 AM 310 Four Corners Rd. Port Townsend, WA 98368



To join online go to: <u>https://zoom.us/my/jeffcopud</u>. Follow the instructions to login. Meetings will open 5 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

Per the Governor's Extended Proclamation 20-28 and in response to the COVID-19 Pandemic, Jefferson County PUD is no longer providing an in-person room for meetings of the BOC. All meetings will be held remotely via Zoom until otherwise informed by the Governor. 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. Agenda Review

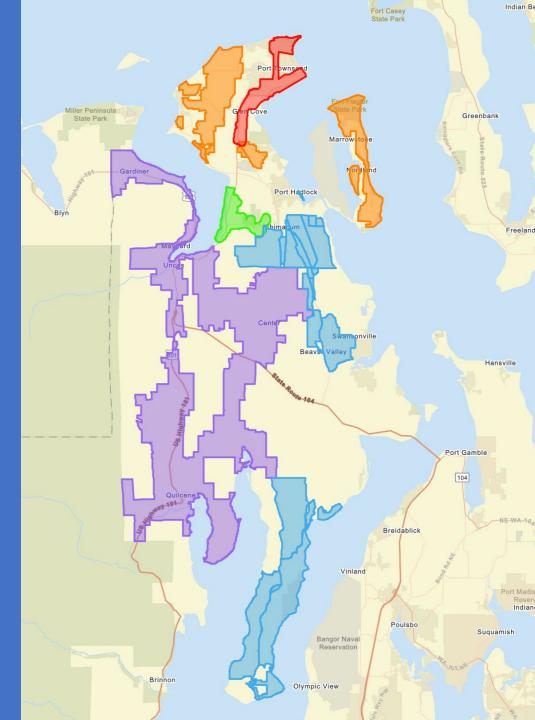
3.	Presentation- JPUD Broadband Business Plan	2 - 30
	Broadband Projects Business Planning.pdf 🔗	
4.	Fiber Bid Review	31 - 33
	AGENDA REPORT_Fiber Bid Selection.docx 🔗	
	Preliminary Bid Tabulation-Fiber Material 2022 004.pdf 🔗	

5. Adjourn

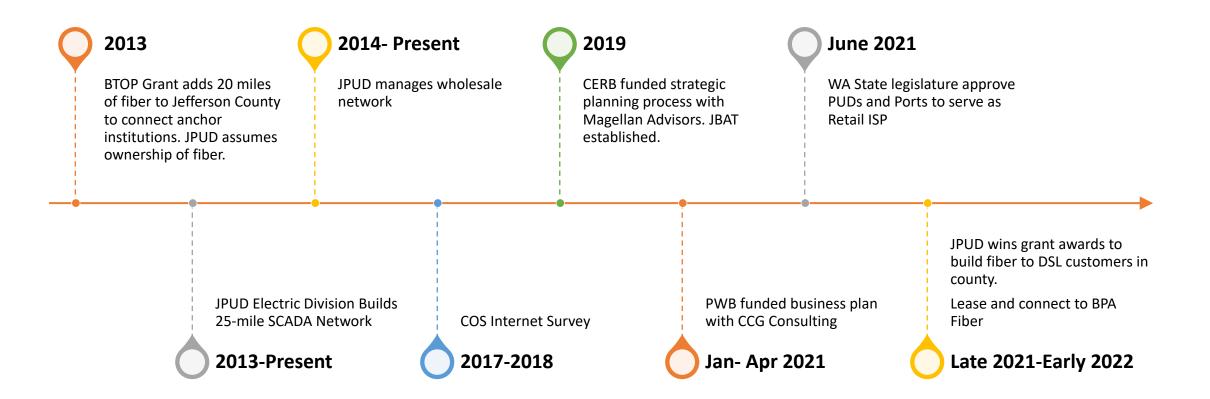
Jefferson County Public Utility District

Broadband Projects Business Planning

Will O'Donnell Broadband and Communications Director Doug Dawson President, CCG Consulting May 19, 2022



BROADBAND TIMELINE TO DATE



Page 3 of 33

Current JPUD Broadband Team

- Network and Construction Oversight by GM Kevin Streett
- Grants/Project/Customer management by BB/Comms Director Will O'Donnell
- Fiber & equip work by SCADA Team: Colton Worley and David Elias
- Staking and quotes by SCADA Engineer Erik Pryor
- No full time Broadband Staff Members









Partners & Procurement

- CCG Consulting: Broadband Strategic Planning, Prelim Engineering, Project Design, Grant development
- FINLEY: Design Engineering and Project Management
- CALIX: Network Equipment Vendor
- **GENUINE CABLE:** Aerial and Buried Fiber Vendor

Broadband Department Goal

FACILITATE ACCESS TO BROADBAND FOR ALL JEFFERSON COUNTY RESIDENTS

Broadband Department Objectives

*Unserved currently defined as 25/3 over wireline

Extend Fiber Network to all unserved customers in electric service territory

Partner to assist with connections outside of electric service territory

Fund Construction with State and Federal Grants & Loans

Extend Existing Network where financially viable

Build future-proof, reliable, affordable network to improve quality of life

Broadband is a <u>Department</u> of the Electric <u>Division</u>

Historically wholesale, SCADA focused

Retail and Wholesale ISP going forward

Open Access Fiber to the Premise Network

NoaNet current Network Operator, transition to JPUD

Page 8 of

Broadband Department Setup

Current Retail Rates

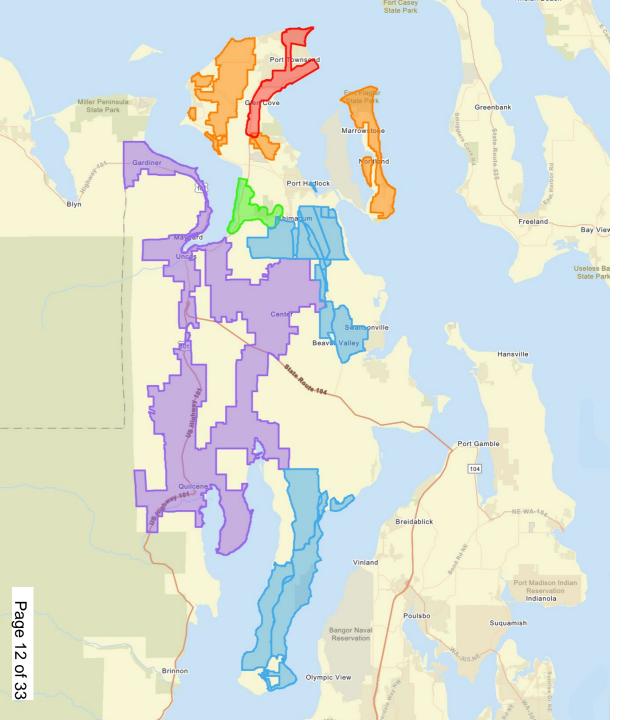
Residential Speeds	Monthly rates	Business Speeds	Monthly rates
100/100 Mbps	\$65/mo	100/100 Mbps	\$75/mo
250/250 Mbps	\$75/mo	250/250 Mbps	\$85/mo
1 Gbps/1 Gbps	\$90/mo	1 Gbps/1 Gbps	\$100/mo
Premium Service	\$20/mo	Premium Service	\$25/mo
Low-income Discount	\$20/mo.	Low-income Discount	n/a
Wifi Modem Rental	\$10	Wifi Modem Rental	\$10
VOIP Service	\$20/mo.	VOIP Service	\$30/mo

Current Wholesale Rates

Residential Speeds	Monthly rates	Business Speeds	Monthly rates
100/100 Mbps	\$35/mo	100/100 Mbps	\$40/mo
250/250 Mbps	\$40/mo	250/250 Mbps	\$45/mo
1 Gbps/1 Gbps	\$45/mo	1 Gbps/1 Gbps	\$50/mo
Premium Service	\$10/mo	Premium Service	\$15/mo
Low-income Discount	\$10/mo	Low-income Discount	n/a
Wifi Modem Rental	n/a	Wifi Modem Rental	n/a
VOIP Service	n/a	VOIP Service	n/a



Fiber Construction Projects



Current Projects

Olympic Fiber Corridor Quilcene to Gardiner

East Discovery Bay

Anderson Lake Rd and Hwy 20

Jefferson North pe George, Woodland

SE Jefferson County Chimacum to Ludlow to Coyle

PT Business Fiber

Fort Worden to Hwy 20/19 Intersection

Project Areas	E DISCO BAY	Olympic Fiber Corridor	Jefferson North	PT Business Fiber (Loan	SE Jefferson County	Total
FUNDER	PWB	NTIA/WSBO	WSBO	PWB	USDA RUS	
Residential Passings	74	1646	1071	0	1034	3825
Business Passings	0	37	6	375	0	413
Take Rate	70%	60%	60%	60%	70%	
Customers	52	1010	646	225	724	2675
Miles of Fiber	8.3	136	100	47	114	405.3
State or Federal Funding	\$1,096,046	\$10,406,153	\$9,718,934	\$1,839,295	\$9,927,431	\$31,148,564
State or Local Match	0	\$1,156,239	\$750,000	0	\$3,309,144	\$5,215,383
JPUD Cash	0	\$147,840	\$965,106	\$204,366	0	\$1,317,312
Total Funding	\$1,096,046	\$11,710,232	\$10,468,934	\$2,043,661	\$13,236,575	\$39,520,554

Broadband Project Business Models

MODEL 1: STATE AND FEDERAL FUNDED, UNSERVED AREAS MODEL 2: FUNDED, UNSERVED AREAS + ADJACENT AREAS

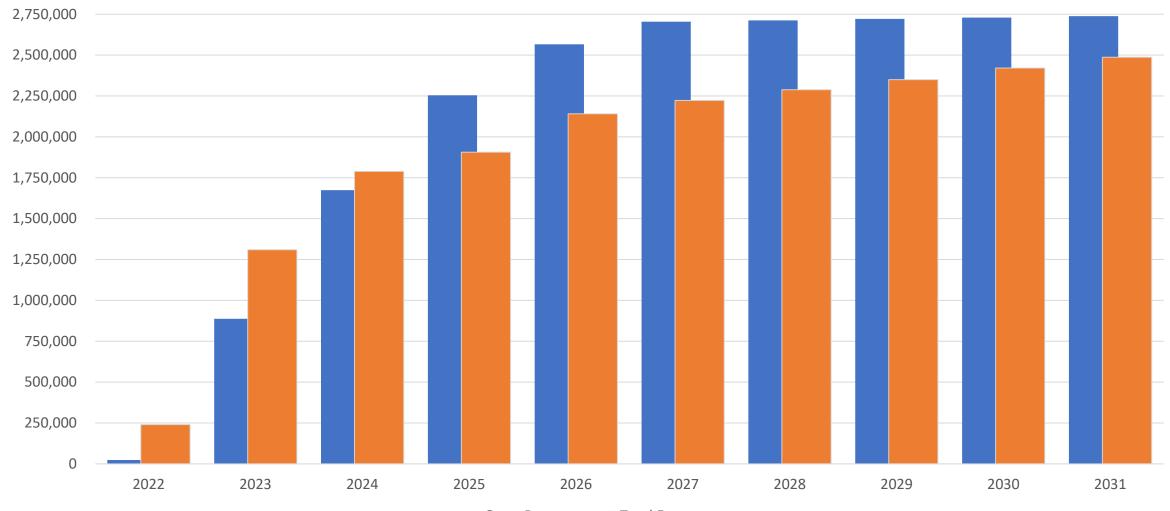


Revenue & Expense Assumptions

Model 1: Funded, Unserved Areas

2,573 Retail Customers 335 Open Access \$36M in Grant Funding \$1.8M Low interest loan \$1.3 Matching funds Inclusion of Annual Property Tax Revenue Assumes \$750 connection fee per non grant eligible customer

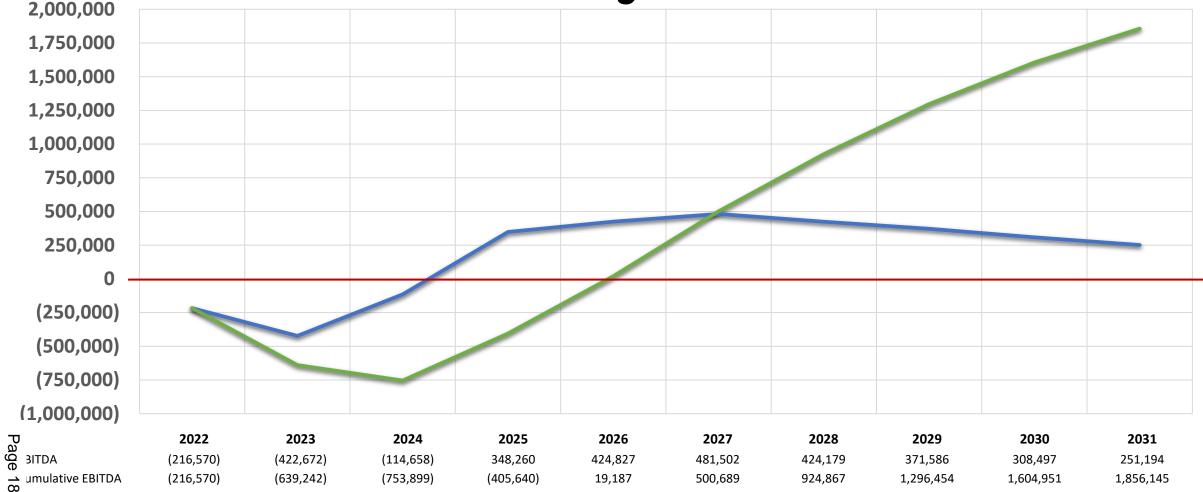
Broadband Revenues vs Expenses 2022- 2031



Gross Revenues Total Expenses

Operating Revenue	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Telephone Revenue	540	35,380	85,620	109,860	119,760	123,420	123,060	123,120	123,180	123,540
Broadband Revenue	2,716	690,320	1,343,352	1,894,380	2,191,728	2,331,996	2,339,892	2,347,512	2,355,708	2,363,952
Open Access Revenue	7,675	179,525	296,830	324,500	338,360	337,440	337,690	337,690	337,690	337,690
Miscellaneous Revenue	23	3,804	12,933	18,324	21,249	22,644	22,707	22,779	22,869	22,950
Existing Revenue	13,056	13,056	13,056	13,056	13,056	13,056	13,056	13,056	13,056	13,056
Total Revenues	24,010	922,085	1,751,791	2,360,120	2,684,153	2,828,556	2,836,405	2,844,157	2,852,503	2,861,188
Less Bad Debt:	(98)	(21,885)	(43,257)	(60,677)	(69,982)	(74,342)	(74,570)	(74,802)	(75,053)	(75,313)
Interest Income	0	0	0	0	0	0	0	0	0	0
Net Revenues	23,912	900,200	1,708,534	2,299,443	2,614,171	2,754,214	2,761,835	2,769,355	2,777,450	2,785,875
Interest on Working Cash	3,373	1,489	(664)	4,720	13,566	22,446	29,536	36,364	44,200	51,538
Cost of Goods Sold	5,575	1,405	(004)	4,720	13,500	22,440	29,550	50,504	44,200	51,558
Less COGs	171	12,987	34,257	45,087	48,213	49,816	49,485	47,946	47,893	47,893
Gross Margin	23,741	887,213	1,674,277	2,254,356	2,565,958	2,704,398	2,712,351	2,721,408	2,729,558	2,737,982
	23,741	887,215	1,074,277	2,234,330	2,303,938	2,704,398	2,712,331	2,721,400	2,729,338	2,131,382
Operating Expenses										
Vehicle Expense	2,167	13,325	13,658	14,000	14,350	14,708	15,076	15,453	15,839	16,235
Tools & Equipment	668	4,080	4,162	4,245	4,330	4,416	4,505	4,595	4,687	4,780
Building Maintenance	400	1,000	1,500	1,750	2,000	2,250	2,500	2,750	2,819	2,889
Computer	938	4,488	4,623	4,738	5,740	5,883	6,030	6,181	6,336	6,494
Network Maintenance	106,044	447,127	555,525	612,698	666,778	710,177	753,876	797,881	842,200	886,841
Maintenance Contracts	19	2,682	8,878	12,490	15,156	16,125	16,165	16,211	17,081	17,134
Interconnection Expense	180	2,100	1,446	578	518	88	88	94	88	88
Internet Backbone	375	12,250	10,638	4,700	4,225	72,613	84,600	91,825	103,225	113,485
Help Desk Expense	124	20,288	68,976	97,728	116,728	124,391	124,737	125,133	129,396	129,854
Advertising	12,000	392,000	340,400	150,400	135,200	34,900	35,550	36,519	37,307	38,114
Sales and Marketing Expense	0	0	0	0	0	0	0	0	0	0
Customer Service	0	49,956	52,481	53,793	110,275	113,032	115,858	118,754	121,723	124,766
Billing	53	11,050	25,303	35,890	41,803	44,822	45,333	45,864	46,427	47,001
Software Maintenance	2,220	4,561	4,675	4,792	4,912	5,035	5,161	5,290	5,422	5,557
Management	23,418	48,000	49,201	50,431	51,692	52,984	54,308	55,666	57,058	58,484
General Accounting	0	15,000	15,450	15,914	16,391	16,883	17,389	17,911	18,448	19,002
Legal Expense	0	0	0	0	0	0	0	0	0	0
sultants	90,000	90,000	40,000	30,000	25,000	25,750	26,523	27,318	28,138	28,982
a cated PUD Overheads	1,273	175,381	560,722	769,703	877,955	928,160	929,653	931,419	933,758	935,814
cated PUD Overheads	432	16,598	31,297	42,247	48,080	50,679	50,820	50,960	51,110	51,266
<u> </u>										
0	0	0	0	0	0	0	0	0	0	0
ີ່ al Operating Expenses ພ	240,311	1,309,885	1,788,934	1,906,097	2,141,131	2,222,896	2,288,172	2,349,822	2,421,060	2,486,788
ω										

Earnings Before Interest, Taxes, Depreciation Yearly vs Cumulative EBITA

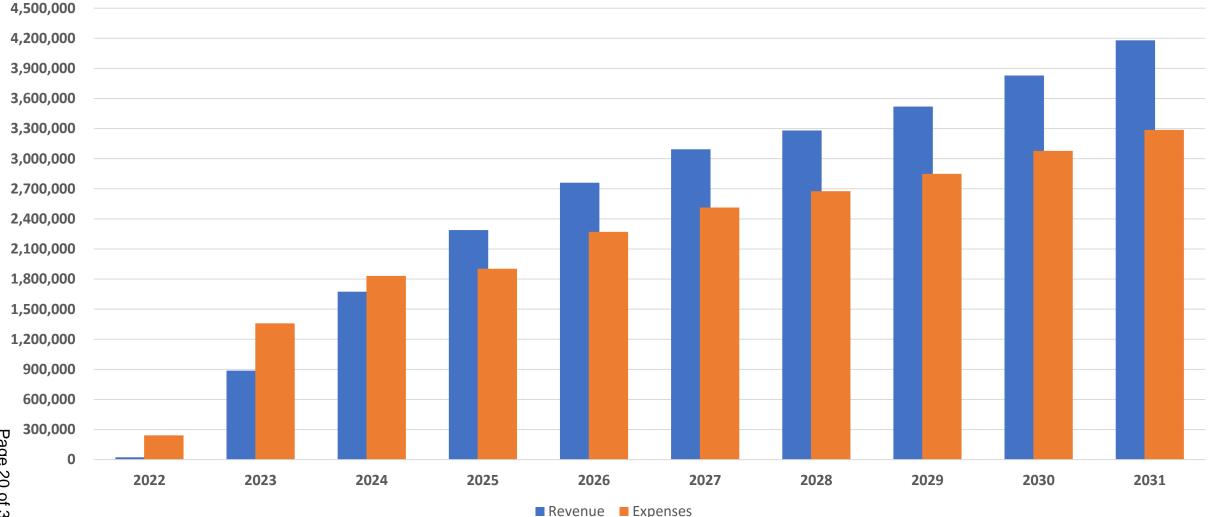


Revenue & Expense Assumptions

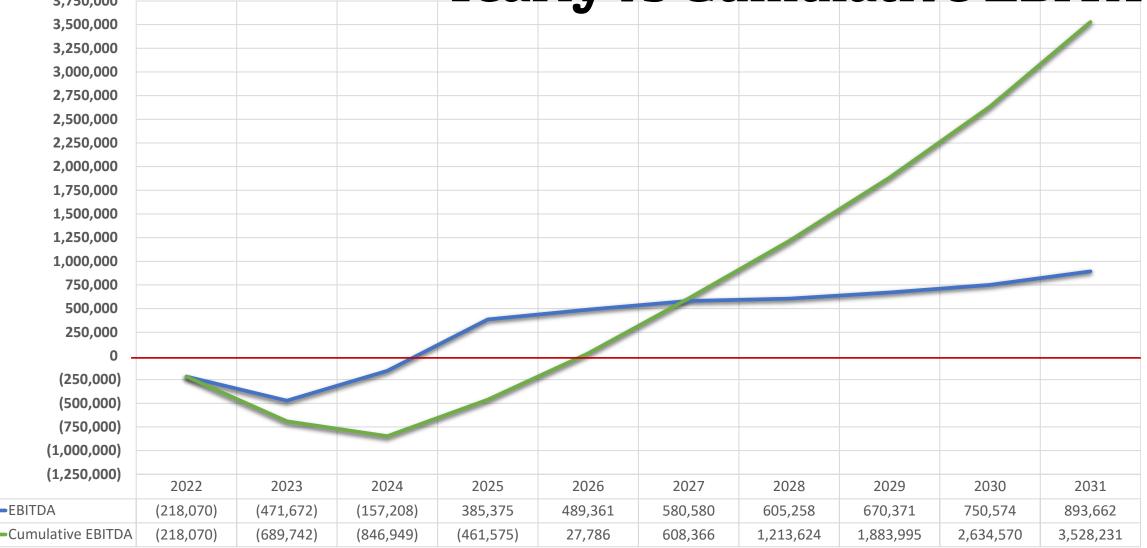
Model 2: Funded, Unserved Areas + Adjacent Areas

Direct revenues cover addition of 1850 customers in adjacent areas to grant projects **4214 Retail Customers** 514 Open Access \$36M in Grant Funding \$1.8M Low interest loan \$1.3 Matching funds **Inclusion of Annual Property Tax Revenue** Assumes \$750 connection fee per non grant eligible customer

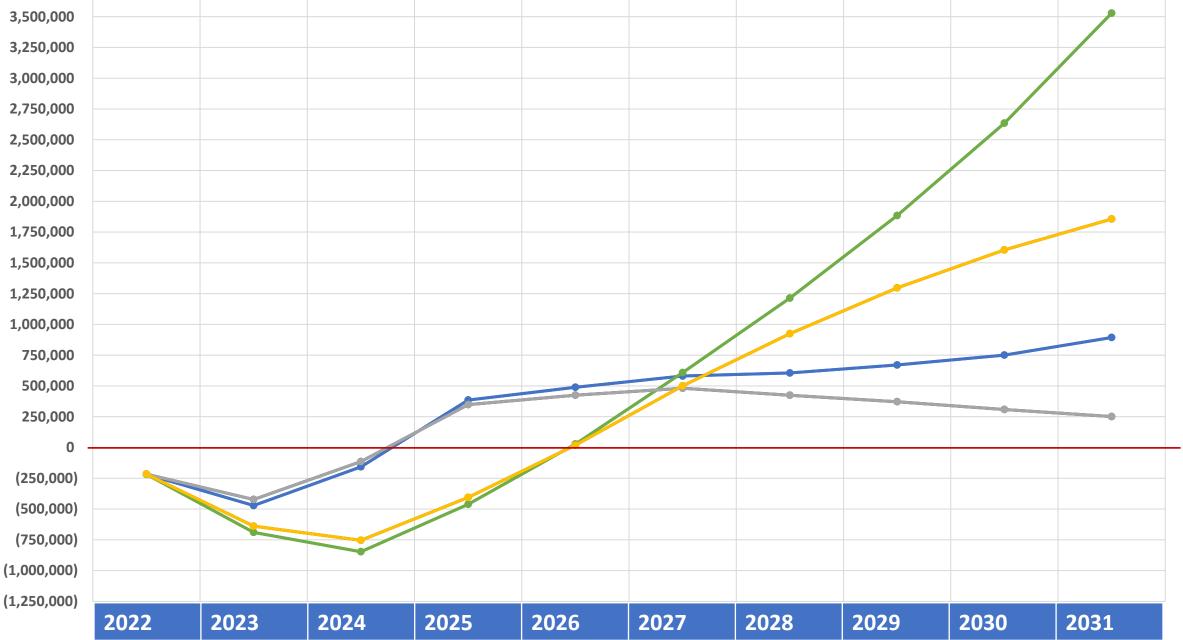
Broadband Revenues vs Expenses 2022- 2031 Additional customers



Earnings Before Interest, Taxes, Depreciation Yearly vs Cumulative EBITA



EBITA Grant Areas vs Grant Areas +



3,750,000

Page 22

of 33



Financial Conclusions

Cash flow positive after 3 years

\$4M+ annual revenue, 4000+ customers in 10 years

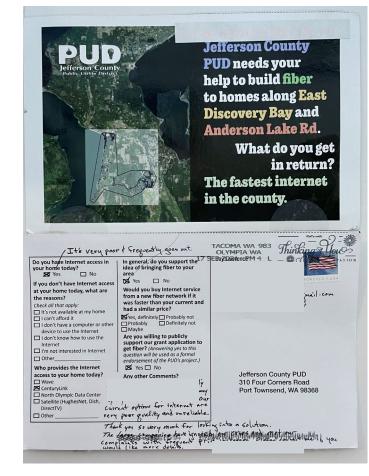
\$30M in equity added to Electric Department for \$1.3M cash outlay

Balance Sheet	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Assets										
Operating Cash Fund	355,499	(198,704)	(24,444)	321,275	327,632	305,156	307,337	328,921	304,575	304,96
PWB Grant Capital										
Account	1,752,072	0								
Accounts Receivable	7,983	166,098	145,983	199,668	240,615	269,717	286,008	306,620	333,542	364,17
Land	0	0	0	0	0	0	0	0	0	
/ehicles	170,000	344,250	344,250	344,250	344,250	558,929	581,827	581,827	581,827	581,82
ools and Inventory	25,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,00
Buildings	163,506	163,506	313,506	388,506	388,506	388,506	388,506	388,506	388,506	388,50
Furniture	3,500	8,000	8,000	8,000	8,750	9,500	9,500	9,500	9,500	9,57
Computers	7,500	15,225	15,225	15,225	18,039	22,132	23,362	23,362	23,362	23,81
Customer CPE	0	0	0	0	0	0	0	0	0	
Core Fiber Elecronics	540,968	751,102	751,102	751,102	751,102	751,102	751,102	751,102	498,941	498,94
DNTs	32,184	936,567	1,704,167	2,099,231	2,632,688	2,811,312	3,047,867	3,324,654	3,688,338	4,052,02
iber Drops	67,853	1,974,516	3,592,805	4,483,563	5,839,682	6,351,284	7,042,885	7,857,879	8,942,873	10,027,86
iber Network	3,672,618	15,964,027	25,117,492	29,253,383	31,447,564	31,447,564	31,447,564	31,447,564	31,447,564	31,447,56
Capitalized Software	76,500	76,500	76,500	76,500	76,500	76,500	76,500	76,500	76,500	76,50
ess Accumulated			(45,000)	(22.252)	(22,522)	(22.250)	(15.000)	(52,550)	(61.000)	(60.050
mortization ess Accumulated	0	(7,650)	(15,300)	(22,950)	(30,600)	(38,250)	(45,900)	(53,550)	(61,200)	(68,850
Depreciation	(66,849)	(714,209)	(2,254,138)	(4,045,541)	(6,043,647)	(7,950,017)	(9,900,288)	(11,977,654)	(14,010,392)	(16,268,517
otal Assets	6,808,335	19,554,228	29,850,147	33,947,211	36,076,081	35,078,434	34,091,270	33,140,229	32,298,935	31,513,38
iabilities										
oan Liability	1,839,295	1,711,219	1,582,852	1,453,946	1,324,498	1,194,507	1,063,970	932,884	801,248	669,05
Accounts Payable	39,496	148,322	156,077	162,970	194,046	214,643	228,372	242,924	262,354	280,14
Total Liabilities	1,878,791	1,859,541	1,738,930	1,616,916	1,518,544	1,409,150	1,292,342	1,175,809	1,063,603	949,20
Owners' Equity										
aid-in Capital	594,369	1,816,601	2,323,494	2,911,694	3,629,944	4,258,194	4,939,994	5,657,794	6,457,044	7,256,29
aid-in Capital rants	4,622,669	17,299,741	28,921,352	33,972,556	37,004,049	37,004,049	37,004,049	37,004,049	37,004,049	37,004,04
etained Earnings	(287,494)	(1,421,655)	(3,133,628)	(4,553,955)	(6,076,456)	(7,592,959)	(9,145,114)	(10,697,422)	(12,225,759)	(13,696,164
otal Owners' Equity	4,929,544	17,694,687	28,111,218	32,330,295	34,557,536	33,669,283	32,798,928	31,964,421	31,235,333	30,564,17

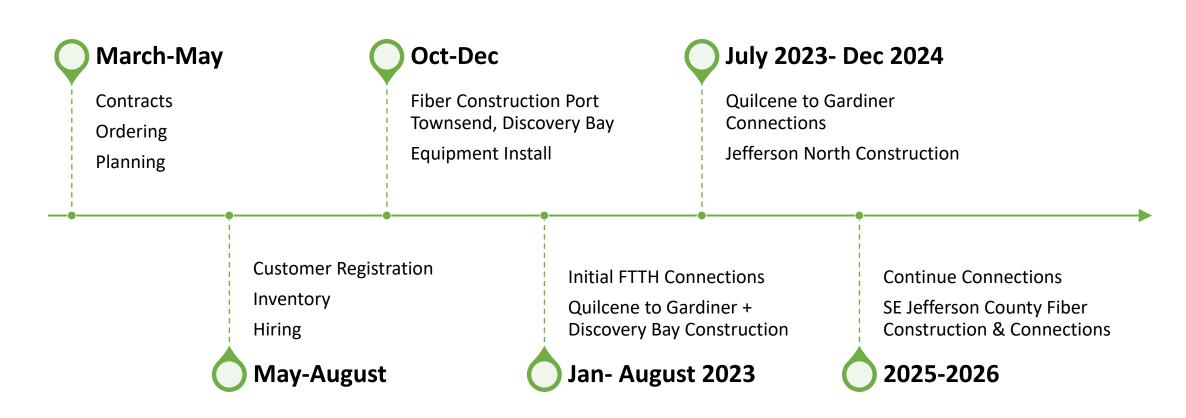
Marketing Plan

- Pre-app postcards to customers in grant areas
- Direct Email Campaign
- Social Media advertising
- JPUD Newsletter updates
- Press Releases
- Paid print ads
- Postcard updates
- Direct email updates
- Direct phone calls

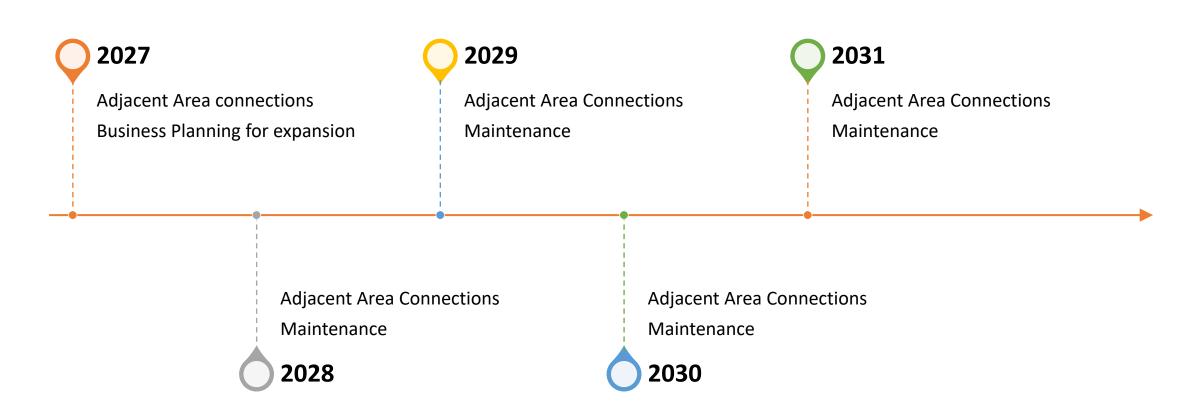
- Updated Website Section
- Earned media
- Door hangers during construction
- In Person Events
 - Equipment Demo
 - Cord Cutting Education
 - Digital Literacy and Equity
- Business Plan includes substantial funding for marketing efforts



Timeline Years 1-5



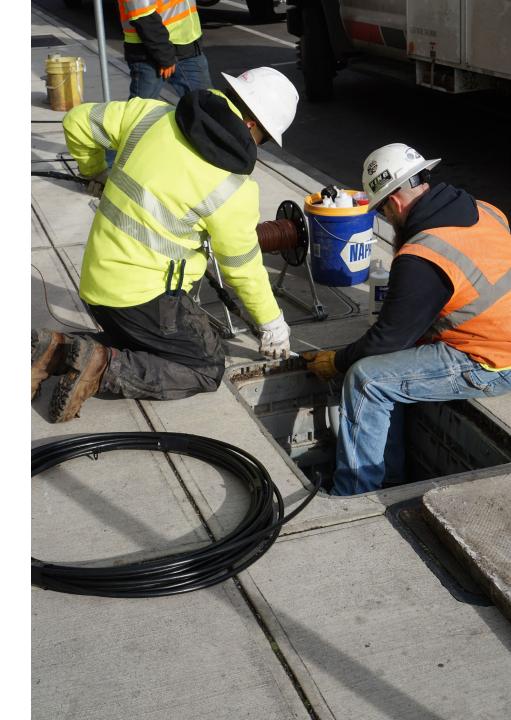
Timeline Years 5-10



Upcoming Policy Updates

Coming to the June 7th Meeting

- Wholesale Broadband Agreement Revision
- Internet Services Agreement
- Acceptable Use Policy











AGENDA REPORT

DATE:May 17, 2022TO:Board of CommissionersFROM:Kevin Streett, Will O'DonnellRE:Fiber Bid Selection Approval

BACKGROUND: Jefferson County PUD is moving closer to building fiber broadband service to unserved portions of Jefferson County. To avoid supply chain shortages, impending price hikes, and to better prepare to meet timelines set by federal and state granting agencies, PUD staff have solicited bids to supply 36 reels of Buried and Aerial Fiber Optic Cable, 450 reels of Fiber Optic Drop Cable, and 164 Handholes.

ANALYSIS/FINDINGS: 6 bids were received from at the deadline. Staff reviewed the bids, and they were evaluated on price and delivery date as well as the following criteria:

- The Bidder's past performance(s) in providing substation equipment and meeting quoted deliveries
- The Bidder's past ability and willingness to solve problems that have arisen in a satisfactory and complete manner.
- The Bidder's deviations from the specifications.
- Warranties. (Standard and Extended)
- Manufacturer's cancellation policy.

SELECTION: Per the Bid Instructions each individual item is considered a separate quote. Different items may be awarded to different bidders based upon the lowest evaluated cost or other pre-established criteria. Based primarily on price and delivery date, JPUD staff recommend purchasing buried and aerial cable from Wesco Annixter's Bid #1 and drop fiber and hand holes from Graybar.

FISCAL IMPACT: Wesco/Annixter: \$878,306; Graybar: 371,008. TOTAL: \$1,249,314

RECOMMENDATION: Approve a motion to authorize staff to accept Fiber Optic Material Bid# 2022-004 proposals from Wesco/Anixter (for buried and aerial fiber) and Graybar (for drop fiber and hand holes).



Bid Tabulation-Preliminary Results Fiber Material Bid# 2022-004

April 20th 3:30pm Bid Opening Jefferson County PUD- Four Corners Meeting Room

Opened By: Kevin Street Recorded By: Alvson Dean

Company Name	Contact Name	Bid Submitted	Total Bid	Lead Time	Bid
			Amount		Bond
		Buried- \$229,320.60		Buried- Q4 2022	
Wesco/Anixter Bid# 1	Jed Doyle	Aerial- \$648,986.00	\$1,256,942.60	Aerial- 20 weeks	Yes
		Drop- \$91,800.00		Drop- 52 weeks	
		Hand Holes- \$286,836.00		Hand Holes- 40 weeks	
		Buried- <i>no quote</i>		Buried-	
Wesco/Anixter Bid# 2	Jed Doyle	Aerial- \$687.916.00	\$687,916.00	Aerial- 28-30 weeks	Yes
		Drop- <i>no quote</i>		Drop-	
		Hand Holes- no quote		Hand Holes-	
		Buried- \$234,587.60		Buried- Q4 2022	
Genuine Cable	Mike Melnick	Aerial- \$696,068.40	\$1,359,616.74	Aerial- 10-14 weeks	Yes
		Drop- \$135,900.00		Drop- 16-17 weeks	
		Hand Holes- \$293,060.74		Hand Holes- 40 weeks	
		Buried- \$233,874.96		Buried- TBD 2023	
Graybar	Jennifer Walters	Aerial- \$654,790.70	\$1,259,674.34	Aerial- 10-14 weeks	Yes
		Drop- \$93,870.00		Drop- 17 weeks	
		Hand Holes- \$277,138.68		Hand Holes- 282 business days	
		Buried- <i>no quote</i>		Buried-	
General Pacific- Bid# 1	Shelby Hansen	Aerial- \$639,322.20	\$638,322.20	Aerial- 16-22 weeks	Yes
		Drop- <i>no quote</i>		Drop-	
		Hand Holes- no quote		Hand Holes-	
		Buried- no quote		Buried-	
General Pacific- Bid# 2	Shelby Hansen	Aerial- \$682,923.80	\$682,923.80	Aerial- 28-36 weeks	Yes
		Drop- <i>no quote</i>		Drop-	
		Hand Holes- no quote		Hand Holes-	

General Pacific- Bid# 3	Shelby Hansen	Buried- \$329,027.20 Aerial- \$1,013,325.00 Drop- \$385,200.00 Hand Holes-	\$1,860,352.20 (includes freight estimate)	Buried- 20-28 weeks Aerial- 20-28 weeks Drop- 20-28 weeks Hand Holes-	Yes
Border States	Antonio Molina	Buried- \$226,828.00 Aerial- \$677,365.00 Drop- \$176,355.00 Hand Holes- \$335,888.40	\$1,416,436.40	Buried- 17-20 weeks Aerial- 28-30 weeks Drop- Aug 2023-Oct 2023 Hand Holes- 42-44 weeks	Yes
FIS	Adam Norsen	Buried- \$264,014.10 Aerial- \$882,657.60 Drop- \$116,100.00 Hand Holes- <i>no quote</i>	\$1,262,771.10	Buried- 17-20 weeks Aerial- 17-20 weeks Drop- 17-20 weeks Hand Holes-	No
FIS- Bid# 2 (South Korea)	Adam Norsen	Buried- \$191,673.00 Aerial- \$604,102.00 Drop- \$110,600.00 Hand Holes- <i>no quote</i>	\$906,375.00	Buried- 20-24 weeks Aerial- 20-24 weeks Drop- 20-24 weeks Hand Holes-	No

Page 33 of 33