



Agenda
Utility Advisory Committee Meeting
Tuesday, January 10, 2023
Richland City Shops Building
2700 Duportail Street, Room 110

Committee Members: Chair Gregoire, Vice-Chair Lo Presti and Members Larkin, Miller, Porter, and Staven

Liaisons: Council Liaison: VanDyke
Staff Liaison: Whitney

Regular Meeting - 3:00 p.m.

Call to Order/Attendance:

- I. Election of Utility Advisory Committee Chair and Vice-Chair
 - Karla Palomarez, Administrative Assistant II

Approval of Agenda: (Approved by Motion)

Approval of Minutes: (Approved by Motion)

Approval of November 8, 2022 Meeting Minutes

Public Comments:

Items of Business:

3. Status - Each City Utility (10 Minutes Each)
 - Karla Palomarez, Administrative Assistant II
4. Regional Services (30 Minutes)
 - Pete Rogalsky, Public Works Director
5. Update Cost of Service Analysis (COSA) - (10 Minutes)
 - Clint Whitney, Energy Services Director
6. Physical Infrastructure Security Discussion (10 Minutes)
 - Clint Whitney, Energy Services Director
7. Project Atlas Agro - Request for Letter of Intent (10 Minutes)
 - Clint Whitney, Energy Services Director
8. BPA Status Update (10 Minutes)
 - Clint Whitney, Energy Services Director

Unfinished Business:

Other Informational Items:

9. 2022 Capital Work Plan Results

- Karla Palomarez, Administrative Assistant II

10. 2023 Capital Work Plan

- Karla Palomarez, Administrative Assistant II

Adjournment

The Richland City Shops Building is ADA accessible. Any individual who has difficulty attending the meeting in-person may request to provide comments remotely. (Ch. 42.30 RMC) Requests for sign interpreters, audio equipment, and/or other special services must be received 48 hours prior to the meeting by calling the City Clerk's Office at 509-942-7389.



MINUTES
UTILITY ADVISORY COMMITTEE REGULAR MEETING
Tuesday, November 8, 2022 – City Shops Room 110

Utility Advisory Committee Regular Meeting – 3:00 p.m.

Vice Chair LoPresti called the meeting to order at 3:00 p.m.

Attendance: Vice Chair Charles LoPresti, Committee Members Dave Larkin, Dan Porter, and Harry Staven were present. Chair Don Gregoire and Member Miller were absent.

Also present were Council Liaison VanDyke, Staff Liaison and Energy Services Director Whitney, Fire Chief Huntington, Fire Battalion Chief VanBeek, Business Services Manager Edgemon, and Energy Services Coordinator Senger.

Approval of Agenda

MEMBER PORTER MOVED AND MEMBER LARKIN SECONDED THE MOTION TO APPROVE THE AGENDA AS PUBLISHED. THE MOTION CARRIED 4-0.

Approval of Minutes

MEMBER PORTER MOVED AND MEMBER STAVEN SECONDED THE MOTION TO APPROVE THE SEPTEMBER 13, 2022 MEETING MINUTES. THE MOTION CARRIED 4-0.

Public Comments

None.

Items of Business

1. Status of Each City Utility
Business Services Manager Edgemon and Fire Battalion Chief VanBeek provided updates regarding the electric and ambulance utilities, respectively. Members asked questions and discussed the information presented.
2. Energy Efficiency Program Update
Business Services Manager Edgemon presented information about the Energy Efficiency Program. Members asked questions and discussed the information presented.
3. New Nuclear Generation Project Study
Director Whitney introduced Jason Herbert, Energy Northwest's Sr. Director for External Strategy & New Nuclear Development, who presented information about the Xe-100 Advanced Reactor and a potential project located near Columbia Generating Station. Members asked questions and discussed the information presented.

Unfinished Business

None.

Other Informational Items

Information on the following was provided to the members for later review:

- Electrical Infrastructure Supply Chain Status
- Richland Energy Services (RES) 3Q22 Financials.

Forward Planning

Members and staff discussed items for 2023 UAC meetings and identified the following:

- January 10 – RES Cost of Service Analysis (COSA)
- May 9 – Advanced Metering Infrastructure (AMI) Status and Supply Chain Status
- July 11 – Bonneville Power Administration (BPA) Provider of Choice Post-2028 Contract Status.

Adjournment

Vice Chair LoPresti adjourned the meeting at 4:40 p.m.

APPROVED:

ATTESTED:

Don Gregoire, Utility Advisory Committee Chair Karla Palomarez, Administrative Assistant II



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Approval of Minutes

Prepared By: Karla Palomarez, Administrative Assistant II

Subject:

Approval of November 8, 2022 Meeting Minutes

Department:

Energy Services

Recommended Motion:

Summary:

Approval of November 8, 2022

Fiscal Impact:

Attachments:



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Karla Palomarez, Administrative Assistant II

Subject:

Status - Each City Utility (10 Minutes Each)

Department:

Energy Services

Recommended Motion:

This item is informational only

Summary:

A representative from each of the City's utilities will provide a status update.

Fiscal Impact:

Attachments:



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Pete Rogalsky, Public Works Director

Subject:

Regional Services (30 Minutes)

Department:

Public Works

Recommended Motion:

Summary:

Director Rogalsky will present on Regional Services. The presentation is not expected to be included in the UAC packet ahead of time.

Fiscal Impact:

Attachments:

1. Regional Services - UAC - 1-10-2023



Public Works Regional Services

Utility Advisory Committee

January 10, 2023

Existing Services to Neighbor Jurisdictions

- Wholesale Water Services Agreement with West Richland
 - Supports West Richland's partnership in Quad-Cities Water Right
 - Executed in 2/2008
 - 50-year term
 - Formalized Rate Setting Method
 - West Richland to fund capacity improvements driven by their demand
 - Leverages Existing System Capacity to generate more revenue
 - \$378,000 average revenue – 2020 - 2022
 - Anticipated Amendments

Existing Services to Neighbor Jurisdictions

- Wholesale Water Services Agreement with Badger Mountain Irrigation District
 - Two-way supply arrangement
 - Supports BMID potable water service to annexed properties in Badger South
 - Enables future City use of BMID water rights as intended for the Badger South area
 - Executed in 3/2012
 - 50-year term
 - Formalized Rate Setting Method
 - Anticipated Amendments

New Service Opportunity

- Horn Rapids Landfill Disposal Capacity
 - 104 Acres in Permitted Disposal Area
 - Capacity sufficient for next 75 years
 - Assuming 2% community population and waste growth
 - Only permitted MSW landfill in the two-county area
 - Most waste in the area is transported to Oregon landfills
 - Operating Costs Represent cost savings to region
 - Represents Revenue Generating Opportunity

Issues and Questions

- Permitted landfill disposal capacity is finite
- Current staff and equipment resources have unused capacity
- Long term future of solid waste disposal
 - Waste to energy



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Clint Whitney, Energy Services Director

Subject:

Update Cost of Service Analysis (COSA) - (10 Minutes)

Department:

Energy Services

Recommended Motion:

This item is informational only.

Summary:

The Cost of Service Analysis (COSA) has been updated with 2021 actual financials and 2022 known financials. The COSA update was prepared by the FCS Group and includes expected future expenditures and revenues. Significant upcoming expenditures and revenues include: \$11.4M in transformer and cable inventory orders, \$6.9M in BPA Reserve Distribution Clause (RDC) credits, and \$8M in revenue bond issuances. The timing of the BPA RDC almost offsets the significant inventory cost increases.

The unrestricted cash continues to appear higher than normal due to the transformer and cable inventory orders not received yet. As they are received in 2023, the unrestricted cash will substantially decrease but remain above the recommended 90 day cash on hand.

The COSA debt service coverage ratio projections are greater than 2.00 and higher than the required bond ordinance coverage ratio of 1.25.

The electric utility is still on track to maintain adequate reserves and coverage ratios through 2023 with a potential 6.5% rate increase beginning January 2024. Financials will continue to be monitored through 2Q23 with a rate recommendation expected to be presented to UAC in July 2023.

Fiscal Impact:

Attachments:

1. COSA Summary - 2022 Richland Electric Services v6 DRAFT
2. COSA Dashboard - 2022 Richland Electric Services v6 DRAFT



City of Richland

Electric Cost of Service

Summary

Revenue Requirement	2022	2023	2024	2025	2026	2027	2028	2029
Revenues								
Rate Revenues Under Existing Rates	\$ 69,590,901	\$ 68,633,960	\$ 69,054,677	\$ 69,479,547	\$ 69,775,599	\$ 69,972,100	\$ 70,115,648	\$ 70,329,415
Non-Rate Revenues	2,514,119	2,793,373	2,815,565	2,866,454	2,904,113	2,948,313	2,981,210	3,034,063
Total Revenues	\$ 72,105,020	\$ 71,427,334	\$ 71,870,242	\$ 72,346,001	\$ 72,679,711	\$ 72,920,413	\$ 73,096,859	\$ 73,363,477
Expenses								
Cash Operating Expenses	\$ 16,031,399	\$ 16,955,670	\$ 18,023,486	\$ 19,158,270	\$ 20,387,016	\$ 21,111,507	\$ 21,872,287	\$ 22,651,860
Total Power	41,771,359	42,548,192	43,206,192	44,139,782	45,881,336	46,607,869	48,144,019	48,161,438
Existing Debt Service	6,281,582	5,194,319	5,196,546	5,192,997	5,195,230	5,195,440	5,180,030	5,189,347
New Debt Service	-	434,807	574,341	793,548	793,548	1,345,102	1,345,102	1,910,798
Rate Funded System Reinvestment	7,510,133	8,914,665	9,357,927	9,857,620	8,242,810	8,563,570	8,909,572	9,255,573
Total Expenses	\$ 71,594,473	\$ 74,047,653	\$ 76,358,492	\$ 79,142,217	\$ 80,499,940	\$ 82,823,488	\$ 85,451,010	\$ 87,169,016
Capitalized Labor, Overhead, & Engineering Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Surplus (Deficiency)	\$ 510,547	\$ (2,620,319)	\$ (4,488,250)	\$ (6,796,216)	\$ (7,820,229)	\$ (9,903,075)	\$ (12,354,151)	\$ (13,805,539)
Additions to Meet Coverage	-	-	-	-	-	-	-	-
Total Surplus (Deficiency)	\$ 510,547	\$ (2,620,319)	\$ (4,488,250)	\$ (6,796,216)	\$ (7,820,229)	\$ (9,903,075)	\$ (12,354,151)	\$ (13,805,539)
% of Rate Revenue	0.00%	3.82%	6.50%	9.78%	11.21%	14.15%	17.62%	19.63%
Annual Rate Adjustment	0.00%	0.00%	6.50%	0.00%	6.50%	0.00%	6.50%	0.00%
Cumulative Annual Rate Adjustment	0.00%	0.00%	6.50%	6.50%	13.42%	13.42%	20.79%	20.79%
Rate Revenues After Rate Increase	\$ 69,590,901	\$ 68,633,960	\$ 73,075,804	\$ 73,995,717	\$ 78,640,132	\$ 79,364,105	\$ 84,161,891	\$ 84,954,390
Additional Taxes from Rate Increase	\$ -	\$ -	\$ 155,754	\$ 174,929	\$ 343,359	\$ 363,790	\$ 544,067	\$ 566,484
Net Cash Flow After Rate Increase	\$ 1,504,458	\$ 3,126,344	\$ (622,877)	\$ (2,454,975)	\$ 700,946	\$ (874,860)	\$ 1,148,024	\$ 252,953
Coverage After Rate Increases	2.44	2.31	2.73	2.45	2.72	2.38	2.77	2.55
Sample Residential Monthly Bill (1,200 kWh)	\$ 109.91	\$ 109.91	\$ 117.05	\$ 117.05	\$ 124.66	\$ 124.66	\$ 132.76	\$ 132.76
Monthly Average Increase (\$)	\$ -	\$ -	\$ 7.14	\$ -	\$ 7.61	\$ -	\$ 8.10	\$ -

Fund Balance	2022	2023	2024	2025	2026	2027	2028	2029
OPERATING FUND								
Beginning Balance	\$ 11,136,188	\$ 10,725,622	\$ 7,639,743	\$ 6,873,609	\$ 4,418,634	\$ 5,119,579	\$ 4,244,720	\$ 5,392,744
plus: Net Cash Flow after Rate Increase	1,504,458	3,126,344	(622,877)	(2,454,975)	700,946	(874,860)	1,148,024	252,953
less: Transfer of Surplus to Capital Fund	(1,915,025)	(6,212,222)	(143,258)	-	-	-	-	-
Ending Balance	\$ 10,725,622	\$ 7,639,743	\$ 6,873,609	\$ 4,418,634	\$ 5,119,579	\$ 4,244,720	\$ 5,392,744	\$ 5,645,696
<i>Target Balance</i>	<i>\$ 3,952,948</i>	<i>\$ 4,180,850</i>	<i>\$ 4,444,147</i>	<i>\$ 4,723,957</i>	<i>\$ 5,026,935</i>	<i>\$ 5,205,577</i>	<i>\$ 5,393,167</i>	<i>\$ 5,585,390</i>
<i>Days</i>	<i>244</i>	<i>164</i>	<i>140</i>	<i>84</i>	<i>92</i>	<i>73</i>	<i>90</i>	<i>91</i>
CAPITAL								
Beginning Balance	\$ 9,161,831	\$ 6,403,194	\$ 11,849,887	\$ 7,814,814	\$ 5,429,942	\$ 72,055	\$ 4,256,126	\$ 78,844
plus: Rate Funded System Reinvestment/ Equipment Transfers	7,510,133	8,914,665	9,357,927	9,857,620	8,242,810	8,563,570	8,909,572	9,255,573
plus: Transfers from Operating Fund	1,915,025	6,212,222	143,258	-	-	-	-	-
plus: Grants/ Donations/ CIAC	-	-	-	-	-	-	-	-
plus: Additional Proceeds (Costs)	450,000	450,000	500,000	550,000	600,000	650,000	700,000	750,000
plus: Net Debt Proceeds Available for Projects	-	8,000,000	-	3,100,000	-	7,800,000	-	8,000,000
plus: Interest Earnings	67,931	112,148	148,124	97,685	67,874	901	53,202	986
Total Funding Sources	\$ 19,104,919	\$ 30,092,229	\$ 21,999,195	\$ 21,420,119	\$ 14,340,626	\$ 17,086,526	\$ 13,918,899	\$ 18,085,402
less: Capital Expenditures	(12,701,725)	(18,242,342)	(14,184,381)	(15,990,178)	(14,268,571)	(12,830,400)	(13,840,055)	(13,840,055)
Ending Working Capital Balance	\$ 6,403,194	\$ 11,849,887	\$ 7,814,814	\$ 5,429,942	\$ 72,055	\$ 4,256,126	\$ 78,844	\$ 4,245,347
<i>Minimum Target Balance</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>
RATE STABILIZATION								
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
plus: Transfers In	-	-	-	-	-	-	-	-
plus: Interest Earnings	-	-	-	-	-	-	-	-
less: Transfers Out	-	-	-	-	-	-	-	-
Ending Rate Stabilization Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Notes:	2022	2023	2024	2025	2026	2027	2028	2029
Debt-to-Net Assets Ratio	0.70	0.66	0.57	0.52	0.45	0.46	0.40	0.40
Additional proceeds (costs) consist of the following:								
Facility Fees	\$ 450,000	\$ 450,000	\$ 500,000	\$ 550,000	\$ 600,000	\$ 650,000	\$ 700,000	\$ 750,000
Power Dividend Credit	-	-	-	-	-	-	-	-
[Extra line]	-	-	-	-	-	-	-	-
[Extra line]	-	-	-	-	-	-	-	-
[Extra line]	-	-	-	-	-	-	-	-



City of Richland

Electric Cost of Service

Dashboard

	Last Year's Plan	0.00%	0.00%	5.50%	0.00%	5.50%	0.00%	5.50%
	Revenue Bond Proceeds	\$ -	\$ -	\$ 6,100,000	\$ -	\$ 6,250,000	\$ -	\$ 5,350,000

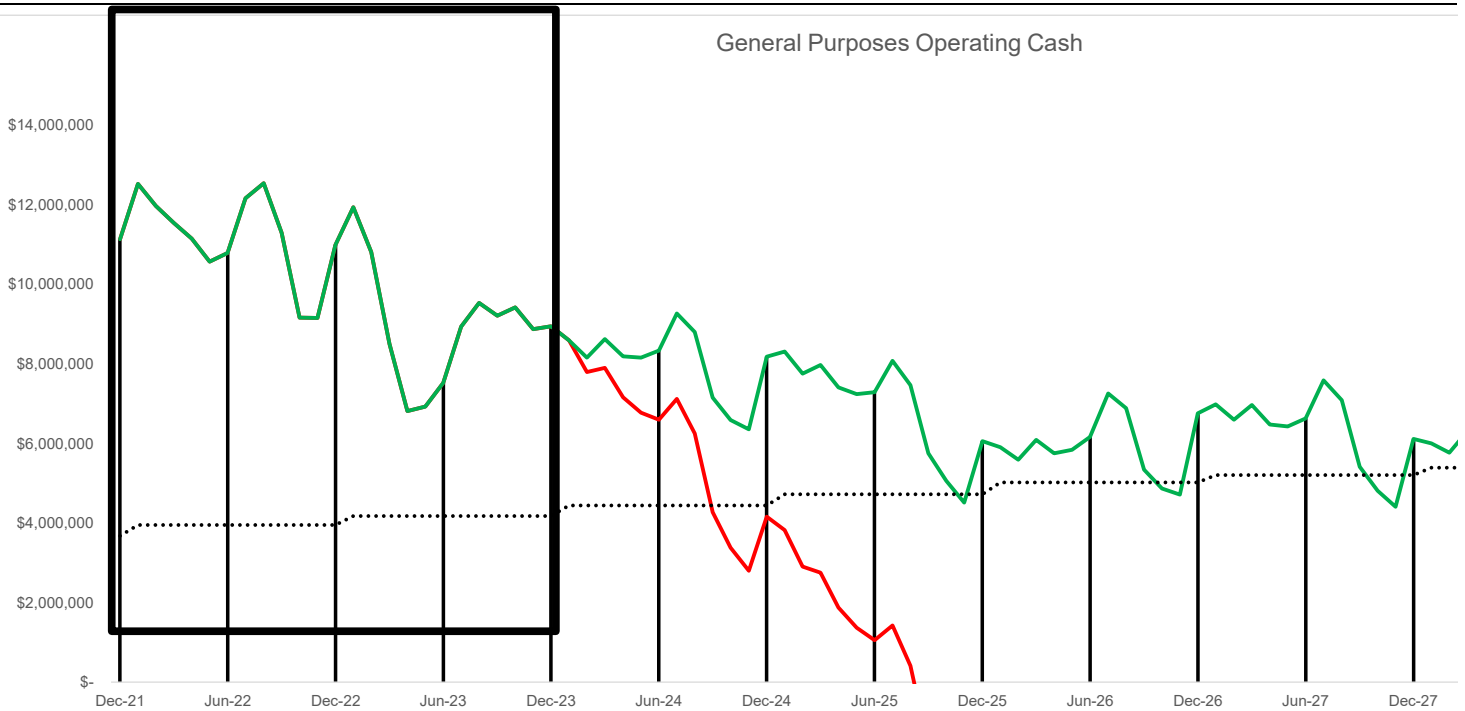
Description	2022	2023	2024	2025	2026	2027	2028
Months Effective	11	5	11	11	11	11	11
Policy Level Increase	0.00%	0.00%	6.50%	0.00%	6.50%	0.00%	6.50%
Cumulative Increases	0.00%	0.00%	6.50%	6.50%	13.42%	13.42%	20.79%

Surplus (Deficiency)	\$ 1,504,458	\$ 3,126,344	\$ (622,877)	\$ (2,454,975)	\$ 700,946	\$ (874,860)	\$ 1,148,024
Coverage (After Increase)	2.44	2.31	2.73	2.45	2.72	2.38	2.77

Ending Capital Balance	\$ 6,403,194	\$ 11,849,887	\$ 7,814,814	\$ 5,429,942	\$ 72,055	\$ 4,256,126	\$ 78,844
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Key Factors							
CIP	\$ 12,701,725	\$ 17,351,222	\$ 12,181,258	\$ 13,709,000	\$ 12,233,000	\$ 11,000,000	\$ 11,865,617
Depreciation Funding (% of)	112.50%	125.00%	125.00%	100.00%	100.00%	100.00%	100.00%
Revenue Bond Proceeds	\$ -	\$ 8,000,000	\$ -	\$ 3,100,000	\$ -	\$ 7,800,000	\$ -
GPOC Transfer to Capital Reserve	1,915,025	6,212,222	143,258	-	-	-	-

General Purposes Operating Cash



For Reference Purposes	1/1/2020	2/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020
Description	1/31/2020	2/29/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020
GPOC (Existing)	\$ 12,884,800	\$ 13,015,765	\$ 13,273,475	\$ 13,834,293	\$ 13,142,579	\$ 12,463,152	\$ 12,703,993
GPOC (w. Increase)	\$ 7,771,242	\$ 7,902,207	\$ 8,159,917	\$ 8,720,735	\$ 8,029,021	\$ 7,349,594	\$ 7,590,435
Reserve (90 Days)	\$ 3,953,860	\$ 3,953,860	\$ 3,953,860	\$ 3,953,860	\$ 3,953,860	\$ 3,953,860	\$ 3,953,860

Load by Class for Above Graphic							
Residential (Input)	38,935,267	33,391,001	32,026,840	30,053,283	19,718,645	19,423,100	26,873,074
Residential (Adjusted)	38,935,267	33,391,001	32,026,840	30,053,283	19,718,645	19,423,100	26,873,074
None Chosen	-	-	-	-	-	-	-
None Chosen	-	-	-	-	-	-	-

Scenario 1 - Debt Finance	2022	2023	2024	2025	2026	2027	2028
Policy Level Increase	0.00%	0.00%	6.00%	0.00%	6.00%	0.00%	4.00%
Revenue Bond Proceeds	\$ -	\$ 8,000,000	\$ -	\$ 9,750,000	\$ -	\$ 8,000,000	\$ -
Transfer from Ops to Capital				\$ -	\$ -	\$ -	\$ -

Scenario 1 - Bring GPOC to 90 Days	2	2	2	2	1	1	1
Policy Level Increase	0.00%	0.00%	5.75%	0.00%	5.75%	0.00%	6.00%
Revenue Bond Proceeds	\$ -	\$ 8,000,000	\$ -	\$ 5,000,000	\$ -	\$ 7,600,000	\$ -
Transfer from Ops to Capital				5,000,000	-	-	-



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Clint Whitney, Energy Services Director

Subject:

Physical Infrastructure Security Discussion (10 Minutes)

Department:

Energy Services

Recommended Motion:

This item is informational only

Summary:

In recent years, cyber security has been an emphasis for Energy Services. However, supply chain disruptions for transformers and other electrical equipment have resulted in increased risks to delivery and costs for electrical utilities. Supply chain issues combined with sabotage of critical electrical equipment could cause extended power outages with customer and business impacts.

Energy Services has electrical distribution design criteria with infrastructure capacity to support reliability, operational flexibility, planned load growth, and limited critical spare equipment. Recent media articles of electrical substation sabotage on the east coast and at least ten locations in western WA are causing staff to evaluate additional physical security at City substations. Staff are working with Richland Police Department for assistance. Staff have also contacted North American Electric Reliability Corporation (NERC) and the Electricity Information Sharing and Analysis Center (E-ISAC) for assistance with the Vulnerability of Integrated Security Analysis (VISA). Physical security principles focus on detecting, delaying, and responding to events.

Some of the recent media articles include:

- [November 2022 - Six Substations in OR & WA \(PGE, BPA, PSE, Clark Co. PUD, Cowlitz Co. PUD\)](#)
- [December 3, 2022 - North Carolina \(Duke\)](#)
- [December 25, 2022 - Pierce County Washington \(TPU & PSE\)](#)

Fiscal Impact:

Attachments:



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Clint Whitney, Energy Services Director

Subject:

Project Atlas Agro - Request for Letter of Intent (10 Minutes)

Department:

Energy Services

Recommended Motion:

This item is informational only.

Summary:

The City of Richland and the Port of Benton are responding to an economic development opportunity in the North Horn Rapids Area that is part of the 1641 acres transferred from DOE to the City, Port, and ENW. One customer currently expressing interest is [Atlas Agro](#) with plans to build a 350MW "green" fertilizer facility. For comparison, the City's peak load was 211MW on June 28, 2021 when it was 115F.

If the facility is constructed, it will be considered a New Large Single Load (NLSL) by BPA with no obligation to be served by preference power or the Federal Columbia River Power System (FCRPS). Atlas Agro's power supply options are: market-based rates, potential non-federal contracts, or BPA's New Resource (NR) rate which is ~\$90/MWh and not considered economical for most business needs. A potential longer term option is a Power Purchase Agreement (PPA) from Grant PUD's small modular reactor (SMR) project or a different SMR project enabled through financial incentives in the Inflation Reduction Act (IRA). The IRA includes production or investment tax incentives that could cover 30-50% of the project costs through DOE.

The City continues to support the potential project and is working with utility attorneys with a letter of intent to serve as a City customer provided a power supply contract is negotiated. The City's electric rate structure for the NLSL is [Schedule 100](#) and by negotiated contract. Reducing risks to the City and customers is a principle of the negotiated contract.

One thing that is getting clearer is the need for additional firm generation. Besides the City's economic development load requests, Public Power is recommending BPA augment the FCRPS with 436aMW beginning in 2028. The City is in a great position as consideration of SMRs continues.

Fiscal Impact:

Attachments:



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Items of Business

Prepared By: Clint Whitney, Energy Services Director

Subject:

BPA Status Update (10 Minutes)

Department:

Energy Services

Recommended Motion:

This item is informational only.

Summary:

1. [Reserve Distribution Clause \(RDC\)](#)

BPA has made its decision on the application of the \$500M in FY2022 excess revenues resulting from secondary power sales. BPA's Administrator announced, January 6, 2023 that 70% (\$350M) of the revenues will go towards Public Power through Reserve Distribution Clause credits, 20% (\$100M) towards debt reduction, and 10% (\$50M) towards certain one-time fish and wildlife mitigation issues. The RDC will be credited on the City's wholesale power bills from December 2022-September 2023 for an estimated total credit of \$6.9M. Attached is a breakdown of the RDC by utility and month. While this is positive for the City, the savings are largely expected to offset the increased costs on transformer and cable inventory orders.

2. [Western Resource Adequacy Program \(WRAP\)](#)

BPA announced in December 2022 its intent to join the WRAP as a binding participant. The WRAP includes planning for resource adequacy on a larger scale with other regional balancing authorities. Resource adequacy is one component of an expected Regional Transmission Organization (RTO). Previously, BPA joined CAISO RTO for an energy imbalance market (EIM) and a day ahead market (EDAM). It is unknown if additional participation of RTO functions will be aligned with CAISO though.

3. [BPA 2028 Provider of Choice](#)

In July 2022, BPA released a framework of its recommendations for power contracts beginning in 2028. The BPA recommendations were released as an [Provider of Choice](#) option. The Post-2028 framework proposed has many of the same tenants of the existing 2008 power contracts including: tiered rate methodology, transfer service, irrigation service, and low density discount interests for small rural public entities. Public Power provided a counter concept with some internal division of defined system size, augmentation and allocation of contract high water mark (CHWM) and above high water marks (AHWM).

Public Power is coalescing to a compromising proposal of a 7500aMW system size which will require 436aMW of augmentation. Additionally, the CHWM will be recalculated with 389aMW AHWM reallocated after an adjustment for utilities that have done conservation and renewable development projects. What does this mean for the City? If the compromise proposal is accepted by BPA and Public Power, then in most scenarios the City can expect to receive a higher Tier I allocation as the City has approximately 8aMW of AHWM, and completed 12aMW of conservation between FY12-26 with 2.7aMW self-funded conservation, and 0.58aMW of renewable projects. For comparison, the FY2011 CHWM for the City was 105.4aMW compared with a projected compromise 111.7aMW for FY2025. Public Power will submit the compromise proposal to BPA on February 3, 2023. The timeline for the 2028 power contracts is attached with all contracts expected to be signed 3Q25.

Attached is a snapshot of the potential augmentation projects BPA has considered in anticipation of needing to add 436aMW. In summary, the costs for the extended power upgrade (EPU) at CGS is promising.

Fiscal Impact:

Attachments:

1. Attachment 3 Final FY 2023 Power DD Credit Estimates by PF Customer
2. BPA Wholesale Power Contract Timeline
3. Potential BPA System Size Augmentation Projects and Rate Impacts

FY 2023 Power Dividend Distribution Credit Estimates by PF Customer net Low Density Discount													
(the amounts below may differ from billed amounts due to rounding)													
BESID	Preference Customer	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total	
10005	Alder Mutual	(\$4,128)	(\$3,409)	(\$2,955)	(\$3,528)	(\$2,739)	(\$3,795)	(\$4,055)	(\$3,850)	(\$3,720)	(\$3,438)	(\$35,617)	
10015	Asotin County PUD #1	(\$4,399)	(\$3,633)	(\$3,149)	(\$3,759)	(\$2,919)	(\$4,044)	(\$4,321)	(\$4,103)	(\$3,965)	(\$3,664)	(\$37,956)	
10024	Benton County PUD #1	(\$800,297)	(\$661,011)	(\$572,913)	(\$683,943)	(\$530,990)	(\$735,691)	(\$786,101)	(\$746,368)	(\$721,307)	(\$666,563)	(\$6,905,184)	
10025	Benton REA	(\$427,874)	(\$353,406)	(\$306,305)	(\$365,666)	(\$283,891)	(\$393,333)	(\$420,285)	(\$399,041)	(\$385,643)	(\$356,374)	(\$3,691,818)	
10027	Big Bend Elec Coop	(\$431,961)	(\$356,781)	(\$309,230)	(\$369,158)	(\$286,602)	(\$397,090)	(\$424,299)	(\$402,852)	(\$389,326)	(\$359,778)	(\$3,727,077)	
10029	Blachly Lane Elec Coop	(\$123,456)	(\$101,970)	(\$88,379)	(\$105,507)	(\$81,912)	(\$113,490)	(\$121,266)	(\$115,137)	(\$111,271)	(\$102,826)	(\$1,065,214)	
10044	Canby, City of	(\$155,801)	(\$128,685)	(\$111,534)	(\$133,149)	(\$103,373)	(\$143,224)	(\$153,038)	(\$145,302)	(\$140,423)	(\$129,766)	(\$1,344,295)	
10046	Central Electric Coop	(\$576,983)	(\$476,563)	(\$413,048)	(\$493,096)	(\$382,823)	(\$530,404)	(\$566,748)	(\$538,102)	(\$520,034)	(\$480,565)	(\$4,978,366)	
10047	Central Lincoln PUD	(\$1,201,900)	(\$992,719)	(\$860,411)	(\$1,027,157)	(\$797,451)	(\$1,104,874)	(\$1,180,581)	(\$1,120,908)	(\$1,083,271)	(\$1,001,055)	(\$10,370,327)	
10055	Albion, City of	(\$3,055)	(\$2,524)	(\$2,187)	(\$2,611)	(\$2,027)	(\$2,809)	(\$3,001)	(\$2,850)	(\$2,754)	(\$2,545)	(\$26,363)	
10057	Ashland, City of	(\$160,650)	(\$132,690)	(\$115,005)	(\$137,293)	(\$106,590)	(\$147,681)	(\$157,800)	(\$149,824)	(\$144,794)	(\$133,804)	(\$1,386,131)	
10059	Bandon, City of	(\$58,601)	(\$48,402)	(\$41,951)	(\$50,081)	(\$38,881)	(\$53,870)	(\$57,561)	(\$54,652)	(\$52,817)	(\$48,808)	(\$505,624)	
10061	Blaine, City of	(\$67,095)	(\$55,418)	(\$48,032)	(\$57,341)	(\$44,517)	(\$61,679)	(\$65,905)	(\$62,574)	(\$60,473)	(\$55,883)	(\$578,917)	
10062	Bonnors Ferry, City of	(\$40,804)	(\$33,703)	(\$29,211)	(\$34,872)	(\$27,073)	(\$37,510)	(\$40,081)	(\$38,055)	(\$36,777)	(\$33,986)	(\$352,072)	
10064	Burley, City of	(\$107,895)	(\$89,116)	(\$77,239)	(\$92,208)	(\$71,587)	(\$99,184)	(\$105,981)	(\$100,624)	(\$97,245)	(\$89,865)	(\$930,944)	
10065	Cascade Locks, City of	(\$16,829)	(\$13,900)	(\$12,047)	(\$14,382)	(\$11,166)	(\$15,470)	(\$16,530)	(\$15,695)	(\$15,168)	(\$14,017)	(\$145,200)	
10066	Centralia, City of	(\$186,963)	(\$154,423)	(\$133,842)	(\$159,780)	(\$124,048)	(\$171,870)	(\$183,646)	(\$174,364)	(\$168,509)	(\$155,720)	(\$1,613,165)	
10067	Cheney, City of	(\$121,341)	(\$100,222)	(\$86,865)	(\$103,699)	(\$80,509)	(\$111,545)	(\$119,188)	(\$113,164)	(\$109,364)	(\$101,064)	(\$1,046,961)	
10068	Chewelah, City of	(\$20,863)	(\$17,232)	(\$14,935)	(\$17,829)	(\$13,842)	(\$19,179)	(\$20,493)	(\$19,457)	(\$18,804)	(\$17,376)	(\$180,010)	
10070	Declo, City of	(\$2,752)	(\$2,273)	(\$1,970)	(\$2,352)	(\$1,826)	(\$2,530)	(\$2,703)	(\$2,567)	(\$2,480)	(\$2,292)	(\$23,745)	
10071	Drain, City of	(\$14,687)	(\$12,131)	(\$10,514)	(\$12,551)	(\$9,745)	(\$13,501)	(\$14,426)	(\$13,697)	(\$13,237)	(\$12,233)	(\$126,722)	
10072	Ellensburg, City of	(\$183,978)	(\$151,958)	(\$131,705)	(\$157,229)	(\$122,068)	(\$169,126)	(\$180,714)	(\$171,580)	(\$165,819)	(\$153,234)	(\$1,587,411)	
10074	Forest Grove, City of	(\$204,689)	(\$169,064)	(\$146,532)	(\$174,929)	(\$135,809)	(\$188,165)	(\$201,058)	(\$190,895)	(\$184,486)	(\$170,484)	(\$1,766,111)	
10076	Heyburn, City of	(\$36,953)	(\$30,521)	(\$26,453)	(\$31,580)	(\$24,518)	(\$33,970)	(\$36,297)	(\$34,463)	(\$33,305)	(\$30,778)	(\$318,838)	
10078	McCleary, City of	(\$28,518)	(\$23,554)	(\$20,415)	(\$24,371)	(\$18,921)	(\$26,215)	(\$28,012)	(\$26,596)	(\$25,703)	(\$23,752)	(\$246,057)	
10079	McMinnville, City of	(\$654,746)	(\$540,792)	(\$468,716)	(\$559,553)	(\$434,418)	(\$601,890)	(\$643,132)	(\$610,624)	(\$590,121)	(\$545,334)	(\$5,649,326)	
10080	Milton, Town of	(\$55,193)	(\$45,587)	(\$39,512)	(\$47,169)	(\$36,620)	(\$50,738)	(\$54,214)	(\$51,474)	(\$49,746)	(\$45,970)	(\$476,223)	
10081	Milton-Freewater, City of	(\$74,182)	(\$61,271)	(\$53,105)	(\$63,396)	(\$49,219)	(\$68,193)	(\$72,866)	(\$69,183)	(\$66,860)	(\$61,785)	(\$640,060)	
10082	Minidoka, City of	(\$764)	(\$631)	(\$547)	(\$653)	(\$507)	(\$702)	(\$750)	(\$712)	(\$688)	(\$636)	(\$6,590)	
10083	Monmouth, City of	(\$64,159)	(\$52,993)	(\$45,930)	(\$54,831)	(\$42,569)	(\$58,980)	(\$63,021)	(\$59,836)	(\$57,827)	(\$53,438)	(\$553,584)	
10086	Plummer, City of	(\$30,262)	(\$24,995)	(\$21,664)	(\$25,862)	(\$20,079)	(\$27,819)	(\$29,725)	(\$28,223)	(\$27,275)	(\$25,205)	(\$261,109)	
10087	Port Angeles, City of	(\$452,506)	(\$373,751)	(\$323,938)	(\$386,716)	(\$300,234)	(\$415,976)	(\$444,479)	(\$422,013)	(\$407,843)	(\$376,889)	(\$3,904,345)	
10089	Richland, City of	(\$799,463)	(\$660,322)	(\$572,316)	(\$683,230)	(\$530,437)	(\$734,924)	(\$785,282)	(\$745,589)	(\$720,555)	(\$665,868)	(\$6,897,986)	
10091	Rupert, City of	(\$72,285)	(\$59,705)	(\$51,747)	(\$61,776)	(\$47,961)	(\$66,450)	(\$71,003)	(\$67,414)	(\$65,151)	(\$60,206)	(\$623,698)	
10094	Soda Springs, City of	(\$23,301)	(\$19,245)	(\$16,680)	(\$19,913)	(\$15,460)	(\$21,420)	(\$22,887)	(\$21,730)	(\$21,001)	(\$19,407)	(\$201,044)	
10095	Sumas, Town of	(\$27,949)	(\$23,084)	(\$20,008)	(\$23,885)	(\$18,544)	(\$25,693)	(\$27,453)	(\$26,065)	(\$25,190)	(\$23,278)	(\$241,149)	
10097	Troy, City of	(\$15,635)	(\$12,914)	(\$11,193)	(\$13,362)	(\$10,374)	(\$14,373)	(\$15,358)	(\$14,581)	(\$14,092)	(\$13,022)	(\$134,904)	
10101	Clallam County PUD #1	(\$552,305)	(\$456,181)	(\$395,382)	(\$472,006)	(\$366,450)	(\$507,719)	(\$542,508)	(\$515,087)	(\$497,792)	(\$460,012)	(\$4,765,442)	
10103	Clark County PUD #1	(\$1,261,124)	(\$1,041,635)	(\$902,808)	(\$1,077,770)	(\$836,745)	(\$1,159,317)	(\$1,238,754)	(\$1,176,141)	(\$1,136,649)	(\$1,050,382)	(\$10,881,325)	
10105	Clatskanie PUD	(\$281,519)	(\$232,523)	(\$201,533)	(\$240,589)	(\$186,786)	(\$258,793)	(\$276,526)	(\$262,549)	(\$253,733)	(\$234,476)	(\$2,429,027)	
10106	Clearwater Power	(\$169,790)	(\$140,239)	(\$121,549)	(\$145,105)	(\$112,654)	(\$156,083)	(\$166,778)	(\$158,349)	(\$153,032)	(\$141,417)	(\$1,464,996)	
10109	Columbia Basin Elec Coop	(\$85,272)	(\$70,431)	(\$61,044)	(\$72,875)	(\$56,578)	(\$78,389)	(\$83,760)	(\$79,526)	(\$76,856)	(\$71,023)	(\$735,754)	
10111	Columbia Power Coop	(\$22,798)	(\$18,830)	(\$16,321)	(\$19,484)	(\$15,126)	(\$20,958)	(\$22,394)	(\$21,262)	(\$20,548)	(\$18,988)	(\$196,709)	
10112	Columbia River PUD	(\$443,800)	(\$366,560)	(\$317,705)	(\$379,276)	(\$294,457)	(\$407,973)	(\$435,928)	(\$413,894)	(\$399,996)	(\$369,638)	(\$3,829,227)	
10113	Columbia REA	(\$265,016)	(\$218,892)	(\$189,719)	(\$226,486)	(\$175,836)	(\$243,622)	(\$260,315)	(\$247,158)	(\$238,859)	(\$220,730)	(\$2,286,633)	

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BESID	Preference Customer	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total	
10116	Consolidated Irrigation District #19	(\$1,744)	(\$1,441)	(\$1,249)	(\$1,491)	(\$1,157)	(\$1,604)	(\$1,713)	(\$1,627)	(\$1,572)	(\$1,453)	(\$15,051)	
10118	Consumers Power	(\$324,207)	(\$267,782)	(\$232,092)	(\$277,071)	(\$215,109)	(\$298,035)	(\$318,457)	(\$302,360)	(\$292,208)	(\$270,030)	(\$2,797,351)	
10121	Coos Curry Elec Coop	(\$294,129)	(\$242,938)	(\$210,559)	(\$251,365)	(\$195,152)	(\$270,384)	(\$288,911)	(\$274,308)	(\$265,098)	(\$244,978)	(\$2,537,822)	
10123	Cowlitz County PUD #1	(\$1,779,284)	(\$1,469,613)	(\$1,273,746)	(\$1,520,596)	(\$1,180,540)	(\$1,635,647)	(\$1,747,723)	(\$1,659,384)	(\$1,603,666)	(\$1,481,955)	(\$15,352,154)	
10136	Douglas Electric Cooperative	(\$131,906)	(\$108,949)	(\$94,428)	(\$112,728)	(\$87,518)	(\$121,257)	(\$129,566)	(\$123,017)	(\$118,886)	(\$109,864)	(\$1,138,119)	
10142	East End Mutual Electric	(\$20,009)	(\$16,527)	(\$14,324)	(\$17,100)	(\$13,276)	(\$18,394)	(\$19,654)	(\$18,661)	(\$18,034)	(\$16,665)	(\$172,644)	
10144	Eatonville, City of	(\$25,841)	(\$21,344)	(\$18,499)	(\$22,084)	(\$17,146)	(\$23,755)	(\$25,383)	(\$24,100)	(\$23,291)	(\$21,523)	(\$222,966)	
10156	Elmhurst Mutual P & L	(\$247,313)	(\$204,270)	(\$177,046)	(\$211,357)	(\$164,090)	(\$227,348)	(\$242,926)	(\$230,648)	(\$222,903)	(\$205,986)	(\$2,133,887)	
10157	Emerald PUD	(\$172,294)	(\$142,308)	(\$123,341)	(\$147,245)	(\$114,316)	(\$158,385)	(\$169,238)	(\$160,684)	(\$155,289)	(\$143,503)	(\$1,486,603)	
10158	Energy Northwest	(\$19,086)	(\$15,764)	(\$13,663)	(\$16,311)	(\$12,663)	(\$17,545)	(\$18,747)	(\$17,800)	(\$17,202)	(\$15,896)	(\$164,677)	
10170	Eugene Water & Electric Board	(\$927,218)	(\$765,843)	(\$663,772)	(\$792,410)	(\$615,201)	(\$852,366)	(\$910,771)	(\$864,735)	(\$835,700)	(\$772,274)	(\$8,000,290)	
10172	U.S. Airforce Base, Fairchild	(\$44,093)	(\$36,419)	(\$31,565)	(\$37,682)	(\$29,255)	(\$40,533)	(\$43,311)	(\$41,122)	(\$39,741)	(\$36,725)	(\$380,446)	
10173	Fall River Elec Coop	(\$232,296)	(\$191,866)	(\$166,295)	(\$198,522)	(\$154,126)	(\$213,543)	(\$228,175)	(\$216,642)	(\$209,368)	(\$193,478)	(\$2,004,311)	
10174	Farmers Elec Coop	(\$3,890)	(\$3,213)	(\$2,785)	(\$3,324)	(\$2,581)	(\$3,576)	(\$3,821)	(\$3,628)	(\$3,506)	(\$3,240)	(\$33,564)	
10177	Ferry County PUD #1	(\$66,772)	(\$55,151)	(\$47,800)	(\$57,064)	(\$44,303)	(\$61,382)	(\$65,588)	(\$62,272)	(\$60,182)	(\$55,614)	(\$576,128)	
10179	Flathead Elec Coop	(\$1,279,760)	(\$1,057,028)	(\$916,149)	(\$1,093,697)	(\$849,110)	(\$1,176,448)	(\$1,257,060)	(\$1,193,521)	(\$1,153,446)	(\$1,065,904)	(\$11,042,123)	
10183	Franklin County PUD #1	(\$478,260)	(\$395,023)	(\$342,375)	(\$408,727)	(\$317,322)	(\$439,652)	(\$469,777)	(\$446,032)	(\$431,055)	(\$398,340)	(\$4,126,563)	
10186	Glacier Elec Coop	(\$136,572)	(\$112,803)	(\$97,769)	(\$116,716)	(\$90,614)	(\$125,547)	(\$134,149)	(\$127,369)	(\$123,092)	(\$113,750)	(\$1,178,381)	
10190	Grant County PUD #2	(\$39,824)	(\$32,893)	(\$28,509)	(\$34,034)	(\$26,423)	(\$36,609)	(\$39,117)	(\$37,140)	(\$35,893)	(\$33,169)	(\$343,611)	
10191	Grays Harbor PUD #1	(\$482,064)	(\$398,164)	(\$345,097)	(\$411,977)	(\$319,845)	(\$443,148)	(\$473,513)	(\$449,579)	(\$434,483)	(\$401,508)	(\$4,159,378)	
10197	Harney Elec Coop	(\$159,549)	(\$131,781)	(\$114,217)	(\$136,352)	(\$105,859)	(\$146,669)	(\$156,719)	(\$148,797)	(\$143,801)	(\$132,887)	(\$1,376,631)	
10202	Hood River Elec Coop	(\$100,489)	(\$82,999)	(\$71,937)	(\$85,879)	(\$66,673)	(\$92,377)	(\$98,706)	(\$93,717)	(\$90,570)	(\$83,697)	(\$867,044)	
10203	Idaho County L & P	(\$44,009)	(\$36,349)	(\$31,505)	(\$37,610)	(\$29,200)	(\$40,456)	(\$43,228)	(\$41,043)	(\$39,665)	(\$36,655)	(\$379,720)	
10204	Idaho Falls Power	(\$312,930)	(\$258,467)	(\$224,019)	(\$267,433)	(\$207,626)	(\$287,668)	(\$307,379)	(\$291,842)	(\$282,043)	(\$260,637)	(\$2,700,044)	
10209	Inland P & L	(\$737,904)	(\$609,477)	(\$528,247)	(\$630,620)	(\$489,593)	(\$678,334)	(\$724,815)	(\$688,179)	(\$665,072)	(\$614,595)	(\$6,366,836)	
10230	Kittitas County PUD #1	(\$67,477)	(\$55,733)	(\$48,305)	(\$57,666)	(\$44,770)	(\$62,029)	(\$66,280)	(\$62,930)	(\$60,817)	(\$56,201)	(\$582,208)	
10231	Klickitat County PUD #1	(\$255,680)	(\$211,181)	(\$183,035)	(\$218,507)	(\$169,642)	(\$235,040)	(\$251,145)	(\$238,451)	(\$230,444)	(\$212,954)	(\$2,206,079)	
10234	Kootenai Electric Coop	(\$391,234)	(\$323,143)	(\$280,075)	(\$334,353)	(\$259,580)	(\$359,651)	(\$384,294)	(\$364,870)	(\$352,619)	(\$325,856)	(\$3,375,675)	
10235	Lakeview L & P (WA)	(\$247,931)	(\$204,780)	(\$177,488)	(\$211,884)	(\$164,500)	(\$227,916)	(\$243,533)	(\$231,224)	(\$223,460)	(\$206,500)	(\$2,139,216)	
10236	Lane County Elec Coop	(\$205,881)	(\$170,049)	(\$147,385)	(\$175,948)	(\$136,600)	(\$189,261)	(\$202,229)	(\$192,007)	(\$185,560)	(\$171,477)	(\$1,776,397)	
10237	Lewis County PUD #1	(\$334,013)	(\$275,881)	(\$239,112)	(\$285,451)	(\$221,615)	(\$307,049)	(\$328,088)	(\$311,505)	(\$301,045)	(\$278,197)	(\$2,881,956)	
10239	Lincoln Elec Coop (MT)	(\$99,151)	(\$81,894)	(\$70,980)	(\$84,735)	(\$65,786)	(\$91,147)	(\$97,392)	(\$92,469)	(\$89,365)	(\$82,582)	(\$855,501)	
10242	Lost River Elec Coop	(\$67,615)	(\$55,847)	(\$48,404)	(\$57,784)	(\$44,862)	(\$62,156)	(\$66,415)	(\$63,058)	(\$60,941)	(\$56,316)	(\$583,398)	
10244	Lower Valley Energy	(\$612,031)	(\$505,511)	(\$438,138)	(\$523,048)	(\$406,077)	(\$562,623)	(\$601,174)	(\$570,788)	(\$551,622)	(\$509,756)	(\$5,280,768)	
10246	Mason County PUD #1	(\$68,943)	(\$56,944)	(\$49,354)	(\$58,919)	(\$45,743)	(\$63,377)	(\$67,720)	(\$64,297)	(\$62,138)	(\$57,422)	(\$594,857)	
10247	Mason County PUD #3	(\$613,167)	(\$506,450)	(\$438,951)	(\$524,019)	(\$406,831)	(\$563,667)	(\$602,290)	(\$571,847)	(\$552,646)	(\$510,703)	(\$5,290,571)	
10256	Midstate Elec Coop	(\$331,602)	(\$273,889)	(\$237,386)	(\$283,390)	(\$220,015)	(\$304,832)	(\$325,720)	(\$309,256)	(\$298,872)	(\$276,189)	(\$2,861,151)	
10258	Mission Valley	(\$275,472)	(\$227,528)	(\$197,203)	(\$235,421)	(\$182,773)	(\$253,233)	(\$270,585)	(\$256,908)	(\$248,282)	(\$229,439)	(\$2,376,844)	
10259	Missoula Elec Coop	(\$191,766)	(\$158,391)	(\$137,281)	(\$163,885)	(\$127,235)	(\$176,285)	(\$188,365)	(\$178,844)	(\$172,839)	(\$159,721)	(\$1,654,612)	
10260	Modern Elec Coop	(\$201,639)	(\$166,545)	(\$144,348)	(\$172,322)	(\$133,785)	(\$185,361)	(\$198,062)	(\$188,051)	(\$181,737)	(\$167,944)	(\$1,739,794)	
10273	Nespelem Valley Elec Coop	(\$40,350)	(\$33,327)	(\$28,885)	(\$34,483)	(\$26,772)	(\$37,092)	(\$39,634)	(\$37,631)	(\$36,367)	(\$33,607)	(\$348,148)	
10278	Northern Lights	(\$255,229)	(\$210,809)	(\$182,712)	(\$218,122)	(\$169,342)	(\$234,625)	(\$250,702)	(\$238,030)	(\$230,038)	(\$212,579)	(\$2,202,188)	
10279	Northern Wasco County PUD	(\$496,837)	(\$410,366)	(\$355,673)	(\$424,602)	(\$329,647)	(\$456,729)	(\$488,024)	(\$463,357)	(\$447,798)	(\$413,812)	(\$4,286,845)	
10284	Ohop Mutual Light Company	(\$73,997)	(\$61,118)	(\$52,972)	(\$63,238)	(\$49,096)	(\$68,023)	(\$72,684)	(\$69,010)	(\$66,693)	(\$61,631)	(\$638,462)	
10285	Okanogan County Elec Coop	(\$46,439)	(\$38,357)	(\$33,244)	(\$39,687)	(\$30,812)	(\$42,690)	(\$45,615)	(\$43,310)	(\$41,855)	(\$38,679)	(\$400,688)	
10286	Okanogan County PUD #1	(\$352,207)	(\$290,908)	(\$252,136)	(\$301,000)	(\$233,686)	(\$323,774)	(\$345,959)	(\$328,472)	(\$317,443)	(\$293,351)	(\$3,038,936)	

(the amounts below may differ from billed amounts due to rounding)													
	BESID	Preference Customer	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total
	10288	Orcas P & L	(\$177,638)	(\$146,721)	(\$127,166)	(\$151,811)	(\$117,861)	(\$163,297)	(\$174,487)	(\$165,667)	(\$160,104)	(\$147,953)	(\$1,532,705)
	10291	Oregon Trail Elec Coop	(\$575,787)	(\$475,575)	(\$412,191)	(\$492,073)	(\$382,029)	(\$529,305)	(\$565,573)	(\$536,986)	(\$518,956)	(\$479,569)	(\$4,968,044)
	10294	Pacific County PUD #2	(\$126,124)	(\$104,173)	(\$90,289)	(\$107,787)	(\$83,682)	(\$115,943)	(\$123,887)	(\$117,625)	(\$113,676)	(\$105,048)	(\$1,088,234)
	10304	Parkland L & W	(\$107,911)	(\$89,130)	(\$77,251)	(\$92,222)	(\$71,598)	(\$99,199)	(\$105,997)	(\$100,639)	(\$97,260)	(\$89,878)	(\$931,085)
	10306	Pend Oreille County PUD #1	(\$197,684)	(\$163,278)	(\$141,517)	(\$168,943)	(\$131,162)	(\$181,725)	(\$194,177)	(\$184,362)	(\$178,172)	(\$164,650)	(\$1,705,670)
	10307	Peninsula Light Company	(\$548,482)	(\$453,023)	(\$392,645)	(\$468,738)	(\$363,913)	(\$504,204)	(\$538,753)	(\$511,521)	(\$494,346)	(\$456,827)	(\$4,732,452)
	10326	U.S. Naval Base, Bremerton	(\$233,667)	(\$192,999)	(\$167,276)	(\$199,694)	(\$155,036)	(\$214,803)	(\$229,522)	(\$217,921)	(\$210,603)	(\$194,620)	(\$2,016,141)
	10331	Raft River Elec Coop	(\$260,860)	(\$215,459)	(\$186,743)	(\$222,934)	(\$173,078)	(\$239,801)	(\$256,233)	(\$243,281)	(\$235,113)	(\$217,269)	(\$2,250,771)
	10333	Ravalli County Elec Coop	(\$132,926)	(\$109,791)	(\$95,158)	(\$113,600)	(\$88,195)	(\$122,195)	(\$130,568)	(\$123,968)	(\$119,806)	(\$110,713)	(\$1,146,920)
	10338	Riverside Elec Coop	(\$17,582)	(\$14,522)	(\$12,587)	(\$15,026)	(\$11,666)	(\$16,163)	(\$17,270)	(\$16,397)	(\$15,847)	(\$14,644)	(\$151,704)
	10342	Salem Elec Coop	(\$296,813)	(\$245,155)	(\$212,481)	(\$253,659)	(\$196,933)	(\$272,852)	(\$291,548)	(\$276,812)	(\$267,517)	(\$247,214)	(\$2,560,984)
	10343	Salmon River Elec Coop	(\$89,872)	(\$74,231)	(\$64,337)	(\$76,806)	(\$59,630)	(\$82,617)	(\$88,278)	(\$83,816)	(\$81,002)	(\$74,854)	(\$775,443)
	10349	Seattle City Light	(\$3,578,153)	(\$2,955,402)	(\$2,561,512)	(\$3,057,928)	(\$2,374,074)	(\$3,289,297)	(\$3,514,683)	(\$3,337,032)	(\$3,224,984)	(\$2,980,221)	(\$30,873,286)
	10352	Skamania County PUD #1	(\$115,870)	(\$95,703)	(\$82,948)	(\$99,023)	(\$76,879)	(\$106,516)	(\$113,814)	(\$108,062)	(\$104,433)	(\$96,507)	(\$999,755)
	10354	Snohomish County PUD #1	(\$3,025,153)	(\$2,498,648)	(\$2,165,633)	(\$2,585,328)	(\$2,007,163)	(\$2,780,939)	(\$2,971,492)	(\$2,821,297)	(\$2,726,566)	(\$2,519,631)	(\$26,101,850)
	10360	South Side Elec	(\$49,279)	(\$40,702)	(\$35,277)	(\$42,114)	(\$32,696)	(\$45,300)	(\$48,404)	(\$45,958)	(\$44,415)	(\$41,044)	(\$425,189)
	10363	Springfield Utility Board	(\$734,583)	(\$606,734)	(\$525,870)	(\$627,783)	(\$487,390)	(\$675,282)	(\$721,553)	(\$685,082)	(\$662,079)	(\$611,830)	(\$6,338,186)
	10369	Surprise Valley Elec Coop	(\$116,399)	(\$96,141)	(\$83,328)	(\$99,476)	(\$77,230)	(\$107,003)	(\$114,335)	(\$108,556)	(\$104,911)	(\$96,948)	(\$1,004,327)
	10370	Tacoma Public Utilities	(\$1,453,017)	(\$1,200,130)	(\$1,040,179)	(\$1,241,764)	(\$964,064)	(\$1,335,718)	(\$1,427,243)	(\$1,355,102)	(\$1,309,602)	(\$1,210,209)	(\$12,537,028)
	10371	Tanner Elec Coop	(\$84,637)	(\$69,907)	(\$60,590)	(\$72,332)	(\$56,156)	(\$77,805)	(\$83,136)	(\$78,934)	(\$76,283)	(\$70,494)	(\$730,274)
	10376	Tillamook PUD #1	(\$429,823)	(\$355,015)	(\$307,700)	(\$367,331)	(\$285,184)	(\$395,124)	(\$422,198)	(\$400,858)	(\$387,399)	(\$357,997)	(\$3,708,629)
	10378	Coulee Dam, City of	(\$15,142)	(\$12,507)	(\$10,840)	(\$12,940)	(\$10,046)	(\$13,919)	(\$14,873)	(\$14,121)	(\$13,647)	(\$12,612)	(\$130,647)
	10379	Steilacoom, Town of	(\$36,747)	(\$30,351)	(\$26,306)	(\$31,404)	(\$24,381)	(\$33,780)	(\$36,095)	(\$34,271)	(\$33,120)	(\$30,606)	(\$317,061)
	10388	Umatilla Elec Coop	(\$797,143)	(\$658,407)	(\$570,655)	(\$681,247)	(\$528,898)	(\$732,792)	(\$783,003)	(\$743,426)	(\$718,464)	(\$663,936)	(\$6,877,971)
	10391	United Electric Coop	(\$222,001)	(\$183,363)	(\$158,925)	(\$189,724)	(\$147,295)	(\$204,079)	(\$218,063)	(\$207,041)	(\$200,089)	(\$184,903)	(\$1,915,483)
	10406	U.S. DOE Albany Research Center	(\$3,516)	(\$2,904)	(\$2,517)	(\$3,005)	(\$2,333)	(\$3,232)	(\$3,454)	(\$3,279)	(\$3,169)	(\$2,928)	(\$30,337)
	10408	U.S. Naval Station, Everett (Jim Creek)	(\$11,718)	(\$9,679)	(\$8,389)	(\$10,014)	(\$7,775)	(\$10,772)	(\$11,510)	(\$10,928)	(\$10,561)	(\$9,760)	(\$101,106)
	10409	U.S. Naval Submarine Base, Bangor	(\$156,663)	(\$129,397)	(\$112,151)	(\$133,886)	(\$103,944)	(\$144,016)	(\$153,884)	(\$146,106)	(\$141,200)	(\$130,483)	(\$1,351,730)
	10426	U.S. DOE Richland Operations Office	(\$131,748)	(\$108,818)	(\$94,315)	(\$112,593)	(\$87,413)	(\$121,112)	(\$129,411)	(\$122,870)	(\$118,744)	(\$109,732)	(\$1,136,756)
	10434	Vera Irrigation District	(\$208,329)	(\$172,071)	(\$149,138)	(\$178,040)	(\$138,225)	(\$191,511)	(\$204,634)	(\$194,290)	(\$187,767)	(\$173,516)	(\$1,797,521)
	10436	Vigilante Elec Coop	(\$134,860)	(\$111,388)	(\$96,543)	(\$115,253)	(\$89,478)	(\$123,973)	(\$132,468)	(\$125,772)	(\$121,549)	(\$112,324)	(\$1,163,608)
	10440	Wahkiakum County PUD #1	(\$36,223)	(\$29,918)	(\$25,931)	(\$30,956)	(\$24,033)	(\$33,298)	(\$35,580)	(\$33,782)	(\$32,647)	(\$30,170)	(\$312,538)
	10442	Wasco Elec Coop	(\$95,142)	(\$78,584)	(\$68,110)	(\$81,310)	(\$63,126)	(\$87,462)	(\$93,455)	(\$88,731)	(\$85,752)	(\$79,244)	(\$820,916)
	10446	Wells Rural Elec Coop	(\$679,822)	(\$561,504)	(\$486,668)	(\$580,983)	(\$451,056)	(\$624,942)	(\$667,763)	(\$634,011)	(\$612,723)	(\$566,220)	(\$5,865,692)
	10448	West Oregon Elec Coop	(\$60,411)	(\$49,897)	(\$43,247)	(\$51,628)	(\$40,082)	(\$55,534)	(\$59,339)	(\$56,340)	(\$54,448)	(\$50,316)	(\$521,242)
	10451	Whatcom County PUD #1	(\$205,848)	(\$170,022)	(\$147,361)	(\$175,920)	(\$136,578)	(\$189,230)	(\$202,197)	(\$191,976)	(\$185,530)	(\$171,449)	(\$1,776,111)
	10482	Umpqua Indian Utility Cooperative	(\$22,564)	(\$18,637)	(\$16,153)	(\$19,283)	(\$14,971)	(\$20,742)	(\$22,164)	(\$21,043)	(\$20,337)	(\$18,793)	(\$194,687)
	10502	Yakama Power	(\$133,036)	(\$109,882)	(\$95,238)	(\$113,694)	(\$88,269)	(\$122,297)	(\$130,677)	(\$124,072)	(\$119,906)	(\$110,805)	(\$1,147,876)
	13927	Kalispel Tribe Utility	(\$30,793)	(\$25,434)	(\$22,044)	(\$26,316)	(\$20,431)	(\$28,307)	(\$30,247)	(\$28,718)	(\$27,754)	(\$25,647)	(\$265,691)
	10597	Hermiston, City of	(\$99,032)	(\$81,796)	(\$70,894)	(\$84,633)	(\$65,707)	(\$91,037)	(\$97,275)	(\$92,358)	(\$89,257)	(\$82,483)	(\$854,472)
	10706	Port of Seattle - SETAC In'tl. Airport	(\$132,549)	(\$109,480)	(\$94,889)	(\$113,278)	(\$87,945)	(\$121,849)	(\$130,198)	(\$123,617)	(\$119,467)	(\$110,400)	(\$1,143,672)
	11680	Weiser, City of	(\$48,551)	(\$40,101)	(\$34,757)	(\$41,493)	(\$32,213)	(\$44,632)	(\$47,690)	(\$45,280)	(\$43,759)	(\$40,438)	(\$418,914)
	12026	Jefferson County PUD #1	(\$346,545)	(\$286,232)	(\$248,083)	(\$296,161)	(\$229,930)	(\$318,570)	(\$340,398)	(\$323,193)	(\$312,341)	(\$288,635)	(\$2,990,088)
	10298	PNGC Aggregate	(\$4,371,062)	(\$3,610,312)	(\$3,129,134)	(\$3,735,556)	(\$2,900,160)	(\$4,018,194)	(\$4,293,526)	(\$4,076,508)	(\$3,939,632)	(\$3,640,630)	(\$37,714,714)

BPA Timeline

BPA starts drafting Post-2028 Policy ROD February 1



Portfolio Craft Rates Impact Comparison				
	Unit	Full Market	Mixed	No Market
Total Delivered	2021\$	\$58.74 M	\$231.44 M	\$590.14 M
Electric Transmission	2021\$	\$4.00 M	\$22.24 M	\$60.44 M
NSR	2021\$	(\$190.42 M)	(\$68.04 M)	\$129.89 M
Portfolio Cost	2021\$	\$245.15 M	\$277.24 M	\$399.81 M
Solar	MW	0	0	0
Solar + 4-hr Battery	MW	0	156	451
Wind	MW	0	618	1945
CGS EPU	MW	170	170	170
6hr Storage	MW	0	0	0
SMR	MW	0	0	0
Total New Acquisitions/Billing Credits	aMW	500	500	500
Existing System	aMW	7000	7000	7000
New Cost	2021\$/MWh	\$55.82	\$63.12	\$91.03
Existing Cost	2021\$/MWh	\$35.00	\$35.00	\$35.00
Weighted Cost	2021\$/MWh	\$36.39	\$36.87	\$38.74
Rate Impact	2021\$	\$1.39	\$1.87	\$3.74
Rate Impact	%	3.97%	5.36%	10.67%

***Results are preliminary. Data may change from methodological or data input changes.

BPA analysis, December 1, 2022



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Other Informational Items

Prepared By: Clint Whitney, Energy Services Director

Subject:

2022 Capital Work Plan Results

Department:

Energy Services

Recommended Motion:

This is an informational item only.

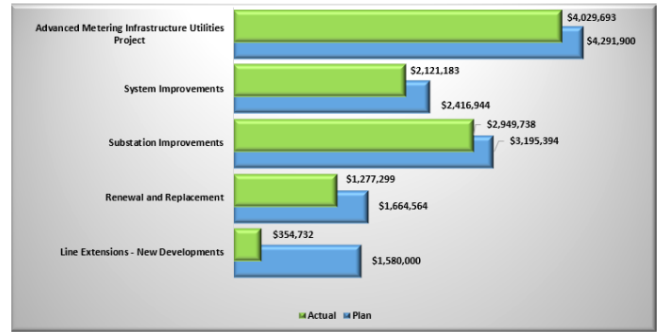
Summary:

Attached are the summary results from the 2022 capital work plan (CWP). In summary, the 2022 CWP had a budget of \$10.8M with actual accomplished CWP through December of \$10.7M. The Advanced Meter Infrastructure (AMI) project was projected to be completed at the end of 2022. However, implementation of electric meters will continue into February 2023. There are approximately 26,500 AMI electric meters installed out of 28,000 meters.

Fiscal Impact:

Attachments:

1. 2022 CWP Summary

[illegible]



UTILITY ADVISORY COMMITTEE AGENDA ITEM COVERSHEET

Meeting Date: 1/10/2023

Agenda Category: Other Informational Items

Prepared By: Clint Whitney, Energy Services Director

Subject:

2023 Capital Work Plan

Department:

Energy Services

Recommended Motion:

This is an informational item only.

Summary:

Attached is the capital work plan (CWP) for 2023.

Fiscal Impact:

Attachments:

1. 2023 Capital Work Plan Draft



2023 Capital Work Plan

Energy Services

625 Swift Blvd.
Richland, WA 99352

p. (509) 942-7403
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Executive Summary

Purpose

The purpose of this report is to provide an overview of the 2023 Capital Work Plan (CWP) Projects and how Richland Energy Services (RES) intends to strategically meet its improvement objectives, performance and operational goals while focusing on preserving infrastructure for increased reliability and ensuring the efficient use of rate payer money.

Description

The 2023 CWP includes five categories of capital improvements. These categories include types of projects contributing to RES' overall goals and improvements servicing the community. These projects are strategically evaluated and prioritized based on the City's Strategic Leadership Plan and the RES Long Range Plan (LRP).

2023 CWP Categories and Descriptions:

Substation Improvements:

A variety of major improvement projects within the ~~nine-ten~~ existing electric utility substation sites. RES will continue and complete the relay replacement project in 2023 while replacing PLC's in several substations with and updated SEL device. RES will contract the design for two substation rebuilds in which replaces aging equipment at Tapteal and Stevens Substations as well as the construction of City View Substation Bank 2. This category also includes planning, design and construction of primary overhead and underground distribution feeders from the new Gateway Substation to the City's electrical distribution system.

System Improvements:

These are new improvements to the electric utility infrastructure.

Renewal and Replacements (R&R):

Capital improvements extending the life of existing electric utility infrastructure and replacing infrastructure or equipment that has met its life expectancy.

Southwest Service Area Infrastructure Acquisition

RES will be purchasing the electrical infrastructure to serve the residence of Reata Ridge development. This area was transferred to the City in a service boundary adjustment with Benton PUD.

Line Extensions-New Developments

Capital improvement projects for the purpose of extending electrical utility infrastructure to new developer requested loads. Line Extensions utilize facility fee contributions for project funding.

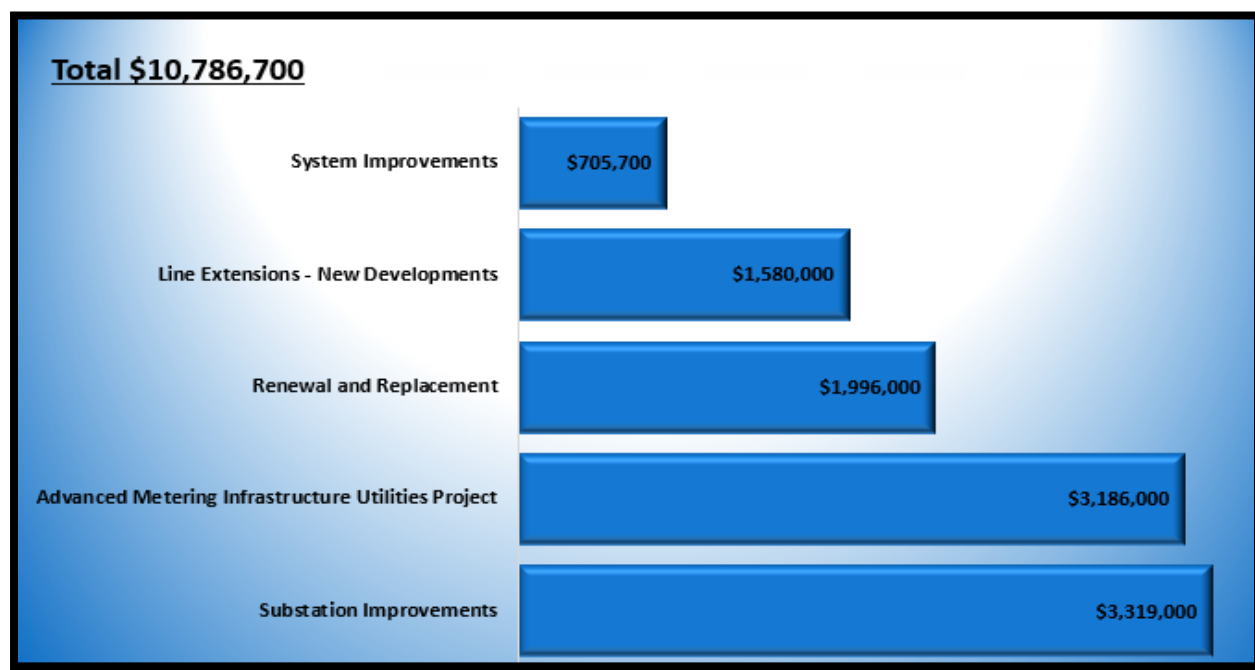
Highlights

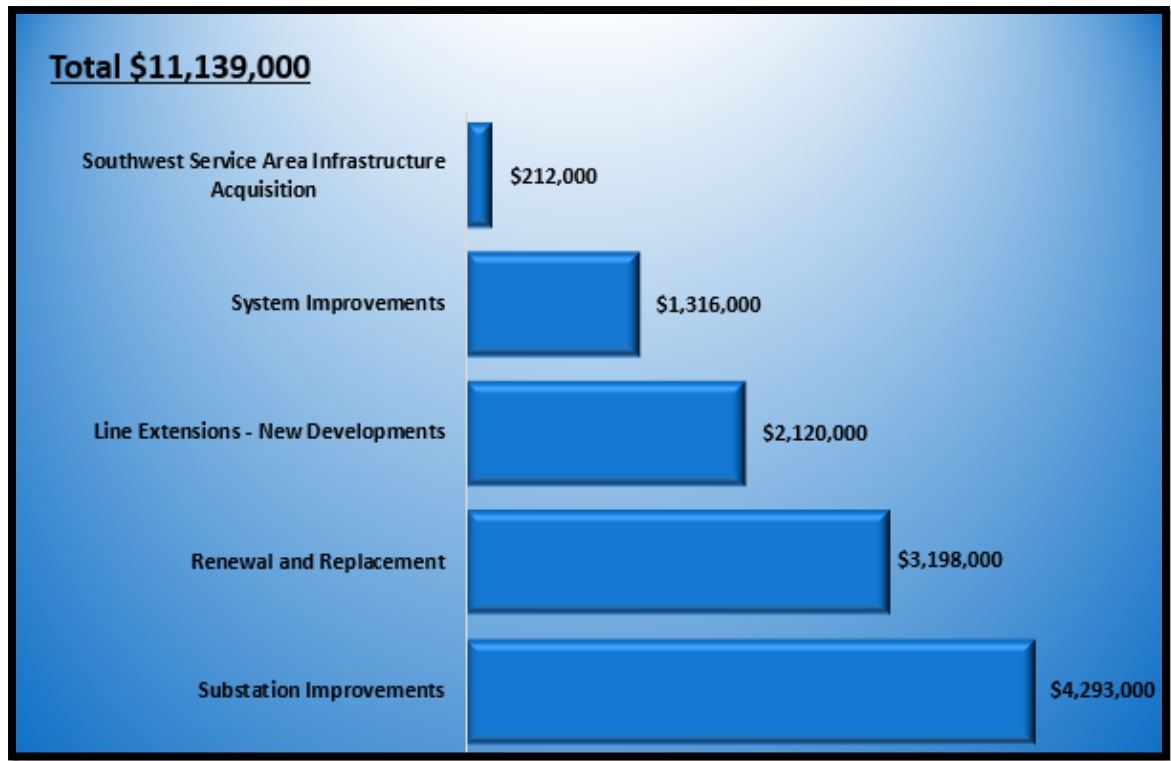
The CWP has an estimate to perform approximately \$11 million of capital work in 2023~~2~~. This amount is being presented for Council consideration in November 2022~~4~~ as part of the City's 2023~~2~~ Budget and Capital Improvement Plan (CIP).

In addition to the 2023~~2~~ planned estimate, some CWP funds not expended in 2022~~4~~ may be carried over into 2023~~2~~ to complete encumbered 2022~~4~~ projects.

Each category of work has an overall project estimate consisting of material, equipment, overhead, engineering, expert services and inside labor costs. These totaled costs for each category of work equal the CWP overall estimate.

Below is a graph representing dollars associated for each work category.





Project Information

Purpose and Project Selection

The driving purpose for developing and implementing a capital work plan is to maintain reliable power at the lowest responsible cost to Richland's electric utility customers. Programmed investment in utility infrastructure avoids unplanned service outages and costly repairs.

The selection of 2023³² CWP projects are intended to align with the City's Strategic Leadership Plan and the Electric Utility Long Range Plan (LRP). These

projects result from the evaluation of required maintenance, aging infrastructure, system capacity, reliability, and economic development opportunities

Projects by Category

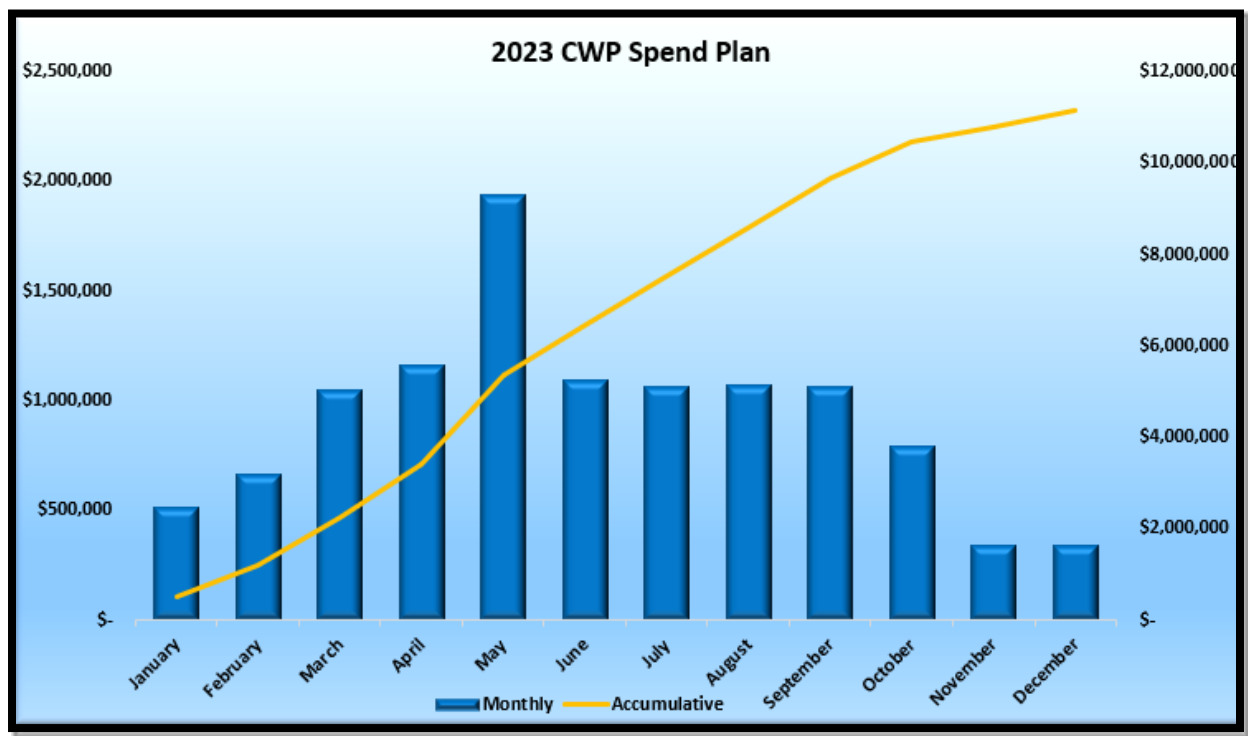
Project	Total
▣ Substation Improvements	\$3,319,000
Leslie Road Feeder 145	\$1,569,000
Gateway Substation Feeder 2	\$425,000
Dallas Road Substation	\$1,325,000
▣ Advanced Metering Infrastructure Utilities Project	\$3,186,000
Advanced Metering Infrastructure Utilities Project	\$3,186,000
▣ Renewal and Replacement	\$1,996,000
Underground Cable Replacement	\$1,916,000
Transformer Re-Gasket	\$80,000
⊕ Line Extensions - New Developments	\$1,580,000
▣ System Improvements	\$705,700
Relay Replacements	\$207,700
New Services (Cable)	\$498,000
Grand Total	\$10,786,700

Project	Total
▣ Substation Improvements	\$4,293,000
City View Bank #2	\$4,293,000
▣ Renewal and Replacement	\$3,198,000
Underground Cable Replacement	\$1,916,000
Pole Replacement Program	\$646,000
Stevens/Thayer Rebuild Design	\$636,000
⊕ Line Extensions - New Developments	\$2,120,000
▣ System Improvements	\$1,316,000
New Services	\$498,000
City View Extension 131	\$288,000
Fusion Substation Transmission Line	\$530,000
⊕ Southwest Service Area Infrastructure Acquisition	\$212,000
Grand Total	\$11,139,000

Project Spend Plan

The 2023³² Spend Plan is based on projected costs relating to the performance of the CWP Projects on a monthly basis. The project schedule and its associated costs drive the values listed on the Spend Plan. RES intends to perform \$1^{1.10.8} million of work by end of December 2023³².

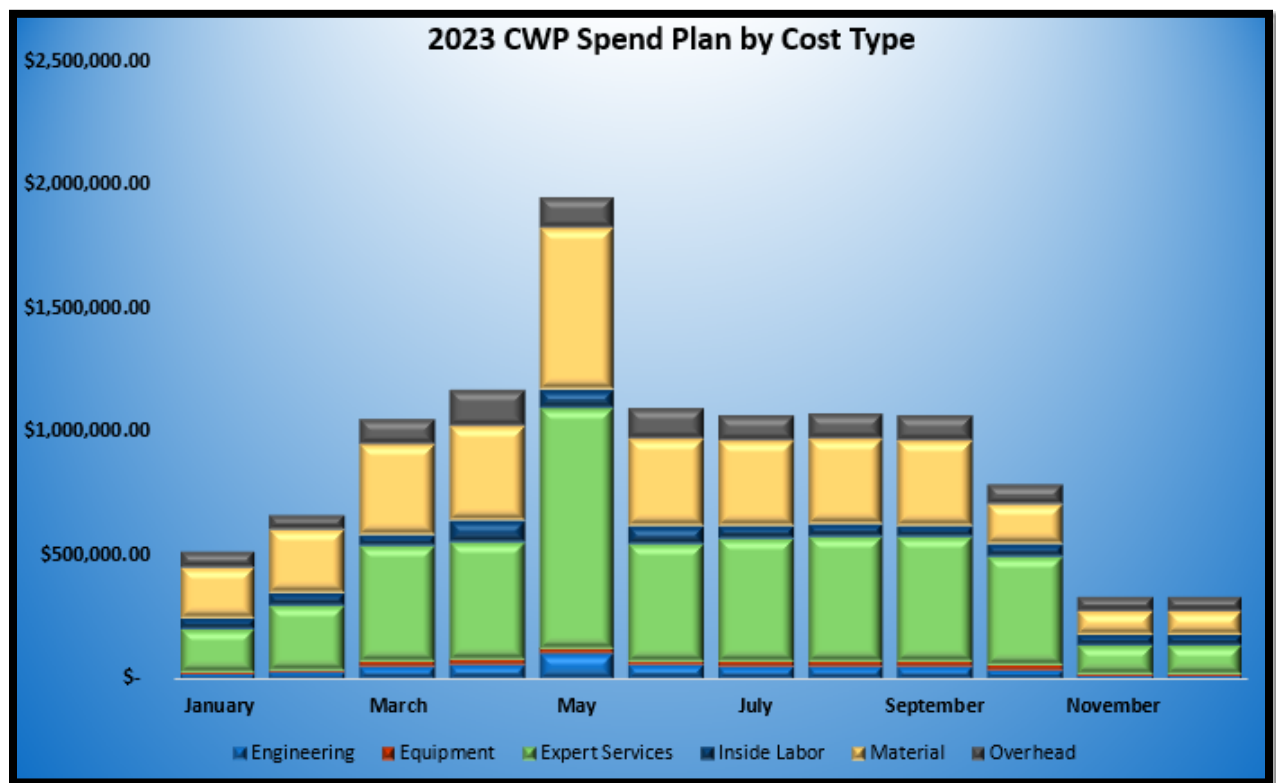
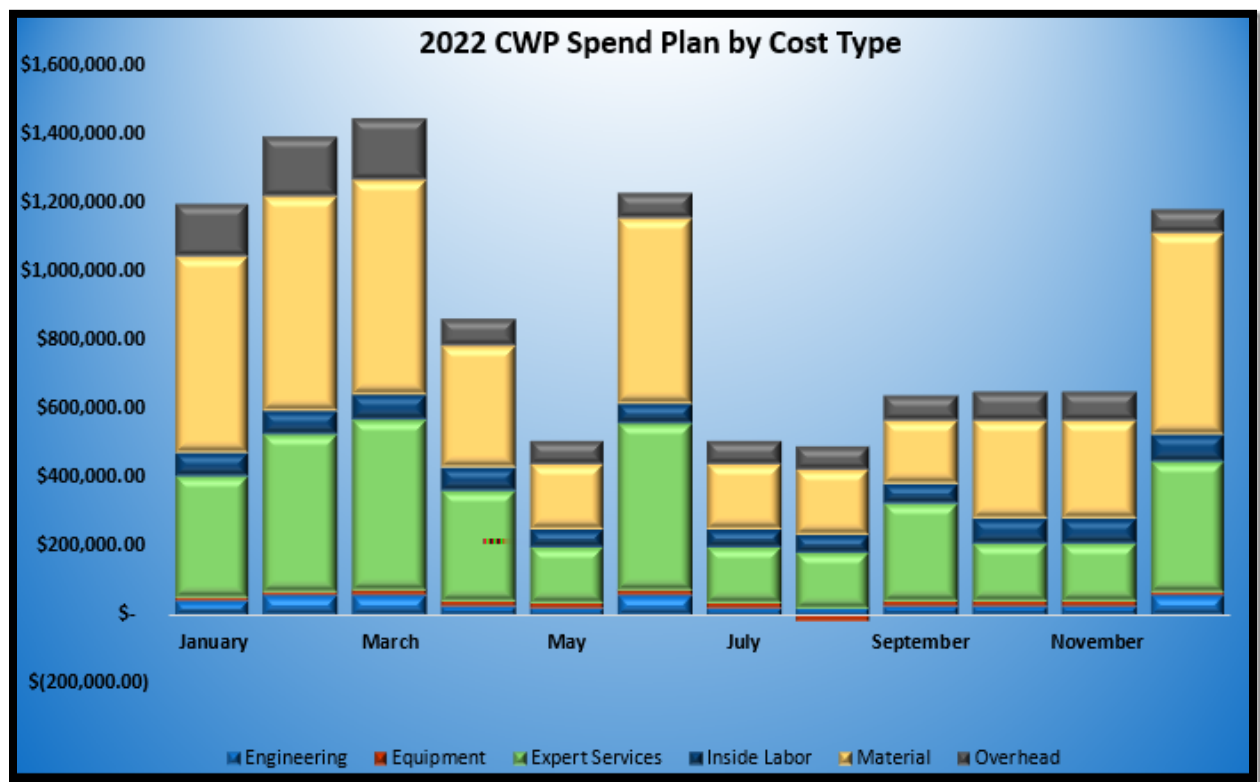
Below is a graph to recognize the anticipated costs per month as well as the accumulation overall.





Spend Plan by Cost Type

The following graph shows the type of costs allocated by month.



Project Schedule

Schedule

The 202~~3~~² Project Schedule is strategically planned and evaluated by RES based on internal and external factors. Internal factors include availability of staffing resources, materials and equipment. External factors include availability of consultant and contractor support, projects that are developer driven, projects with time restraints and deliverable dates, as well as weather conditions.

Project Schedule

