



Department of Energy

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT PROGRAM

March 7, 2025

In reply refer to: FOIA #BPA-2024-02332-F

SENT VIA EMAIL ONLY TO: [REDACTED]

Tori Paine
No Address Provided

Dear Ms. Paine,

This communication is the Bonneville Power Administration's (BPA) final response to your request for agency records made under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). BPA received your records request on June 24, 2024, and formally acknowledged your request on July 22, 2024.

Original Request

"...agency records regarding the La Pine-Bonanza Line project (i.e., the new 53-mile 230-kV transmission line in Central Oregon, between BPA's La Pine Substation (La Pine, OR) and the proposed Bonanza Substation (in Prineville, OR)). Specifically, I seek agency records (exclusive of emails) dated from July 12, 2023, to today's date, which show the current status of this project, including the anticipated schedules for, 1) design, 2) right of way acquisition, and 3) construction."

Rescope

On March 4, 2025, we notified you that certain pages of agency records responsive to your FOIA request do or may contain Critical Energy/Electric Infrastructure Information (CEII). CEII is defined by the Federal Energy Regulatory Commission (FERC) as information related to or proposed to critical electric infrastructure, generated by or provided to FERC, or to other Federal agencies, that is designated by FERC, or by the Secretary of the U.S. Department of Energy, pursuant to section 215A(d) of the Federal Power Act.

We asked you if you would be amenable to omit processing those pages and proceed to a full response to your request. On March 5, 2025, you agreed to this plan. Therefore, we are omitting two pages of records that show/describe the locations of electronic communication assets that, if damaged, could degrade the integrity of the agency's transmission infrastructure.

On March 6, 2025, to speed the processing of your request, we asked you if we could exclude all names of third-party commercial information submitters. On March 7, 2025, you agreed and we withheld this information as “Not Responsive.”

Response

Knowledgeable personnel in the Transmission Program Management and Portfolio Delivery offices searched for and gathered 26 pages of responsive agency records. The records accompany this communication, with the following one page withheld under 5 U.S.C. § 552(b)(6) (Exemption 5). Details of this exemption follow below.

Explanation of Exemptions

The FOIA generally requires the release of all agency records upon request. However, the FOIA permits or requires withholding certain limited information that falls under one or more of nine statutory exemptions (5 U.S.C. §§ 552(b)(1-9)). Further, section (b) of the FOIA, which contains FOIA’s nine statutory exemptions, also directs agencies to publicly release any reasonably segregable, non-exempt information that is contained in those records.

Exemption 5

The FOIA’s Exemption 5 deliberative process privilege protects records showing the deliberative or decision-making processes of government agencies. Records protectable under this privilege must be both pre-decisional and deliberative. A record is pre-decisional if it is generated before the adoption of an agency policy. A record is deliberative if it reflects the give-and-take of the consultative process, either by assessing the merits of a particular viewpoint, or by articulating the process used by the agency to formulate a decision.

Here, BPA relies on Exemption 5 here to protect one page of data showing approximate revenue requirements based on past rate cases. These data do not follow the normal rate methodology. If released, this could be misinterpreted as being part of future rate cases and would harm the agency’s ratemaking process. Records protected by Exemption 5 may be discretionarily released. BPA has considered and declined a discretionary release of these data because disclosure of this information would harm the interests and protections encouraged by Exemption 5.

Lastly, as required by 5 U.S.C. § 552(a)(8)(A), information has been withheld only in instances where (1) disclosure is prohibited by statute, or (2) BPA foresees that disclosure would harm an interest protected by the exemption cited for the record. When full disclosure of a record is not possible, the FOIA statute further requires that BPA take reasonable steps to segregate and release nonexempt information. The agency has determined that in certain instances partial disclosure is possible and has accordingly segregated the records into exempt and non-exempt portions.

Fees

There are no fees associated with processing your FOIA request.

Certification

Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the records search, the redactions applied thereto, and the records-release described above.

Appeal

The records release certified above is final. Pursuant to 10 C.F.R. § 1004.8, you may appeal the adequacy of the records search, and the completeness of this final release, within 90 calendar days from the date of this communication. Appeals should be addressed to:

Director, Office of Hearings and Appeals
HG-1, L'Enfant Plaza
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585-1615

The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal by e-mail to OHA.filings@hq.doe.gov, including the phrase "Freedom of Information Appeal" in the subject line. (The Office of Hearings and Appeals prefers to receive appeals by email.) The appeal must contain all the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either (1) in the district where you reside, (2) where you have your principal place of business, (3) where DOE's records are situated, or (4) in the District of Columbia.

Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road-OGIS
College Park, Maryland 20740-6001
E-mail: ogis@nara.gov
Phone: 202-741-5770
Toll-free: 1-877-684-6448
Fax: 202-741-5769

Questions about this communication or the status of your FOIA request may be directed to FOIA Program Lead Jason Taylor at 503.477.2692 or jetaylor@bpa.gov.

Sincerely,

CANDICE
PALEN

Digitally signed by
CANDICE PALEN
Date: 2025.03.07 14:54:16
-08'00'

Candice D. Palen, Freedom of Information/Privacy Act Officer

[Attachments / Enclosures: Agency records responsive to FOIA request BPA-2024-02332-F accompany this communication.](#)

NOTES:

1. THIS PRD IS A LONG RAGE PLAN FOR BONANA-LA PINE 230 KV LINE CONSTRUCTION. THIS PRD REPRESENTS SEVERAL ONGOING PROJECTS AT LAPINE SUBSTATION AND BONANZA SUBSTATION FROM BPA'S TSEP, GI, AND LLIR QUEUES.

2. THE BONANA-LA PINE 230 KV LINE IS FOR FUTURE 500 KV OPERATION - ALL STRUCTURES, CONDUCTOR, HARDWARE, RIGHT-OF-WAY LAND ACQUISITION, AND ANY PERTINENT DESIGN INFORMATION IS TO ACCOUNT FOR FUTURE 500 KV OPERATION.

3. THIS PROJECT WILL CONSTRUCT A 52 MI LONG LINE CONNECTING THE LA PINE 230 KV BUS TO THE BONANZA 230 KV NORTH BUS. THE NEW BONANZA-LA PINE LINE WILL FOLLOW THE EXISTING PONDEROSA-PILOT BUTTE NO.1 230 KV LINE AND LA PINE-PILOT BUTTE NO.1 230 KV LINE RIGHT OF WAY CORRIDORS. SUMMER IS THE CRITICAL LOADING SEASON FOR THIS LINE.

5. PCBS AND DISCONNECT SWITCHES FOR THE BONANZA-LAPINE #1 230 KV LINE AT BONANZA AND LAPINE ARE BEING SCOPED AS PART OF SUBSTATION LONG RANGE PLAN PROJECTS AT BONANZA AND LAPINE AND ARE NOT CONSIDERED PART OF THE SCOPE OF THIS PROJECT. SEE PRD 352700 FOR THE BONANZA LONG RANGE PLAN. SEE PRD 353570 FOR THE LAPINE LONG RANGE PLAN.

A. COORDINATING ENGINEER: STEFAN FRAERING-TPPC/OPP-3
PHONE: (360) 619-6744
B. PLANNING ENGINEER: DANIEL HAUGE-TPPB/OPP-3
PHONE: (360) 619-6391

C. C&C PLANNING ENGINEER: KEN OWEN-TPMC/OPP-3
PHONE: (360) 619-6739
D. CAD TECHNICIAN: ALEX VASILIU-TPM/OPP-3
PHONE: (360) 619-6773

DRAFT
MAY-06-2024

NO.	COMMITTEE REVIEW ONLY			PLANNING ENGINEER	APPROVED
PROJECT REQUIREMENTS DIAGRAM					
UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON					
PROPOSED ENGINEERING DATE(S)			OPERATIONS & PLANNING		
SEE SHEET 1			PRELIMINARY APPROVED DATE		
PLANNING ENGINEER STEFAN FRAERING			BONANZA-LA PINE 230 KV LINE BUILD		
			DATE		
SHEET	354474	TP	A3	2	0

Evolving Grid Project (EGP) 1.0 Summaries

EGP 1.0 consists of 10 proposed projects at a preliminary projected cost of \$2 billion to support the region's electrification and clean energy goals.

Rock Creek-John Day 500 kV Line Upgrade

This project is an upgrade of the existing Rock Creek – John Day #1 500-kV line. BPA would rebuild 14 miles of line between the Rock Creek Substation (Goldendale, WA) and John Day Substation (Rufus, OR), including a Columbia River crossing.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$37 million.

Estimated completion: Early 2030 (updated)

Big Eddy-Chemawa 230/500 kV Line Upgrade

This project is a rebuild of portions of the existing Big Eddy-Chemawa #1 230 kV line to 500 kV. BPA proposes to rebuild and re-terminate 91 miles of line between BPA's Big Eddy Substation (The Dalles, OR), Ostrander Substation (Oregon City, OR) and Pearl Substation (Wilsonville, OR).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$670 million.

Estimated completion: 2032

Cross Cascades North Upgrades

This series of upgrades consists of three projects designed to reinforce the Cross Cascades North path on the FCRTS.

- **Schultz-Raver 500 kV Line Upgrade:** BPA proposes upgrading the existing Schultz-Raver #3 and Schultz-Raver #4 500-kV lines to a higher rated capacity. BPA would reconductor the 77 miles of line between BPA's Schultz Substation (Ellensburg, WA) and Raver Substation (Ravensdale, WA).
- **Paul 500 kV Substation Upgrade:** BPA proposes adding a new capacitor at Paul Substation (Centralia, WA).
- **Olympia 230 kV Substation Upgrade:** BPA proposes adding a new Static VAR Compensator at Olympia Substation (Olympia, WA).



This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$400 million.

Estimated completion: 2031 (updated)

Ross-Rivergate 230 kV Line Upgrade

This project is a proposed upgrade of the existing Ross-Rivergate #1 230 kV line. The work would consist of replacing conductor on 7.5 miles of line between BPA's Ross Substation (Vancouver, WA) and PGE's Rivergate Substation (Portland, OR), including a Columbia River crossing.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$50 million.

Estimated completion: 2029 (updated)

Chehalis-Covington 230 kV Line Upgrade

This project is a proposed upgrade of a portion of the existing Chehalis-Covington #1 230-kV line. The work would consist of replacing conductor on 35 miles of line between BPA's Chehalis Substation (Chehalis, WA) and Cowlitz Tap (Frederickson, WA).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$95 million.

Estimated completion: 2028

Portland Area Upgrades

Keeler-Horizon 230 kV Line #2 - Completed (energized 2024)

Terminating PGE's new Keeler-Horizon #2 line at BPA's Keeler Substation (Hillsboro, OR) and a new 500/230-kV transformer would also be added at Keeler Substation.

Pearl-Sherwood-McLoughlin 230 kV Line Upgrade

Reconfiguring and re-terminating the Pearl-Sherwood-McLoughlin line at BPA's Pearl Substation (Wilsonville, OR).

Estimated completion: Summer 2026

Keeler 230/500 kV Transformer Addition

A new 500/230-kV transformer would also be added at Keeler Substation (Hillsboro, OR).



Estimated completion: 2029

In total, these projects will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$150 million.

Bonanza 230/500 kV Substation

This facility would be a new hub substation in Central Oregon near Prineville, OR. The new 115/230/500 kV Bonanza Substation would be built near BPA's existing Ponderosa Substation.

This project will create additional capacity to support new resource development and access to non-federal resources at a preliminary estimated direct cost of \$300 million.

Estimated completion: 2028 (updated)

La Pine-Bonanza 230 kV Line

This project is a proposed new 53-mile 230-kV transmission line in Central Oregon between BPA's La Pine Substation (La Pine, OR) and proposed Bonanza Substation (Prineville, OR).

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$150 million.

Estimated completion: Late 2029

Six Mile Canyon 230/500 kV Substation

This is a proposed new 230/500-kV hub substation called Six Mile Canyon near Boardman, OR.

This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$250 million.

Estimated completion: Late 2027/Early 2028 (updated)



Buckley 500 kV Substation Rebuild

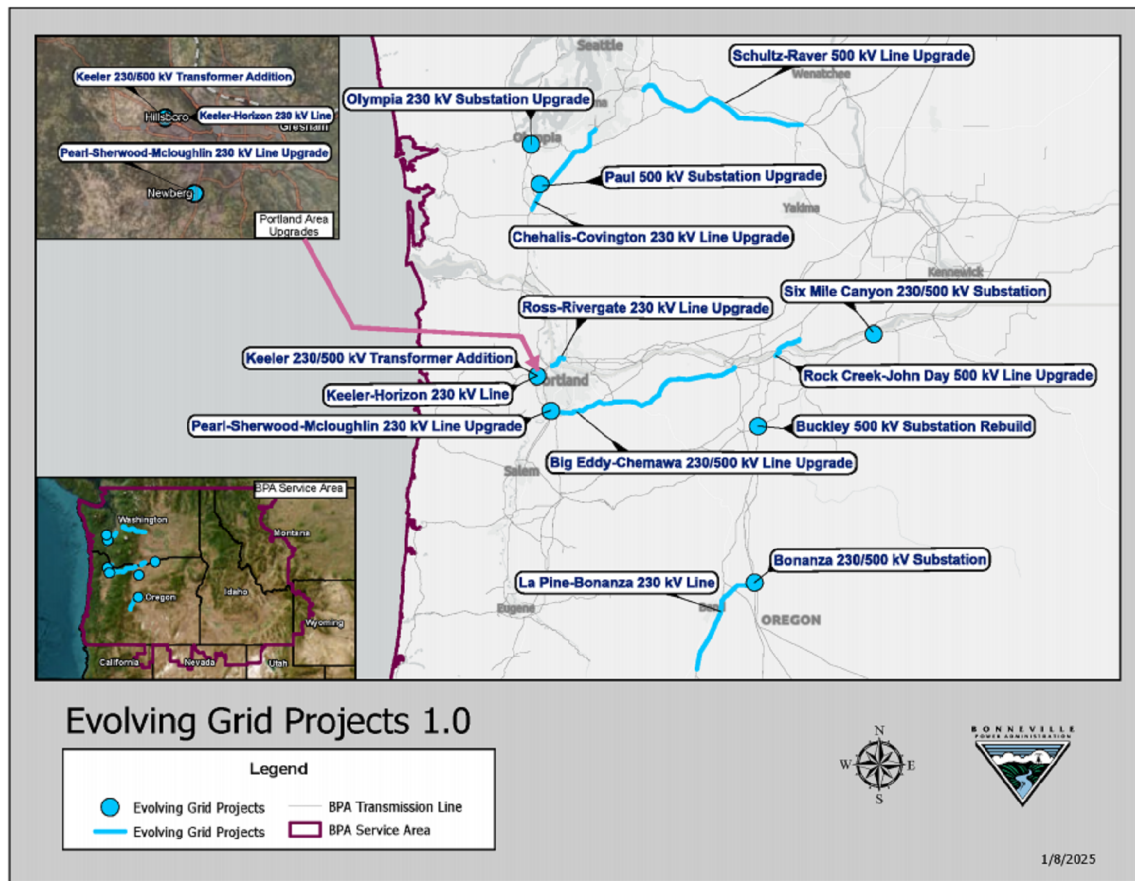
This project is a proposed rebuild of BPA's Buckley Substation in Sherman County, OR. It would be a new air-insulated 500-kV substation built near the existing gas-insulated substation, which will be retired.

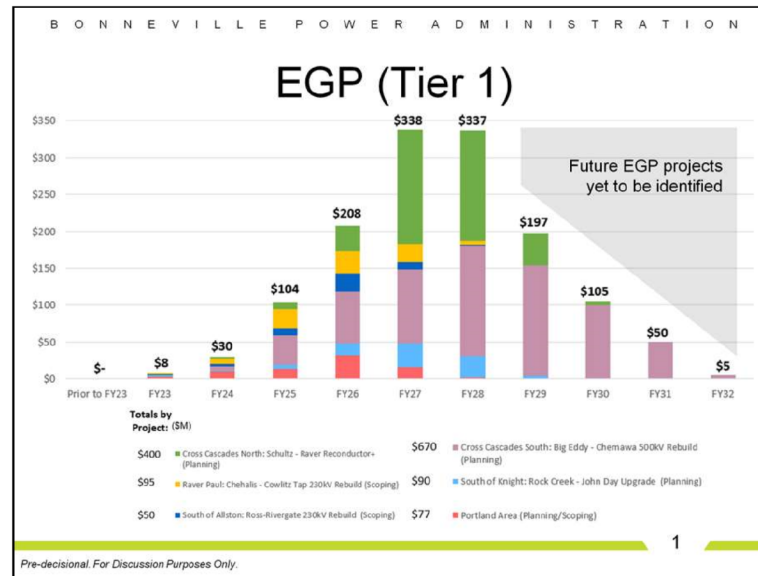
This project will create additional capacity to support regional load growth, reliability needs and commercial requests for long-term transmission at a preliminary estimated direct cost of \$150 million.

Estimated completion: 2028 (updated)

(continued)







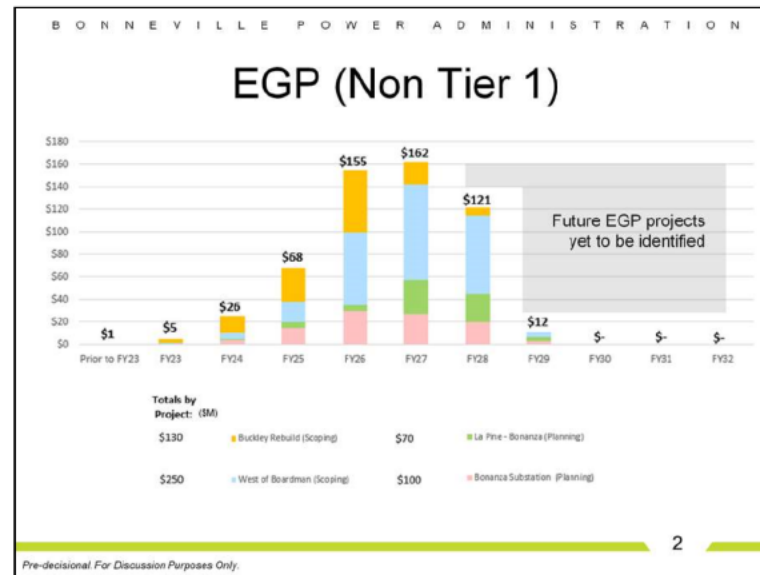
Eric

scoping/NEPA work yet to be completed

Preliminary estimates/schedules

Assumes Secondary Capacity Model (SCM) executing the projects

None of these projects are in current asset plans/strategies



Eric

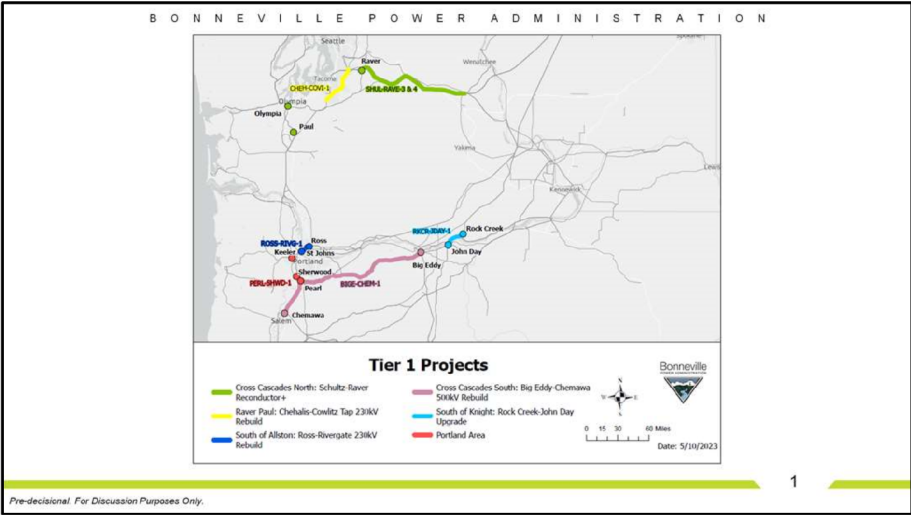
Montana area Libby – Trego

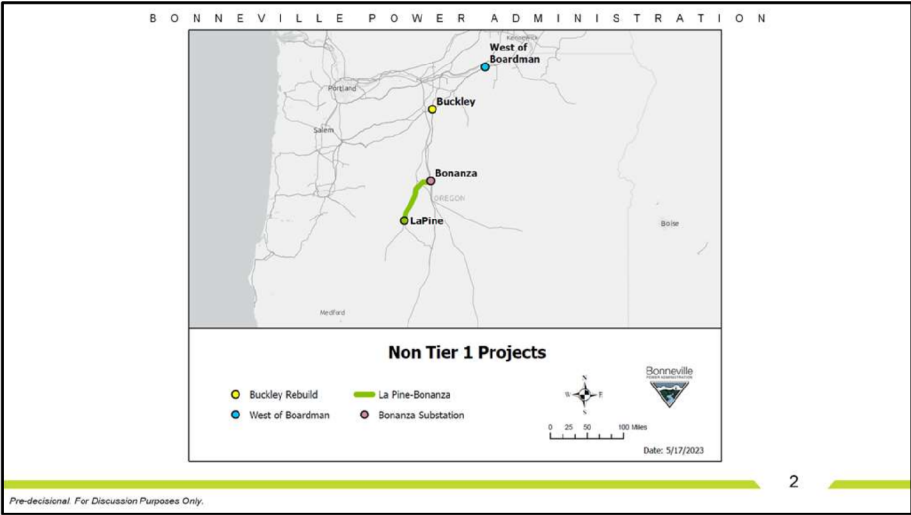
Not Responsive reinforcement 2 for Not Responsive new 350 MW load)

Not Responsive area for new battery manufacturing facilities (There's a large grant from DOE to support them)

Not Responsive project which will trigger a rebuild of Not Responsive for loads above 80 MW (they asked for 100MW)

The next wave of projects coming from the TSEP cluster study in 2023





Evolving Grid Project Summaries

Rock Creek-John Day Upgrade

This project is an upgrade of the existing Rock Creek – John Day #1 500-kV line. BPA would reductor 14 miles of line between the Rock Creek Substation (Goldendale, WA) and John Day Substation (Rufus, OR), including a Columbia River crossing.

Estimated completion: Early 2029

Big Eddy-Chemawa Rebuild

This project is a rebuild of portions of the existing Big Eddy-Chemawa #1 230-kV line to 500 kV. BPA proposes to rebuild and reterminate 91 miles of line between BPA's Big Eddy Substation (The Dalles, OR), Ostrander Substation (Oregon City, OR) and Pearl Substation (Wilsonville, OR).

Estimated completion: Late 2031/Early 2032

Schultz-Raver Reconductor

This project is a proposed upgrade to the existing Schultz-Raver #3 and Schultz-Raver #4 500-kV lines to a higher rated capacity. BPA would reductor the 77-mile lines between BPA's Schultz Substation (Ellensburg, WA) and Raver Substation (Ravensdale, WA). BPA has also proposed adding a new capacitor at Paul Substation (Centralia, WA), and a new Static VAR Compensator at Olympia Substation (Olympia, WA).

Estimated completion: Late 2029/Early 2030

Ross-Rivergate Rebuild

This project is a proposed upgrade of the existing Ross-Rivergate #1 230-kV line. The work would consist of replacing conductor on 7.5 miles of line between BPA's Ross Substation (Vancouver, WA) and PGE's Rivergate Substation (Portland, OR), including a Columbia River crossing.

Estimated completion: Late 2027/Early 2028

Chehalis-Cowlitz Tap Rebuild

This project is a proposed upgrade of a portion of the existing Chehalis-Covington #1 230-kV line. The work would consist of replacing conductor on 35 miles of line between BPA's Chehalis Substation (Chehalis, WA) and Cowlitz Tap (Frederickson, WA).

Estimated completion: Late 2027/Early 2028

Portland Area Upgrades

These projects would reinforce BPA's grid in the Portland area. The proposal includes reconfiguring and reterminating the Pearl-Sherwood-McLoughlin line at BPA's Pearl Substation (Wilsonville, OR). PGE's new Keeler-Horizon #2 line would be terminated at BPA's Keeler Substation (Hillsboro, OR), and a new 500/230-kV transformer would also be added at Keeler Substation.

Estimated completion: Late 2024/Early 2025 (Keeler-Horizon#2), Summer 2025 (Pearl-Sherwood-McLoughlin), Winter/Spring 2029 (Keeler Transformer)

Bonanza Substation

This would be a new hub substation in Central Oregon near Prineville, OR. The new 115/230/500-kV Bonanza Substation would be built near BPA's Ponderosa Substation.

Estimated completion: Late 2027

La Pine-Bonanza Line

This project is a proposed new 53-mile 230-kV transmission line in Central Oregon between BPA's La Pine Substation (La Pine, OR) and proposed Bonanza Substation (Prineville, OR).

Estimated completion: Late 2029

West of Boardman

This is a proposed new 230/500-kV hub substation called Six Mile Canyon near Boardman, OR.

Estimated completion: Late 2026/Early 2027

Buckley Rebuild

This project is a proposed rebuild of BPA's Buckley Substation in Sherman County, OR. It would be a new air-insulated 500-kV substation built near the existing gas-insulated substation, which will be retired.

Estimated completion: Late 2027



Bonneville Power Administration
CAPITAL PROJECT PROPOSAL
Business Case

V. 6

INFORMATION PANEL

Business Case Status:

Direct Capital Cost *(in thousands)*:

Expense Cost *(in thousands)*:

Total *(in thousands)*:

Highest Capital Approval Required:

FC - 90 days to approval

Please select from one of the options below:

☐ <\$500k Capital

☐ ≥\$500k - <\$10M Capital

☒ ≥\$10M+ Capital

☐ Expense Only

Assigned Program Coordinator:

Before completing this form, refer to the instructions included in Section 15

1. PROJECT IDENTIFICATION

Project Name	<input type="text" value="New LaPine-Bonanza 230kV Line"/>		
Project Number	<input type="text" value="1,469"/>		
Asset Category	<input type="text" value="Transmission"/>		
Portfolio (Level 4 Node)	<input type="text" value="0001032 -- Main Grid"/>		
Sub-Portfolio (Level 5 Node)	<input type="text" value="0005699 -- Central Oregon Reinforcement"/>		
New Start or Amendment	<input checked="" type="radio"/> New Start <input type="radio"/> Amendment		
Expansion, Expense, or Sustain	<input type="text" value="Expansion - Discretionary"/>		
NEPA Status	<input type="text" value="Environmental Impact Statement (EIS)"/>		

2. KEY PROJECT DATES

Submission or Revision Date	<input type="text" value="6/30/2023"/>		
Project Start Date	<input type="text" value="9/5/2023"/>	Describe Date	<input type="text" value="Other"/>
If Project Start Date is "Other" please describe below: Begin Scoping			
Estimated Completion Date*	<input type="text" value="9/30/2029"/>	Describe Date	<input type="text" value="Energization"/>

*Note: The Estimated Completion Date will be the authorized completion date for reporting purposes.

3. LINK TO ASSET PLAN, BUDGET and IPR

Explain how this project is reflected in the asset category's current asset plan. Be specific - provide references to the plan. If it is not in the plan, explain why not.

Explain how this project is reflected in current budget and IPR levels.

Is this a stage-gate project? ☐ Yes ☒ No

4. PROJECT INVESTMENT SUMMARY TABLE (Not required for projects under \$500k)

Cut and paste the summary table from financial model into the box below:

Thousands of Dollars					Prior Years (Sunk Costs)	2023	2024	2025	2026	2027	Future Years	Nominal Total (W Sunk)	Present Value Cost @2.81%
Assumes Base assumptions in Model													
Direct Capital Cost					\$ -	\$ 2,800	\$ 5,600	\$ 5,600	\$ 8,400	\$ 11,200	\$ 36,400	\$ 56,000	\$ 50,535
Capital Contingency					\$ -	\$ 700	\$ 1,400	\$ 1,400	\$ 2,100	\$ 2,800	\$ 5,600	\$ 14,000	\$ 12,634
Subtotal Direct Capital Cost					\$ -	\$ 3,500	\$ 7,000	\$ 7,000	\$ 10,500	\$ 14,000	\$ 42,000	\$ 70,000	\$ 63,169
Capital Indirects and Overheads					\$ -	\$ 770	\$ 1,540	\$ 1,540	\$ 2,310	\$ 3,080	\$ 6,160	\$ 15,400	\$ 13,897
AFUDC					\$ -	\$ 64	\$ 260	\$ 526	\$ 864	\$ 1,341	\$ 4,368	\$ 7,423	\$ 6,554
Total Capital Cost					\$ -	\$ 4,334	\$ 8,800	\$ 9,066	\$ 13,674	\$ 18,421	\$ 52,528	\$ 92,823	\$ 83,620
Expense Cost					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Investment					\$ -	\$ 4,334	\$ 8,800	\$ 9,066	\$ 13,674	\$ 18,421	\$ 52,528	\$ 92,823	\$ 83,620
Ongoing Maintenance and Repair (Net Benefit)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Benefits (Future Avoided Costs)													
Non-Cash Benefits (Economic Benefits)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BPA Cash Benefits					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,179	\$ 305,179	\$ 171,016
Total Benefits					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,179	\$ 305,179	\$ 171,016
							NPV - Economic Benefits			\$ 93,951	Includes cash and non-cash benefits and costs		
							Net Economic Benefit Ratio (NEBR)			1.22			
							NPV - BPA Cash Costs and Benefits			\$ 93,951	Includes only BPA cash benefits and costs		
							BPA Net Cash Ratio			1.22			
							Transmission Revenue Requirement			(\$80,920)	Unfavorable (Favorable) to customer rates		
							Rate Impact (Expected Life)			-0.35%	Expected Life of Asset is: 80 Years		
							Revenue Credit Payback Period				years		

COST SPREAD (in thousands) (Not required for projects over \$500k)											
	Prior FY	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Total Costs
Capital Cost											\$0
Expense Cost											\$0

** If Cost go beyond FY24 please complete and attach the following spread sheet

Financial Model Business Case Template V6.xlsx

Microsoft Excel Worksheet

5. APPROVALS	
Asset Accounting Capitalization Review	Date
Enterprise Risk Management Review <i>(Required if subject to FC approval)</i>	Date
Project Sponsor/Title	Date
Asset Category Approval/Title	Date

6. PROJECT CONTEXT/BACKGROUND
<p>Not responsive has submitted load interconnection requests at La Pine (L0393 - 100MW, and L0513 - 24MW), and it also forecasting substantial base load growth at La Pine. Planning studies show the Redmond-Pilot Butte #1 will have an N-1 contingency in summer within 10 years.</p> <p>Two generation interconnection requests (G0654 and G0655) both require construction of the new line. Each of these requests are for 200MW.</p> <p>The Ponderosa-Pilot Butte #1 line is currently a weak spot on the system, with N-1-1 issues occurring. Single outages on other lines could limit load service in the area.</p> <p>There is the potential that this line could eliminate the need for additional reactive regulation at La Pine (implemented through installation of a new STATCOM device), but this has not yet been verified in studies.</p> <p>This business case is being created earlier than normal in the capital process. The project does not have a defined route, nor has it been scoped.</p> <p>As a result, estimates are Order-Of-Magnitude estimates (AAE Class 5). There is an expected range of accuracy of Low (-50% to -20%) and High (+30% to +100%). The schedules is also very preliminary at this time, and may see significant delays if environmental, supply chain, and realty issues arise (see Execution Risk section)</p> <p>Approval of this business case is contingent on completion of NEPA (EIS/EA to be determined).</p>

7. INVESTMENT OBJECTIVES
List the specific and measurable objectives of this investment
<ul style="list-style-type: none">- Reinforce Central Oregon grid to reduce N-1 contingencies on the existing Ponderosa - Pilot Butte #1 line- Enable load and generation interconnections

8. PROPOSED INVESTMENT AND ALTERNATIVES
Describe the proposed investment:
Build a new 230kV line between La Pine Substation and the proposed Bonanza Substation. The route has not yet been determined, but the existing Ponderosa - Pilot Butte - La Pine corridor is approximately 52 miles.
The project will be funded by BPA, and executed via the Secondary Capacity Model (SCM).
Describe the next best alternative:
Install STATCOM at La Pine. This would allow some of the interconnections, but would not solve the reliability issues.
Describe the status quo:
Do nothing

9. RISKS TO INVESTMENT OBJECTIVES ADDRESSED BY THIS PROJECT	
Describe the risks to the agency if this investment does not occur <i>Click down arrow to left of section to insert additional sections as necessary</i>	
1 Risk:	Legal Risk: Failure to proceed with an investment that would enable BPA to perform on a line/load Interconnection request with a counterparty leads to a claim made against BPA by the counterparty.
Likelihood:	Almost Certain (>90%)
Consequence:	Major - Determination of the magnitude of the consequence will depend on the specific terms of the agreement and the facts surrounding BPAs actions requiring a legal risk analysis by the General Counsel's Office (GC). If BPA is considering a decision not to approve the proposed investment contact the General Counsel's Office for a legal analysis prior to rendering a decision not to proceed.
2 Risk:	
	Reputational Risk: BPA's reputation in the region is harmed, due to its failure to facilitate this new line/load and generator interconnection requests
Likelihood:	Almost Certain (>90%)
Consequence:	BPA's OATT requires facilitating LLIR/LGIA. Failing to follow through with the investment would likely cause BPAT's customers to begin to question our ability to follow our own OATT.
3 Risk:	
	Lost Revenue Opportunity: Failure to construct project prevents interconnection 524MW of new load.
Likelihood:	Almost Certain
Consequence:	BPA would not receive any of the revenue associated with these requests.
10. FINANCIAL AND ECONOMIC ANALYSIS	
Financial Model – Double click to open. Save the Word template after changing and closing the Excel file. Re-paste the summary table to Section 4.	
Discuss the NPV results (refer to Section 4 or the financial model):	
The NPV of this project is \$94M, due to the new transmission service it enables.	
For projects requiring an enhanced financial assessment:	
A. Insert a PDF containing the Investment Summary Report from the assessment model in the box at the right	<div>Bonanza La Pine Output.pdf</div> <div>Adobe Acrobat Document</div> <div>183 KB</div>
B.Discuss the assessment results (refer to the Investment Summary Report):	
The NEBR for this project is 1.26. Additional reliability benefits may exist, but they have not been quantified at this time.	
11. PROJECT EXECUTION RISKS AND MITIGATION PLANS	
Describe the risks to the agency if this project is undertaken <i>Click down arrow to left of section to insert additional sections as necessary</i>	
<ul style="list-style-type: none">For more information view the Agency Level Consequence Scale	
1 Risk:	NEPA/Cultural: NEPA (including impacts to cultural resources) takes longer and cost significantly more than what is currently assumed in the BC.
Likelihood:	Possible

Consequence:	Schedule is delayed, magnitude to be determined.. Costs increase if mitigation measures are needed.
Mitigation:	Properly plan and perform all environmental analysis as project details develop to avoid any re-work or unplanned consequences to any environmental impacts.
2 Risk:	Supply Chain: Critical material and equipment experience unanticipated changes to lead times and/or cost during the life of each project
Likelihood:	Possible
Consequence:	Construction is delayed until long lead time materials are received. ACSR conductor currently has a lead time of 20 months. Costs increase according to market conditions
Mitigation:	Closely monitor the lead times and cost of all material/equipment throughout the life of each project.
3 Risk:	Realty: Assumptions in the amount of land acquisitions are grossly underestimated based on the Plan of Service.
Likelihood:	Likely
Consequence:	Additional duration and resources will be required to complete all required land acquisitions.
Mitigation:	Include possible land acquisition activities during project scoping to help inform project cost and schedule early in the project development.
12. CONTINGENCY	
Describe how the project contingency was estimated. Be specific. Attach supporting calculations or documentation.	
Current estimates are high-level based on the line length and similar projects. A 20% contingency has been included.	
<div>File Attachment</div>	

13. INVESTMENT PERFORMANCE METRICS
Provide the appropriate metrics to judge the success/measure the benefits of the investment once it is completed and provide today's baselines for those metrics. (This is <u>required</u> for projects greater than \$10 million in direct capital costs and encouraged in all cases.)

14. OTHER ATTACHMENTS
Attach other relevant information below Click down arrow to left of section to insert additional sections as necessary
<div>File Attachment</div> <div>File Attachment</div> <div>File Attachment</div>

15. TEMPLATE INSTRUCTIONS	
The template instructions are included in the attached file. Before completing a section of the template, read the instructions for that section and review the example business case available on the FAC SharePoint site.	<div>Business Case Template Instructions V6.docx</div> <div>Microsoft Word Document</div> <div>38.5 KB</div>

Decision Summary	
Decision Type	<input type="radio"/> ≤ \$10M <input checked="" type="radio"/> > \$10M

Business Case (BC) Name	New LaPine-Bonanza 230kV Line
Investment Number	1,469
Business Case Executive Summary:	

Approvals

TPO Manager	
PfMT	6/6/23
TAMEC	6/8/23
ACPRT	6/13/23
FC	

PfMT Evaluation

The business case was reviewed on	6/6/23
or e-voted on	

PfMT Decision

The following votes were taken at the meeting/via e-vote		
1. TE Representative	Select...	
2. TPO Manager	Select...	
3. TPW Manager	Select...	

Additional PfMT Comments:

TAMEC Evaluation

The business case was reviewed on	6/8/23
or e-voted on	

TAMEC Decision

The following votes were taken at the meeting/via e-vote		
1. SVP, Transmission Services	Select...	
2. VP, Transmission Field Services	Select...	
3. VP, Planning and Asset Management	Select...	
4. VP, Engineering and Technical Services	Select...	
5. VP, Transmission Marketing and Sales	Select...	
6. Manager, Internal Operations	Select...	
7. Manager, Transmission Assets	Select...	
8. Manager, System Operations	Select...	

Additional TAMEC Comments:

Incremental Increase

Incremental Increase #: 1

Request Date:		Increase Status:	Select...
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Investment Title:	New LaPine-Bonanza 230kV Line		
Legacy Increase PAR:			
Description:			
Level 5:			
Level 6:			
Evaluation			
1.	Please detail what were the cause(s) for the cost increase (e.g. scope, material, environmental, schedule, etc.) then attribute an approximate dollar amount to each cause.		
2.	If this request is due to a significant cost increase or scope change, have you coordinated with the original requestor (planning, operations, etc.) to determine if this is still the preferred option and they wish to continue the project? Please provide specifics.		
3.	Has the Energization date been affected? <input type="checkbox"/>		
4.	Does this proposed increase impact a Key Performance Indicator (KPI)? <ul style="list-style-type: none">To view the current Key Performance Indicators click here		
Actual Dollars to Date <i>(in thousands)</i>		Dollars Approved <i>(in thousands)</i>	

Present Approved Dollars <i>(in thousands)</i>	
Prior to FY14 Dollars:	
Present FY14 Dollars:	
Present FY15 Dollars:	
Present FY16 Dollars:	
Present FY17 Dollars:	
Present FY18 Dollars:	
Present FY19 Dollars:	
Present FY20 Dollars:	
Present FY21 Dollars:	
Present FY22 Dollars:	
Present FY23 Dollars:	
Current Total Dollars:	\$0

Incremental Increase Amount <i>(in thousands)</i>	
New FY16 Dollars:	
New FY17 Dollars:	
New FY18 Dollars:	
New FY19 Dollars:	
New FY20 Dollars:	
New FY21 Dollars:	
New FY22 Dollars:	
New FY23 Dollars:	
New FY24 Dollars:	
New FY25 Dollars:	
New FY26 Dollars:	
New FY27 Dollars:	
New FY28 Dollars:	
Total Incremental Increase Dollars:	\$0
New Total Project Cost:	\$0

Project Manager:	
Program Coordinator:	
Program Manager:	

Attachments:	<div>File Attachment</div>
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	File Attachment
	File Attachment
	File Attachment

PfMT Scheduled Review Date:

Decisions			
Decision Body:	Select...	Status:	Select...
Decision Date:			
Decision Comments			

What is the proposed investment?

Build a new 230kV line between La Pine Substation and the proposed Bonanza Substation. The route has not yet been determined, but the existing Ponderosa - Pilot Butte - La Pine corridor is approximately 52 miles.

The project will be funded by BPA, and executed via the Secondary Capacity Model (SCM).

OP_CABRptText1

Why is this investment needed?

Not responsive has submitted a load interconnection request at La Pine, and it also forecasting substantial base load growth at La Pine. Planning studies show the Redmond-Pilot Butte #1 will have an N-1 contingency in summer within 10 years.

Two generation interconnection requests (G0654 and G0655) both require construction of the new line. Each of these requests are for 200MW.

What assumptions are behind the investment need?

OP_CABRptText2

The Ponderosa-Pilot Butte #1 line is currently a weak spot on the system, with N-1-1 issues occurring. Single outages on other lines could limit load service in the area.

OP_CABRptText3

What actions would be taken if this investment were not made?

Reconductor the existing Ponderosa-Pilot Butte and Pilot Butte-La Pine lines. This would not solve all of the reliability issues, but would increase the capacity somewhat

OP_CABRptText4

What investment alternatives were considered and why are they not recommended?

OP_CABRptText5

Who would benefit from this investment?

Timing and Costs of the Investment
(2023 dollars in thousands)
(AFUDC not included in capital costs)

Timing of Investment				Range of Investment Costs (Direct Capital Costs)			Fiscal Year Flow of Investment Expenditures (Base) (Direct Capital Cost plus Indirects/Overheads and Expense)							Cap/Exp Split	Economic Life of Assets		
Start	Complete			Low	Base	High	Pre-2023	2023	2024	2025	2026	Post 2026	Total	% of Investment that is expense	Low	Base	High
	Early	Base	Late														
Sep-23	Mar-29	Sep-29	Sep-30	\$115,500	\$70,000	\$45,500	\$0	\$4,270	\$8,540	\$8,540	\$12,810	\$51,240	\$85,400	0%	70	80	90

What drives the investment costs to be low or high?
Costs are driven by material costs and labor market conditions

How will asset O&M costs change with this investment?			
	Before Invest	After Invest	Change
Average annual	\$0	\$0	\$0
Present value:	\$0	\$0	\$0

OP_CABRptText7

Benefits of the Investment		
Benefit name	Benefit description	% of Total
Sales Revenue	Sales revenue associated with gen and load interconnections	100%
		0%
		0%
		0.0%
		0%
		0%
		0%

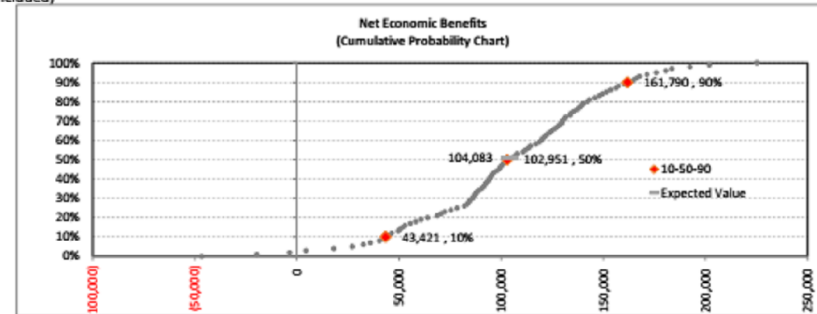
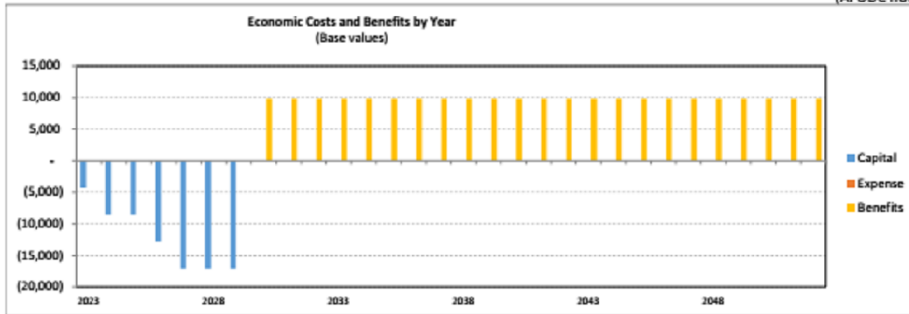
BC1469 | La Pine - Bonanza Line | Alternative 1 | La Pine - Bonanza Line

OP_CABRptTable

Thousands of Dollars	Prior Years (Sunk Costs)	2023	2024	2025	2026	2027	Future Years	Nominal Total (W Sunk)	Present Value Cost @2.81%
Assumes Base assumptions in Model									
Direct Capital Cost	\$ -	\$ 2,800	\$ 5,600	\$ 5,600	\$ 8,400	\$ 11,200	\$ 36,400	\$ 56,000	\$ 50,535
Capital Contingency	\$ -	\$ 700	\$ 1,400	\$ 1,400	\$ 2,100	\$ 2,800	\$ 5,600	\$ 14,000	\$ 12,634
Subtotal Direct Capital Cost	\$ -	\$ 3,500	\$ 7,000	\$ 7,000	\$ 10,500	\$ 14,000	\$ 42,000	\$ 70,000	\$ 63,169
Capital Indirects and Overheads	\$ -	\$ 770	\$ 1,540	\$ 1,540	\$ 2,310	\$ 3,080	\$ 6,160	\$ 15,400	\$ 13,897
AFUDC	\$ -	\$ 64	\$ 260	\$ 526	\$ 864	\$ 1,341	\$ 4,368	\$ 7,423	\$ 6,554
Total Capital Cost	\$ -	\$ 4,334	\$ 8,800	\$ 9,066	\$ 13,674	\$ 18,421	\$ 52,528	\$ 92,823	\$ 83,620
Expense Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Investment	\$ -	\$ 4,334	\$ 8,800	\$ 9,066	\$ 13,674	\$ 18,421	\$ 52,528	\$ 92,823	\$ 83,620
Ongoing Maintenance and Repair (Net Benefit)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Benefits (Future Avoided Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Cash Benefits (Economic Benefits)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,179	\$ 305,179	\$ 171,016
BPA Cash Benefits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,179	\$ 305,179	\$ 171,016
Total Benefits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,179	\$ 305,179	\$ 171,016

NPV - Economic Benefits	\$ 93,951	Includes cash and non-cash benefits and costs	Check Ratio's
Net Economic Benefit Ratio (NEBR)	1.22		0.00
NPV - BPA Cash Costs and Benefits	\$ 93,951	Includes only BPA cash benefits and costs	
BPA Net Cash Ratio	1.22		0.00
Transmission Revenue Requirement	(\$60,920)	Unfavorable (Favorable) to customer rates	
Rate Impact (Expected Life)	-0.35%	Expected Life of Asset is: 80 Years	
Revenue Credit Payback Period		years	

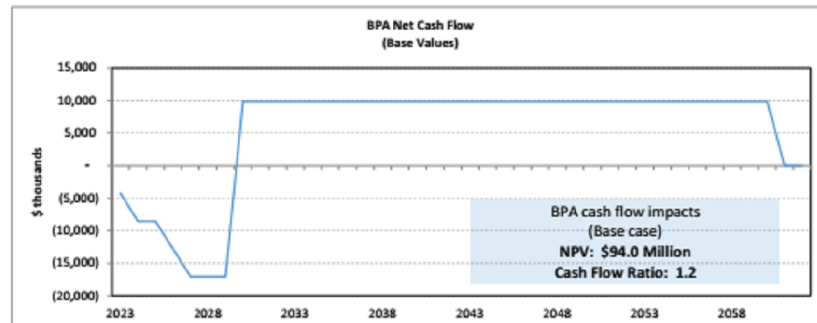
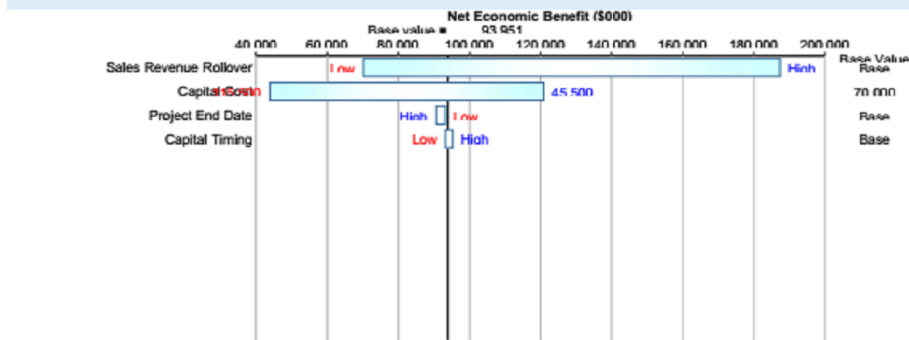
Net Economic Benefits and Cash Flows
(2023 dollars in thousands)
(AFUDC not included)



Net Economic Benefit Ratio: 1.26
For every dollar invested, there is a net economic return of \$1.26 (Expected value)

Investment Cost
Economic Benefits
Net Economic Benefits

	10%	EV	90%
Investment Cost	50,093	82,683	127,158
Economic Benefits	138,160	186,767	231,432
Net Economic Benefits	43,421	104,083	161,790



Additional considerations:

BC1469 | La Pine - Bonanza Line | Alternative 1 | La Pine - Bonanza Line

OP_CABRptText8

