



e-FILING REPORT COVER SHEET

COMPANY NAME: IDAHO POWER COMPANY

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?  No  Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type:  RE (Electric)  RG (Gas)  RW (Water)  RT (Telecommunications)  
 RO (Other, for example, industry safety information)

Did you previously file a similar report?  No  Yes, report docket number: RE 35

Report is required by:  OAR 860-027-0015

Statute

Order

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

Other

(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case?  No  Yes, docket number: RE 35

List Key Words for this report. We use these to improve search results.

Send the completed Cover Sheet and the Report in an email addressed to [PUC.FilingCenter@state.or.us](mailto:PUC.FilingCenter@state.or.us)

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.



**MATTHEW T. LARKIN**  
Revenue Requirement Senior Manager  
[mlarkin@idahopower.com](mailto:mlarkin@idahopower.com)

March 20, 2023

**VIA ELECTRONIC FILING**

[PUC.FilingCenter@state.or.us](mailto:PUC.FilingCenter@state.or.us)

Re: RE 35 - Idaho Power Company's New Construction Budget Report for 2023

Attention Filing Center:

Pursuant to OAR 860-027-0015, Idaho Power Company ("Idaho Power") herewith transmits for electronic filing its New Construction Budget Report for 2023.

The redacted forecast financial information in this report, given its magnitude and level of detail, is commercially sensitive and potentially material non-public information under federal securities laws, and if disclosed freely could subject Idaho Power or its customers to risk of competitive disadvantage, legal harm, or other business injury. The redacted forecast financial information should be treated as confidential until Idaho Power publicly discloses the information in a broad, non-exclusionary manner consistent with the requirements of Regulation FD of the U.S. Securities and Exchange Commission (for example, via a national press release or public filing with the U.S. Securities and Exchange Commission).

A confidential unredacted version of the report will be sent in a separate encrypted email. If you have any questions, please call me at 208-388-2461.

Very truly yours,

A handwritten signature in blue ink, appearing to be "ML", written over a light blue horizontal line.

Matthew T. Larkin

MTL:sg  
Enclosure



PUBLIC UTILITY COMMISSION OF OREGON  
 PO BOX 1088, SALEM, OR 97308-1088  
[PUC.FilingCenter@state.or.us](mailto:PUC.FilingCenter@state.or.us)

## ELECTRIC COMPANY NEW CONSTRUCTION BUDGET FOR 2023

### GENERAL INSTRUCTIONS

- Each energy utility operating within the State of Oregon and having gross operating revenues of \$50,000 or more per year is required to file a New Construction Budget annually on or before March 31<sup>st</sup> and report information on new construction, extensions, and new additions to property of the utility in accordance with Oregon Administrative Rule 860-027-0015.
- The New Construction Budget Report should be completed and filed with the Public Utility Commission of Oregon Filing Center. Complete the e-Filing Report Cover Sheet found at [http://www.puc.state.or.us/eFiling/eReports/efiling\\_report\\_cover\\_sheet\\_FM050.pdf](http://www.puc.state.or.us/eFiling/eReports/efiling_report_cover_sheet_FM050.pdf). Email both the report and the cover sheet to [PUC.FilingCenter@state.or.us](mailto:PUC.FilingCenter@state.or.us), no later than March 31<sup>st</sup>.

### PROJECT NARRATIVE

For major projects (the three largest projects in terms of cost and all projects greater than \$10 million) a narrative supplying the following information is required:

- Project Description:** Include a brief technical specification of the project, ownership, if jointly owned, operating date, stage of construction, and other relevant information.
- Need for the Project:** Attach all prepared information documenting the need for the project, including the specific need the project is intended to fill. Economic comparisons with alternatives are to be attached. All the underlying assumptions of the economic analyses are to be specified.
- Contingencies:** Attach a listing of existing or potential future problems which might impact the final cost or successful completion and operation of the project, such as licensing problems, labor difficulties, litigation, etc.
- Reconciliation with Prior Budget:** Each successive year's budget can be expected to reflect differing estimates of project costs as the project progresses. For each major project, prepare a reconciliation with the prior budget's estimates and provide specific reasons for the changes.

In addition, please attach copies of prepared documentation or plans describing generation transmission, and general plant projects exceeding \$1,000,000 in total cost and for which construction will commence in the budget year. Information submitted should contain:

- A Brief Project Description:** Include the project function (e.g., production, transmission, distribution, general plant, thermal, hydro, or other), project identification.
- Location:** Include a starting and ending date.
- Total budgeted cost.**

<b>FULL NAME OF ELECTRIC COMPANY</b> Idaho Power Company			
<b>ADDRESS: PO BOX OR STREET NUMBER</b> 1221 W Idaho Street	<b>CITY</b> Boise	<b>STATE ID</b>	<b>ZIP CODE</b> 83702
<b>CERTIFICATION: I CERTIFY THAT THE INFORMATION REPORTED IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.</b>			
<b>SIGNATURE</b> <i>Jami White</i>		<b>TITLE</b> Budget and Revenue Manager	<b>DATE</b> 3/8/2023

**INSTRUCTIONS**

1. Report size of major production projects only, and percent ownership, scheduled operating dates, and expenditures required to complete project for major production, transmission, and general plant projects.
2. Major projects are defined as those projects having a total estimated cost to completion exceeding \$10 million.
3. Under "Distribution," report specific line item expenditures for the budget year only. All expenditures for distribution following the budget year should be aggregated for the year and only total distribution expenditures reported for the period.
4. Non-major project expenditures within each category should be aggregated and only the totals reported.
5. Report all expenditures in thousands of dollars.

DESCRIPTION	SIZE	PERCENT OWNERSHIP %	SCHEDULED OPERATING DATE (MO / YR)	EXPENDITURES (B.Y. = BUDGET YEAR; B.Y.+ 1 = THE FIRST YEAR AFTER THE BUDGET YEAR, ETC.)							REQUIRED TO COMPLETE	TOTAL
				PRIOR TO B.Y.	B.Y.	B.Y. + 1	B.Y. + 2	B.Y. + 3	B.Y. + 4			
<b>Major Production Projects:</b>												
<b>Hells Canyon Complex Relicensing</b> - This project includes amounts incurred for the ongoing relicensing efforts for the Hells Canyon Complex. Idaho Power continues to work closely with various agencies and stakeholders to resolve issues associated with Section 401-Clean Water Act certification.	NA	100%	Unknown	413,007	4,446	█	█				█	
<b>Hells Canyon Complex License Early Mitigation and Compliance</b> - This project represents the capital expenditures to comply with the anticipated terms of a new Hells Canyon Complex license order. Early mitigation projects began in 2005 based on necessity or opportunity to address expected compliance requirements.	NA	100%	Various	109,237	3,245	█	█				█	
<b>Peak Capacity Resources</b> – Idaho Power has solicited a Request for Proposal to enter into agreement(s) to purchase products for generating capacity resources that may include wind, solar, and battery energy storage. Idaho Power's service area continues to experience customer growth and an increasing peak demand (load) for electricity. The addition of new resources to meet peak demand is critical to ensure Idaho Power can continue to reliably meet the growing demands on the electrical system and serve customers.	NA	100%	2025	6,650	56,550	█	█				█	
<b>Hemingway 80MW Stand-Alone Storage</b> – Idaho Power's service area continues to experience customer growth and increasing peak demand for electricity. The addition of new resources to meet peak demand is critical to ensure Idaho Power can continue to reliably meet the growing demands on the electrical system and serve its customers.	NA	100%	2023	37,637	73,884						█	

<b>Black Mesa 40MW Solar Photovoltaic with 40MW Storage</b> – A 40MW solar photovoltaic (PV) coupled with a 40MW Battery Energy Storage System (BESS) will be installed adjacent to Black Mesa substation. The BESS will be charged by the PV facility during off-peak times from the existing grid when energy is not in high demand and discharged during peak demand.	NA	100%	2023	20,881	41,921				
<b>Brownlee Dam Spillway Refurbishment</b> – Rehabilitation of the spillway concrete chute is needed to address deterioration and erosion of the spillway chute concrete. The anticipated Hells Canyon Complex new FERC license requires installing flow deflectors on this spillway to minimize total dissolved gas levels. This work is planned to be completed concurrently with the spillway rehabilitation work to realize cost efficiencies and reduce outage time.	NA	100%	2026	1,295	1,974	■	■		■
<b>Oxbow Fish Hatchery Renovation</b> – This project is required for a renewed Hells Canyon Complex license. The chiller used to help regulate egg development will be replaced. Once complete, the renovation of the facility will improve the egg incubation and adult fish holding programs.	NA	100%	2024	5,443	7,864	■			■
<b>American Falls Units 1, 2, &amp; 3 Turbine and Generator Refurbishments</b> – This project will replace the fixed pitch turbine and refurbish mechanical components. The generators will be refurbished with new stator iron and coils, and the rotor poles will be refurbished. The project will increase unit efficiency and extend the life of the units.	NA	100%	2026	9,364	10,961	■	■		■
<b>Oxbow Units 1, 2, 3, and 4 Turbine and Generator Refurbishments</b> – This project will refurbish mechanical components. The generators will be refurbished with new stator iron and coils, and the rotor poles will be refurbished. The project will increase unit efficiency and extend the life of the units.	NA	100%	2029	6,136	12,806	■	■		■
<b>Hells Canyon Generator Refurbishments</b> – This project refurbishes the generator units for Hells Canyon units 1 and 3. The project will include replacing the stator coils and bus rings and refurbishing the rotor poles. This project will improve reliability, help maintain generation capacity, and result in improved efficiency while renewing the useful life of the generators.	NA	100%	2023	19,705	3,942				■
<b>Jim Bridger Flue Gas Desulfurization Pond</b> – Coal Combustion Residual Rules (CCR) established by the EPA require the unlined flue gas desulfurization (FGD) pond #2 at the Jim Bridger plant stop receiving scrubber waste in	NA	33%	2023	14,452	5,107	■			■



**Major Transmission Projects:**

**Due to FERC Standards of Conduct, IPC has presented its major and non-major transmission projects in total, and without year by year amounts for the projects discussed.**

**Boardman-to-Hemingway Transmission Line -**

The Boardman-to-Hemingway line, a proposed 300-mile, 500-kV transmission project between a station near Boardman, Oregon and the Hemingway station near Boise, Idaho, would provide transmission service to meet future resource needs. The Boardman-to-Hemingway line was included in the preferred resource portfolio in Idaho Power's 2021 IRP.

**Hemingway 230-kV Integration Projects -**

These projects are required to integrate the Boardman-to-Hemingway 500-kV line into the Idaho Power system to allow the capacity of the Boardman-to-Hemingway line to be fully utilized.

**Gateway West Transmission Line -**

Idaho Power and PacifiCorp are pursuing the joint development of the Gateway West project, a 500-kV transmission project between a station located near Douglas, Wyoming and the Hemingway station near Boise, Idaho.

**Wood River-Ketchum 138-kV Redundant**

**Transmission Line -** This project will provide redundancy and improve reliability for the Ketchum and Sun Valley areas, which are currently served by a single 138-kV transmission line. In addition to improving reliability for the area, this project will reduce future maintenance and repair costs by providing greater outage management flexibility for the north Wood River Valley.

**Quartz Substation to Huntington 138-kV**

**Transmission Line -** This project will reconstruct the transmission line with steel poles to mitigate damage from rangeland fires and reduce future maintenance and repair costs. Installation of an optical shield wire and a larger conductor will improve communication system reliability and increase capacity.

**Vale-Juntura-Drewsey 69kV Transmission Line -**

This project will reconstruct the 1947 vintage transmission line between Vale and Drewsey Substations in Eastern Oregon.

**Boise Bench to Emmett Transmission Line -**

This project will reconstruct the transmission line with steel poles to mitigate damage from rangeland fires and reduce future maintenance

and repair costs. The reconstruct will include larger conductor for increased capacity as well as the installation of a fiber optic shield wire to increase reliability of electrical and communication systems.										
<b>Lucky Peak and King 138kV Transmission Line –</b> This project will reconstruct the transmission line between Lucky Peak and King substations with steel poles to mitigate damage from rangeland fires and reduce future maintenance and repairs costs. The reconstruct will include larger conductor for increased capacity as well as the installation of a fiber optic shield wire to increase reliability of electrical and communication systems.										
<b>Boise Bench and Midpoint 230-kV Transmission Line -</b> This project will reconstruct the transmission line between Boise Bench and Midpoint substations with H-frame steel structures. The reconstruct will include installation of an optical shield wire to increase reliability of electrical and communication systems.										
<b>Midpoint Substation – Install Second 500/3450kV Transformer –</b> This project expands the 500-kV Midpoint Station. A new 500-kV transformer, control building, and transmission tie line to connect the new transformer between the 500-kV and 345-kV yards. This project is required to increase the Midpoint West and Borah West transmission path ratings.										
<b>Burns Substation Rebuild –</b> Much of the equipment at the Burns Reactive substation is over 40 years old and is due for replacement based on age and condition. This project will replace the Burns 500-kV reactive station including the series capacitor bank, bypass breakers, shunt reactors, all switches, and circuit switchers and the control building.										
<b>Non-Major Transmission Projects</b>										
<b>Total Transmission Projects</b>					170,990					
<b>Distribution (See Instruction 3):</b>										
<b>Station Equipment</b>					22,106					
<b>Poles, Towers, and Fixtures</b>					22,006					
<b>Overhead Conductors and Devices</b>					10,762					
<b>Underground Conductors and Devices</b>					22,360					
<b>Underground Conduit</b>					3,683					
<b>Line Transformers</b>					49,254					
<b>Services</b>					4,660					
<b>Meters</b>					7,643					
<b>Street Lighting and Signal Systems</b>					406					
<b>Other:</b>					4,933					
<b>Total Distribution</b>					147,813					



<p><b>Major General Plant Projects:</b></p> <p><b>Distribution Center at Boise Bench</b> – This project would build a centralized distribution center to accommodate current inventory needs and prepare for future growth. The facility would be built on an existing piece of land owned by Idaho Power: the Boise Bench Transmission Station. Located at Holcomb and Amity Rd in Boise, this 35,000 square-foot facility would house materials to support all Idaho Power properties across its 24,000 square-mile service area. This location in the Capital Region, which serves 42% of Idaho Power’s customer base, would best serve customers and support Operations crews in the most efficient and cost-effective manner.</p> <p><b>Grid Modernization Single Vendor Platform</b> – The purpose of this project is to consolidate systems into an efficient, secure single vendor platform. Additionally, this set of investments is aimed at establishing a full Advanced Distribution Management System (ADMS), improving reliability by increasing operational visibility of the distribution system and providing enhanced monitoring and control for operators. ADMS will provide future capabilities to monitor real time grid state information with advanced applications such as fault locating, isolation and system restoration, automated switch order management and distributed generation management.</p> <p><b>2-Way Radio Upgrade</b> - This project upgrades the existing 2-way radio system and enhances employees’ ability to operate the electrical system safely and effectively. This project will improve the incoming call process for dispatch by adding a call queueing system; eliminating one-sided communication between field personnel and dispatch, automating base station selection for dispatch and field personnel; and improving radio coverage gaps.</p>	100%	2024	1,128	16,839	■	■			■
	100%	2031	3,987	9,859	■	■			■
	100%	2025	13,605	1,112	■	■			■
<p><b>Non-Major General Plant Projects</b></p>				52,758	■	■			
<p><b>Total General Plant Projects</b></p>				80,568	■	■			
<p><b>Total New Construction Budget</b></p>				708,116	■	■			

**NEW CONSTRUCTION BUDGET - 2023**  
**IDAHO POWER COMPANY**  
**OTHER PROJECTS EXCEEDING \$1 MILLION (in thousands)**

Project	In Service Date	B.Y. Cost	B.Y. + 1	B.Y. + 2	3 Year Total	Description
<b>PRODUCTION</b>						
Jim Bridger U1 and U2 Conversions from Coal to Natural Gas	2024	\$ 5,837	\$ █	\$ █	\$ █	Retrofit Units 1 and 2 from their current configuration as coal-fueled base load units to 100 percent natural gas-fired units at an estimated equivalent capacity of 531 MW and 539 MW, respectively. The natural gas conversion project will tap into a natural gas pipeline located approximately two miles from the plant and a lateral pipeline will be constructed connecting the pipeline to the plant.
Jim Bridger U3 Selective Catalytic Reduction (SCR)	2023	1,278	█	█	█	This project will purchase one layer of catalyst for Unit 3. Based on analysis of catalyst reactivity, two layers must be replaced to operate four years without installing additional catalyst. One layer was purchased in 2022.
Upper Salmon Main Generator Step Up Replacement	2025	90	█	█	█	Replacement of the Upper Salmon A Power Plants T131 Main Generator Step Up (GSU) transformer. The main GSU's are original plant equipment installed in the 1930s. At this point repair will no longer be conveniently or economically available leaving replacement as the best option.
Bliss Power Plant Units 1&2 and BOP Plan Modernization	2028	55	█	█	█	This project is to upgrade the power plant control systems in conjunction with the turbine refurbishment projects. The upgrade will convert the mechanical governors to digital governors, covert hardwired switches and controls to be PLC/HMI based, replace Realfex GUI with Wonderware, replace the Harris RTU with an SEL-RTAC, and convert the BOP controls to be in the PLC.
Lower Salmon Spill Gate Trunnion and Spill Gate Refurbishment	2026	238	█	█	█	The spill gates are original equipment and degrading due to age. This project will replace gate seals, spring plates, trunnion pins, sand blasting, painting gates, and repair concrete as needed.
Langley Steam Turbine Generator Stator Replacement	2024	2,000	█	█	█	Project to replace or rewind the steam turbine generator stator for continued reliable operations.
Oxbow Surge Tank Rock Drape	2023	1,782	█	█	█	Project will add approximately 42,000 square feet of rock drape at the Oxbow Power Plant surge tanks.
Lower Salmon Plant Concrete Rehabilitation	2024	235	█	█	█	Rehabilitate multiple areas of deteriorating concrete at the Lower Salmon Plant by resurfacing the tailrace deck, addressing the plant wall above the generator deck and spot repairs on other areas. Spot repair areas include top edges undermining handrail posts, edges showing exposed reinforcing bar and conduit, and concrete surrounding crane-rail bolts.
<b>TRANSMISSION</b>						
See Note at the Major Transmission Project section of this report.						
<b>GENERAL PLANT</b>						
█	2024	\$ 2,449	\$ █	\$ █	\$ █	█
█	2024	1,524	█	█	█	█
█	2024	150	█	█	█	█
█	2025	150	█	█	█	█
█	2025	150	█	█	█	█
█	2025	120	█	█	█	█
█	2024	70	█	█	█	█
Budget Tool Replacement	2024	658	█	█	█	The current Budget Tool is within the Customer & Load Research Information System (CLRIS), which is planned to be retired over the next several years. The purpose of this project is to replace the current budget tool with an off the shelf budgeting tool application that can be deployed and used for budgeting purposes across the company.
Integrated Volt-Var Control System (IVVC)	2030	500	█	█	█	Expand IVVC at prioritized substations across the service territory. This includes expanding the 700 MHz field area network (FAN) where required, upgrading LTC, regulator and capacitor controls with 700 MHz radios and expanding the OSI DMS system to accommodate additional feeders and devices under IVVC control.
Replace CHQ Building roof	2023	1,300	█	█	█	Replace CHQ existing roof. The CHQ roof is over 30 years old and requires replacement.
Boise Operations Center Materials Yard - Re-asphalt	2026	550	█	█	█	Project to replace asphalt the entire materials yard at the Boise Operations Center due to snaking, cracking, large dips, holes, and other safety compliance.
Remodel Mechanical and Electrical Shop	2025	200	█	█	█	Remodel of entire second floor of the mechanical and electrical building will include removal/reconfiguration of interior walls, new carpet, paint and other fixtures to address space constraints, and improve functionality.