



e-FILING REPORT COVER SHEET

COMPANY NAME:

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:

Report is required by: OAR

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:

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

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.



LISA D. NORDSTROM
Lead Counsel
lnordstrom@idahopower.com

March 31, 2021

VIA ELECTRONIC FILING

PUC.FilingCenter@state.or.us

Re: RE 35 - Idaho Power Company's New Construction Budget Report for 2021

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 2021.

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 208-388-5825.

Very truly yours,

A handwritten signature in black ink that reads "Lisa D. Nordstrom".

Lisa D. Nordstrom

LDN:slb
Enclosure



PUBLIC UTILITY COMMISSION OF OREGON
 PO BOX 1088, SALEM, OR 97308-1088
PUC.FilingCenter@state.or.us

ELECTRIC COMPANY NEW CONSTRUCTION BUDGET FOR 2021

GENERAL INSTRUCTIONS

1. 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 31st and report information on new construction, extensions, and new additions to property of the utility in accordance with Oregon Administrative Rule 860-027-0015.
2. 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. Email both the report and the cover sheet to PUC.FilingCenter@state.or.us, no later than March 31st.

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:

1. Project Description: Include a brief technical specification of the project, ownership, if jointly owned, operating date, stage of construction, and other relevant information.
2. 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.
3. 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.
4. 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:

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

FULL NAME OF ELECTRIC COMPANY Idaho Power Company			
ADDRESS: PO BOX OR STREET NUMBER 1221 W Idaho Street	CITY Boise	STATE ID	ZIP CODE 83702
CERTIFICATION: I CERTIFY THAT THE INFORMATION REPORTED IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.			
SIGNATURE 	TITLE Budget and Revenue Manager	DATE 3/29/2021	

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			
Major Production Projects:												
Hells Canyon Complex Relicensing - 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	355,031	5,394	█	█				█	
Hells Canyon Complex License Early Mitigation and Compliance - 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	78,452	2,476	█	█				█	
Lower Salmon Units 1 & 3 Turbine Refurbishments – 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%	2023	8,335	6,003	█	█				█	
Oxbow Fish Hatchery Renovation – 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%	2022	1,086	7,612	█					█	
American Falls Units 1, 2, & 3 Turbine and Generator Refurbishments – 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%	2025	126	1,829	█	█				█	

<p>Oxbow Units 1, 2, 3, and 4 Turbine and Generator Refurbishments – 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.</p>	NA	100%	2028	118	174	█	█				█
<p>Hells Canyon Generator Refurbishments – 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.</p>	NA	100%	2022	8,692	11,794	█					█
<p>Jim Bridger Flue Gas Desulfurization Pond – 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 2023. The FGD pond receives waste liquor from the scrubbers which remove sulfur dioxide from the emitted flue gas. This project will create a Subtitle-D compliant CCR pond.</p>	NA	33%	2023	1,498	1,608	█	█				█
<p>Langley Gulch - Major Overhaul and Inspection – A major overhaul and inspection is planned in 2022. Idaho Power has contracted with a service provider to perform the long-term maintenance activities for its gas plants, including Langley Gulch’s gas turbine. The service provider will provide parts and services for scheduled activities as well as refurbishment for any identified parts or performance needs.</p>	NA	100%	2022	0	4,621	█					█
<p>Non-Major Production Projects</p>					46,466	█	█				
<p>Total Production Projects</p>					87,977	█	█				
<p>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.</p> <p>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 2019 IRP.</p> <p>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.</p>											

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.

2-Way Radio Upgrade - This project upgrades the existing 2-way radio system and provides 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.

Integrated Volt-Var Control System and 700 MHz Field Area Network - This project replaces the Automatic Capacitor Control System, approaching its end of useful life in 2020, with an Integrated Volt-Var Control System. Additionally, the FCC requires a broadcast signal at the 700 MHz frequency cover a minimum of 50% of the population covered by the license for the recently acquired 700 MHz spectrum. These implementations will aid in reducing instability of voltage in distribution lines and maintaining power quality for our customers, while mitigating operational problems and cyber security violations.

Cloverdale 230-kV Integration Project - This project will extend 230-kV service into the Cloverdale substation. The project is needed to meet load growth and improve transmission reliability. The project solves several issues identified in the 2015 North American Electric Reliability Corporation Transmission System Planning Performance Requirements.

<p>Rogerson Switching Station - This project includes the design and construction of a 345-kV ring bus station and double circuit transmission line near Rogerson, ID. The project will connect to the existing Midpoint – Humboldt transmission line and will facilitate the energy transfer for the 120 MW Jackpot Solar facility.</p> <p>Rebuild 138-kV Transmission Line from Mountain Home to Upper Salmon - This project will rebuild the existing 138-kV line from Mountain Home to Upper Salmon (Hagerman). The project is necessary to provide reliability during frequent and ongoing maintenance activities along the 50-mile line.</p> <p>Non-Major Transmission Projects</p>														
Total Transmission Projects					53,714	█	█							
<p>Distribution (See Instruction 3):</p> <p>Station Equipment</p> <p>Poles, Towers, and Fixtures</p> <p>Overhead Conductors and Devices</p> <p>Underground Conductors and Devices</p> <p>Underground Conduit</p> <p>Line Transformers</p> <p>Services</p> <p>Meters</p> <p>Street Lighting and Signal Systems</p> <p>Other:</p>					17,250	17,603	8,847	18,194	3,217	38,890	3,892	6,298	291	3,742
Total Distribution					118,224	█	█							
<p>Major General Plant Projects:</p> <p>BOC Site Expansion – This project will improve the skills training center to aid employees in continuing to operate the electrical system safely and effectively. The project includes upgrading the existing skills training yard to include a simulated substation, a facility providing workspace, classrooms, training lab, computer/testing room, learning resource center, equipment and tool storage, and consolidated parking for Company vehicles. The increase in apprenticeship training will help meet the demands created by retirements of highly skilled field personnel and an increasingly complex system.</p>		100%	2021	9,732	5,753	█	█				█			
Non-Major General Plant Projects					51,297	█	█							
Total General Plant Projects					57,050	█	█							
Total New Construction Budget					316,965	█	█							

NEW CONSTRUCTION BUDGET - 2021
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
PRODUCTION						
	2023	\$ 159	\$	\$	\$	
Bliss Spillway Training Wall Remediation	2023	145				This project will identify spillway features in need of remediation in order to mitigate the risks of spillway apron failure. The project will require underwater industrial work and partial dewatering of the river below the spillway.
Lower Malad Diversion Flop Gate Replacement	2023	92				This project will replace the flop gates at the diversion structure to the Lower Malad Plant with an inflatable-type, adjustable, overtopping weir. The new gates will replace the hinged steel flop gates that are unable to modulate flow and difficult to open and close due to their outdated design. The project is necessary as the existing gates are at the end of their useful life and need to be replaced in-kind or with a better designed system that will improve the control of flow through the diversion.
Hells Canyon Gallery Piezometer and Drain Replacement	2023	55				This project will repair, replace, and install new uplift release drains and piezometers in the Hells Canyon Dam Gallery. Work will include reaming and scoping the existing uplift relief drains, abandoning non-functioning drains, and replacing and installing new drains and monitoring wells (piezometers).
Shoshone Falls Powerhouse Refurbishment	2022	21				This project will replace the damaged roof, replace the windows, pressure wash and repair damaged exterior walls, paint the interior, and replace the existing exhaust fans inside the powerhouse. The Shoshone Falls Power Plant was built in stages beginning in 1907 with an additional powerhouse in 1921. Components of this building have reached the designed service life.
Brownlee Intake Gate Drums Replacement	2025	123				This project includes the design and fabrication of new intake gate drums, drum gears and lifting rods for units #1 thru #4 at Brownlee. Idaho Power will dewater one unit per year and replace the intake gate drums, starting with unit #4.
Rippee Island Project	2021	5,369				This project is part of Idaho Power's Snake River Stewardship Program. The Snake River Stewardship Program is a key element of temperature mitigation required by Idaho and Oregon in the Clean Water Act Section 401 certifications issued in 2019 for relicensing the Hells Canyon Complex. The project will create approximately 16.5 acres of floodplain adjacent to the existing Rippee Island and an unnamed island, while also making the water around the islands deeper and swifter. The project will reduce the water surface area that is heated by the sun thereby contributing to Idaho Power's temperature mitigation requirement.
Oxbow Dam Spillway Flow Deflectors	2025	616				This project will install flow deflectors to reduce elevated dissolved gas levels in water downstream of the spillway. Gases in the atmosphere, such as nitrogen, are entrained in the water as it plunges over the spillway. The elevated gas levels can cause harm to fish in the river downstream of the spill. Deflectors are concrete structures that are attached to the spillway and keep the water from plunging deep into the stilling basin. The deflectors are a compliance requirement of the Clean Water Act Section 401 certifications issued for the Hells Canyon Complex by Oregon and Idaho in 2019. The project is being constructed concurrent with necessary dam safety repairs to the Oxbow Spillway.
Rapid River Fish Hatchery Renovation	2024	254				This project will include modernizing facilities, expansion of facilities to accommodate increased production necessary to meet state requirements on fish passage for the Hells Canyon Complex, and replacement of two pond walls. The 2024 in-service date correlates to when increased fish production is required for compliance.
TRANSMISSION						
See Note at the Major Transmission Project section of this report.						
GENERAL PLANT						
Idaho Power Mobile Application	2022	\$ 750	\$	\$	\$	This project will provide a native mobile application resulting in higher customer satisfaction, increased self-service, reduced call volumes, and a more stable and scalable system with increased security and supportability for customers and Idaho Power. This project leverages operational efficiencies and provides customers the ability to self-serve.
Integration Software Replacement	2022	630				This project will replace a legacy integration tool with a microservices solution that folds into the existing Enterprise Development framework, allowing for shared use of common standards and practices across teams enabling more collaboration and better flexibility to assign resources based on business demand. Idaho Power currently leverages, supports, and maintains several integration tools to move data between applications. This specific integration software is intended for a subset of critical integrations that require high availability and guaranteed delivery of transactions between systems.
Customer and Load Research Information System (CLRIS) Replacement	2023	575				This project will replace an existing software platform. Multiple custom applications are hosted under the CLRIS Platform. These applications were developed in Cold Fusion, which is an older development platform that does not align to current Enterprise Application Development practices and standards. Cold Fusion developers are limited in availability, making it difficult to maintain required support efficiently. By migrating off of the CLRIS platform and replacing the existing functionality with commercial off-the-shelf products or internally developed FUSE applications, the company will increase overall development velocity and flexibility in meeting business needs based on priority, reduce the professional services cost paid to contractors, and provide improved security protections.
Replace Microwave Packet Radios	2023	189				This project will replace outdated microwave hops equipment with next generation microwave equipment. The manufacturer of the current microwave packet radios has announced end of life of core and key support components of the microwave equipment. The lack of ongoing support coupled with increased bandwidths requirements, requires replacement of the current equipment. New equipment will come with software support, necessary to keep the network safe from vulnerabilities.