



e-FILING REPORT COVER SHEET

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

REPORT NAME: Electric Company New Construction Budget Report for 2020

COMPANY NAME: Idaho Power Company

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation: RE (Electric) RG (Gas) RW (Water) RO (Other)

Report is required by: OAR 860-027-0015

Statute

Order

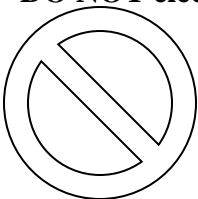
Other

Is this report associated with a specific docket/case? No Yes

If yes, enter docket number: RE 35

List applicable Key Words for this report to facilitate electronic search:

DO NOT electronically file with the PUC Filing Center:



- Annual Fee Statement form and payment remittance or
- OUS or RSPF Surcharge form or surcharge remittance or
- Any other Telecommunications Reporting or
- Any daily safety or safety incident reports or
- Accident reports required by ORS 654.715

Please file the above reports according to their individual instructions.



LISA D. NORDSTROM
Lead Counsel
lnordstrom@idahopower.com

May 5, 2020

Public Utility Commission of Oregon
Filing Center
201 High Street SE, Suite 100
P.O. Box 1088
Salem, Oregon 97301

Re: RE 35 - Idaho Power Company's New Construction Budget Report for 2020

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 2020.

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:kkt

Enclosure



ELECTRIC COMPANY NEW CONSTRUCTION BUDGET FOR 2020

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 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.
- 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:

- 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.**

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 Financial Accounting & Reporting Director	DATE 3/18/2020	

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 (HCC). IPC continues to work closely with various agencies and stakeholders to resolve issues associated with Section 401-Clean Water Act certification.	NA	100%	Unknown	325,998	13,161	█	█				█	
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. Receipt of the license is not expected until sometime in the future.	NA	100%	Various	72,161	12,207	█	█				█	
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%	2022	4,613	4,649	█	█				█	
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.	NA	100%	2023	189	2,168	7,710	█				█	

<p>Brownlee Unit 5 Generator Refurbishment – This project will refurbish the original Hitachi generator with new Roebel bars (windings), new bus rings, and refurbished rotor poles. This project will improve reliability and result in improved efficiency while extending the useful life of the unit by 30 years.</p>	NA	100%	2021	2,103	5,455	■					■
<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	641	1,335	■	■				■
<p>Non-Major Production Projects Total Production Projects</p>					53,800 92,775	■	■				
<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>											
<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.</p>											

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. Additionally, the 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.

Non-Major Transmission Projects
Total Transmission Projects

76,150

Distribution (See Instruction 3):										
Station Equipment					12,766					
Poles, Towers, and Fixtures					13,432					
Overhead Conductors and Devices					6,838					
Underground Conductors and Devices					13,816					
Underground Conduit					2,570					
Line Transformers					29,127					
Services					2,994					
Meters					4,638					
Street Lighting and Signal Systems					221					
Other:					2,764					
Total Distribution					89,166	■	■			
Major General Plant Projects:										
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.		100%	2021	5,573	3,698	■				■
Non-Major General Plant Projects					44,362	■	■			
Total General Plant Projects					48,060					
Total New Construction Budget					306,151	■	■			

NEW CONSTRUCTION BUDGET - 2020
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						
Soda Ash Hydrator	2021	\$ 315	\$ █	\$ █	\$ █	This project will construct a hydrator to allow refined soda ash to be used as a scrubber reagent rather than purge liquor. The project will mitigate load restrictions attributable to insufficient scrubber reagent.
Pahsimeroi Hatchery Radon Mitigation	2020	1,972	█	█	█	This project will modify the hatchery facility to allow better ventilation and/or install Radon associated equipment for the purposes of reducing Radon Gas levels with the Aeration Tower, Early Rearing (Vat Building), Well Houses and Manager Residence, and other locations as needed at the Upper and Lower Pahsimeroi Hatchery.
American Falls Relicensing	2025	1,000	█	█	█	This project is to renew the 50 year FERC license to operate the American Falls Power production facilities issued to Idaho Power in 1975. The current license expires in 2025. Idaho Power must submit a notice to relicense the project and conduct relicensing studies to support the relicensing application. The relicense application for American Falls is due to the FERC in 2023.
Replace GSU Unit #4 - Brownlee	2020	1,392	█	█	█	This project will replace the Generator Step-up Transformer (GSU) on Unit 4. The current GSU was manufactured prior to 1965. Replacing the GSU will improve reliability and maintain capacity.
Oxbow Airport, Mill and Repave	2020	1,100	█	█	█	This project will mill and repave the Oxbow Airstrip. Routine maintenance and repair has been performed over the years but the airstrip needs to be milled and repaved to ensure safe operations.
Upper Salmon Reject Spillway Refurbish	2021	4,725	█	█	█	This project will reconstruct the concrete walls, piers, gates and hoists at the reject gates off the flume at the Upper Salmon B plant. Work will necessitate a full cofferdam of the flume and diversion of the Snake River flow into the original construction bypass structure to supply the A plant with flow during the work. With the flume dewatered for the first time since original construction, additional repairs to the facility may include concrete repair of the flume and plant trash rack.
Upper Malad Diversion Fish Ladder	2020	1,819	█	█	█	This project will construct a fish ladder at the upper water diversion of the Malad River projects. The Malad license stated that after installation and operation of the lower fish ladder for 10 years, Idaho Power must begin construction on the upper diversion to pass rainbow trout.
Eagle Bar Maintenance Facility	2021	1,543	█	█	█	This project is to construct a maintenance facility at Eagle Bar that will support the Hells Canyon power plant generator and turbine projects. The building will have bathroom and office/break room area for the crew in addition to warehouse and work space. The site will be fenced for additional exterior laydown area.
Lower Salmon Upgrade Local Service, Phase 2	2022	433	█	█	█	This project will upgrade the local service system in the Lower Salmon power plant. The project includes an upgrade of Power Center A and Load Center B coinciding with turbine generator work on units 1 and 2. Subsequently, the Company will upgrade Power Center B coinciding with turbine/generator work on Unit 3.
Lower Salmon Control and Protection Upgrade	2023	213	█	█	█	This project will upgrade the power plant control and protection systems. This includes new electronic governor conversions, new plant GUI and historian, as well as BOP control upgrades. The work is planned to be performed concurrently with turbine/generator work on Units 1, 2, and 3 as well as the plant local service overhaul project.
TRANSMISSION						
	See Note at the Major Transmission Project section of this report.					
GENERAL PLANT						
Record Center Remodel	2021	\$ 140	\$ █	\$ █	\$ █	This project will remodel the Record Center with new carpet, lighting, paint, and window coverings. Additionally, a wet fire sprinkler system will be installed on the first floor improving safety for people and assets.
High-performance Computing System	2020	1,340	█	█	█	This project will replace the current high performance computing system (HPC) used to produce high resolution weather data. The current HPC will be retired at the end of 2020 due to being at the end of its life cycle. Replacing the existing system will be a collaborative effort with Boise State University to purchase and run a large scale HPC at INL's new Community Computing Center in Idaho Falls. The proposed system will run in a split mode, equally divided between operational and research model runs.