CONTRACTOR IDAHO POWER

Hydrogeneration Update

John Hildreth Principal Engineer

IRP Advisory Council Dec. 12, 2024



 Hydro generation modeling that goes into Aurora lays the building blocks for all other resources in the IRP.

MIDAHO POWER

- Idaho Power has almost 1,800 megawatts (MW) of hydroelectric generation capacity.
- Hydro is our largest energy resource.
- Hydro is an inexpensive fuel source and is a key factor in Idaho Power's ability to keep rates low for our customers.
- Hydro is a highly flexible resource that supports reliability of the system.

IRP Hydro Generation Planning

Objective: To model exceedance probabilities of hydro generation in each of the next 20 years

Hydro Part 1: Snake River and Hydro Generation Overview



Hydro Part 2: Federal Climate Change Study



Home > Energy and the Environment > Environment > Climate Change

Climate Change

Supplemental Sustainability Reporting Climate change is a significant policy issue that will have major implications for Idaho Power and may transform the energy industry.

Policy and societal decisions made about climate change policy will significantly affect our customers and the future prices they pay for energy.

For more than 100 years, Idaho Power has relied on clean generation resources like our hydroelectric plants that have little if any greenhouse gas emissions.

Although our generation portfolio currently includes fossil fuel generation, our carbon emissions are some of the lowest in the utility industry.

Our long-range plan details Idaho Power's glide path away from coal-fired generation, and our <u>Clean</u> <u>Today</u>, <u>Cleaner Tomorrow</u> initiative is a commitment to provide 100% clean energy by 2045 while keeping your electricity reliable and affordable.



Idaho Power is committed to our goal of **100% clean** energy by 2045.

Learn more O

Hydro Part 3: Resource Modeling



Planning Flow Results



Exceedance Plot Interpretation



CONTRACTOR OF CONTRACTOR OF C

Milner Results



CONTRACTOR OF CONTRACTOR OF C

Swan Falls Results



Brownlee Inflow Results





Planning Generation Results



Annual Hydro Generation Results



CONTRACTOR OF CONTRACTOR OF C

IDAHO POWER®

Monthly Hydro Generation Results: Year 2026 of IRP



Questions?



