Envisioning the Future
Idaho Power

Brett Dumas
Salmon Working Group
August 26, 2020
IPC Fisheries in Hells Canyon

- Monitoring population dynamics & operation impacts
  - Fall Chinook salmon
  - Bull Trout
  - White Sturgeon
- 6.8M hatchery releases
- Investment in state of the art hatcheries
SR Fall Chinook Recovery
Electric Power – Future Trends

Graph showing trends in energy sources:
- **Coal** decreasing
- **Gas** decreasing
- **Variable Resources** increasing

**Electrification**
Current Load Diversity
Resource Diversity
High Load Resource Capacity
Under Low Water Conditions (BPA)
2018-2019 Winter

Average Peak Power Prices
Thurs., 02/28 - Thurs., 03/07

- Mid-Columbia
- COB
- NP15
- SP15
- Palo Verde

1,070 MW
500 MW
2,060 MW
2,000 MW
2,000 MW
Our Purpose

We are passionate about powering lives with clean, reliable, affordable energy, while developing innovative solutions every day. Serving those who depend on us is at the center of everything we do. We all prosper by committing to the needs, safety and success of our customers, communities, employees and shareholders.

Idaho Power has a responsibility to meet customers’ needs, no matter how they change, 24 hours a day, 365 days a year.
Hourly Generation vs. Demand

From August 21, 12 AM to August 24, 12 AM

- Hydro
- Net Purchases
- Coal
- Diesel
- PURPA/Non-Utility Solar
- PURPA Other
- Natural Gas
- PURPA/Non-Utility Wind
- Non-Utility Geothermal

Date/Time
IPC: Tuesday, August 18th
NW Power Prices – August 2020

Average Peak Power Prices
Thurs., 08/06 - Thurs., 08/13

Average Peak Power Prices
Thurs., 08/13 - Thurs., 08/20
Envisioning the Future

• Continue to provide affordable, reliable, clean power

• What would replace the four LS dams?
  – Natural gas? Not in WA & OR
  – Nuclear? High cost, long permitting horizon, disposal
  – Wind and Solar? Intermittent resource – need storage & power lines
  – New Hydro? Hah! Maybe some pump-storage
  – Hydrogen? Has a long way to go

• Vision: Lower SR dams meeting energy needs with less impact on fish allowing for improved Idaho anadromous runs