Characteristics of the 4 Lower Snake River Dams

Clean and Affordable Energy Conference

NW Energy Coalition
and
Oregon Solar Energy Industries Association

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Simulated Annual Average Generation at all 4 Dams

Max Capacity 3,489 MW – Overall Average Energy 1,024 aMW
Simulated Monthly Average Generation at all 4 Snake River Dams
(averaged over 80 hydro years)
Sustained Peaking Capacity
(TRAP model output)

1937 Water

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1937 Water

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Ancillary Services Timing

Contingency Operation
- Supplemental Reserves
- Synchronized Reserves

Normal Operation
- Load Following (and energy imbalance)
- Regulation
- Voltage Control

Modeling limit 1 hour

Time (in minutes) not to scale
Ancillary Services Provided by the 4 lower Snake Dams

- Part of Automatic Generation Control (AGC)
- Can provide spinning reserves

------------------ Modeling Assumptions ------------------

- Provide load following for periods > 1 hour
- Do not provide balancing reserves (INC/DEC)
- Do not explicitly provide contingency reserves