

Hydro with Storage Preliminary ELCC Results

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- Dispatching Hydro with Storage resources in the ELCC model requires the following input parameters
 - Average hourly inflow parameter by month (in MWh)
 - Hourly minimum and maximum levels by month (in MW)
 - Normal plus exigent (emergency) storage (in MWh)

- Total ICAP = 2,340 MW
- Hourly Minimum Level (July) = 0 MW
- Hourly Maximum Level (July) = 2,340 MW
- Average Hourly Inflow Parameter (July) = 778 MWh (33% of ICAP)
- Storage available (normal plus exigent; July) = 9,952 MWh
 - ~ 4 hours at maximum level
 - It takes around 13 hours to refill the storage

- A class of Hydro with Storage resources per the parameters in the previous slide gets a preliminary ELCC of 75%-80% regardless of the portfolio under analysis
- Intermittent Resources' (solar, wind, intermittent hydro, intermittent landfill) ELCC values are not impacted by the new modeling of Hydro with Storage Resources
- 4-hour ESR and hybrids with 4-hour ESR ELCC values are reduced due to the new modeling of Hydro with Storage
- 8-hour ESR ELCC values are largely not impacted by the new modeling of Hydro with Storage Resources