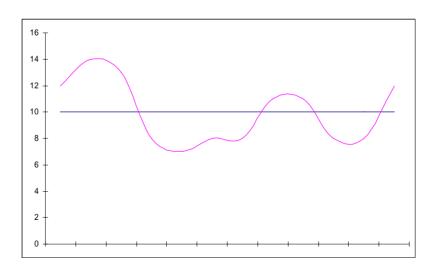
FCRPS System Operations and Capacity



Regional Dialogue Landscape

- Post-2011 rights are based on net requirements and high water marks that are defined on an average annual energy basis.
- BPA is not defining rights based on capacity [the maximum rate of delivery during some period].





Capacity is becoming a significant issue for customers because:

- Understanding critical to Region building correct set of new resources to meet peak
- Necessary to integrate new resources and meet variable load
- Understanding resource adequacy implications
- Important to optimize market participation
- Necessary to define the "load following" product
- Necessary to assure no costs shifts among customers



Understanding the Capacity Attributes of Products Critical to BPA because...

- Critical to Region building correct set of new resources to meet peak
- Defines resource adequacy implications
- System capacity dedicated to Canadian Entitlement obligations
- Non-power operations have significant capacity impacts and may have additional impacts in the future
- Capacity impacts of loads have increased
- Discretionary rights to use the system have expanded
- Transmission Services re-dispatch may consume capacity
- Transmission constraints strand capacity
- Intermittent resource integration capacity implications



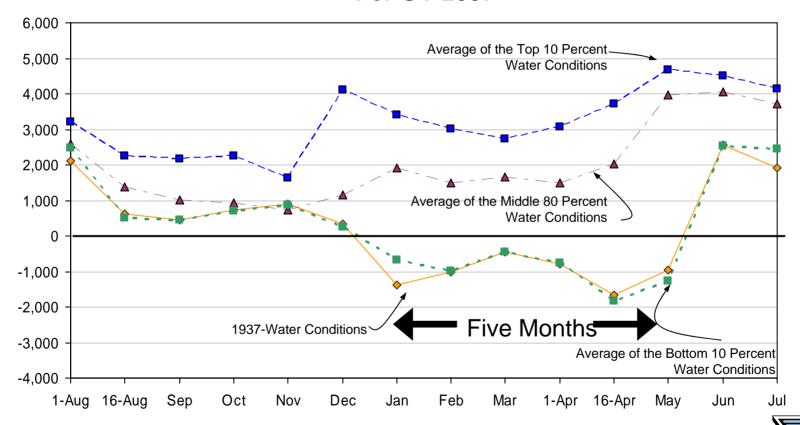
The Current Capacity Situation

BPA long term projections show deficits in 1 hour and 120 hour peaking capacity in 2007 and into the future for January through May under adverse water conditions.

This means that if we had a lower decile water condition, then we would be forced to rely on being able to buy from the market on critical peak hours in order to meet PF load.



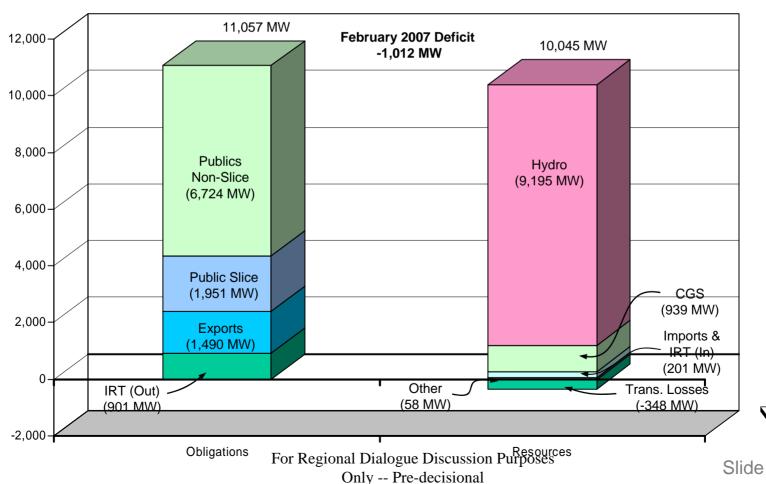
2006 White Book Potential Variability of 120-Hour Capacity Federal Surplus/Deficit Projections Utilizing Differing Water Conditions For OY 2007



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2006 White Book February 2007 Federal System 120-Hour Capacity Load Resource Stack 1937 Critical Water Conditions 120-Hour Capacity in aMW

Note: Loads are reduced for diversity and resources are reduced for 120-Hour Peaking, reserves and maintenance



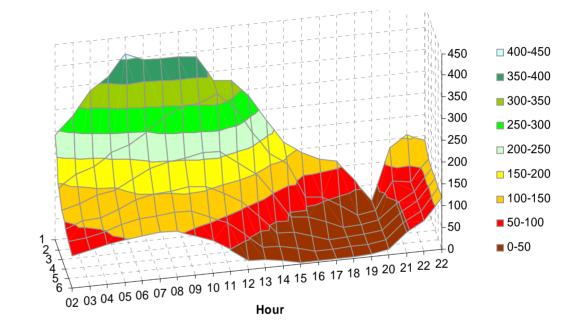
Operational Constraints

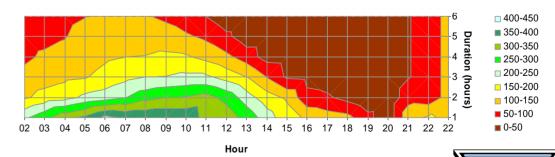
- Target elevations and flows
- Tailwater constraints
- Restricted Operating Range/Minimum Operating Pool
- Spill
- Unit Outages
- Ramping limits
- Reverse Load Factoring
- Peak efficiency limits
- Upstream project operation (Federal and Non-Fed)
- Voltage Support Requirements



Capacity Decisions are Interdependent

- Capacity is generally water constrained, particularly when region is stressed
- Project position and relationships within the FCRPS is critical to planning use in RT, DA, or further out





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