

SMUD Strategic Development Committee

Summer Preparedness

Jim Shetler
BANC General Manager

5/11/21



BALANCING AUTHORITY OF NORTHERN CALIFORNIA

A JOINT POWERS AUTHORITY BETWEEN

Modesto Irrigation District | City of Redding | City of Roseville | Sacramento Municipal Utility District | City of Shasta Lake | Trinity Public Utility District

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AGENDA

- Background on BANC and Jim Shetler
- BANC Summer 2021 Assessment
- Regional Collaboration



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Balancing Authority of Northern California

- Joint Powers Agency
 - 6 members (MID, Redding, Roseville, SMUD, Shasta Lake, & TPUD)
 - Contractual Relationship with WAPA-SNR & TANC
 - Formed in 2010, Operations go live 5/1/2011
 - Services: Balancing Authority, Planning Coordinator, EIM Entity
 - Services provided via third party contracts/no permanent staff



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Jim Shetler – BANC General Manager

- In the electric power industry since 1971
 - Primary background in operations with focus on reliability
- General Manager at BANC since 12/2013
- SMUD for 27 years in various positions
- Western Electricity Coordinating Council (WECC)
 - Board Member (2011-2013)
 - Chair, Member Advisory Committee (2013-2014)
- Peak Reliability Coordinator
 - Chair, Member Advisory Committee (2016-2019)
- Actively engaged in EIM Entity stakeholder groups
- Western Electricity Industry Leaders (WEIL)
 - Steering Committee member (2020-Present)



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BANC Summer 2021 Assessment

- Summer 2020 Performance
 - Peak demand = 4575 MW on 8/16/20 at 16:46 hours
 - 2 members set record peaks
 - BANC footprint below all-time record peak of 4906 MW in 2006
 - No rotating outages required in BANC footprint
 - Did issue conservation requests
 - Provided support to CAISO when available
 - Recognized ability to meet load was tight
 - Initiated a deeper dive summer 2021 assessment for BANC



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BANC Summer 2021 Assessment - 2

- Highlights
 - Assessed 6 critical hours HE16-HE21 on peak load day
 - Evaluated both gross and net peak
 - Updated generator capabilities based upon actual historical data
 - Evaluated hourly import availability considering both firm imports and non-dependable imports
 - Updated Demand Response Program capabilities
 - Performed Loss of Load Probability analysis & ran special operating scenarios (e.g. – wildfire impacts; dry hydro year)
 - Calculated Operating Margins for 1:2 and 1:10 load forecast probabilities



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BANC Summer 2021 Assessment - 3

- **Conclusions**
 - BANC can serve expected 2021 summer loads while meeting NERC/WECC reliability standards
 - Facility maintenance has been completed; no planned major outages over the summer
 - Will call on conservation and demand response as needed
 - Operating Margins are tight in heat wave situations
 - Still prepared to support adjacent BAAs to the extent we have capacity available
- **Longer-term Concerns**
 - Continued reductions in operating capacity by mid-decade
 - CAISO (Diablo Canyon, OTC plants)
 - PNW (Early coal retirements, avoidance of new NG)
 - BANC (planned reductions)



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Regional Collaboration

- Common theme in the West is that collaboration is key to meeting renewable and GHG reduction goals
 - Sharing load, resource, and region diversity will assist in ensuring a reliable and cost-effective transition
- **BANC Efforts**
 - NWPP Reserve Sharing Group
 - Energy Imbalance Market (EIM)
 - Phase 1 – SMUD only; April 2019
 - Phase 2 – SMUD /MID/Redding/Roseville/WAPA-SNR; March 2021
 - Extended Day Ahead Market (EDAM) development



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Supplemental Information



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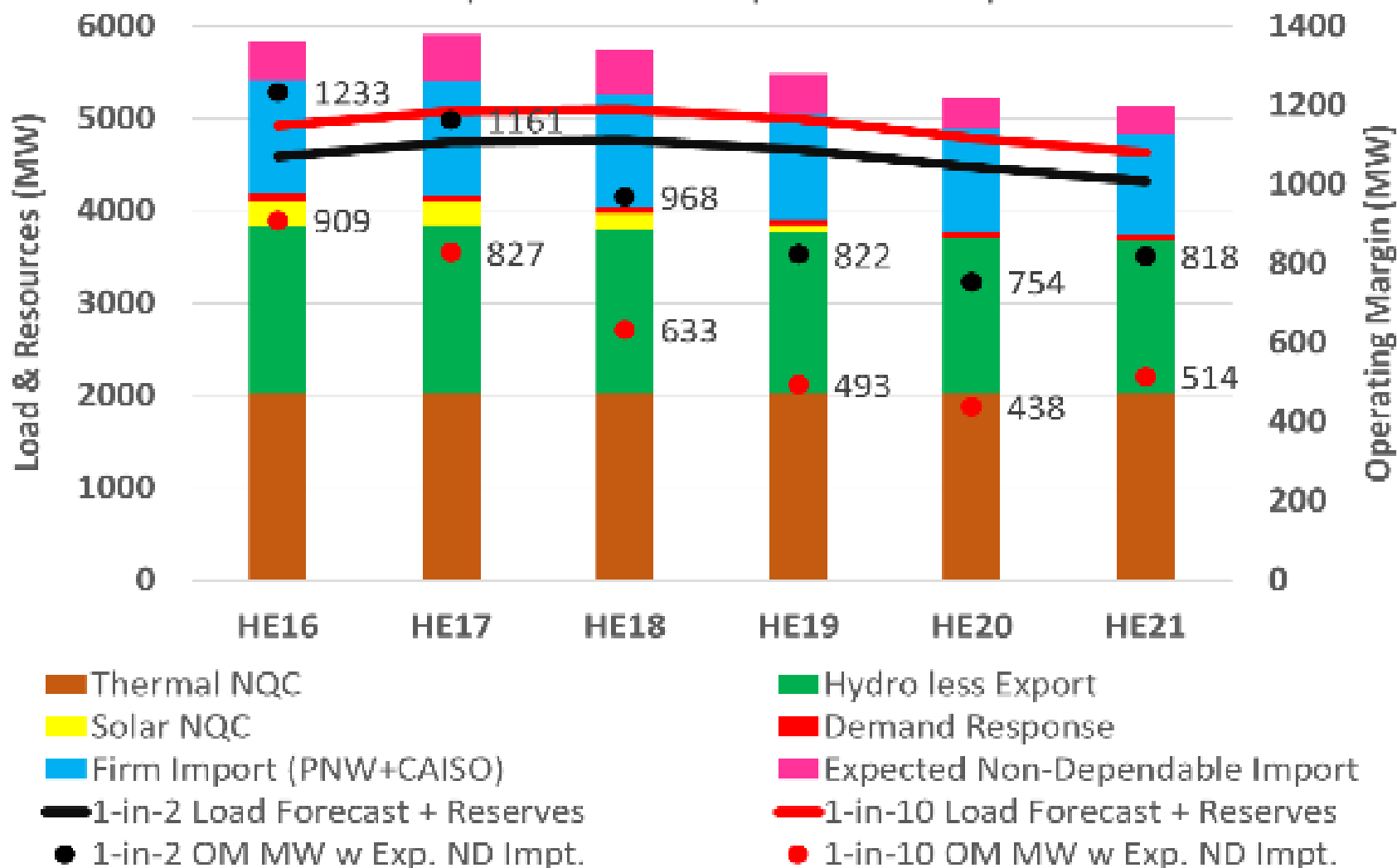
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BANC Load and Resource Outlook on Peak Load Day with Expected Non-Dependable Import

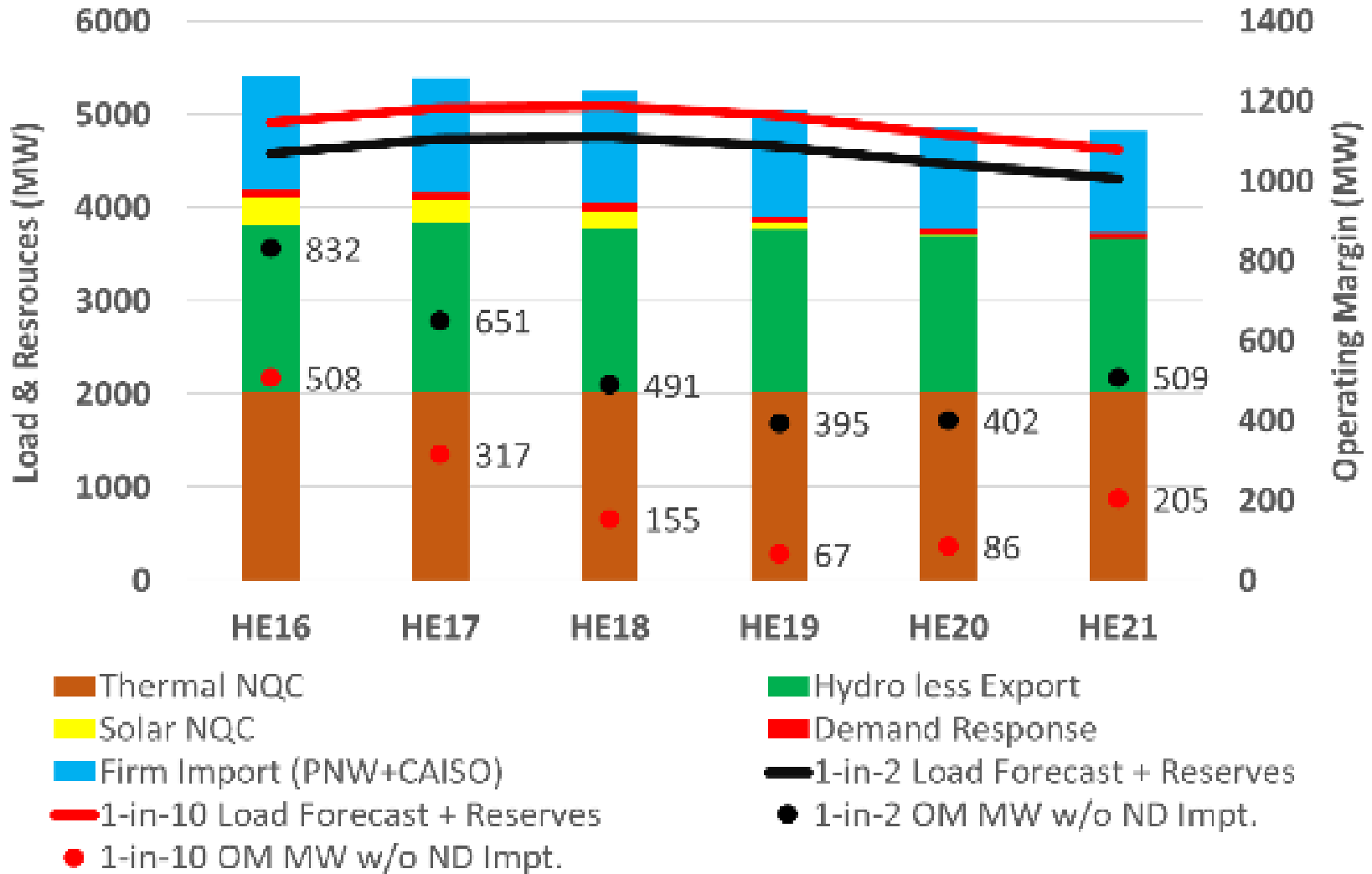


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BANC Load and Resource Outlook on Peak Load Day without Non-Dependable Import



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