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<tr>
<th><strong>Docket Number:</strong></th>
<th>19-SB-100</th>
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<tr>
<td><strong>Project Title:</strong></td>
<td>SB 100 Joint Agency Report: Charting a path to a 100% Clean Energy Future</td>
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<td><strong>TN #:</strong></td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - Balancing Authority of Northern California (BANC) Comments - SB 100 Workshop</td>
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<tr>
<td><strong>Description:</strong></td>
<td>Presentation by Jim Shetler, Balancing Area of Northern California</td>
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<td><strong>Filer:</strong></td>
<td>Harinder Kaur</td>
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<td><strong>Organization:</strong></td>
<td>Balancing Authority of Northern California</td>
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<td><strong>Submitter Role:</strong></td>
<td>Public</td>
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<td><strong>Submission Date:</strong></td>
<td>10/24/2019 2:00:15 PM</td>
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Balancing Authority of Northern California (BANC) Comments

SB 100 Workshop
Redding, CA

October 25, 2019
BANC Background

• Group of N. CA POUs
  • Members
    • Modesto Irrigation District
    • City of Redding
    • City of Roseville
    • Sacramento Municipal Utility District
    • Trinity Public Utilities District
    • City of Shasta Lake
  • Contract Relationships
    • WAPA – SNR: 230kV system that interconnects the Central Valley Project (CVP)
    • Transmission Agency of Northern California (TANC): 500kV California-Oregon Transmission Project (COTP)
BANC Background (cont’d)

• Joint Powers Agency formed by its members
• Provides Balancing Authority Area services to its members and contracted parties and Planning Coordinator services to members requesting the service
• Complies with applicable NERC Reliability Standards
• Serves as the EIM Entity to facilitate participation in CAISO EIM for those within the BANC BAA
  • Phase 1 EIM participation (SMUD Only) – April 3, 2019
  • Phase 2 EIM participation (remaining members + WAPA) – April 2021
• ~5000 MW Peak Load BA
  • 16th largest in West; 3rd largest in CA
BANC Footprint

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
6001 S Street  MS D109  Sacramento CA 95852-1830
WWW.THEBANC.ORG
Comments on SB100

• BANC members = POU load serving entities – fiduciary responsibility to balance customer/owner expectations
  • Safety
  • Reliability
  • Affordability
  • Environmental Sustainability

• BANC and its members support SB100 goals
  • Current approach focused around “zero” net carbon, with adjustments based upon cost effective, proven technologies
  • Need clear articulation of near-term vs. long-term goals
  • 100% Renewables/“zero” carbon/ “zero” net carbon
    • Each can have a very different impact on how reliable operations are met
Comments on SB100 (2)

• BANC as BAA is focused on reliability
  • Basic expectation of our customer-owners
  • Inherent in NERC defined role of BAA
    • NERC standards demand and require compliance
  • Results in conservative approach to ensuring reliable BAA operations
    • Balancing load and resources in the BAA footprint requires responsive resources to meet ramping and real-time fluctuation requirements
    • Promotes diverse resource mix
    • Promotes use of proven resources
Comments on SB100 (3)

• Considerations Going Forward
  • Need a clear, flexible transition plan
    • Avoid frequent changes in direction
      • Changes in direction based upon proven technology and sound decisions
    • New technology proven and in place before old technology is abandoned
  • Diverse resource mix
    • Hydro has to count
    • Proper mix of in-state and regional resources
      • Need to factor in potential CAISO and PNW capacity shortfalls
    • Validated Demand Response and Distributed Generation
    • Mix of short-term and long-term storage essential to transition
  • Need to plan for worst case scenarios (weather/fire)
  • Expansion of EIM and development of EDAM part of solution
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