EIDSN Update

NASPI Work Group Meeting
April 14, 2022
Kent Simendinger, EIDSN Technical Director
EIDSN’s Purpose

• Facilitate an efficient, effective and secure network for the sharing of operating reliability data among its members and participants.

• Promote the reliable and efficient operation of the Bulk Electric System (BES) through use of Electric Information Network (EInet).

• Sharing SCADA and synchrophasor data among appropriate entities.

• Facilitate the adoption, development and operation of software tools used by members and participants to enhance the reliable and efficient operation of the Bulk Electric System.
EIDSN Member Companies

- Duke Energy Carolinas, LLC (VACS)
- Florida Reliability Coordinating Council, Inc. (FRCC)
- Hydro-Quebec TransEnergie (HQ)
- Independent Electricity System Operator (IESO)
- ISO New England, Inc. (ISONE)
- Midcontinent Independent System Operator, Inc. (MISO)
- NB Power Corporation (NBPC)
- New York Independent System Operator, Inc. (NYISO)
- PJM Interconnection, L.L.C. (PJM)
- Southern Company Services, Inc. (SoCo)
- Southwest Power Pool, Inc. (SPP)
- Tennessee Valley Authority (TVA)
EInet & Synchrophasor Data

• EInet - A private, vendor-diverse, redundant, encrypted and scalable MPLS network endorsed as the replacement for NERCnet.
• Production synchrophasor data sharing over EInet continues to evolve
• EIDSN’s Advisory & Technical Committee topics
  – Evaluation of DoE ESAMS project, as well as other potential similar tools to benefit situational awareness through data sharing for the Eastern Interconnect
  – Are other members contemplating synchrophasor data exchange?
  – EInet bandwidth consumption forecasts and monitoring
  – # of phasors/PMU’s and types in scope by company
  – Data Retention period (compressed and uncompressed)
  – Alternative protocols and sharing architectures
  – EInet supporting technologies, encryption and security
Joining EIDSN, Inc.

• Nonstock, nonprofit corporation - 501(c)(6)

• Eastern Interconnection restriction for affiliation with the organization removed in 2018

• EIDSN Affiliation is based on the organization’s NERC designation and/or selection and (shown here). Only RC’s can be Members.

<table>
<thead>
<tr>
<th>NERC Designation</th>
<th>Member</th>
<th>Participant</th>
<th>User</th>
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<tbody>
<tr>
<td></td>
<td>Reliability Coordinator</td>
<td>RC, TO, TOP, BA</td>
<td>RC, TO, TOP, BA, Regional Entity</td>
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• GO/GOP’s may also join as network users if sponsored by existing member/participant.

• Agreements requiring execution
  – Master Confidentiality Agreement
  – Network Service Agreement
  – Member OR Participant Agreement
EIDSN Contact Information

https://www.eidsn.org

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