EIDSN Update

NASPI Work Group Meeting
October 7, 2021
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 (Elnet).

• 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 Technical Committee topics**
  - Which organizations are sharing synchrophasor data
  - 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
  - Demonstration projects members are engaged in
  - EInet supporting technologies, encryption and security
Joining EIDSN, Inc.

- Nonstock, nonprofit corporation - 501(c)(6) – same as the NFL
- Eastern Interconnection restriction for affiliation with the organization removed in 2018
- EIDSN Affiliation is based on the organization’s selection and NERC designation (shown here)

<table>
<thead>
<tr>
<th>NERC Designation</th>
<th>Member</th>
<th>Participant</th>
<th>User</th>
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<tbody>
<tr>
<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 participate 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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