

Deploying Energy Storage as Transmission Assets

PRESENTED BY

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Battery Storage for Generation and Transmission Deferral Panel – Dec. 8, 2020



OUR VISION

Connecting you with
a sustainable energy future

Introducing ATC

- Began operations in 2001 as the nation's first multi-state, transmission only utility
- Founding MISO transmission owner
- Operates 9,890 miles of lines and 568 substations
- Upgraded >2,260 miles of lines, built >710 miles of new lines, improved more than 210 substations



Interest in storage as transmission

- Promising tool for addressing transmission issues
 - Capital costs are declining
 - Technologies are maturing
 - Flexibility of applications
 - Some advantages over traditional facilities



Source: Desert Sun



Source: T&D World

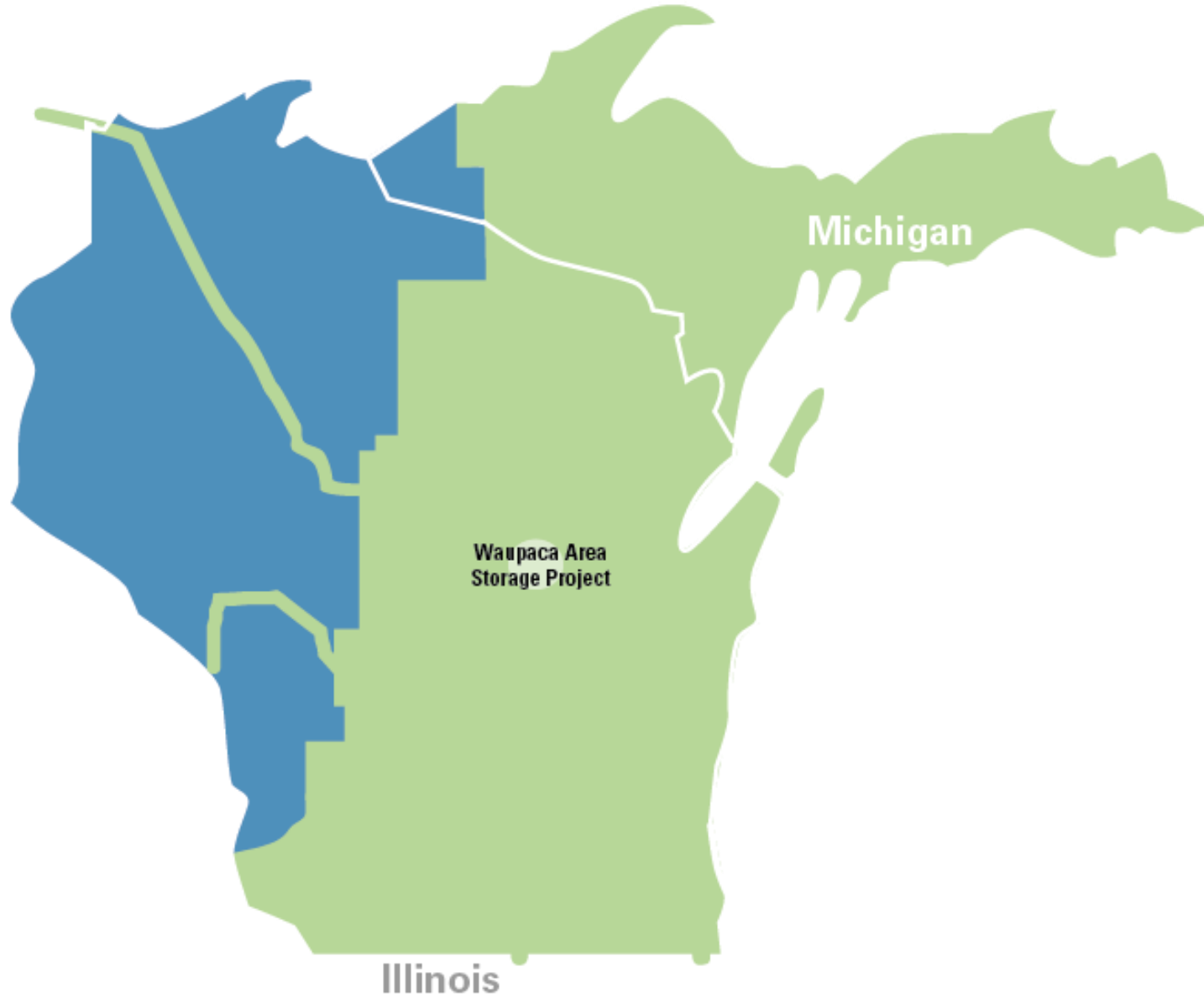
FERC policy on storage as transmission

- Western Grid Development order (EL10-19)
 - Classified a group of batteries as transmission facilities based on how they were to be operated
- Cost Recovery Policy Statement (PL-17-2)
 - Determined that energy storage devices could provide both transmission and market services and raised issues to consider related to cost recovery

Storage as transmission in MISO

- Starting in April 2018, MISO conducted a stakeholder process to develop rules to treat storage as transmission
- MISO on Dec. 12, 2019 filed “Storage as Transmission Only Asset” (SATOA) tariff revisions with FERC (ER20-588)
- FERC on Aug. 10, 2020 conditionally accepted MISO’s Storage as Transmission Only Asset (SATOA) tariff revisions
 - FERC approved MISO’s compliance filing on Nov. 5, 2020
- MISO will now address the possibility of using storage as transmission to provide market services

Waupaca Area Storage Project



ATC's Waupaca Area Storage Project

- 2.5 MW/5 MWh lithium ion battery
- Provides voltage support and operational flexibility in responding to multiple contingencies
- MISO identified project as solution in 2019
 - Board to consider project's inclusion in plan in December meetings

