

Emergency Response Workshop



Mike Zahorik, American Transmission Co.

Manager of Operations

Kevin Sherd, Midwest ISO

Manager - MISO East Region Operations

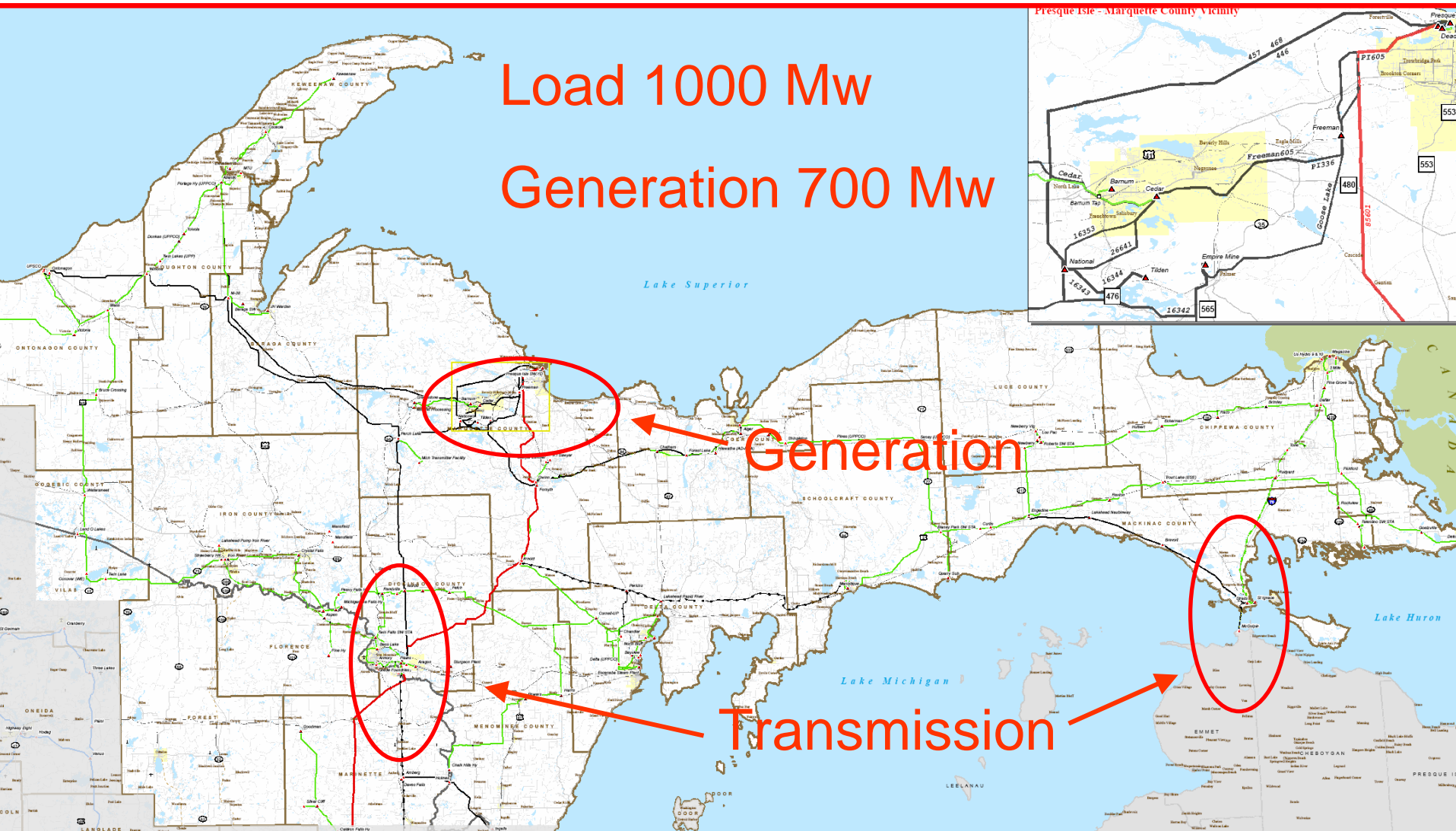
Jim Maenner, Wisconsin Public Service

Manager – Energy Delivery Operations

Tony Jankowski, We Energies

Manager - Electric System Operations

U.P. Energy Resources

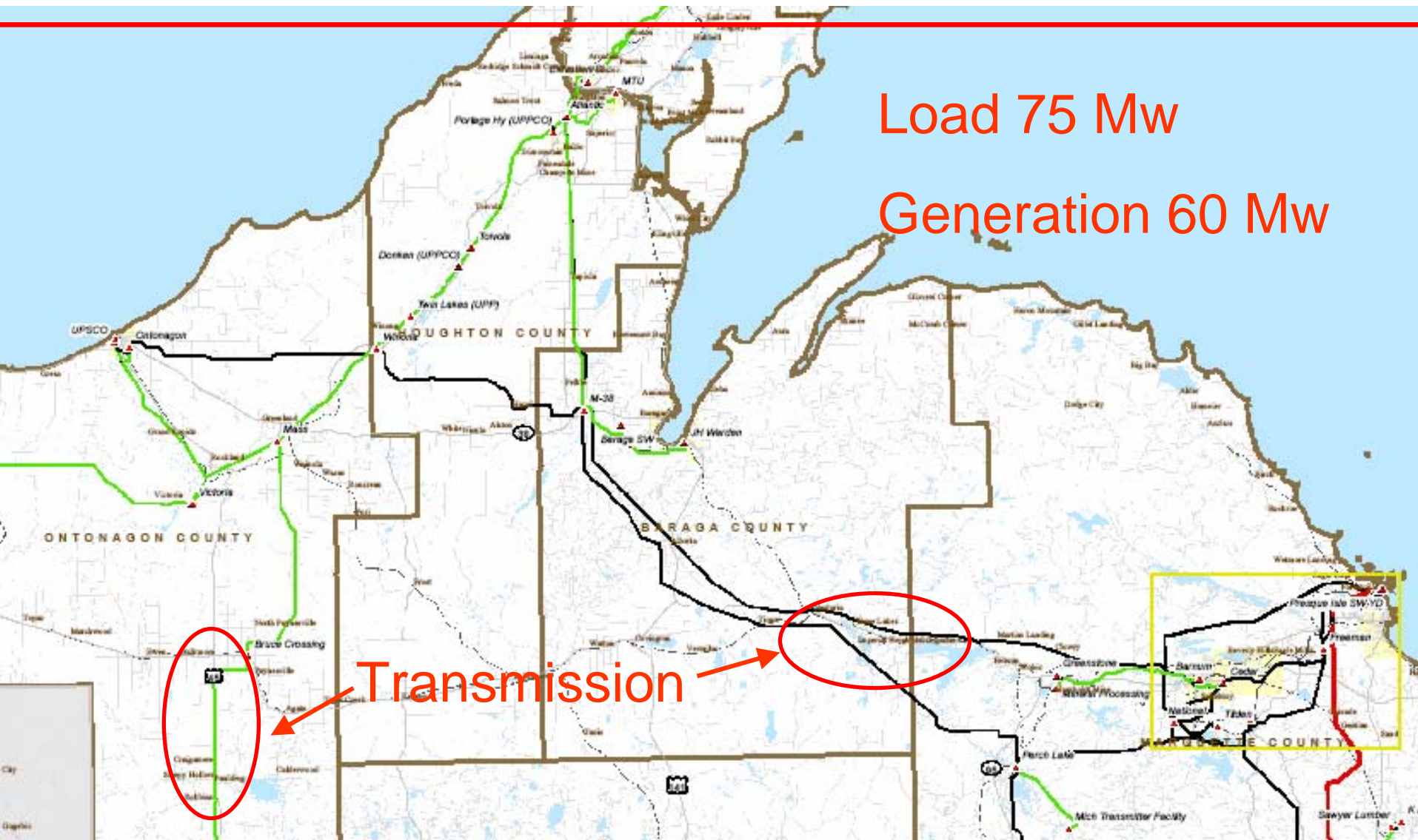


West U.P. Energy Resources

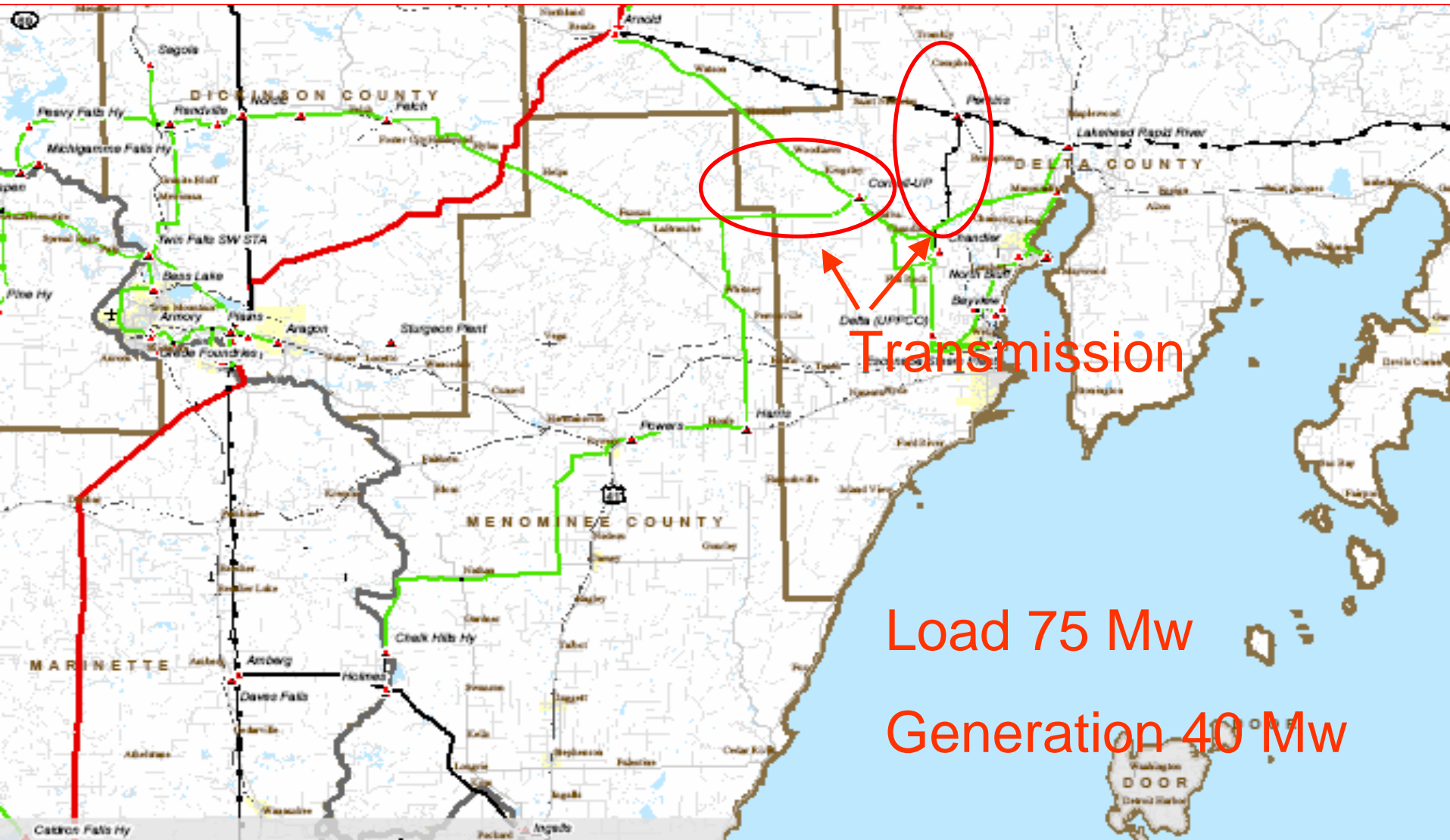


Load 75 Mw

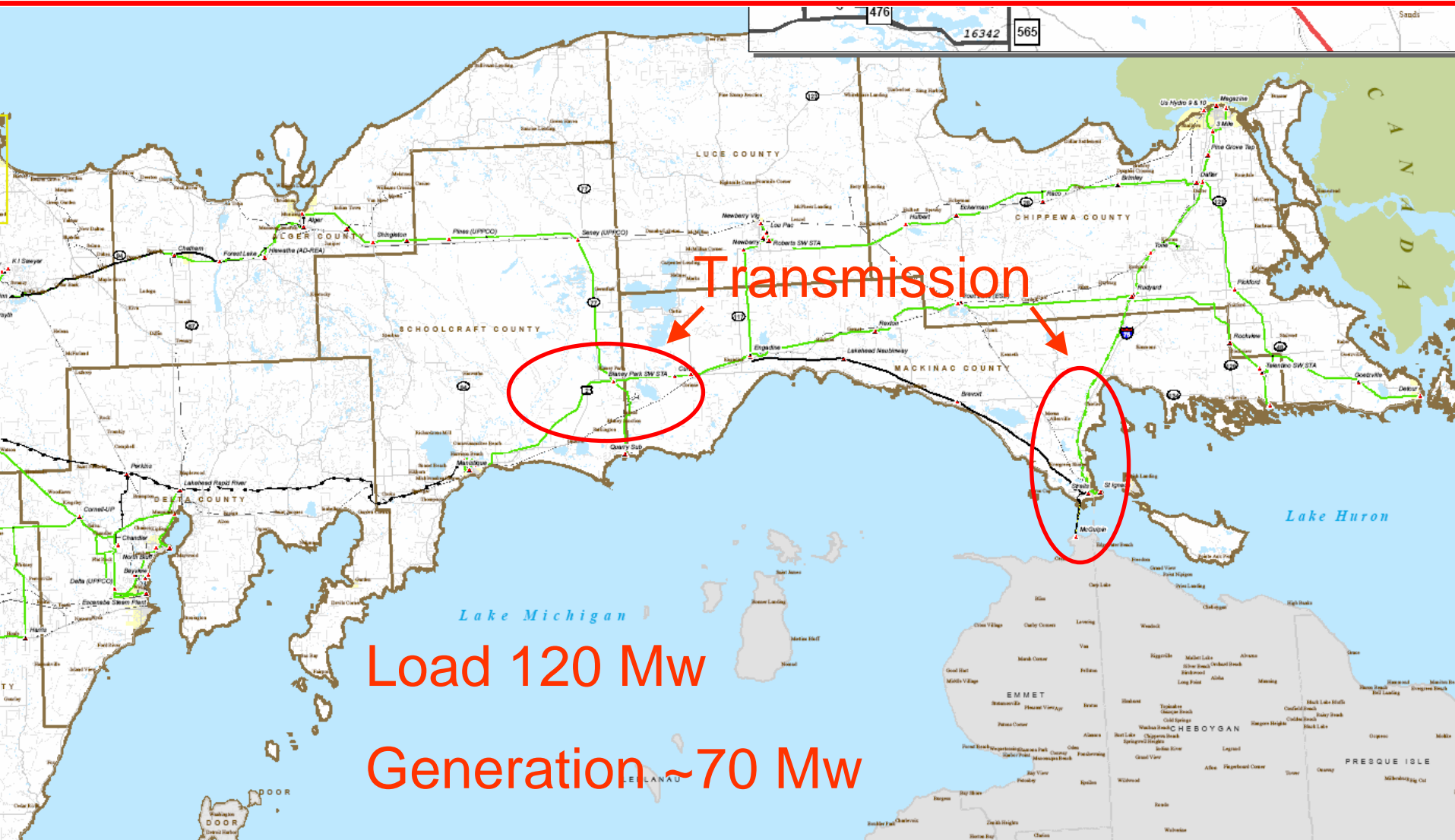
Generation 60 Mw



Escanaba Energy Resources



Eastern U.P. Energy Resources



Transmission

Load 120 Mw

Generation ~70 Mw

When Things Go Wrong!



Iowa - “on Thin Ice”



Domestic Terrorism, Milwaukee



Tornado Visits St. Nazianz



Tornado Visits Iron Mountain



Identification of Emergency



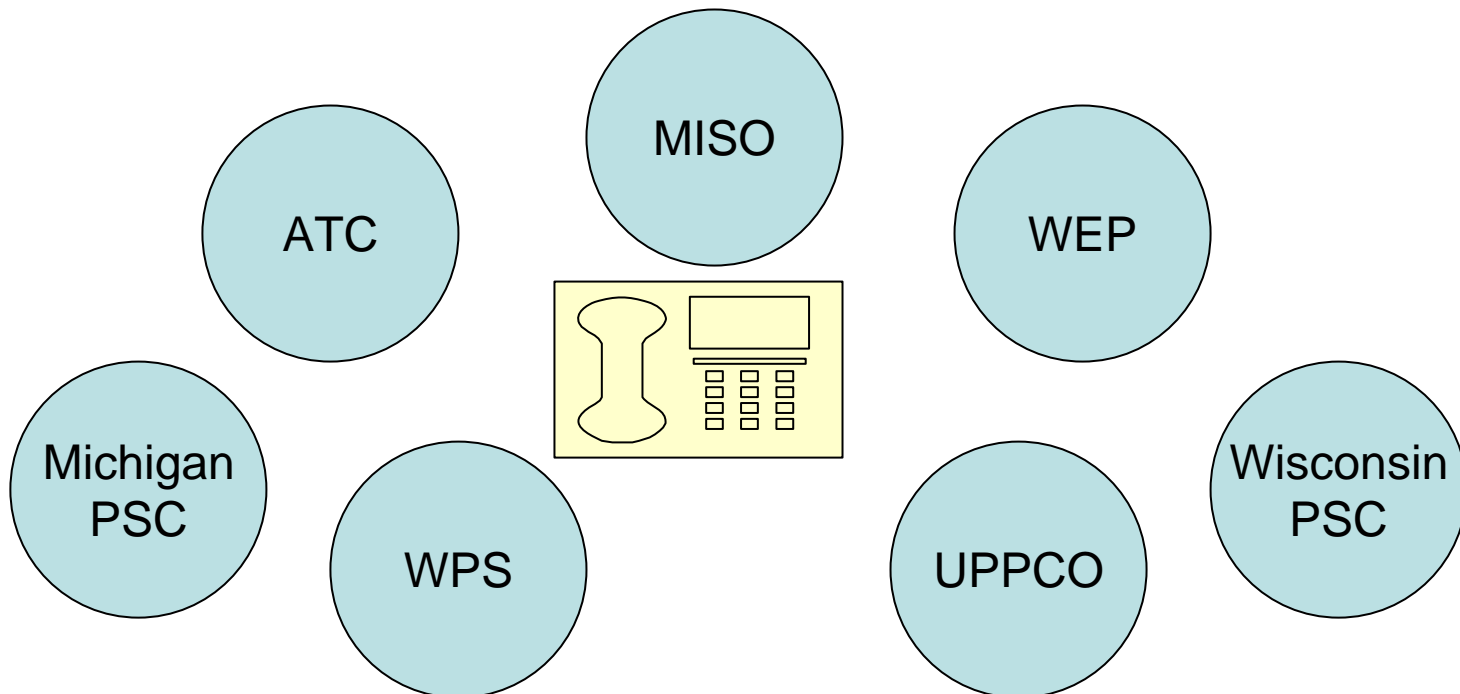
ATC System Operators and customers will be the first to know of an emergency. ATC and the Midwest ISO will discuss the damage and implications to generation and load in the area.



Communication of Emergency



- Conference calls will be set up between ATC, MISO, WPS/UPPCO, We Energies and State Commission staff.
- An Emergency Action Plan is developed and updated as more information is obtained.



Damage Assessment



1. Establishing the extent of the damage
 - a) Length of outages
2. What resources are located in the area.
 - a) How much Load needs to be served?
 - b) How much Generation is available to serve Load?
 - c) How much Transmission service is available to the area?
3. What are the impacts of the damage on the area?
4. Must load be curtailed?

WPS/UPPCO Response Team



- ✓ Executive (VP)
- ✓ Electric Operations – (Energy Delivery)
- ✓ Generation Operations – (Power Plants)
- ✓ Electric Supply – (Resource Procurement)
- ✓ Electric Distribution Engineering – (Mutual Assistance)
- ✓ Substation Operations and Engineering
- ✓ Retail Account Management – (Commercial/Industrial)
- ✓ Wholesale Account Management – (Bulk Power)
- ✓ Customer Service – (Call Center)
- ✓ Public Affairs – (Media, Announcements, Information)

Response Team



Understanding of Situation

- Conditions
 - Safety
 - Service to Customers
 - Equipment/Facility Damage Assessment
- Actions Taken
 - Procedures Implemented
 - Deployed Resources
- Contingency Identification/Assessment
 - Threat, Risk, Potential

Response Team



Brainstorm Solutions/Options

- Generation
 - Power Plants, Portable Generation
 - Customer Owned Generation
- Load
 - Customer Interruption
- Field Personnel Deployment
 - Damage Repair/Service Restoration
- Logistics
 - Manpower/Food/Lodging/Fuel/Materials

Response Team



Develop Response Plan

- Assign Tasks and Responsibilities
- Set Timeline
- Communicate Plan
- Implement

Monitoring/Follow-up

- Status/Progress Reports
- Identify New Issues/Problems
- Ongoing Communications
 - ATC/MISO/Other Utilities
 - Customers (via Media and Account Management)
 - State Commissions

Deployment of Mobile Generators



Deployment of Mobile Generators

