## **Marquette Power Plant Opportunity**

U.P. Energy Summit







## We Energies Overview





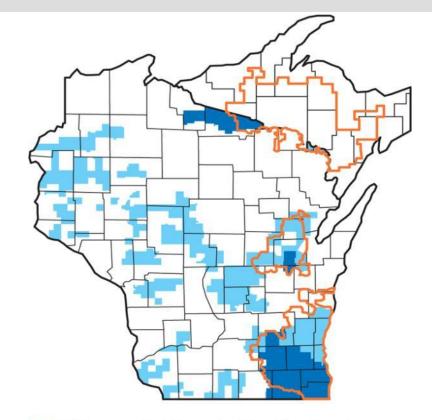






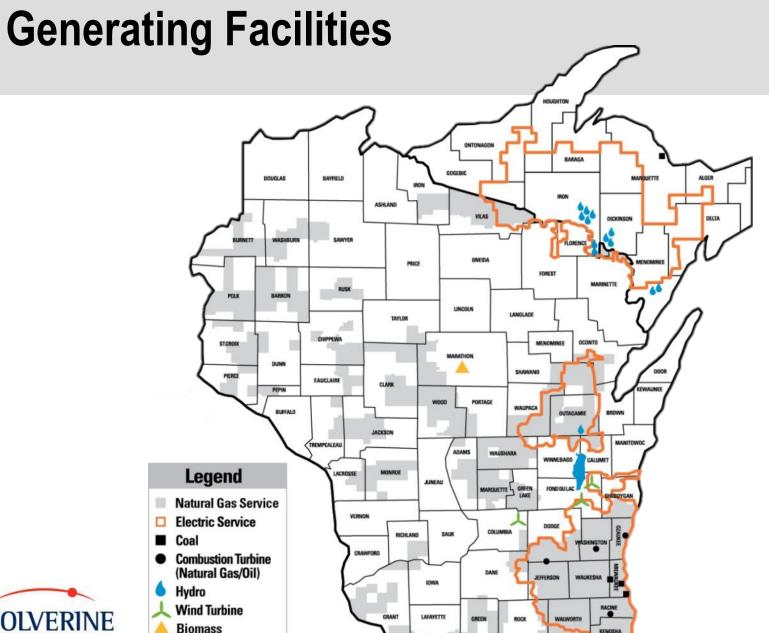
#### **Service Area**

- Largest electric and gas company in Wisconsin
  - 1.1 million electric customers
  - 1 million natural gas customers
- Service territories in Wisconsin and Michigan



- Wisconsin Electric Gas Service Area
- Wisconsin Electric Electric Service Area
- Wisconsin Gas Service Area









#### **Marquette Power Plant**



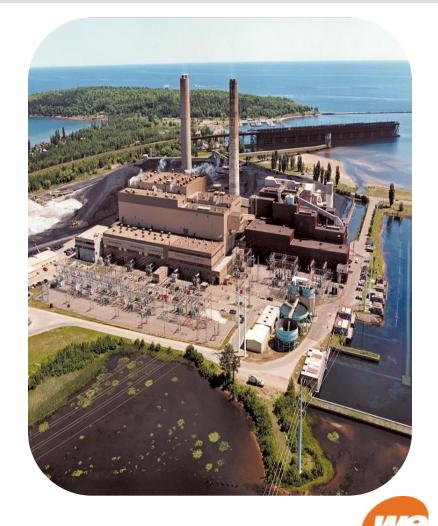




#### **Overview**

- Only large coal-fueled plant in Michigan's Upper Peninsula
  - 170 employees
- Five units
  - Nameplate capacity of 431 MW
  - Fueled with bituminous or Powder River Basin coal (at reduced capacity)
- Managed emission reductions on a system-wide basis
  - High-efficiency bag houses to control particulates
  - Mercury control project





#### **Environmental Challenges**

- New pending air emission rules "alphabet soup"
  - Address most with small amount of capital and O&M
  - Potential reliability concerns
- Water intake and coal combustion ash rules



## **SO<sub>2</sub> NAAQS** of significant concern for Marquette.

- New standard 50 times more stringent than previous standards.
- Expect compliance to be required in 2017.





#### **Options Considered**

- Install air quality control system
- Reconfigure plant with natural gas
- Retire plant
  - Build new natural gas combined-cycle unit in Upper Peninsula
  - Increase transfer capacity to Upper Peninsula







#### **Wolverine Overview**











#### **Mission Statement**

To provide outstanding service to our members by delivering reliable, competitively priced power supply.

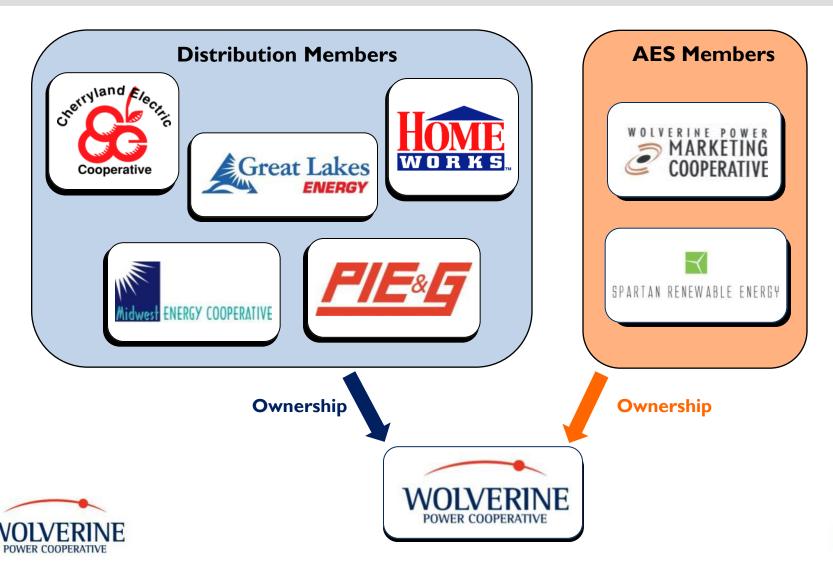
Reliability

**Affordability** 





#### **Members and Corporate Structure**

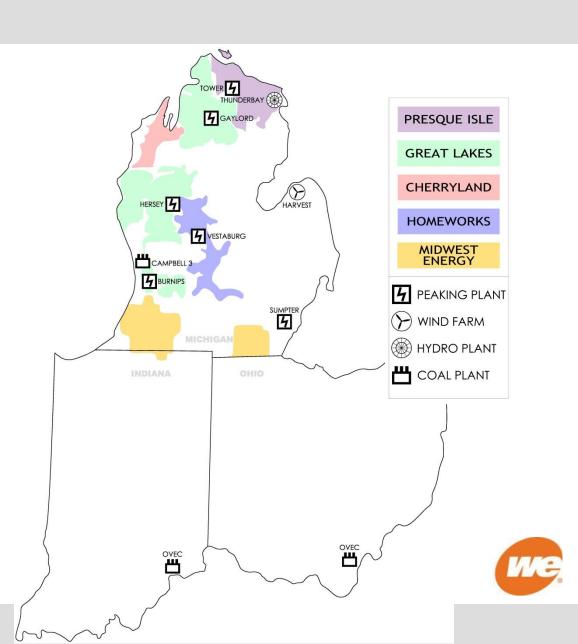




#### **Service Area and Generation Locations**

- Generation
  - 165 MW baseload
  - 565 MW peaking
- Transmission
  - 1,600 miles
  - 36 transmission substations
  - 130 distribution substations
- 268,000 retail member-owners





# Wolverine Power Supply Overview











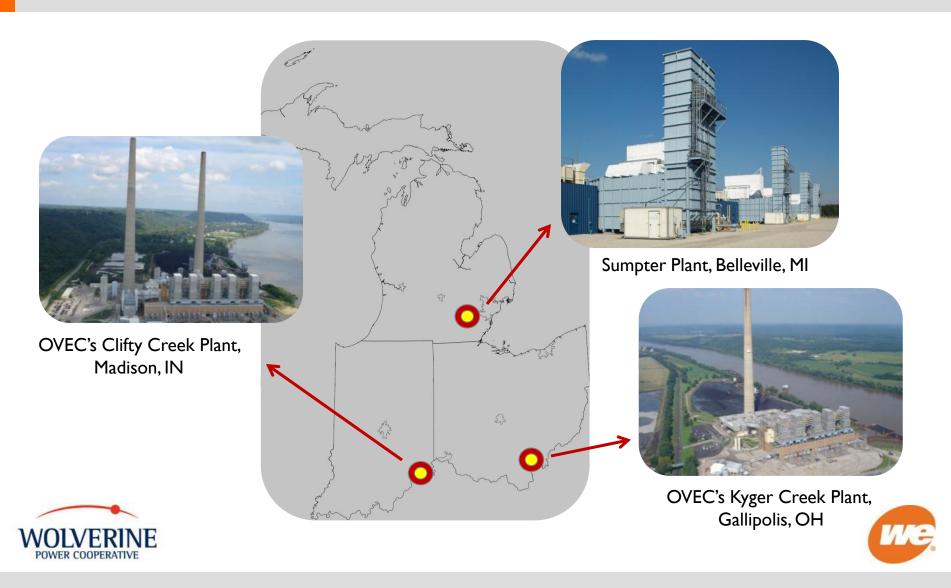
#### Power Supply Strategy – Five Key Areas

- Asset ownership
- Diversity (Fuel/counterparty)
- Long-term price stability
- Competitive rates
- Environmental stewardship





## **Recent Acquisitions**



#### **Wolverine Clean Energy Venture**

- Proposed in 2006 for site near Rogers City
- Two units at 300 megawatts each
- Currently:
  - Defending air permit at Michigan Court of Appeals
  - Preparing to submit request for air permit extension



EGU MACT rule puts project in doubt.





## **Perspectives for Joint Venture**







#### How the Dialogue Began

- Initial meeting
  - Monday following Thanksgiving holiday
  - Primary purpose to discuss Rogers City development
- Discussions led to further brainstorming
- Culminated in potential joint venture at Marquette





#### **Basic Structure of Joint Venture**

- Wisconsin Electric contributes plant
- Wolverine funds construction of air quality control system
- Ownership shared





## **We Energies Perspective**







#### **Benefits of Joint Venture**

- Power supply cost benefits
- Future economic development in the Upper Peninsula
- Preserves jobs at the plant





#### Three Key Hurdles for Joint Venture

- Viability of air quality control system at site
- Due diligence including economic evaluation
- Regulatory approvals





## **Wolverine Perspective**







#### Why is Marquette Such a Good Fit?

- Relative size to needs
- Quality business partner
- Diversity of plant
- Modern pollution controls
- In Michigan
  - Important to rural areas of U.P.
- Improves electric reliability

Good fit for mission and power supply strategy.





#### Three Keys to Moving Forward

- Due diligence with We Energies
- Environmental design
- Complete negotiations







#### **Possible Timeline**

2012 2013 2014-2015 January 2016

Decision Approvals phase Construction Operation







## Thank you.





