



S&P 500	2,171	+25	+1.09%
GlobalDow	1,104	+13	+1.15%
Gold	1,165	+30	+1.53%
Oil	77.56	+18	+1.56%
		0.09	0.12%



POWER SUPPLY | GENERATION | FINANCIAL | MEMBER SERVICES | RISK MANAGEMENT | SUSTAINABILITY

# AMP Transmission Presentation to TOA-AC September 20, 2018



# Agenda

- Overview of AMP
- NERC BES Rules and the Impact on Certain AMP Members
- Overview of AMP Transmission

# Company Overview

Non-profit wholesale power supplier and services provider for 135 member municipal members are units of local government

## Established 1971

- 177 Employees
- HQ: Columbus OH

## Members located in 9 states

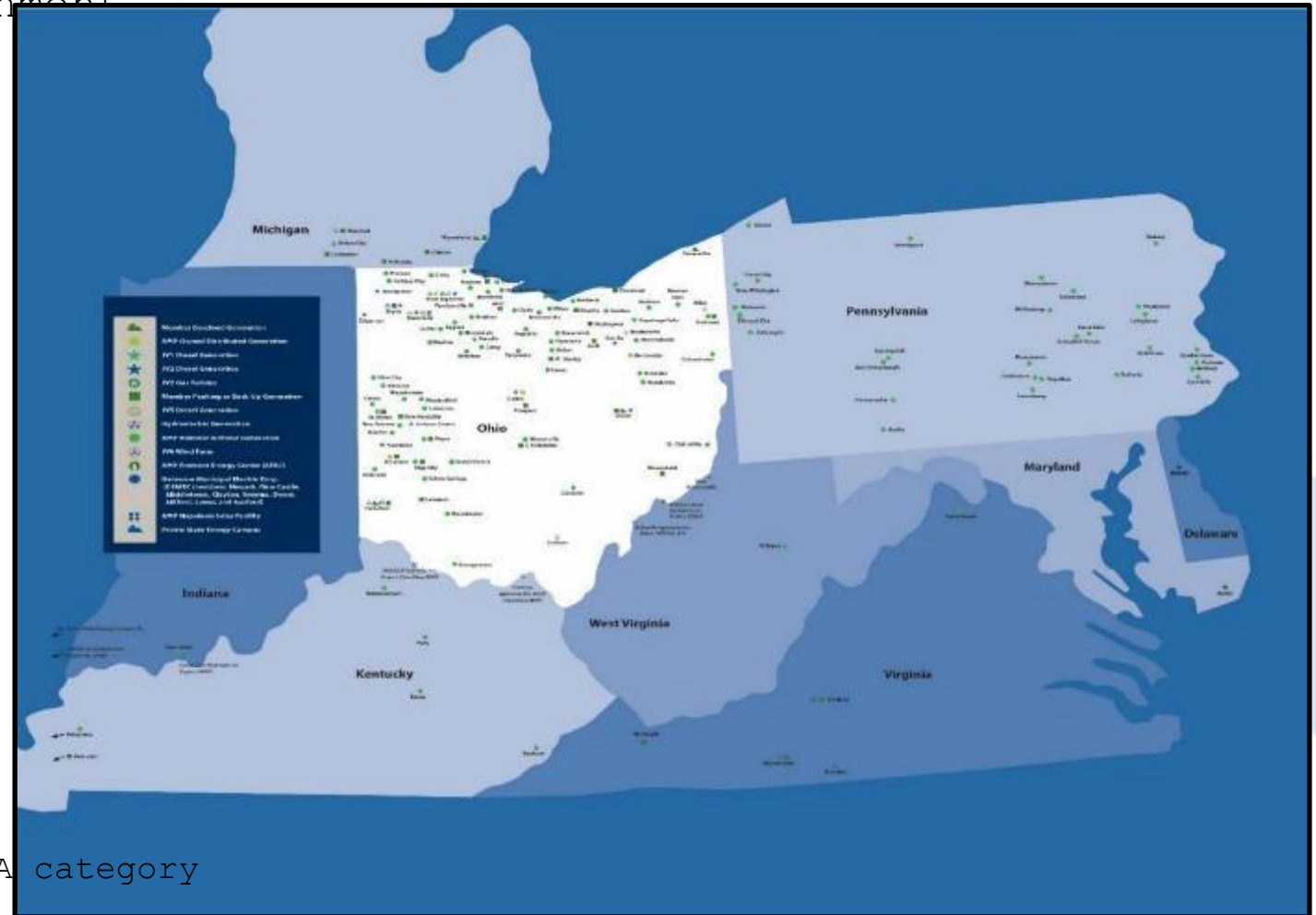
- OH, KY, PA, MI, VA, MI, DE, WV, IN
- Serving 650,000 customers
- Operate in 2 RTOs & non-market areas

## 21-member Board of Trustees

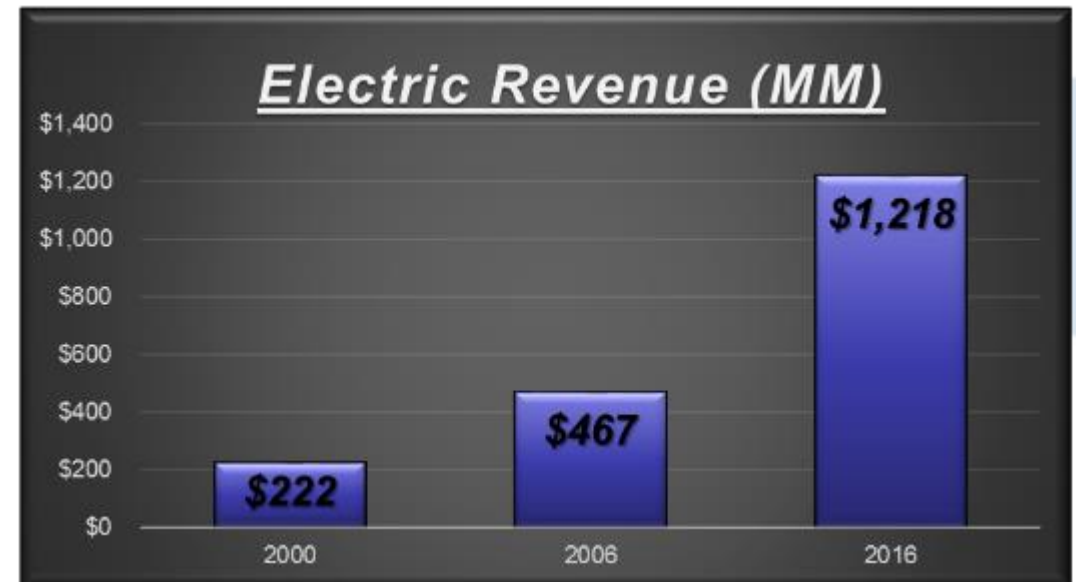
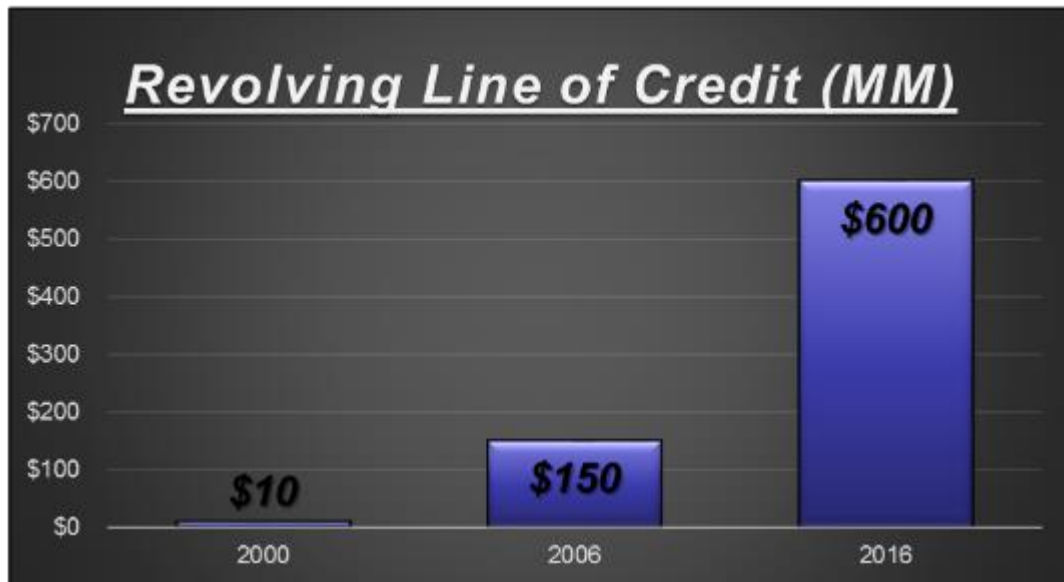
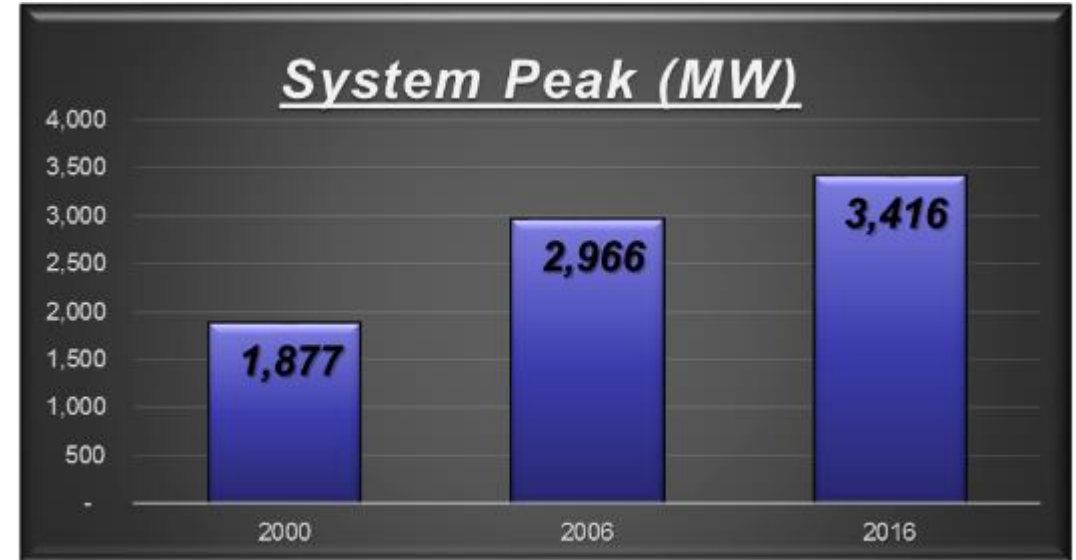
- Comprised of member system officials

## Assets Totaling \$6.2 billion

- Mixed Generation Technologies
- Diverse Energy portfolio
- 3400 MW peak load
- All project financings rated in the A category



# AMP's Steady Growth (2000 – 2016)



# Vision, Mission Values

## Vision

To be public power's leader in wholesale energy supply and value-added Member services.

## Mission

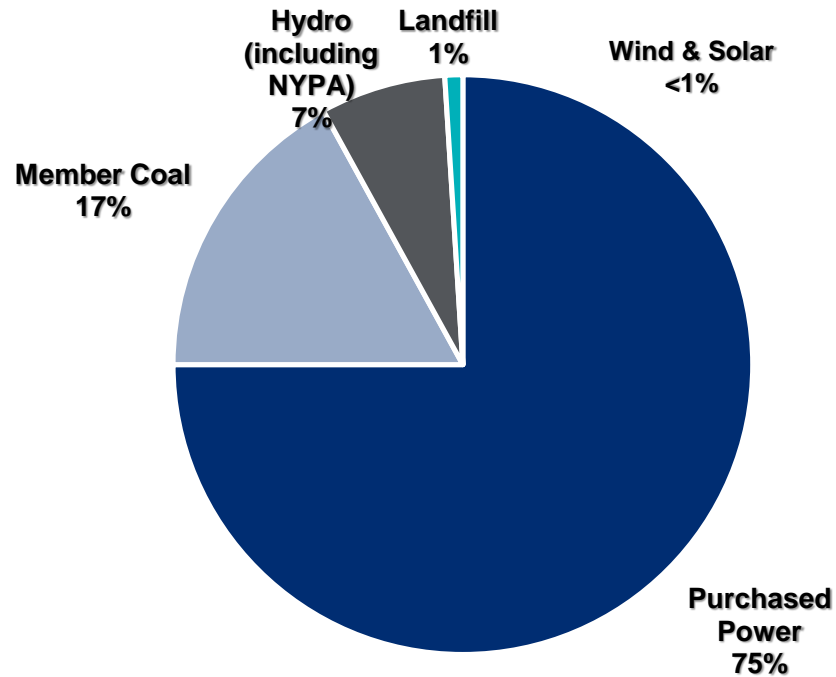
To provide Members with the benefits of scale and expertise in providing and managing energy services.

## Values

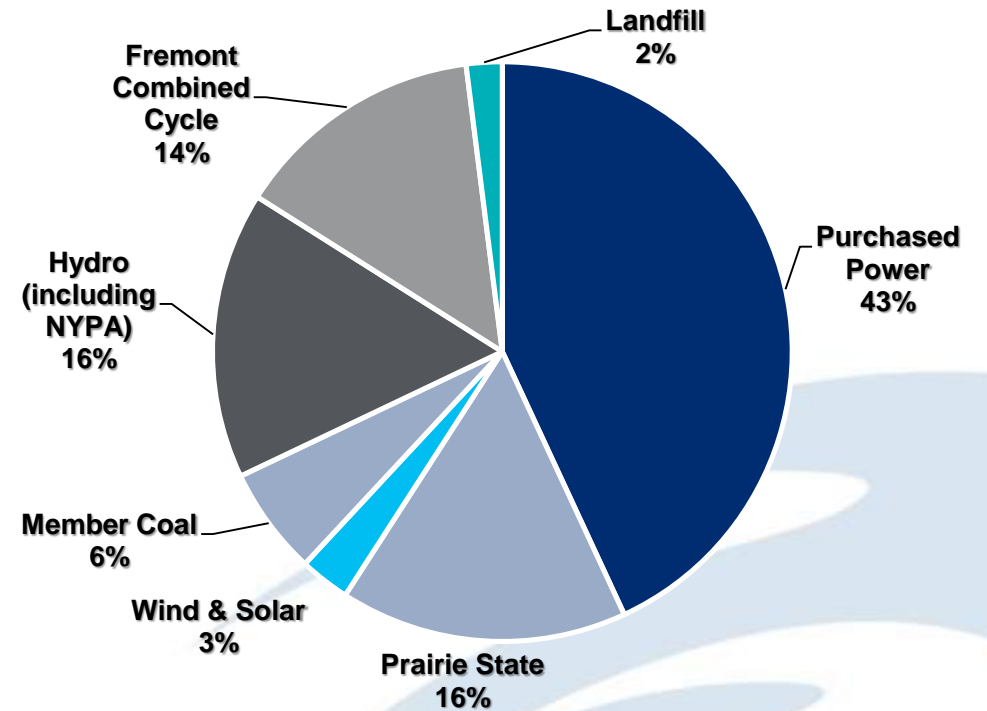
- *Cooperation: Work together to achieve common goals.*
- *Integrity: Be honest, fair, reliable and ethical.*
- *Innovation: Develop new and creative approaches that increase value to our members.*
- *Action Oriented: Anticipate, adapt and act.*
- *Effective Communication: Foster open, honest, timely and responsible two-way communications; listen actively and show respect for others.*
- *Member Focus: To continually improve timely, dedicated and professional support to our members and their customers*

# AMP Member's Transitioning Energy Portfolio

## 2007 AMP Member Energy Resource Mix



## 2018 AMP Member Projected Energy Resource Mix (16,900,000 MWh)



- Member coal includes Paducah and Princeton's Prairie State through KMPA
- Wind & Solar includes Member Owned Solar
- Hydro includes Member Owned Hydro

# AMP Generation Projects

## AMP Fremont Energy Center (AFEC)

- Natural Gas Combined Cycle (NGCC)
- 675 MW (Increasing to 702 MW),
- Located in Fremont, Ohio
- 86 Participants, including DEMEC



## Prairie State Energy Campus

- Advanced coal, mine-mouth facility
- Located in Southern Illinois near Lively Grove
- 1,600 MW; AMP owns 368 MW share
- 68 Participants



# AMP Hydro Generation Projects

- **Belleville Hydroelectric Plant (OMEGA JV5)**

- 42 MW, located in Belleville, West Virginia
- On-line 1999
- 42 Participants



- **AMP Hydroelectric Phase I**

- 3 Run-of-the-River projects at existing dams on the Ohio River, totaling 208 MW
- On-line 2016-2017
- 79 Participants

- **Meldahl/Greenup Hydroelectric**

- Meldahl - on-line April 2016 (105 MW)
- Greenup - purchase 48.6% share May 2016 (70 MW)
- 48 Participants





# NERC BES Obligation

- 7/1/14 implementation of new definition of the Bulk Electric System
  - Elements operated at **100** kV or higher
  - Could not meet Radial Systems Exclusion
  - Could not meet Local Networks Exclusion
- 138 kV ring busses
- Reliability First has determined facilities are BES
- PJM is the registered TOP for all NERC registered transmission facilities in the PJM Region
  - For PJM to perform TOP functions, entity must sign Consolidated Transmission Owners Agreement (CTOA) and perform PJM's TOP obligations delegated to TOs under the PJM TO/TOP Matrix

# AMP Transmission

- Small municipalities would be challenged to meet the NERC TO obligations as well as obligations delegated under the PJM TO/TOP Matrix
- Local control is important to AMP's Members
- AMP's affected Members asked AMP for help
- After careful consideration, AMP's Board authorized AMP to create AMP Transmission, LLC

# AMP Transmission

- Wholly owned subsidiary of AMP
- Not-for-profit, single member, limited liability company organized in the State of Ohio
- Cost of service, non-jurisdictional utility whose rates will be regulated by the Federal Energy Regulatory Commission (FERC)

# AMP Transmission

- GridForce to provide PJM compliance for PJM Transmission Operator functions delegated to PJM TOs under the PJM TO/TOP Matrix
  - Waiver of FERC Code of Conduct received 6/26/18
- AMPT will contract with AMP for staffing services
- Executed Transition Agreement with PJM 9/13/18
- Expect to file Formula Rate 11/1/18; 1/1/19 effective date
- “Go Live” 12/14/18
- ATSI Zone
  - City of Napoleon, Ohio