

# **ENERGY STAR® WORKSHOP**

---

Riffe Center

Columbus, Ohio

April 26, 2007

# AMP-Ohio – An Introduction

---

- ❑ American Municipal Power–Ohio (AMP-Ohio) is a non-profit corporation organized in 1971 which is composed of 120 members in 5 states.
  - ❑ AMP-Ohio owns/operates electric generating facilities; provides wholesale generation, transmission and distribution services; and, coordinates, negotiates, and develops power supply options and interconnection agreements.
-

# AMP-Ohio's 2006 Generation Profile

---

- Generation mix of primarily coal (66%) and renewables (34%) which provides approximately 10+% of peak load
  - Membership represents approximately 516,000 customers across 5 states
  - Peak load of 3500MW
-

# Reality Check

---

- ❑ 2001 Strategic Plan identified need for new additional baseload capacity
  - ❑ Self-build judged best option
  - ❑ October 2005 announcement of Meigs County as the preferred site for new 1000MW coal-fired baseload generating plant
  - ❑ Growing legislative and regulatory initiatives to address greenhouse gases (GHGs)
-

# How do we plan to meet these challenges?

---

- ❑ Balanced generation portfolio management – both fossil fuel and renewables
  - ❑ Enhanced effort to control demand through load management and efficiency programs
  - ❑ Member involvement at all levels
  - ❑ Public policy engagement
-

# AMP-Ohio's Renewable Portfolio

---

- Existing generation of:
    - 42MW hydro @ Belleville, WV;
    - 34MW landfill gas @ various locations;
    - 7.2MW wind @ Bowling Green
-

# Additional Renewables Under Consideration

---

- Hydro – 3 new installations at existing dams on the Ohio River

Willow Island – 35MW

Smithland – 72MW

Cannelton – 84MW

---

# Additional Renewables Under Consideration

---

- Wind – monitoring studies completed/underway

Bowling Green

Bryan

Cleveland

Cuyahoga Falls

Oberlin

Wapakoneta

---

# Additional Renewables Under Consideration

---

- Landfill gas – several potential sites
  
  - Solar – suitable for small demonstration projects
-

# Controlling demand

---

- Load management program – 3 members currently participating.  
*Reviewing options for new technology and services; marketing the plan*
  - Promoting efficiency to key industrial accounts; the availability of energy audits; and, conducting outreach to members (e.g., the “Spring Bulbs” campaign)
-

# Energy Efficiency as a CO2 Defense

---

- ❑ Future CO2 emissions controls make investments in energy efficiency more attractive **NOW!**
  - ❑ Can be supply- or demand-side improvements
  - ❑ Potential to earn “credit” as CO2 offsets
  - ❑ Potentially less expensive than other CO2 compliance options (e.g., CO2 tax or “cap & trade” regime)
-

# Some Municipal System “Supply” Options Under Consideration

---

- Boiler optimization
  - Reconductoring and other distribution upgrades
  - Transformer replacements
  - LED traffic lights
  - Streetlight upgrades
  - Reduction in fleet gasoline use
  - Consider cogeneration options for wastewater treatment plants
-

# Customer “Demand” Options

---

- Energy audits
  - Compact fluorescents
  - ENERGY STAR®** appliances
  - Weatherstripping/insulation
  - Energy efficient windows and doors
-

# Member Involvement

---

- ❑ AMP-Ohio Board adopted “Environmental Stewardship Principles” in October 2005
  - ❑ “Nature’s Energy” green-pricing program
  - ❑ “Plug-In Partners” campaign
-

# Public Policy Engagement

---

- ❑ *"You can't affect the outcome if you don't know what's going on"*
  - ❑ Tracking legislative and regulatory developments
  - ❑ Maintaining contact with elected officials and staff
  - ❑ Initiating stakeholder and community outreach activities
-



