



SUSTAINABILITY PERFORMANCE

At A Glance Through Third Quarter 2015

AMERICAN MUNICIPAL POWER, INC.

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AMP strives to provide timely sustainability updates to its members and other key stakeholders. Moving forward, it will be our goal to provide a brief "At a Glance" report each quarter to measure and compare sustainability progress over time while also noting highlights and accomplishments. In addition to the quarterly reports, AMP will be issuing a 2015 Sustainability Report in 2016.

If you have any questions or would like additional information, please contact David Deal, director of energy policy and sustainability, at 614.540.0840 or ddeal@amppartners.org.

AMP HEADQUARTERS ENERGY AUDIT

In July, AMP issued a request for proposals to four qualified engineering firms to conduct a major building system Equipment Evaluation and Building Energy Audit. An engineering team has since been hired and the initial building kickoff meeting was held in the middle of September. This is a timely initiative as many of the building systems are original (i.e. approximately 20 years old) and may be reaching the end of their useful life. The Equipment Evaluation and Energy Audit will allow AMP to better plan for future capital spending needs and identify opportunities to improve headquarters energy performance.

AMP's current energy performance at 1111 Schrock Road is better than the national average, but there is room for improvement. AMP uses 73 kBtu/per square foot annually, compared to the national average of 81 kBtu/per square foot annually. Achieving an Energy Star rating of 75 or greater requires a reduction in energy consumption of an additional 13 kBtu/per square foot and could save AMP \$20,000 annually. Energy Star is a leading national building standard used across the country. Staff plans to have final recommendations to AMP management by the end of 2015.

NEW UTILITY MODEL RESEARCH LIBRARY

Increased demand for distributed generation resources, two-way distribution of energy and information, and a fair allocation of costs and ratemaking structures are some of the issues utilities and stakeholders are dealing with in numerous jurisdictions in unique and different ways. In response to these rapidly evolving models in public power, AMP is developing a directory of resources for members beginning to address concerns associated with the New Utility (i.e. Grid 2.0) paradigms.

AMP HYDRO UPDATE

Moody's Investors Service (Moody's) has reaffirmed the A3 rating with a stable outlook on the American Municipal Power, Inc. (AMP) Combined Hydroelectric Project Revenue Bonds. In doing so, Moody's cited the participant's credit ratings, long-term economics and non-carbon value of the hydroelectricity as factors. The Combined Hydroelectric project will represent, on average, about 12 percent of participants' power supply mix when completed. The project is part of AMP's power resource diversity strategy to balance the exposure of project participants to regional wholesale energy markets and fuel risk.

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ENVIRONMENT emissions in short tons

Jan. 1, 2015 – Oct. 31, 2015

CO2 emissions: 2,236,245

SO2 emissions: 987

NOx emissions: 524

PM emissions: 19.3

CO emissions: 278

VOC emissions: 9

**AMP HQ Recycled Glass, Plastic & Metals
(in lbs): 1,040**

**AMP HQ Recycled paper and cardboard
(in lbs): 14,700**

ENERGY EFFICIENCY & REC SALES

Jan. 1, 2015 – Oct. 31, 2015

Efficiency Smart - cumulative generation REC Sales (savings through 10/30/15): 34,081

Percent of 2014-2016 Target: 73%

EcoSmart Choice REC Sales: 10,000

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On a related note, Renewable Energy Generating Facility applications are being submitted to the Public Utility Commission of Ohio (PUCO), which will allow the Cannelton, Willow Island and Meldahl facilities to sell Renewable Energy Credits (RECs) on the PJM renewable energy market. AMP is also working to register and sell RECs in other PJM and Midcontinent Independent System Operator (MISO) states.

SOLAR PHASE II PROGRESS CONTINUES

In May 2015, AMP launched the subscription effort for the Solar Phase II Project. This project seeks to install up to 60 MW of behind-the-meter solar photovoltaic (PV) installations in participating AMP member communities. The Board of Trustees extended the subscription deadline to Jan. 20, 2016, while staff continues to work with project development partners and refine the financial analysis. These due diligence efforts will allow for the use of the federal investment tax credits and further lower project costs.

AMP ADVANCED METERING & HOSTED SOLUTIONS PROGRESS

Eleven of AMP's members are collaborating on an Automated Metering Infrastructure project (hosted by AMP) that will enable the participants to benefit from cost savings due to the bulk purchase of field components; both smart meters and wireless networks. The AMP IT Department will acquire and deploy the remaining tech-

nology required to support the smart meter infrastructure of the participants, support billing system integrations, web portals for both operational and customer access, data analytics, and provide the advanced cyber security required for this technology. The deployment of the Advanced Metering project is expected to benefit members interested in upgrading their metering systems in the future; as AMP will have an ability to share best practices, and discuss lessons learned as a result of the Advanced Metering program.

If AMP members are interested in learning how they can participate in this program moving forward, please contact Jared Price, assistant vice president of information technology and chief technology officer, at jprice@amppartners.org or Branndon Kelley, chief information officer, at bkelly@amppartners.org.

AMP INSTALLS DIESEL OXIDIZING CATALYSTS TO IMPROVE ENGINE PERFORMANCE

Diesel oxidation catalysts were installed to meet the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Engines (RICE) requirements, specifically limiting carbon monoxide emissions to 23 ppmvd at 15 percent O₂. Reductions of particulate matter (PM) and precursors of PM_{2.5} such as volatile organic compounds (VOCs) represent co-benefits of the DOC installations. Financial payback for the installations was estimated at 18 months and AMP units were permitted for up to 300 hours of operation, per rolling 12-month period.

POWER GENERATION in net MWh

Jan. 1, 2015 – Oct. 31, 2015

AFEC: 2,845,361

AMP Wind Farm: 9,711

Belleville Hydro: 194,937

Distributed Generation: 12,376

Landfill Gas: 247,763

Napoleon Solar: 4,746

Prairie State Energy Campus (delivered to participants): 2,430,329

HEALTH & SAFETY

Jan. 1, 2015 – Oct. 31, 2015

Employee Work Related Fatalities:

0

Reportable Incidents or Accidents:

0

Lost Work Day Incidents:

0

COMMUNITY

Jan. 1, 2015 – Oct. 31, 2015

AMP Employee Charitable Giving: \$9,587

