



SUSTAINABILITY PERFORMANCE

At A Glance Fourth Quarter 2020

Oct. 1, 2020 — Dec. 31, 2020

AMERICAN MUNICIPAL POWER, INC.

1111 Schrock Road, Suite 100 • Columbus, Ohio 43229

614.540.1111 • FAX 614.540.1113 • www.amppartners.org



Included below is American Municipal Power, Inc.'s (AMP) 2020 fourth quarter (Q4) "At a Glance" sustainability report. The quarterly update is intended to measure and compare the progress of sustainability metrics while also highlighting accomplishments. If you have questions or would like additional information, please contact Erin Miller, assistant vice president of energy policy and sustainability, at 614.540.1111 or emiller@amppartners.org.



AMP MEMBER COMMUNITIES NAMED SMART ENERGY PROVIDERS

The cities of Wadsworth and Coldwater received the Smart Energy Provider (SEP) designation by the American Public Power Association (APPA) during the Association's annual Customer Connections Conference. There are only 94 communities nationwide that hold the designation.



SEP designation is given to utilities that demonstrate commitment to and proficiency in energy efficiency, distributed generation and environmental initiatives that support a goal of providing low-cost, quality, safe and reliable electric service. It recognizes public power utilities for demonstrating leading practices in four key disciplines: smart energy program structure, energy efficiency and distributed energy programs, environmental and sustainability initiatives, and the customer experience. The designation for Wadsworth and Coldwater is valid for two years, from Dec. 1, 2020 to Nov. 30, 2022.

Wadsworth is located in northeast Ohio, just outside of Akron. Founded in 1814, the city was named for General Elijah Wadsworth, a war hero and Ohio pioneer that owned a large portion of the land making up the city and surrounding county. The city's municipal electric utility has served the community since it was founded in 1916.

Coldwater is located in south-central Michigan near the borders of Indiana and Ohio. Originally incorporated as a village in 1837, the city quickly outgrew the surrounding communities, eventually becoming the Branch County seat. The city's municipal electric utility has served the community since it was founded in 1891.

This is the second year the designation has been awarded. The AMP member communities of Westerville and Bowling Green also hold this designation. Learn more about the program and see a full list of designated communities [here](#).

EFFICIENCY SMART

Efficiency Smart celebrated the fifth annual national Energy Efficiency Day, Oct. 7 by offering energy efficiency tips to save energy and money at home.



The fourth Efficiency Smart contract reported a savings of 3,271 MWh (net) at the end of the fourth quarter. There are currently 24 communities participating in the program. For more information, visit www.energysmart.org.

FOCUS FORWARD

The Focus Forward Advisory Council (FFAC) held a webinar, Electric Vehicle (EV) Rate Design and Managing Demand, on Nov. 12. Natalia Mathura, principal of utility business models for the Smart Electric Power Alliance (SEPA), shared information about the electric vehicle (EV) market and trends, best practices for developing an EV strategic plan, impacts of residential charging and insights on developing EV time-based rates for residential customers.



In addition, staff reviewed a discounted offer from SEPA's consulting arm for members to participate in a two-day workshop to develop a community transportation electrification strategic plan and FFAC members reviewed several vendor options for online EV customer education platforms. A sub-group was formed to participate in deeper demonstrations of the platforms and plans to make their recommendation to the FFAC in early 2021.

Participants also discussed the rising interest in distributed rooftop solar + batteries. In response, AMP, with assistance from the FFAC, created educational materials for members to share with their residential customers.

Throughout the quarter, AMP shared SEPA and American Public Power Association (APPA) related content in its weekly e-newsletter; assisted six members with EV related inquiries; promoted the APPA Smart Energy Provider Program; and helped five members establish distributed energy resource policies in response to growing interest in roof-top solar.

ECOSMART CHOICE

Ten member communities purchased 27,608 megawatt hours (MWh) of renewable energy in the fourth quarter through AMP's EcoSmart Choice Program.



EcoSmart Choice® is a voluntary green-pricing program available at no-cost to AMP member public power utilities. Members enrolled in EcoSmart Choice® make the program available to their customers for a premium charge on their electric bill to cover the incremental cost of renewable energy. Participating customers may choose to offset 25 percent, 50 percent, 75 percent or 100 percent of their electricity usage.

LEGISLATIVE AND REGULATORY UPDATES

The Federal Energy Regulatory Commission (FERC) issued an order on Oct. 15, affirming FERC's approach to PJM capacity market reforms. The order rejects requests that FERC reconsider application of the minimum offer price rule (MOPR) to self-supply entities, such as municipal electric utilities and their suppliers, including AMP.



On Aug. 14, the United States Environmental Protection Agency (U.S. EPA) issued a proposed rule to maintain the current ozone national ambient air quality standard (NAAQS). The proposed rule was the culmination of an in-depth evaluation of current relevant scientific information, and concluded that the current standard remains protective of human health and the environment. On Sept. 30, AMP provided comments supporting this proposal. U.S. EPA is providing regulatory certainty by maintaining the ozone NAAQS at the current level. To see AMP's comments, click [here](#).

AMP RENEWABLE ENERGY PRODUCTION, ENERGY EFFICIENCY: EMISSIONS AVOIDANCE

	Q4 2020 MWh	CO2 emissions avoided (Tons)*	SO2 emissions avoided (Tons)*	NOx emissions avoided (Tons)*	Total emissions avoided (Tons)
Belleville Hydro (JV5)	50,061	21,301	13.77	11.26	21,326
Greenup Hydro **	86,513	36,811	23.79	19.47	36,855
Meldahl Hydro	160,923	68,473	44.25	36.21	68,553
Cannelton Hydro	147,853	62,911	40.66	33.27	62,985
Willow Island Hydro	55,766	23,728	15.34	12.55	23,756
Smithland Hydro	137,910	58,681	37.93	31.03	58,750
AMP Wind Farm (JV6)	2,402	1022	0.66	0.54	1,023
Napoleon Solar	824	351	0.23	0.19	351
Landfill Gas ***	99,306	649,314	27.31	22.34	649,364
Blue Creek Wind	42,650	18,148	11.73	9.60	18,169
EcoSmart Choice	27,608	11,747	7.59	6.21	11,761
Efficiency Smart	3,271	1,392	0.90	0.74	1,393
Solar Phase II	15,187	6,462	4.18	3.42	6,470
Carbon Offset**** Reforestation Projects	467 acres	122			122
					960,878

*<https://www.pjm.com/-/media/library/reports-notice/special-reports/2019/2019-emissions-report.ashx?la=en>

** AMP's share of the Greenup Hydro facility is 48.6 percent.

*** Includes direct emissions reduced from methane (CO2e) and avoided emissions from CO2. <https://www.epa.gov/lmop/landfill-gas-energy-benefits-calculator>

**** U.S. EPA estimates 1.043 tons of CO2 is sequestered annually by one acre of average U.S. forest.

GREEN BOND FINANCED PROJECTS – Q4 2020 REPORT

	Meldahl	Combined Hydro (Cannelton, Willow Island, Smithland)	Solar Phase II
Net Renewable Capacity (MW)	108.8	208	58.3
Net Renewable Generation (MWh)	160,923	341,529	15,187
Capacity Factor (%)	67%	74%	N/R
Emissions Avoidance			
CO2 (GHG) emissions avoided (Tons)	68,473	145,321	6462
SO2 emissions avoided (Tons)	44.25	93.92	4.18
NOx emissions avoided (Tons)	37.01	78.55	N/R

2019 PJM Market Power Emissions Rate ^[1]	
CO2 (GHG) emissions Factor (lbs/MWh)	851
SO2 emissions Factor (lbs/MWh)	0.55
NOx emissions Factor (lbs/MWh)	0.45

2019 PJM Market Power Fuel Breakdown ^[2]	
Nuclear	33.60%
Natural Gas	36.20%
Coal	23.80%
Wind and Solar	3.20%
Hydroelectric	2.00%
Other	1.20%
Total	100.00%

^[1] [PJM 2015-2019 CO2, SO2 and NOx Emissions Rates Report April 9, 2020](#)

^[2] [PJM State of the Market Report, 2019 Table 3-50](#)

N/R - not required for reporting

POWER GENERATION

in net MWh

Oct. 1, 2020 — Dec. 31, 2020

AMP Wind Farm (JV6): 2,402

AMP Fremont Energy Center (AFEC):* 620,598

Belleville Hydro (JV5): 50,061

Greenup Hydro:* 86,513

Meldahl Hydro: 160,923

Cannelton Hydro: 147,853

Willow Island Hydro: 55,766

Smithland Hydro: 137,910

Prairie State Energy Campus (PSEC):** 645,833

Distributed Generation: 61

Landfill Gas: 99,306

Blue Creek Wind:** 42,650

Napoleon Solar: 824

Solar Phase II: 15,187

* Total plant

** AMP's share

HEALTH AND SAFETY

Oct. 1, 2020 — Dec. 31, 2020

Employee Work Related Fatalities:

0

Recordable Incidents or Accidents:

0

Lost Work Day Incidents:

0

COMMUNITY

Oct. 1, 2020 — Dec. 31, 2020

AMP Employee Charitable Giving: \$5,497.50

ENVIRONMENT

emissions in short tons (AFEC, AMP share of Prairie State*, gas and diesel turbines)

Oct. 1, 2020 — Dec. 31, 2020

CO2: 998,173

SO2: 549.3

NOx: 246.1

PM: 31.2

CO: 31.1

Hg (in lbs): 3.3

VOC: 6.5

*Prairie State data not yet certified

HAZARDOUS, UNIVERSAL, OTHER WASTE

Oct. 1, 2020 — Dec. 31, 2020

33,689 lbs.

TRASH PULLED FROM THE OHIO RIVER

Oct. 1, 2020 — Dec. 31, 2020

16,000 lbs.

ENERGY EFFICIENCY AND ECOSMART CHOICE REC SALES

Oct. 1, 2020 — Dec. 31, 2020

Efficiency Smart Cumulative Savings

2014 — 2020: 125,804 MWh **2020 Q4:** 3,271 MWh

EcoSmart Choice REC Sales: 27,608 MWh

RECYCLING AND REUSE

Oct. 1, 2020 — Dec. 31, 2020

Recycled glass, plastic, metals, paper and cardboard

4,247 lbs.