

SUSTAINABILITY PERFORMANCE

At A Glance Second Quarter 2021

April 1, 2021 — June 30, 2021

AMERICAN MUNICIPAL POWER, INC.

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Included below is American Municipal Power, Inc.'s (AMP) 2021 second quarter (Q2) "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 HOLDS VIRTUAL TECHNICAL SERVICES CONFERENCE

Held April 13-14, this event provided an opportunity to increase technical understanding and capabilities, learn about products, strengthen relationships with other members and exchange ideas with peers. Topics included:

- customer installed solar;
- cybersecurity;
- drones;
- battery storage;
- safety;
- pole options; and
- energy education resources.

EFFICIENCY SMART®

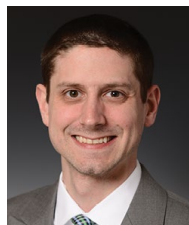


The fourth Efficiency Smart® contract reported a savings of 13,817 MWh (net) at the end of the second quarter. There are currently 25 communities participating in the program. Four DEMEC member communities (Clayton, Milford, New Castle and Seaford) renewed their participation in Efficiency Smart for an additional three years.

For more information on this program, visit www.energysmart.org.

KYLE SCHIMLEY NAMED 2021 AMP DNA AWARD WINNER

Kyle Schimley, PE, was recognized as the AMP 2021 DNA Award recipient. Schimley is the director of generation optimization and reporting and he has been with AMP since 2009.



The annual award — sponsored by AMP's President and CEO — recognizes an employee who advances AMP's vision, mission and values.

AMP HOSTS MEMBERS-ONLY COVID-19 ROUNDTABLE CALL

AMP hosted a members-only COVID-19 Roundtable Call in April featuring Dr. Ted Kury, director of energy studies for the Public Utility Research Center (PURC) at the University of Florida. Dr. Kury presented on cost-recovery mechanisms for public power utilities as a result of the COVID-19 pandemic and provided an update on utility shutoff moratoriums in AMP member states, utility debt amounts and the American Rescue Plan.

ECOSMART CHOICE®

In April, 10 AMP member communities received Sustainability Grants totaling \$121,559 for their participation in the EcoSmart Choice® Program last year.

Awarded communities are:

- Bowling Green
- Coldwater
- Columbus
- Cuyahoga Falls
- Ephrata
- Hudson
- Jackson Center
- Lebanon
- Napoleon
- Westerville



These 10 member communities purchased 32,949 megawatt hours (MWh) of renewable energy in the second quarter through AMP's EcoSmart Choice® Program. Additionally, Painesville joined the program, bringing the total participating communities to 11.

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.

Learn more at www.ecosmartchoice.org.



LEGISLATIVE AND REGULATORY UPDATES

AMP filed comments with the Federal Energy Regulatory Commission (FERC) following FERC's technical conference addressing the role of capacity constructs in regional transmission organizations. AMP's comments focused on ensuring that PJM's administrative capacity construct — known as the Reliability Pricing Model — is modified to remove barriers to public power efforts to construct or acquire new electric generating facilities. Comments can be found [here](#).

AMP also filed comments jointly with Old Dominion Electric Cooperative protesting a PJM proposal for compensation to be paid to black start units. These generators perform an important reliability role by investing in equipment that will allow them to restart

the grid in the event of a total system outage. However, PJM failed to adjust the black start rate to account for the reduction in the marginal federal corporate income tax rate that went into effect on Jan. 1, 2018. AMP argued that PJM's latest black start rate proposal would unfairly retain a windfall rate for existing black start units, while appropriately reducing the rate to be paid to new units. All units should be paid the same rate based on current tax rules to avoid customers overpaying for black start service. AMP's protest of PJM's filing is linked [here](#).

AMP and the Ohio Municipal Electric Association were also actively engaged in the Ohio budgeting process and opposed an anti-municipal broadband amendment successfully removing it from the state budget bill.

FOCUS FORWARD

The Focus Forward Advisory Council (FFAC) hosted a webinar on May 13 to help members learn how automobile manufacturers, like Ford Motor Company, are working to accelerate the adoption of electric vehicles (EVs) and develop, in partnership with local utilities, programs to enroll EV drivers and provide dispatchable charging schedules to EVs.

David McCreddie, manager of EV data and energy services from Ford Motor Company, provided information about Ford's announced EVs, the Ford Connected Charge Station, FordPass Charging Network and the Open Vehicle-Grid Integration Platform that Ford, GM, BMW, Honda, Nissan and others are using to help utilities and drivers efficiently manage EV charging schedules.

Chris Monacelli, electric utility manager for the City of Westerville and chair of the Focus Forward Committee, presented an overview of the city's new residential EV incentive/managed charging program, PowerUp.

Participants also received an update on AMP's APPA DEED grant project, Grid-Connected Heat Pump Water Heater Guidebook and Calculator, from Emily Lewis O'Brien, project manager, for VEIC.

In addition, the AMP FFAC updated the *Consumer's Guide to Rooftop Solar* with additional information on various options for financing rooftop solar, and AMP staff provided assistance to members on sustainability reporting and trends.



AMP SCHOLARSHIP WINNERS ANNOUNCED

AMP provided nine students with \$3,000 scholarships each (four Lyle B. Wright and five Richard H. Gorsuch).

Lyle B. Wright Scholarship	Richard H. Gorsuch Scholarship
Gavin Carr, Cuyahoga Falls Lyndsi Engels, Montpelier Lauren Menke, Versailles Joshua Tuite, Schuylkill Haven	Dylan Aron, Danville Matthew Belcher, Marietta (AMP) Jillian Drinnon, Bryan Diana Johnson, Tipp City Kyra Oldiges, Minster

“Congratulations to these students on their outstanding achievements,” said Jolene Thompson, AMP President and CEO. “While we are helping support this impressive group of seniors in their educational endeavors, we are also honoring the memory of two great public power leaders and raising awareness of the benefits of public power.”



Sam Wolfe presents Kyra Oldiges with her scholarship



Sam Wolfe presents Joshua Tuite with his scholarship



Harry Phillips presents Jillian Drinnon with her scholarship

Lyle B. Wright was a strong public power advocate who served on the AMP Board of Trustees from 1979 until his death in 1986. The \$3,000 Wright scholarships are awarded to graduating seniors whose households receive electricity from an AMP member utility. This year, 23 students were nominated for the Wright Scholarship; the recipients were selected based on their scholastic record, personal achievements and test scores. Four graduating seniors are receiving the 2021 Wright Scholarship.

Richard H. Gorsuch, who was dedicated to promoting the advantages of municipally owned electric systems, was the organization’s president from 1983 until his death in 1987. The \$3,000 scholarships in this program are awarded to graduating seniors whose parent or guardian is an employee of either a municipal electric system or AMP, or who is an elected official with responsibility for the electric system. This year, 15 students were nominated for this award; the recipients were selected based on their scholastic record, personal achievements and test scores. Five graduating seniors are receiving the 2021 Gorsuch Scholarship.

Since 1988, more than \$400,000 has been awarded to deserving high school seniors through the AMP scholarship programs.

For more information about these awards, [click here](#).

AMP RENEWABLE ENERGY PRODUCTION, ENERGY EFFICIENCY: EMISSIONS AVOIDANCE

	Q2 2021 MWh	CO2 emissions avoided (Tons)*	SO2 emissions avoided (Tons)*	NOx emissions avoided (Tons)*	Total emissions avoided (Tons)
Belleville Hydro (JV5)	81,147	32,094	17.45	14.61	32,126
Greenup Hydro **	89,520	35,405	19.25	16.11	35,441
Meldahl Hydro	164,122	64,910	35.29	29.54	64,975
Cannelton Hydro	143,986	56,946	30.96	25.92	57,003
Willow Island Hydro	64,967	25,694	13.97	11.69	25,720
Smithland Hydro	114,321	45,214	24.58	20.58	45,259
AMP Wind Farm (JV6)	1,291	511	0.28	0.23	511
Napoleon Solar	1,559	617	0.34	0.28	617
Landfill Gas ***	93,757	610,219	20.16	16.88	610,256
Blue Creek Wind	28,926	11,440	6.22	5.21	11,452
EcoSmart Choice	32,949	13,031	7.08	5.93	13,044
Efficiency Smart	2,884	1,141	0.62	0.52	1,142
Solar Phase II	34,200	13,526	7.35	6.16	13,540
Carbon Offset**** Reforestation Projects	467 acres	122			122
					911,208

* <https://www.pjm.com/-/media/library/reports-notices/special-reports/2020/2020-emissions-report.ashx>

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

*** Includes direct emissions reduced from methane 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 – Q2 2021 REPORT

	Meldahl	Combined Hydro (Cannelton, Willow Island, Smithland)	Solar Phase II
Net Renewable Capacity (MW)	108.8	208	58.3
Net Renewable Generation (MWh)	164,122	323,274	34,200
Capacity Factor (%)	69%	71%	N/R
Emissions Avoidance			
CO2 (GHG) emissions avoided (Tons)	64,910	127,855	13,526
SO2 emissions avoided (Tons)	35.29	69.50	7.35
NOx emissions avoided (Tons)	29.54	58.19	N/R

2020 PJM Market Power Fuel Breakdown ^[2]	
Nuclear	34.20%
Natural Gas	39.60%
Coal	19.30%
Wind and Solar	3.80%
Hydroelectric	2.00%
Other	1.10%
Total	100.00%

2020 PJM Market Power Emissions Rate ^[1]	
CO2 (GHG) emissions Factor (lbs/MWh)	791
SO2 emissions Factor (lbs/MWh)	0.43
NOx emissions Factor (lbs/MWh)	0.36

^[1] [PJM 2016-2020 CO2, SO2 and NOx Emissions Rates Report April 9, 2021](#)

^[2] [PJM State of the Market Report, 2020 Table 3-58](#)

N/R - not required for reporting

POWER GENERATION

in net MWh

April 1, 2021 — June 30, 2021

AMP Wind Farm (JV6): 1,291

AMP Fremont Energy Center (AFEC):* 730,337

Belleville Hydro (JV5): 81,147

Greenup Hydro:* 89,520

Meldahl Hydro: 164,122

Cannelton Hydro: 143,986

Willow Island Hydro: 64,967

Smithland Hydro: 114,321

Prairie State Energy Campus (PSEC):** 762,605

Distributed Generation: 4,588

Landfill Gas: 93,757

Blue Creek Wind:** 28,926

Napoleon Solar: 1,559

Solar Phase II: 34,200

* Total plant

** AMP's share

HEALTH AND SAFETY

April 1, 2021 — June 30, 2021

Employee Work Related Fatalities:

0

Recordable Incidents or Accidents:

0

Lost Work Day Incidents:

0

COMMUNITY

April 1, 2021 — June 30, 2021

AMP Employee Charitable Giving: \$3,818.50

ENVIRONMENT

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

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CO₂: 1,136,360

SO₂: 665.4

NO_x: 304.0

PM: 28.0

CO: 36.1

Hg (in lbs): 4.3

VOC: 11.6

**Prairie State data not yet certified*

HAZARDOUS, UNIVERSAL, OTHER WASTE

April 1, 2021 — June 30, 2021

52,999 lbs.

TRASH PULLED FROM THE OHIO RIVER

April 1, 2021 — June 30, 2021

14,400 lbs.

ENERGY EFFICIENCY AND ECOSMART CHOICE REC SALES

April 1, 2021 — June 30, 2021

Efficiency Smart Cumulative Savings

2014 — 2020: 130,650 MWh **2021 Q2:** 2,884 MWh

EcoSmart Choice REC Sales: 32,949 MWh

RECYCLING AND REUSE

April 1, 2021 — June 30, 2021

Recycled glass, plastic, metals, paper and cardboard
16,640 lbs.