



# SUSTAINABILITY PERFORMANCE

## At A Glance First Quarter 2020

*Jan. 1, 2020 — March 31, 2020*

AMERICAN MUNICIPAL POWER, INC.

1111 Schrock Road, Suite 100 • Columbus, Ohio 43229

614.540.1111 • FAX 614.540.1113 • [www.amppartners.org](http://www.amppartners.org)



Included below is American Municipal Power, Inc.'s (AMP) 2020 first quarter (Q1) "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](mailto:emiller@amppartners.org).



## AMP COVID-19 RESOURCES

Based on feedback from the Board of Trustees, AMP is offering resources to assist its members during the COVID-19 crisis. Resources include:

- Member-only webpage to catalog sample policies, information from industry and state and federal governments, and other resources
- Email listserv for members to interact with each other, seek ideas and share concerns
- Member roundtable conference calls to provide members a forum to share information
- Daily updates following Ohio Gov. Mike DeWine's news conference

In addition, AMP supported efforts by the Large Public Power Council (LPPC) and American Public Power Association (APPA) to represent the interest of public power in congressional economic relief efforts.

## AMP MEMBER COMMUNITIES NAMED TO ICF SMART21 COMMUNITIES OF 2020, TOP 30 INTELLIGENT COMMUNITIES FOR SUSTAINABILITY



The cities of Hudson and Westerville were named Intelligent Community Forum's (ICF) Smart21 Communities and number five and number six, respectively, in ICF's list of the Top 30 Intelligent Communities for

Sustainability. Learn more about the ICF and their awards [here](#).

This is the second straight year that Hudson and Westerville have made the list.



*U.S. Senator Rob Portman meets with AMP's Ohio delegation at the 2020 APPA Legislative Rally*

## APPA LEGISLATIVE RALLY

Representatives from more than 23 American Municipal Power, Inc. (AMP) and Ohio Municipal Electric Association (OMEA) member communities participated in the 2020 American Public Power Association (APPA) Legislative Rally Feb. 24-26. The annual Rally is an opportunity for municipal electric system representatives to share firsthand insights with federal lawmakers and staff.

## AMP RELEASES 2019 YEAR IN REVIEW

From unparalleled training opportunities to a focus on sustainability. From advocating for public power at all levels of government to providing a diverse power supply portfolio to support member community goals and needs. The 2019 Year in Review highlights a few of the many services and programs AMP offers its members and their customers, while demonstrating our commitment to the promotion of the many benefits of public power. Please share this report with local leaders in your community.



Click [here](#) to view the 2019 AMP Year in Review.

## EFFICIENCY SMART

Efficiency Smart launched an online Home Energy Assessment Tool for residential electric customers of participating communities. This free, self-service tool helps guide residents towards energy efficiency improvements they can make in their homes.



St. Marys Square Business Complex, owned by the Grieshop family, was presented with the Ambassador of Energy Efficiency Award on Feb. 18. Janice Grieshop worked with Efficiency Smart to upgrade parking lot lights, exterior wall pack lights and interior lightbulbs to LEDs. The company is expected to save 105,100 kilowatt-hours (kWh) of energy annually, \$9,700 annually, and \$142,700 over the lifetime of the installed lights.



*Pictured from left to right: Greg Foxhoven, the City of St. Marys; Janice Grieshop, St. Marys Business Complex, LLC; and Mike Burkholder, the City of St. Marys.*

The fourth Efficiency Smart contract reported a savings of 2,156 MWh (net) at the end of the first quarter. There are currently 24 communities participating in the Efficiency Smart program.

Efficiency Smart provides several energy efficiency services to subscribing AMP member communities. For more information visit [www.energysmart.org](http://www.energysmart.org).

## FOCUS FORWARD

The Focus Forward Advisory Council and Electric Vehicle (EV) sub-group hosted a webinar, which featured Andy Krauss and Joe Green from the Borough of Lansdale, and Jason Grey from Danville Utilities with project partner, David Slutzky from Fermata Energy. The presenters shared their experiences with public EV charging stations in their communities. Their case studies along with the City of Shelby's were published in *Update*, AMP's weekly e-newsletter.



The Focus Forward Advisory Council hosted the *Communicating with Customers - Social Media and More* webinar on March 9, which focused on customer communication strategies. Presenters discussed their experiences, successes and strategies using social media as a tool to communicate with customers. Presenters for this webinar were Andrea Underwood, director of human resources and community relations, Paducah Power System; Jodi Shook, customer service director, Coldwater Board of Public Utilities; Robert Patrick, director of public service, City of Wadsworth and AMP Board Member; and Bruce Metz, village administrator, Village of Jackson Center.

## ECOSMART CHOICE

Ten member communities purchased 29,815 megawatt hours (MWh) of renewable energy in the first quarter through AMP's EcoSmart Choice program.



The EcoSmart Choice program is designed to offer a green pricing option for individuals and companies who are interested in purchasing up to 100 percent renewable energy through the purchase and retirement of renewable energy certificates.

## LEGISLATIVE AND REGULATORY UPDATES

### CLEAN Future Act framework released

On Jan. 8, the House Energy and Commerce Committee released a legislative framework for the forthcoming Climate Leadership and Environmental Action for Our Nation's (CLEAN) Future Act. The goal of CLEAN Future Act is to achieve economy-wide, net-zero greenhouse gas emissions by 2050, and includes several policy areas important to members, including clean energy standards and energy conservation.



### Proposed National Environmental Policy Act revisions

On Jan. 10, the Council on Environmental Quality (CEQ) released a proposal in the Federal Register to make significant changes to the rules implementing the National Environmental Policy Act (NEPA). CEQ indicated that the proposed changes would modernize and clarify the regulations to make compliance more efficient and timely. These new rules, if finalized, would affect existing and future AMP and member projects that require federal permits, like hydropower assets.

AMP submitted comments on Mar. 10.

### House committees release legislative outline addressing carbon and infrastructure

The House Committee on Transportation and Infrastructure released draft framework of legislation to overhaul the nation's infrastructure, which shares an underlying environmental focus. The proposal is being referred to as Moving America and the Environment Forward.

The framework covers \$760 billion of investments over five years for roads, transit, rail, aviation, broadband, wastewater and drinking water infrastructure. Beyond simply improving existing infrastructure, the framework outlines benefits of the plan to include new transformative projects that create an estimated 10 million jobs, reduce carbon pollution, improve safety and spur economic activity.

## AMP RENEWABLE ENERGY PRODUCTION, ENERGY EFFICIENCY: EMISSIONS AVOIDANCE

	Q1 2020 MWh	CO2 emissions avoided (Tons)*	SO2 emissions avoided (Tons)*	NOx emissions avoided (Tons)*	Total emissions avoided (Tons)
Belleville Hydro (JV5)	57,137	24,312	15.71	12.86	24,340
Greenup Hydro	29,552	12,574	8.13	6.65	12,589
Meldahl Hydro	79,451	33,806	21.85	17.88	33,846
Cannelton Hydro	46,643	19,847	12.83	10.49	19,870
Willow Island Hydro	54,810	23,322	15.07	12.33	23,349
Smithland Hydro	1,506	641	0.41	0.34	642
AMP Wind Farm (JV6)	3,589	1527	0.99	0.81	1529
Napoleon Solar	515	219	0.14	0.12	219
Landfill Gas ***	93,881	613,843	25.82	21.12	613,890
Blue Creek Wind	39,498	16,806	10.86	8.89	16,826
EcoSmart Choice	29,815	12,686	8.20	6.71	12,701
Efficiency Smart	2,146	913	0.59	0.48	914
Solar Phase II	14,208	6,046	3.91	3.20	6,053
Carbon Offset Forestation Projects	467 acres	122			122
					<b>766,890</b>

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

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

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

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

## GREEN BOND FINANCED PROJECTS – Q1 2020 REPORT

	Meldahl	Combined Hydro (Cannelton, Willow Island, Smithland)	Solar Phase II
Net Renewable Capacity (MW)	108.8	208	36.8
Net Renewable Generation (MWh)	79,451	102,959	11,107
Capacity Factor (%)	33%	23%	N/R
Emissions Avoidance			
CO2 (GHG) emissions avoided (Tons)	33,806	43,809	4726
SO2 emissions avoided (Tons)	21.85	28.31	3.05
NOx emissions avoided (Tons)	18.27	23.68	N/R

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

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

<sup>[1]</sup> [PJM 2015-2019 CO2, SO2 and Nox Emissions Rates Report April 9, 2020](#)

<sup>[2]</sup> [PJM State of the Market Report, 2019 Table 3-50](#)

N/R - not required for reporting

## POWER GENERATION

in net MWh

Jan. 1, 2020 — March 31, 2020

**AMP Wind Farm (JV6):** 3,589

**AMP Fremont Energy Center (AFEC):\*** 785,800

**Belleville Hydro (JV5):** 57,137

**Greenup Hydro:\*** 29,522

**Meldahl Hydro:** 79,451

**Cannelton Hydro:** 46,643

**Willow Island Hydro:** 54,810

**Smithland Hydro:** 1,506

**Prairie State Energy Campus (PSEC):\*\*** 673,052

**Distributed Generation:** 47

**Landfill Gas:** 93,881

**Blue Creek Wind:\*\*** 39,498

**Napoleon Solar:** 515

**Solar Phase II:** 14,208

\* Total plant

\*\* AMP's share

## HEALTH AND SAFETY

Jan. 1, 2020 — March 31, 2020

**Employee Work Related Fatalities:**

0

**Recordable Incidents or Accidents:**

0

**Lost Work Day Incidents:**

0

## COMMUNITY

Jan. 1, 2020 — March 31, 2020

**AMP Employee Charitable Giving:** \$4,616.50

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

Jan. 1, 2020 — March 31, 2020

**CO2 emissions:** 1,127,861.1

**SO2 emissions:** 581.6

**NOx emissions:** 264.1

**PM emissions:** 22.2

**CO emissions:** 23.7

**Hg emissions (in lbs):** 3.8

*\*Prairie State data not yet certified*

**HAZARDOUS, UNIVERSAL,  
OTHER WASTE**

Jan. 1, 2020 — March 31, 2020

AFEC- non haz. solvent= 20 gallons (140 lbs.)  
AFEC- universal waste (318 lbs)

**TRASH PULLED FROM  
THE OHIO RIVER**

Jan. 1, 2020 — March 31, 2020

458 lbs

**ENERGY EFFICIENCY AND ECOSMART CHOICE  
REC SALES**

Jan. 1, 2020 — March 31, 2020

**Efficiency Smart Cumulative Savings**

**2014 — 2020:** 119,143 MWh **2020 Q1:** 2,146 MWh

**EcoSmart Choice REC Sales:** 29,815 MWh

**RECYCLING AND REUSE**

Jan. 1, 2020 — March 31, 2020

**Recycled glass, plastic, metals, paper and cardboard**  
14,092 lbs.