MINNESOTA MUNICIPAL POWER AGENCY 2019 ANNUAL REPORT



Anoka | Arlington | Brownton | Buffalo | Chaska East Grand Forks | Elk River | Le Sueur North St. Paul | Olivia | Shakopee | Winthrop

YOUR HOMETOWN

MINNESOTA MUNICIPAL UTILITIES

Anoka | Arlington | Brownton | Buffalo | Chaska
East Grand Forks | Elk River | Le Sueur
North St. Paul | Olivia | Shakopee | Winthrop



John Crooks
Chairman, MMPA Board of Directors
Utilities Director,
Shakopee Public Utilities

Derick O. Dahlen Executive Manager, MMPA President and CEO, Avant Energy, Inc.

CELEBRATING OUR 2019 SUCCESSES WHILE RECOGNIZING UNCERTAIN TIMES ARE AHEAD

2019 was a very successful year for the Minnesota Municipal Power Agency. Our average rate to members decreased nearly 2% from the year before, and our prices remained competitive with, and in most cases lower than, our state and regional peers. Our financial performance was strong and our financial position improved. This was demonstrated when Fitch improved our bond rating outlook from "Stable" to "Positive" near the end of the year.

We are proud of the diverse and cost-effective power generation portfolio we have assembled to provide reliable power to our members. Our portfolio of conventional and renewable resources is projected to meet all of our capacity needs until 2030, helping us to reduce risk and maintain a stable rate trajectory for the next decade. In May, the Minnesota Public Utilities Commission approved our integrated resource plan for the period 2019-2033, which shows how our power supply portfolio meets our projected needs.

In last year's report we discussed our desire to move forward with renewable energy additions when it makes technological and economic sense to do so. This remains our position, but our expectation of the timing of some of these additions has shifted since last year. A developer with whom we had a contract for renewable energy from a new facility elected to terminate our contract when transmission interconnection costs came in well above expectations. We are not the only utility in this position. Newly-constructed renewable resources have taken up most of the transmission capacity constructed in the past decade. We expect that it will take another cycle of transmission investment before large renewable projects can be economically interconnected again. Given the length and cost of the transmission investment process, we are also exploring alternative strategies to add renewable energy resources.

As we look forward to 2020, we see substantial uncertainty. The coronavirus has disrupted economic markets as well as energy consumption levels. Both the length of this crisis as well as what the new normal looks like at its conclusion are uncertain. Whatever the outcome, rest assured that MMPA remains dedicated to fulfilling our mission of providing reliable, competitively-priced power to our members, and to creating value for the Agency and our members.

Sincerely,

John Crooks

Chairman, MMPA Board of Directors Utilities Director, Shakopee Public Utilities Derick O. Dahlen

Executive Manager, MMPA

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President and CEO, Avant Energy, Inc.

MMPA

TOGETHER, OUR MEMBERS PROVIDE POWER TO MORE THAN 161,000 MINNESOTANS.

Our Mission

Our mission is to provide reliable, competitively-priced power to our members and to create value for the Agency and our members. We were founded in 1992 on the premise of strength and cost effectiveness through working together in joint action. We have delivered on our mission through our long history of providing reliable and competitivelypriced energy to our members.

Our Members

MMPA is a power agency with twelve Minnesota municipal utilities as its members. Our members represent a diverse group of communities across Minnesota, including small and large cities as well as rural and suburban communities. We have members with large industrial customers and members whose customers base is largely residential and commercial. Together, our members provide power to more than 161,000 Minnesotans.

Average MMPA Rate to Members in dollars per megawatt hour 70 75.28 73.90 73.19 50 40 30 20

2018

2019

10 _

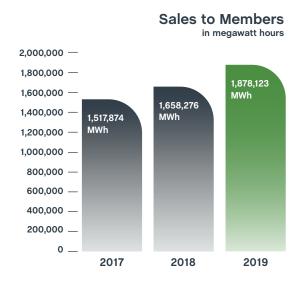
2017

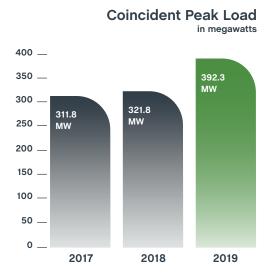
Member Rates

Our average rate to members decreased from \$75.28 per MWh to \$73.90 per MWh-a 1.8% reduction in rates. Our rates continue to be competitive with other power suppliers in the state, including other municipal power agencies, generation and transmission cooperatives, and investor-owned utilities.

Sales to Members

Both our sales to members and our coincident peak load grew significantly from 2018 to 2019. Elk River Municipal Utilities began purchasing power from MMPA on October 1, 2018, and 2019 was the first full year of sales from MMPA to Elk River.





OUR BOARD OF DIRECTORS



Every MMPA member has a representative on our Board of Directors. We believe that it is important to hear from a variety of perspectives in our decision making. Our Board is responsible for setting policy, approving capital expenditures, and hiring management.

MMPA Board of Directors

Anoka

Erik Skogquist Council Member

Ed Evans* Utility Advisory Board Member

Arlington

Amy Newsom City Administrator

Lisa Tesch* Deputy Clerk

Brownton

Curt Carrigan
Council Member

Buffalo

Joseph Steffel Utilities Director

Laureen Bodin* City Administrator

Chaska

Matt Podhradsky City Administrator

MMPA Vice Chairman

East Grand Forks

Keith Mykleseth Utilities General Manager

MMPA Treasurer

Jeff Olson*
Distribution Superintendent

Elk River

Theresa Slominski Interim General Manager

Mary Stewart*
Utilities Commissioner

Le Sueur

Newell Krogmann Council Member

Jasper Kruggel* City Administrator

North St. Paul

Brian Frandle Director of Electric Utilities MMPA Secretary

Olivia

Amber Dale Utility Accounts Manager

Dan Coughlin*
City Administrator

Shakopee

John Crooks Utilities Manager

MMPA Chairman

Deb Amundson* Utilities Commissioner

Winthrop

Peter Machaiek Alderman

Jenny Palmer*
City Administrator

* Alternate

OUR MANAGEMENT

Since its founding, MMPA has been managed by Avant Energy, a Minneapolis-based energy and management consulting firm. MMPA and Avant have partnered for more than two decades and have built the Agency into the competitive and financially strong organization it is today. As MMPA has no employees, Avant performs all management functions for the Agency, including strategic planning, power supply planning, daily energy market operations, accounting and finance, and power plant development activities. Avant employs professionals trained in management, economics, energy markets, engineering, finance, and law. Avant is continually focused on creating value for MMPA.



Avant Management



Derick O. Dahlen
President and CEO



Oncu H. Er Chief Operating Officer



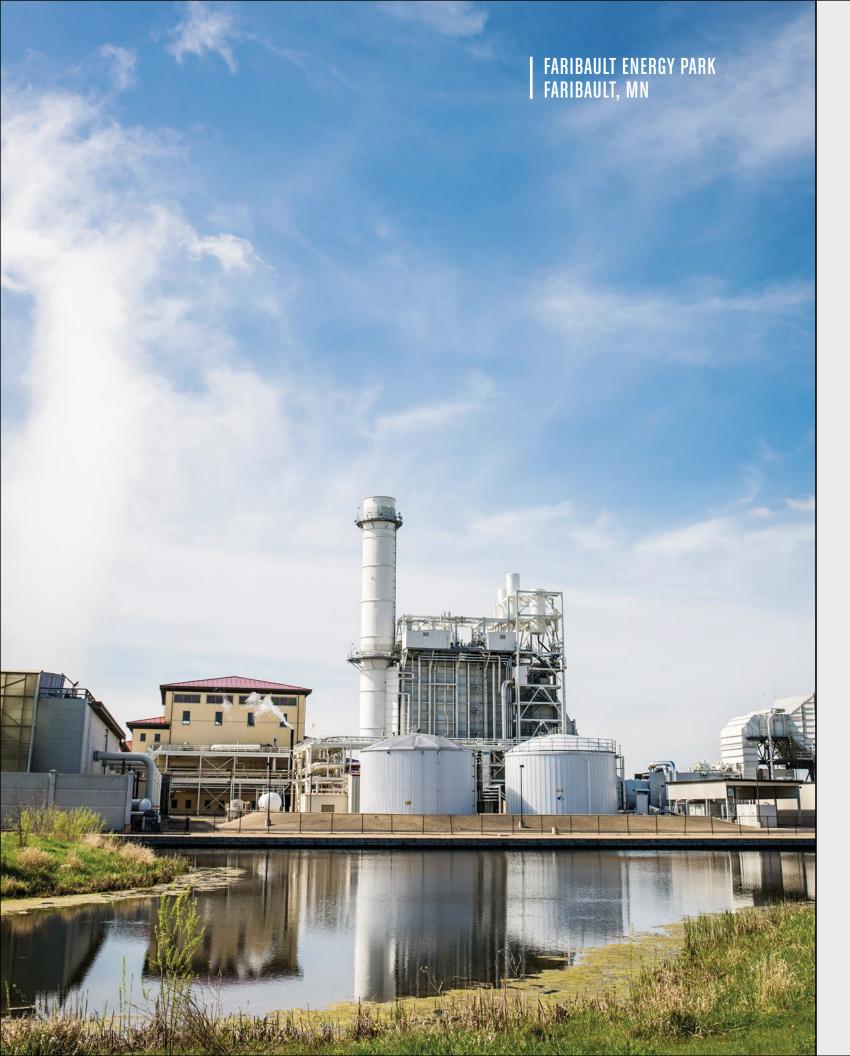
David W. Niles Vice President



Harold G. Little Vice President



Noah J. Hansen Vice President



POWER SUPPLY

We have assembled a diverse portfolio of renewable and conventional generation to meet our members' current and future power supply needs. Our resources are a mix of owned and contracted generation. Our portfolio includes a variety of technologies and fuels, including wind, solar, bioenergy, natural gas-powered combined cycle, simple cycle, and reciprocating engines. Much of our power supply is located in member communities.

In 2019, the Minnesota Public Utilities Commission approved our integrated resource plan (IRP) covering the years 2019 to 2033. The IRP showed that MMPA is not projected to need additional capacity until 2030.

MMPA can benefit from lower cost renewable energy even though we don't need additional capacity. The low variable cost of renewable resources such as wind and solar make these resources an important part of our energy risk management program. We evaluate renewable generation addition opportunities on an ongoing basis as our portfolio needs evolve.

One challenge that could delay the implementation of additional renewable resources is the cost of interconnecting these generators to the transmission system. Substantial investments in transmission facilities were made in Minnesota and across the region over the last decade, but new renewable resources have filled up most, if not all, of this new capacity. As a result, developers of new renewable generators are being assigned very high costs to interconnect to the transmission system. These high costs resulted in us not proceeding with one planned renewable energy project in 2019. We are developing alternative approaches to add renewable generation to MMPA's portfolio.

MMPA's generation fleet performed well in 2019, operating at a very high level of reliability. Our preventative maintenance approach helps reduce forced outages and results in lower energy costs to our members.

Faribault Energy Park

Faribault Energy Park is the largest power generation facility in our resource portfolio. The 300 MW combined cycle facility, located in Faribault, efficiently uses natural gas to produce economic electricity. The plant can also run on fuel oil in the event of a gas interruption. Not just an electric generator, Faribault Energy Park also hosts most of the events for our Energy Education program. The plant's wetland park contains walking trails open to the public as well as demonstrations of both wind and solar energy.

Minnesota River Station

The Minnesota River Station is a 49 MW simple cycle gas turbine located in Chaska, one of our member communities. Built in 2001, the facility is a peaking plant—built to generate electricity on the days when demand is highest. MMPA leases the facility from Chaska under an agreement that runs until at least 2031.

Shakopee Energy Park

Shakopee Energy Park is the newest conventional resource in our portfolio. Starting operations in 2017, the 46 MW facility consists of five reciprocating engines powered by natural gas. Shakopee Energy Park also has an innovative liquefied natural gas (LNG) backup system for times when natural gas is not available. The plant is located in Shakopee, another MMPA member community, and is directly connected to Shakopee's distribution system, helping to support the city's reliability.



FARIBAULT ENERGY PARK FARIBAULT, MN 300 MW, NATURAL GAS



MINNESOTA RIVER STATION CHASKA, MN 49 MW, NATURAL GAS



SHAKOPEE ENERGY PARK SHAKOPEE, MN 46 MW, NATURAL GAS



Oak Glen Wind Farm

Oak Glen Wind Farm is a 44 MW project located near Blooming Prairie. The facility has 24 wind turbines that provide clean, renewable energy to the Agency. Operating for more than eight years, Oak Glen Wind Farm was MMPA's first utility-scale wind project.

Hometown BioEnergy

Our 8 MW Hometown BioEnergy facility uses the anaerobic digestion of agricultural and food processing wastes to produce renewable energy. Unlike most renewable generators, which depend on an intermittent energy source such as wind or solar, Hometown BioEnergy stores the biogas produced from the anaerobic digestion process to be used when most valuable. The liquid byproduct from the digestion process is sold to local farmers as fertilizer. The facility, located in our member community of Le Sueur, has won several national awards for its innovation.



OAK GLEN WIND FARM STEELE COUNTY, MN 44 MW, WIND



HOMETOWN BIOENERGY LE SUEUR, MN 8 MW, BIOENERGY

MMPA HAS ASSEMBLED A DIVERSE PORTFOLIO OF CONVENTIONAL AND RENEWABLE POWER SUPPLY RESOURCES.

Black Oak Getty Wind Farm

We purchase all of the output from the Black Oak Getty Wind Farm under a long-term contract. This 78 MW wind facility is located near Sauk Centre, and began producing power in 2016.

Hometown WindPower

MMPA also has a 160 kW wind turbine in most of our member communities. These Hometown Wind turbines are demonstration resources that help educate people about the operating characteristics of wind power. We recently completed a refurbishment and life extension project for these turbines, which have been operational for a decade.

Buffalo Solar

Our newest renewable resource is the 7 MW Buffalo Solar Farm, located near Buffalo, an MMPA member community. It began producing power in 2017, and we purchase all of the facility's output under a longterm contract.



BLACK OAK GETTY WIND FARM STEARNS COUNTY, MN 78 MW, WIND



HOMETOWN WINDPOWER MMPA COMMUNITIES 1.9 MW, WIND





BUFFALO SOLAR BUFFALO TOWNSHIP, MN 7 MW, SOLAR

ECONOMIC DEVELOPMENT

Supporting economic development in our member communities is another way we fulfill our mission to create value for our members. We are actively partnering with our member communities to attract new loads to help promote growth.

We support economic development by identifying land available for development and, if necessary, acquiring land rights for parcels of interest to those seeking to locate energy-intensive sites in our member communities. We have developed wholesale rate structures that can help our members' sites be more competitive and attractive to prospective loads.

As a municipal power agency, we can be responsive and flexible in working with new customers. Because we have rate setting authority, we can move quickly when opportunities arise. Local support is critical to success, and our strong relationships with each of our member communities is an asset when working with prospective new customers.

Economic development and growth in one community can benefit all MMPA members by helping reduce our average rate. As a result, we are ready to commit financial and management resources to support economic development in our member communities.



ENERGY CONSERVATION

MMPA manages Conservation Improvement Program (CIP) activities for seven of our twelve member communities, working directly with members and their customers to develop targeted programs that promote energy conservation and efficiency. The CIP program encompasses a variety of rebate and other program offerings to residential and business customers.

In 2019, the MMPA CIP group exceeded its annual spending goal, spending over \$580,000 on conservation programs and activities that saved more than 4,500,000 kWh.

Commercial and industrial (C&I) custom and lighting rebates continued to produce significant energy savings in 2019. One member paid a custom rebate for non-HVAC variable frequency drives to an industrial customer that saved nearly 1,000,000 kWh.

In addition to C&I projects, some of our members continued to offer free energy kits

to their residential customers this past year.

These promotions let customers at all income levels experience LED lighting while also encouraging them to purchase efficient LED products. Energy kits included LED bulbs, night lights, and holiday light strings, as well as advanced power strips and solar phone chargers.

Several members implemented direct lowincome projects including multi-family housing lighting upgrades and energy kits distributed via a local food shelf.



WeSaveHome WeSaveBusiness



ENERGY EDUCATION

Since 2010, MMPA has provided youth in member communities and project host communities with the opportunity to learn about energy through MMPA's Energy Education Program. Our program has reached over 18,500 students in our member and project host communities. Students learn about energy concepts through online resources, MMPA's Energy Education Workbook, interactive tours, and in-school assemblies.

Our Elementary Program

MMPA, in partnership with the Science Museum of Minnesota, introduces students to electricity basics, energy resources, and conservation. The program is designed to align with Minnesota's state educational standards for fourth grade students. All of our member communities participate in the elementary energy education program.

Each May, MMPA's Faribault Energy Park (FEP) hosts students at the 300 MW natural gas facility. While on-site, students can view the control room, steam turbine, a wind turbine, and a solar array. Our tours use interactive educational stations to teach students how electricity is generated, as well as how it is transmitted and used. Among the many interactive activities, student volunteers serve as "student fueled power plants" and use a bike-generator to better understand electricity generation and the importance of energy conservation.

For schools not able to travel to FEP, we offer an in-school energy education assembly that includes an introduction to MMPA and how power gets to customers' homes, as well as a one-hour presentation by the Science Museum of Minnesota. Similar to the FEP event, the assembly uses interactive activities to engage students and teach them about energy sources and conservation.



SUPPORTING OUR MEMBER COMMUNITIES SUPPORTING OUR MEMBER COMMUNITIES



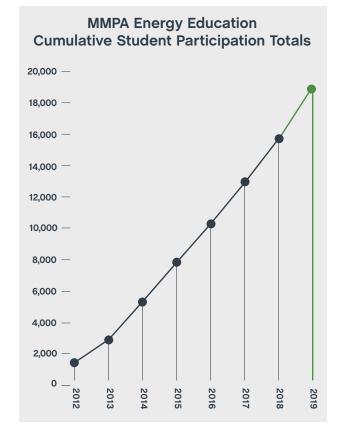


High school students participate in interactive energy-focused demonstrations at Shakopee Energy Park

New High School Program

In 2018, we launched a pilot program for high school students in member communities as an expansion of our energy education offerings. Based on the success of the pilot, we launched a full high school program in 2019, with eight member communities participating. The high school program introduces more complex energy topics and provides insight into energyfocused career opportunities. High school students are hosted at either Shakopee Energy Park or Faribault Energy Park. An in-school assembly is also offered for schools unable to travel to one of our plants. All events include an introduction to MMPA, interactive presentation by the Science Museum of Minnesota, and a Careers in Energy segment where students learn about different career opportunities through career panels or small group discussions. For events held at an MMPA plant, a facility tour is also included.

REACHING OVER 18,500 STUDENTS



MMPA'S HOMETOWN SOLAR GRANT PROGRAM

MMPA created the Hometown Solar Grant Program as an extension of its Energy Education program. The grant provides a local educational asset to our member communities. Hometown Solar provides a local school or community facility with a 5 kW solar installation.

The solar installation helps to educate students and the public on the conversion of sunlight into electricity and the unique characteristics of solar power. We also provide lesson plan concepts and tools to educators so that they can integrate the data from the solar arrays into the school's curriculum.



BUFFALO

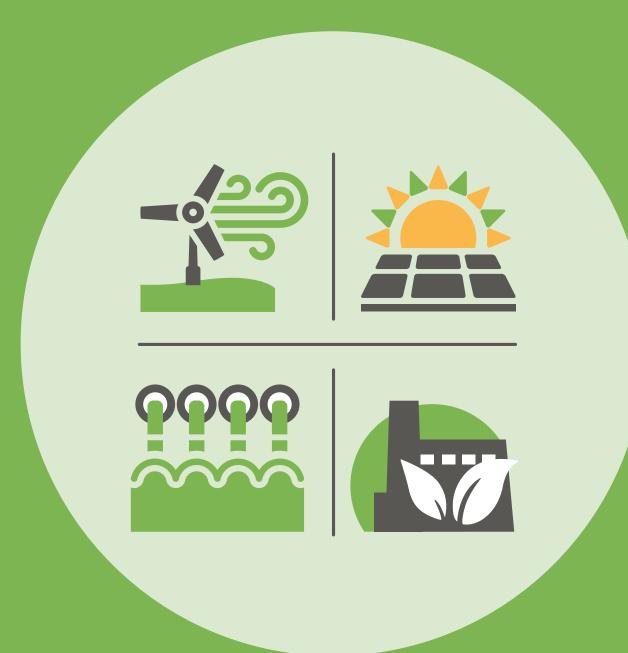


ELK RIVER

HOMETOWN SOLAR GRANT RECIPIENTS

Since the Program's launch in 2015, the Agency has awarded eleven Hometown Solar Grants, in addition to a pilot installation at Faribault Energy Park. The following educational facilities have been awarded Hometown Solar Grant Awards:

- Brownton City Offices (Brownton, 2016)
- BOLD High School (Olivia, 2016)
- GFW High School (Winthrop, 2016)
- Sibley East Middle/High School (Arlington, 2016)
- Anoka High School (Anoka, 2017)
- South Point Elementary School (East Grand Forks, 2017)
- North High/District Education Center
 (North St. Paul, 2017)
- Clover Ridge Elementary School (Chaska, 2018)
- Eagle Creek Elementary School (Shakopee, 2018)
- Tatanka Elementary School (Buffalo, 2019)
- Elk River City Hall (Elk River, 2019



CLEAN ENERGY CHOICE FOR HOME AND BUSINESS

We recognize that a one-size-fits-all approach does not work for retail electric customers. That is why we created our Clean Energy Choice programs for our members to offer to their residential and business customers.

17% of MMPA's power supply is renewable under the Minnesota renewable energy standard. In 2020, this amount increases to 20%. Our Clean Energy Choice program gives our members' customers a simple, inexpensive way to support and promote renewable energy.





Our Residential Program

Our residential Clean Energy Choice program provides customers with the choice to increase their proportion of renewable energy to 50%, 75%, or 100% for \$1, \$2, or \$3 per month, respectively. There are no upfront costs or minimum participation terms. This program has been very popular with customers—participation in the program grew by 15% in 2019.

If you are a residential customer of one of our member utilities and would like more information or to subscribe to the program, please visit www.cleanenergychoice.com.

Our Business Program

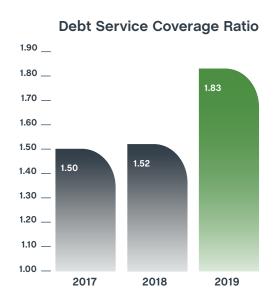
We also offer the Clean Energy Choice for Business program for our members' commercial and industrial customers. For a very small surcharge-\$0.001 per kWh (for all kWh not already renewable through the renewable energy standard), business customers can have 100% of their energy come from renewable resources. We provide certificates and door decals so that program participants can promote their products and services as being powered by renewable energy.

Interested business customers should contact their local utility for more information about the Clean Energy Choice for Business program.

MMPA'S FINANCIAL STRENGTH SUPPORTS THE AGENCY'S ABILITY TO PROVIDE STABLE AND COMPETITIVE RATES

Debt Service Coverage

Even though our average rate to members decreased from 2018 to 2019, our debt service coverage increased from 1.52 times debt service to 1.83 times debt service. This increase underscores our continued financial strength.



Energy Adjustment Clause

Our rates to members contain a forward-looking energy adjustment clause. This mechanism allows us to project our costs for the month ahead and set rates accordingly, so that there is less of a lag between changes in costs and changes in revenues.

Rating Outlook Improvement

In December, Fitch raised our rating outlook from "Stable" to "Positive." In its release, Fitch cited our strong financial performance, greater liquidity levels, lower debt ratio, strong member credit quality, and effective risk management.

Rate Stabilization

In addition to providing competitively-priced power to our members, we also strive to provide stable prices to members that do not fluctuate widely from month to month or year to year. MMPA has a \$33.1 million rate stabilization fund that helps support this objective.

Minnesota Municipal Power Agency Statements of Net Position

December 31	December 31
2019	2018
\$ 42,120,439 6,069,712	18,275,439 6,410,280
333,596 10,929,332	— 376,324 12,686,551 923,542
3,167,381 1,341,898	2,943,430 1,290,493
105,557,122	42,906,059
428,166,676	427,297,380
7,091,719 (142,181,105)	7,066,719 (127,715,278)
,	306,648,821
947,515	739,222
294,024,805	307,388,043
 18.728.441	40,150,569 18,635,242
511,223	548,004
	49,112,219
, ,	415,834,077
470,401,940	458,740,136
1.416.249	1,853,889
1 1	460,594,025
\$ 9,333,097 2,853,782 10,763,333 1,091,514 159,930	10,069,872 2,954,655 10,368,333 1,030,022 507,420
24,201,656	24,930,302
251,399,917	263,295,833
	16,991,245
	280,287,078
291,501,303	305,217,380
33,071,000	33,071,000
	3,984,849
331,218,873	342,273,229
35,515.597	36,428,103
6,069,712	6,410,280 75,482,413
140,599,316	118,320,796
	, . = 0, . 0 0
	6,069,712 40,357,472 333,596 10,929,332 1,237,292 3,167,381 1,341,898 105,557,122 428,166,676 7,091,719 (142,181,105) 293,077,290 947,515 294,024,805 — 18,728,441 511,223 51,580,349 364,844,818 470,401,940 1,416,249 \$471,818,189 \$9,333,097 2,853,782 10,763,333 1,091,514 159,930 24,201,656 251,399,917 15,899,730 267,299,647 291,501,303 33,071,000 6,646,570 331,218,873

Minnesota Municipal Power Agency Statements of Revenues, Expenses, and Changes in Net Position

	Year ended December 31 2019	Year ended December 31 2018
Operating revenues: Power sales to members Power sales to nonmembers	\$139,626,526 1,346,768	125,589,822 1,451,690
Total operating revenues	140,973,294	127,041,512
Operating expenses: Power acquisition expense Transmission Other operating expenses Depreciation	47,529,466 23,144,495 27,887,955 14,465,827	44,119,693 18,981,200 27,605,846 14,410,447
Total operating expenses	113,027,743	105,117,186
Operating income	27,945,551	21,924,326
Nonoperating revenues (expenses): Interest expense Investment income Loss on disposition of property Loss on bond investment redemption Net (decrease) increase in fair value of investments Capital contribution from new member Other	(11,694,806) 2,602,724 — (56,710) 947,106 — 66,525	(12,188,963) 1,698,778 (660,452) (41,745) (192,856) 21,321,897
Total nonoperating revenues (expenses), net	(8,135,161)	9,936,659
Change in net position before future recoverable costs Future recoverable costs	19,810,390 2,468,130	31,860,985 4,071,182
Change in net position Net position, beginning of year	22,278,520 118,320,796	35,932,167 82,388,629
Net position, end of year	\$140,599,316	118,320,796

Visit www.mmpa.org to view complete audited financial statements and learn more about MMPA.







THE POWER OF YOUR HOMETOWN

Anoka | Arlington | Brownton | Buffalo | Chaska East Grand Forks | Elk River | Le Sueur North St. Paul | Olivia | Shakopee | Winthrop



Minnesota Municipal Power Agency

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