



**2022**  
ANNUAL REPORT

# CONTENTS

Bryan Board of Public Affairs ..... 3

Management Report ..... 4-5

Financial Highlights ..... 6

Fund Balances ..... 7

Electric Department..... 8

Electric Financials..... 10-11

Power Production..... 12

Power Supply Data ..... 13

Water Department..... 14

Water Financials ..... 16-17

Communications Department..... 18

Communications Financials..... 19

Five Year Summary ..... 20-21

Engineering Department..... 22

Unbilled Utility Services..... 23



## BMU MISSION

*Bryan Municipal Utilities is dedicated to providing reliable and responsive service while pursuing innovative solutions to create the best value for our customers.*

# BRYAN BOARD OF PUBLIC AFFAIRS

The Bryan Board of Public Affairs is a five-person board elected to set direction and decide policy for the community-owned utility. The full Board meets twice monthly in open session on the first and third Tuesday of each month at 5 p.m. The meetings are open to the public, as well as live streamed and available on [www.cityofbryan.net](http://www.cityofbryan.net) for future viewing and reference.

The Board keeps informed of utility services, financial position, and personnel on a regular basis. They have a Financial, Electric, Water, and a Communications Committee that meet quarterly with the management team to discuss significant utility activities and other committees that meet as needed throughout the year.

The essential and enduring guiding principles for the BMU Board of Public Affairs and employees are:

- **Integrity** – doing the right thing in an honest, fair, and responsible way
- **Dedication** – committed to applying our knowledge, expertise, and resources in a professional manner
- **Service** – providing reliable service at competitive rates
- **Customer Focused** – making our customers our primary focus every day
- **Communication** – providing clear and consistent communications in all we do

Since its creation in 1906, the Board of Public Affairs has focused on providing the residents and businesses of Bryan with reliable, superior service at a competitive cost while planning for the future and addressing the unexpected challenges along the way. The Bryan Board of Public Affairs and Bryan Municipal Utilities is committed to ensuring our efforts continue to align with our mission, vision, and values for the success of our Bryan community.



**Board Members:**  
(Pictured Left to Right) Annette Schreiner, Jim Salsbury, Dick Long, Tom Sprow, Karen Ford



# MANAGEMENT REPORT 2022



**Bryan Municipal Utilities is a community owned, not-for-profit provider of electric, water and communications services to the Bryan area. We are pleased to announce another year of considerable progress and service to our community in 2022.**

## RELIABLE SERVICE

The American Public Power Association (APPA) is the voice of not-for-profit, community owned utilities that power forty-nine million people in 2,000 towns and cities nationwide. APPA advocates and advises public power communities on electricity policy, technology, trends, training, and operations.

APPA's Reliable Public Power Provider (RP3) program recognizes municipal utilities that demonstrate high proficiency in reliability, safety, workforce development, and system improvement. Bryan Municipal Utilities first received RP3 designation in 2006; and in 2022 was again awarded the RP3 Diamond Level certification, which lasts for three years. We could not be prouder to be honored with this designation and will remain committed to looking for ways to improve our operations and service to our customers.

In 2022, BMU's Average Service Reliability Index (ASAI) which is a measure of the percentage of the year the electric distribution system was in service and available to our customers was 99.994%.

**LOCAL POWER PRODUCTION** is imperative to reducing capacity and transmission costs for our Bryan customers. BMU is billed additional capacity and transmission charges based on Bryan's system electric load during peak demand events. These events are one of the key drivers of overall electricity costs as they determine rates for the following year. By utilizing our local generation assets such as municipal power plant generators, Auglaize Hydroelectric Facility, Bryan Solar Field, and interrupting operations at the Water Treatment Plant, it allows us to lower our Bryan system load during these peak demand events. These joint efforts combined with peak alerts to City Departments, businesses, and residents to reduce their energy use will save Bryan electric customers approximately \$4.5 million in capacity and transmission costs on Bryan power supply bills in 2023.

Winter Storm Elliott, December 23-24, brought near record low temperatures, wind chills and blizzard like conditions across most of the country resulting in record winter electricity demands. BMU was called upon to peak shave for a Maximum Generation Emergency Event by PJM (Regional Transmission Organization) who coordinates the movement of wholesale electricity and manages the high voltage electricity grid in our region. The PJM emergency event

required all generation resources to operate at their rated capacity level. BMU's generation during this emergency event will provide additional capacity performance credits to be applied to power supply bills in 2023. Additionally, sales of our generated energy onto the grid during the two-day event proved to be beneficial for the City of Bryan. Higher market prices for energy sold during this emergency event reduced our December power supply bill by over \$732,000, which is an added savings passed through to our Bryan customers.

**THE POWER PLANT SUBSTATION** rebuild is a phased approach to a multi-year project that continued to make progress with groundbreaking in the fall. This is the last step of converting the 34.5 kV sub transmission system to 69 kV. This upgrade will ultimately help improve electric system reliability, provide capacity for future growth, and allow direct generation to the 69 kV system during peak shaving opportunities.

**THE BRYAN SOLAR FIELD** 2MW solar array equipment purchase in 2022, following a 10-year lease, continued BMU's commitment to reducing costs for our customers and identifying opportunities for reliable, economical, and renewable energy for the benefit of the citizens of Bryan. With nearly 2.6 million kWh generated per year the Bryan Solar Field reduces our energy purchase requirements, provides savings on transmission costs, as well as additional revenue for the sale of renewable energy credits. With full ownership of the Bryan Solar Field, this power supply asset will provide additional savings and continued benefits for years to come and help keep rates stable for the City of Bryan.

**CABLE TELEVISION SERVICE** was unfortunately discontinued on May 31, 2022, by the Bryan Board of Public Affairs with the passage of Resolution 17, 2022. Since inception in 1998, BMU has efficiently maintained and operated a cable television service that provided a low-cost option to the residents of the City of Bryan. With the evolution of digital technology, increased programming costs, and streaming services becoming increasingly popular, an in-depth evaluation was required. To provide a competitive product, significant capital investments and an increased rate structure would have been required, which would be a financial commitment that was not feasible. BMU continues to offer and enhance its reliable and low-cost fiber and internet services to the City of Bryan.

**NATIONAL AWARD-WINNING** muralist Eric Henn completed the painting of the Bryan Water Tower. The community-focused Dum-Dum theme was a joint project between the Bryan Board of Public Affairs, Bryan Municipal Utilities and Spangler Candy Company. The mural painting is

anticipated to attract additional visitors to the City of Bryan, thus helping boost the local economy. Additionally, a ten-year master service agreement was approved for the appropriate renovation and maintenance services of both Bryan-owned water towers. This agreement assists in keeping the City of Bryan's Public Water System in compliance with the Ohio EPA's Asset Management Program.

**BRYAN MUNICIPAL UTILITIES STRATEGIC PLAN** was originally completed in 2018. In 2022, an update was necessary to accurately reflect the current operating environment and adjust both long and short-term goals. This update was completed by staff and approved by the Bryan Board of Public Affairs. The key areas of focus were an updated assessment of the Utilities' vision and an evaluation of strengths, weaknesses, opportunities, threats, and business goals.

**THE BRYAN GOOD NEIGHBORS UTILITY FUND** was created in 2005 by the Bryan Board of Public Affairs to assist Bryan residents who experience difficulty paying their electric and water bills. This fund is administered by Northwestern Ohio Community Action Commission (NOCAC) and funded 100% through donations from BMU customers, businesses, and staff. Bryan area residents have demonstrated their sense of community pride and outstanding generosity by donating more than \$125,000 and assisting 937 families since inception. The Bryan Good Neighbors Utility Fund was able to assist 15 Bryan families in 2022.

**THE ADVANCED METERING INFRASTRUCTURE (AMI)** project progressed successfully with the installation of most electric meters in 2022; completion is expected in 2023. Material shortages and delivery delayed the start of the water meter deployment in 2022. In anticipation of receiving all materials and equipment, the water meter deployment will begin in 2023. Upgrading to an AMI System enables our electric and water utilities to be more efficient and accurate. Providing real time data on consumption, identifying issues early, and reducing response time are benefits that both BMU and our customers gain. Additionally,

electric and water meter deployments are being completed by the experienced and skilled workforce at BMU, which is a savings of \$546,000.

**FUND BALANCES** remain strong for the Electric and the Water Departments as we continue to see continued growth from our customers and cost saving measures from our departments. With market costs increasing and supply chain delays affecting our business, our departments have been planning and preparing for these obstacles. The Electric and Water Departments transferred additional funds from their operating budgets to their capital budgets in the Fall of 2022 for planned projects and purchases they would need in 2023.

**THE WATER DEPARTMENT** experienced an exceptional year with two projects that were supported with donations that saw successful completions in 2022. The E. Wilson St./County Road D Waterline Extension project provides additional water resources for the expansion of the Airmate Company; and the Bryan Water Tower painting project that became a local and national attraction with the painting of eight Spangler Candy Company Dum-Dums on the tower. The Communications Department remains stable even with the loss of Cable TV services. The cut in excessive programming costs counter-balanced the revenue from the services and slowed negative margins.

**BRYAN MUNICIPAL UTILITIES' EMPLOYEES** are our biggest asset. They care about our Bryan community and the services we offer. The cooperation of our departments to work together, combining manpower, expertise, and equipment is a testament to the hard work and commitment they have for each other and for you, our customer/owners. We would like to thank all our employees and say that we are proud of all they have accomplished to serve the community's needs for electric, water and communications for 2022 and for the continued work toward protecting and upgrading our infrastructure for future generations.

**We appreciate the opportunity to be of service to our community in 2022 and look forward to the accomplishments and progress in the coming year.**





# FINANCIAL HIGHLIGHTS



# FUND BALANCES

## ELECTRIC DEPARTMENT

	2022	2021	Change	%Change
<b>Operations</b>				
Income	\$20,720,671	\$19,700,187	\$1,020,484	5.2%
Expenses	17,421,789	17,577,089	(155,300)	-0.9%
Margin	\$3,298,882	\$2,123,098	\$1,175,784	55.4%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Capital Improvements Reserve Fund	4,050,637	1,043,000	3,007,637	288.4%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$15,124,396</b>	<b>\$14,539,215</b>	<b>\$585,181</b>	<b>4.0%</b>
<b>Total Meters</b>	<b>6,045</b>	<b>6,059</b>	<b>(14)</b>	<b>-0.2%</b>
<b>Total Metered kWh</b>	<b>176,937,948</b>	<b>173,522,664</b>	<b>3,415,284</b>	<b>2.0%</b>
<b>Peak Demand (kilowatts)</b>	<b>38,176</b>	<b>38,098</b>	<b>78</b>	<b>0.2%</b>

## WATER DEPARTMENT

<b>Operations</b>				
Income	\$3,107,597	\$2,589,029	\$518,568	20.0%
Expenses	2,154,122	1,657,694	496,428	29.9%
Margin	\$953,475	\$931,335	\$22,140	2.4%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Debt Service	86,517	84,086	2,431	2.9%
Capital Improvements Reserve Fund	1,470,000	290,000	1,180,000	406.9%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$3,562,955</b>	<b>\$3,597,774</b>	<b>(\$34,819)</b>	<b>-1.0%</b>
<b>Total Meters</b>	<b>3,878</b>	<b>3,875</b>	<b>3</b>	<b>0.1%</b>
<b>Total Metered Gallons</b>	<b>366,318,922</b>	<b>332,881,364</b>	<b>33,437,558</b>	<b>10.0%</b>

## COMMUNICATIONS DEPARTMENT

<b>Operations</b>				
Income	\$1,435,345	\$2,193,537	(\$758,192)	-34.6%
Expenses	1,598,195	2,372,074	(773,879)	-32.6%
Margin	(\$162,850)	(\$178,537)	\$15,687	-8.8%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Capital Improvements Reserve Fund	47,000	53,510	(6,510)	-12.2%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$1,973,772</b>	<b>\$2,180,494</b>	<b>(\$206,722)</b>	<b>-9.5%</b>
<b>Total Customers</b>	<b>1,203</b>	<b>2,783</b>	<b>(1,580)</b>	<b>-56.8%</b>

## 2022 HIGHLIGHTS

## 2022 ELECTRIC UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2021	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2022
Electric Fund	\$12,190,846	\$20,720,671	\$17,421,789	\$0	\$0	\$11,439,091*
Electric Capital Improvement Fund	2,173,278	4,050,637	0	2,538,610	0	3,685,305
<b>TOTAL</b>	<b>\$14,364,124</b>	<b>\$24,771,308</b>	<b>\$17,421,789</b>	<b>\$2,538,610</b>	<b>\$0</b>	<b>\$15,124,396</b>

\*\$4,050,637 Transferred to Electric Capital Improvement Fund

## 2022 WATER UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2021	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2022
Water Fund**	\$2,708,103	\$3,107,597	\$2,154,122	\$0	\$86,517	\$2,105,061*
Water Capital Improvement Fund***	714,580	1,765,228	0	1,021,914	0	\$1,457,894
<b>TOTAL</b>	<b>\$3,422,683</b>	<b>\$4,872,825</b>	<b>\$2,154,122</b>	<b>\$1,021,914</b>	<b>\$86,517</b>	<b>\$3,562,955</b>

\* \$1,470,000 Transferred to Water Capital Improvement Fund

\*\* \$266,073 Water Tower Painting Donation

\*\*\* \$245,228 Airmate Waterline Extension Donation

## 2022 COMMUNICATIONS UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2021	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2022
Communications Fund	\$2,071,104	\$1,435,345	\$1,598,195	\$0	\$0	\$1,861,254*
Communications Capital Fund	109,390	47,000	0	43,872	0	\$112,518
<b>TOTAL</b>	<b>\$2,180,494</b>	<b>\$1,482,345</b>	<b>\$1,598,195</b>	<b>\$43,872</b>	<b>\$0</b>	<b>\$1,973,772</b>

\* \$47,000 transferred to Communications Capital Improvement Fund



# ELECTRIC DEPARTMENT



**THE BRYAN ELECTRIC DEPARTMENT** invested a great deal in the replacement of electrical infrastructure and equipment in 2022. The projects the Electric Department completed made the system more reliable, improved the accuracy of usage readings and the redundancy of utility services. The investment in new equipment has improved the development planning for the replacement of aging infrastructure and installation of new utility facilities now and in the future. The Department also continued with performing line clearance on the electric distribution and transmission overhead power line system. This ongoing project has lessened the occurrences of circuit trips on the system circuit feeders. The continued investment in the Bryan Electric System provides a reliable service for our commercial, industrial, and residential customers.

The major investment for the Department in 2022 was the replacement of the existing electric meter infrastructure with AMI meters. Deliveries of the AMI meters began in April and the deployment of those meters in the field started in May. The Electric Department took ownership of the meter deployment project and was able to replace over 5,000 electric meters in 2022. The Department was challenged by this project, but everyone came together in the coordination and installation of the new replacement meters. The efforts of all employees involved were greatly appreciated, as they made the process seamless and with minimal setbacks. We are all looking forward to the year ahead to reap the benefits of having an operational automated metering system that will be utilized by all departments.

The Utility invested in a directional boring machine to be used for the replacement and installation of utility underground facilities. The Electric Department managed the presentation, specifications, and purchase of the directional boring machine. This purchase will provide all BMU Utilities with a valuable tool when upgrading underground facilities. The Department also played an integral role in the engineering, layout, purchase, and installation of diesel generators for backup power to the Water Treatment Plant and Water Wells 3, 4, & 5 here at the utility. These capital investments made by the Utility, promote both reliability and sustainability of our utility services for the City of Bryan.

Additionally, the Electric Department upgraded many underground and overhead projects in 2022. Underground projects consisted of the 1700 – 1900 blocks of E. Wilson St., the 200 block of E. South St., Greystone Subdivision, and on Anna Lane. The underground projects were installed by directional boring and open excavation trenching. The Department also completed overhead projects in the 1900 block of E. Wilson St., the Co. Rd. D-50/E. Mulberry St. Extended area, in Rachel Heights, for Allied Moulded, the Williams County Airport Hanger and on State Route 34 near the solar field property. The overhead projects comprise of pole line rebuilds, pole replacements and service extensions. Lastly, the department completed three lighting projects in the City of Bryan. These

lighting projects were in the 600 - 800 blocks of Parkview Ave., 600 block of Pleasantwood Ave. and the City of Bryan Parking lot behind the 100 block of the South Main St. All these completed projects improve the operation, maintenance, aesthetics, and the reliability of all power systems here in the City of Bryan.







## ELECTRIC OPERATING INCOME AND EXPENSES

2022

### Operating Income:

Charges for Services	\$20,057,039
Other Operating Income	233,623

**Total Operating Income** **\$20,290,662**

### Other Income:

Interest Income	\$175,532
Other Miscellaneous Income	254,477
Transfer Income	0

**Total Other Income** **\$430,009**

**Total Income** **\$20,720,671**

### Operating Expenses:

Purchase Power	\$10,856,785
Power Plant Operations	1,600,100
Solar Lease	50,637
Distribution Operations	1,777,233
Billing and Accounting	368,105
Customer Service and Administration	942,089
Maintenance	131,799
Board of Public Affairs	34,078
Electric Communications	408,831
Hydroelectric Plant Operations	473,490
Solar Field	41,613
Interest on AMI Loan	22,341

**Total Operating Expenses** **\$16,707,101**

### Other Expenses:

Kilowatt Hour Tax to State of Ohio	\$66,385
Kilowatt Hour Tax to General Fund	648,303

**Total Other Expenses** **\$714,688**

**Total Expenses** **\$17,421,789**

**Balance Available for Capital Improvements and Debt Service** **\$3,298,882**

Transfer to Electric Capital Improvement Fund 4,050,637

**Total Expenses** **\$21,472,426**

## ELECTRIC CAPITAL RESERVE FUND INCOME AND EXPENSES

**Beginning Balance 1/1/2022** **\$2,173,278**

**Transfer Income:** **\$4,050,637**

Other Income:	Land Sale	\$0
	Other Miscellaneous Income	\$0
	Loan Proceeds	\$0

**Total Other Income** **\$0**

**Total Income** **\$4,050,637**

### Capital Expenses:

Power Plant	\$1,227,874
Electric Distribution	1,249,070
Electric Utility Office	17,899
Electric Clerks Office	0
Maintenance	1,572
Auglaize Hydroelectric Plant	20,149
Electric Communications	22,046

**Total Capital Improvements** **\$2,538,610**

**Ending Balance 12/31/2022** **\$3,685,305**





# POWER PRODUCTION



# POWER SUPPLY DATA

**POWER PLANT** employees continued to focus on improving the reliability of the Bryan Municipal electrical grid. In 2022, the 34.5 kV upgrade from the Industrial Substation to Titan Tire was completed. Titan Tire was the last external customer on the 34.5 kV system to be placed on the 69 kV transmission line. Currently, the Bryan Power Plant is the only substation still on the 34.5 kV transmission system. This substation will be upgraded in stages and with the engineering nearly completed, excavation and site work construction has begun. An installation plan has been developed that allows BMU employees to complete most of the project in order to be frugal with the capital funding required for this upgrade. This does lengthen the time of installation, however, it will provide valuable experience to Power Plant employees, as well as other BMU departments assisting with the construction.

Cross department teamwork has allowed BMU to accomplish a lot. Along with the substation upgrade, we partnered with the Water Department to install conduit and wiring for the new Water Treatment Plant backup generator. With the difficulty in replacing department vehicles, due to industry backlog, we refurbished the bed of one of our one-ton trucks. Our maintenance mechanic performed all the welding on the lift bed frame and did an outstanding job. Finally, working with our Communications Department, we upgraded the Curtain Substation RTU's (Remote Terminal Units). Receiving communication from each substation had been difficult in the past due to our RTU's being obsolete and dropping occasionally from the network. We are planning for additional upgrades at the Bechtol and Cherry Substations in 2023.

Power Plant employees were once again successful during the peak shaving season of 2022. AEP's highest load hour of the year, called the Coincident Peak (ICP), occurred on June 22nd at 4 p.m. The projected transmission savings earned for the ICP at the Power Plant is \$3,563,529. Additionally, the Auglaize Hydroelectric Plant projected savings are \$362,889 and the Bryan Solar Field savings are \$126,663. The combined total is projected to save the City of Bryan \$4,053,080 in transmission costs that will be applied to power bills in the coming year.

On the capacity side, we were successful and generated during all of PJM's (Pennsylvania-New Jersey-Maryland) five highest loads during summer weekdays, known as the 5 Capacity Peak (5CP) days, projecting savings of \$440,229 from the Power Plant. The Auglaize Hydroelectric Plant generated savings of \$43,008 and the Bryan Solar Field an additional \$12,501. These savings were lower than previous years, due to the lower cost per megawatt of generation being charged. The combined projected total for PJM capacity savings earned this year is \$495,738, which will lower power bills June 2023 through May 2024. In total, our 2022 peak shaving season earned a total savings of \$4,548,818 in transmission and capacity costs for our Bryan electric customers.

These projected savings are consistent with previous years due to transmission costs increasing. These cost saving efforts are also a credit to our residential, business, and industrial customers as well as our city departments in heeding our requests to lower their energy usage during peak energy events.

In 2022, Bryan Municipal Utilities received \$150,428 for RECs (Renewable Energy Credits) for generation from the Auglaize Hydroelectric Plant and the Bryan Solar Field. This continues to be an added source of revenue to help offset power supply costs, while helping our environment as well. Additionally, we are looking at opportunities to certify our renewable energy resources in other states that may pay for RECs at a higher premium.

With the purchase of the solar array equipment at the Bryan Solar Field in 2022, we were able to renegotiate the contract for the operation and maintenance of the solar field. Our employees have taken over maintenance of the solar field grounds lowering a portion of these power supply costs. Together with the savings from ending the lease and purchasing the solar array equipment outright, this Bryan asset will continue to help keep power supply costs down for many years to come.

Power Plant employees were also able to repair several head gates at the Auglaize Hydroelectric Plant. These head gates deteriorated and began to allow water to seep through. Repairs saved approximately \$50,000 in expenses compared to completely replacing them. The Auglaize Hydroelectric Plant has five pairs of head gates, we will continue to repair them, as long as we can, to provide the City of Bryan with added savings.



## 2022 POWER SUPPLY

Gross Kilowatt Hours Generated by Power Plant	2,756,542
Gross Kilowatt Hours Generated by Auglaize Hydro	8,459,440
Gross Kilowatt Hours Generated by Solar Field	2,578,640

<b>Total Gross Kilowatt Hours Generated</b>	<b>13,794,622</b>
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Kilowatt Hours Purchased:	
Belleville Hydroelectric Project (JV5)	8,318,340
New York Power Authority (NYPA)	6,750,505
AMP Fremont Energy Center (AFEC)	44,041,511
Prairie State Energy Campus	58,422,963
Blue Creek Wind Farm	3,174,760
BP Remaining Requirements	65,774,280
Meldahl Hydroelectric Project	7,302,495
Greenup Hydroelectric Project	4,012,303
AMP Hydroelectric Projects (CSW)	9,634,748

<b>Total of Gross Kilowatt Hours Purchased</b>	<b>207,431,905</b>
<b>Gross Generated and Purchased Kilowatt Hours</b>	<b>221,226,527</b>

Kilowatt Hours Used:

<b>Customer Metered Kilowatt Hours</b>	<b>176,937,948</b>
OMEG Kilowatt Hours Sold	18,473,615
TEA (The Energy Authority) Kilowatt Hours Sold	10,536,000
Auglaize Kilowatt Hours Sold	1,084,828
Power Plant Use	878,491
Kilowatt Hour Line Loss (6.02%)	13,315,645

<b>Total Metered and Line Loss</b>	<b>221,226,527</b>
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# WATER DEPARTMENT



**THE BRYAN WATER DEPARTMENT** is committed to delivering a consistent and safe supply of drinking water to the residents of Bryan. Our dedicated employees focused on upgrading major assets within the water treatment plant and distribution system in 2022. These projects not only assist with delivering safe drinking water but also providing reliable fire protection to residents and businesses.

In 2022, Water Treatment Plant employees were responsible for treating 508 million gallons of drinking water and analyzing 419 bacteria samples. Certified water operators sampled for lead and copper, disinfection byproducts, inorganics, volatile organic chemicals, nitrates, and nitrites. All testing met or exceeded Ohio Environmental Protection Agency regulations. Along with meeting regulations, crews focused on the rehabilitation of the south high-pressure filter. Each filter consists of sand and gravel media, baffle plates and a common underdrain. The sand and gravel media, which was original to 1973, effectively removes iron and manganese from our drinking water. Due to age and performance the filter was inspected, cleaned and 3,800 cubic feet of new filter media was installed.

Additionally, both the Fountain City Water Tower and the Bryan Water Tower coating systems were visually inspected and analyzed. After review, it was determined that the Bryan Water Tower needed a new exterior paint coat. As this project evolved, the City of Bryan, Bryan Municipal Utilities and Spangler Candy Company collaboratively created a design to be painted on the Bryan Water Tower that would be attractive and create a strong sense of community pride. This improvement was a spotlight for the community in 2022, as the award-winning international artist Eric Henn completed the Dum-Dum mural.

Another impressive accomplishment for the Water Department was the installation of the 500 kW CAT generator and automatic transfer switch at the Water Treatment Plant. Employees across all departments played an important role in the installation process. Stand-by backup generation provides reliability in the event of an extended power outage. The City of Bryan currently consumes on average 1.3 million gallons of water per day, this critical piece of equipment allows those demands to be continuously met.

Water Distribution crews were able to complete two water main replacement projects and one water main extension project. The first water main replacement project was in the 1000 – 1100 blocks of Alpine Drive. This project consisted of installing 506 feet of six-inch PVC waterline, one fire

hydrant, and four water services. The second water main replacement project was in the 500 - 600 blocks of East Bryan Street. Crews installed 705 feet of 12" PVC waterline, one fire hydrant and 15 water services. In addition, existing water main was extended by 2,381 feet with eight-inch PVC waterline, along County Road D to serve the Airmate Company, this project also added four new fire hydrants and one new water service. Over the course of the year six new water services and seven new fire hydrants were added to the distribution system. Water main replacements and distribution system upgrades greatly improve our infrastructure and increase water service reliability and firefighting capabilities.

To close out 2022, The City of Bryan hosted the American Water Works Association's Ohio Northwest District meeting, more than 70 water professionals from throughout the State of Ohio attended this event. As a long-time member, the AWWA provides water operators nationally with continuing education in managing and treating water, the world's most vital resource. Looking forward to 2023, Bryan Municipal Utilities will continue its tradition of putting their customer's first and ensuring the delivery of safe drinking water.







## WATER OPERATING INCOME AND EXPENSES

2022

Operating Income:		
	Charges for Services	\$2,765,596
	Other Operating Income	6,327
<b>Total Operating Income</b>		<b>\$2,771,923</b>
Other Income		
	Interest Income	\$51,071
	Other Miscellaneous Income	18,530
	Water Tower Donation	266,073
<b>Total Other Income</b>		<b>\$335,674</b>
<b>Total Income</b>		<b>\$3,107,597</b>
Operating Expenses		
	Supply and Distribution	\$1,666,912
	Billing and Accounting	125,487
	Customer Service and Administration	325,918
	Interest on S. Walnut/E South St Project	1,942
	Interest on Townline Rd Project	7,550
	Interest on AMI Loan	26,313
<b>Total Expenses</b>		<b>\$2,154,122</b>
<b>Balance Available for Capital Improvements &amp; Debt Service</b>		<b>\$953,475</b>
Debt Service - S. Walnut/E South St Project		
Balance - January 1, 2022		\$80,424
Principal Payment		<b>53,230</b>
Balance - December 31, 2022		\$27,194
Debt Service - Townline Rd. Project		
Balance - January 1, 2022		\$274,114
Principal Payment		<b>33,287</b>
Balance - December 31, 2022		\$240,827
Transfer to 525 Water Capital Improvement Fund		<b>\$1,470,000</b>
<b>Total Expenses</b>		<b>\$3,710,639</b>

## WATER CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2022		\$714,580
Transfer Income:		
502 Water Fund		\$1,470,000
Revolving Loan Fund		50,000
Total Transfer Income:		\$1,520,000
Other Income:		
Misc. Income		\$0
Airmate Donation		245,228
Total Other Income		\$245,228
Total Income		\$1,765,228
Capital Expenses:		
	Supply and Distribution	\$1,015,003
	Water Utility Office	6,911
	Water Clerks Office	0
Total Capital Improvements		\$1,021,914
Ending Balance 12/31/2022		\$1,457,894



## 2022 WATER PRODUCTION DATA

	Meters	Gallons Used
Residential	3,257	130,360,692
Commercial & Industrial	600	209,666,644
City of Bryan (Unbilled Service)	21	26,291,586
<b>Total Metered</b>	<b>3,878</b>	<b>366,318,922</b>
Bulk Water & Hydrant Water (Billed)		411,897
Filter Backwash/Production Water		2,143,175
Hydrant Flushing		5,500,000
Other		0
<b>Total Other Water Use</b>		<b>8,055,072</b>
Line Losses (26.4%)		134,285,006
<b>Total Water Production</b>		<b>508,659,000</b>



# COMMUNICATIONS DEPARTMENT



# COMMUNICATIONS FINANCIALS

## IN 2022, THE COMMUNICATIONS DEPARTMENT

continued to operate within the City of Bryan and Williams County. We continued to deliver services to our customers, including Internet, and Fiber Network services.

This was a year of change for the department, and this began with the decision to discontinue the Cable Television service. Due to significant and continued increases in programming fees, we determined that it was no longer feasible to deliver cable programming to our customers. Technology in the industry has changed greatly over the last several years and the current trend nationwide is moving toward internet streaming for these entertainment products. Bryan Cable TV service was unfortunately discontinued on May 31, 2022. We care about our customers and were able to assist them with the transition as we continued to offer internet service for their television viewing needs.

To ensure that our customers can use our products to browse and stream their favorite content, we installed an upgrade to our internet network that will provide reliable service for our customers in the event of interruption from our bandwidth providers.

Several network projects were completed, including the upgrade to our main routing equipment. This equipment controls all the internet and network traffic throughout the Bryan system for our customers, city departments, and the utility.

The Communications Department also completed several fiber and network projects in 2022. This included an upgrade to one of our main fiber routes, which provides service and communications to our internal departments, as well as our fiber customers.

We also completed installation of our fiber network and infrastructure for the AMI project, which will enable Bryan Municipal Utilities to remotely measure electric and water meters. This system has been in operation since early 2022 and takes our internal network to a new level in utility technology. We also installed new fiber for some of our customers within the City of Bryan and continued to maintain service and reliability to our existing customers.

We began planning and engineering for Communication services to be installed into a new electrical substation within the system, which will connect the new facility to all our other power supply locations within the City of Bryan.

In 2023, we plan to construct another fiber route within the downtown section of Bryan. This new fiber loop will provide service to both City, County, and other business customers in the area. This will also provide additional fiber availability for future growth.

We also plan to upgrade our main Headend, which is the home of our network and the communication systems that originate in our facility. This upgrade will provide reliability and redundancy for our main equipment and provide for future expansion. This network serves Bryan Municipal Utilities, the City of Bryan, and many Williams County services, as well as the school system in much of the area.

In 2022, the Communications Department continued to broadcast the BPA and Council meetings, by utilizing streaming technology. These meetings are live streamed, as well as placed on our website for future viewing and reference.



*The communications industry has been going through constant transition over the past several years, and there seems to be no slowing of these changes. The move toward broadband and streaming activity is driving those trends. In order to keep up with the direction of our industry, we must adapt as much as possible to continue our service to our customers, and the residents of Bryan. BMU and our Communications Department must plan for these challenges, while always working to maintain the network services that are essential to the delivery of not only our department services to the public, but our electric and water systems. We deeply appreciate and are truly fortunate to serve our customers. We will continue to strive to deliver good products and services, as we are your local hometown provider of internet, and fiber optic services.*

## COMMUNICATIONS INCOME & EXPENSES

2022

Operating Income:		
	Charges for Services	\$1,407,836
	Other Operating Income	1,572
Total Operating Income		\$1,409,408
Other Income:		
	Interest Income	\$23,553
	Other Miscellaneous Income	2,384
Total Other Income		\$25,937
Total Income		\$1,435,345
Operating Expenses:		
	Supply and Distribution	\$1,495,523
	Billing and Accounting	102,672
Total Expenses		\$1,598,195
Balance Available for Capital Improvements & Debt Service		-\$162,850
Transfer to Communications Capital Improvement Fund		\$47,000
Total Expenses		\$1,645,195

## COMMUNICATIONS CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2022		\$109,390
Transfer Income:		\$47,000
Capital Expenses:		
	Communications	\$43,872
	Clerks Office	0
Total Capital Improvements		\$43,872
Ending Balance 12/31/2022		\$112,518





# FIVE YEAR SUMMARY



# FIVE YEAR SUMMARY

## ELECTRIC DEPARTMENT

Finances	2022	2021	2020	2019	2018
Income	\$20,720,671	\$19,700,187	\$18,925,398	\$20,388,803	\$21,298,889
Expenditures	17,421,789	17,577,089	16,841,184	16,971,859	18,370,299
Margin	\$3,298,882	\$2,123,098	\$2,084,214	\$3,416,944	\$2,928,590
Capital Improvements	0	0	0	0	620,339
Fund Transfers Out	4,050,637	1,043,000	1,300,000	4,573,779	26,066
Fund Balance Dec. 31	\$11,439,091	\$12,190,846	\$11,110,748	\$10,326,534	\$11,483,370

### Meters

Residential	5,059	5,066	5,066	5,049	5,062
Commercial	690	700	697	707	706
Industrial	54	54	56	58	57
Unbilled Services	242	239	238	235	234
*Total Meters	6,045	6,059	6,057	6,049	6,059

### kWh Used

Residential	46,517,662	46,237,536	46,499,234	46,209,590	48,568,070
Commercial	23,213,040	23,066,681	22,868,649	24,689,213	26,231,622
Industrial	100,856,861	97,702,402	93,933,805	105,540,919	110,366,910
Unbilled Services	6,350,385	6,516,045	6,207,992	7,127,859	6,458,487
Total kWh	176,937,948	173,522,664	169,509,680	183,567,581	191,625,089
Peak Demand (kilowatts)	38,176	38,098	37,758	37,533	39,783

## WATER DEPARTMENT

Finances	2022	2021	2020	2019	2018
Income	\$3,107,597	\$2,589,029	\$2,438,621	\$2,353,208	\$2,186,977
Expenditures	2,154,122	1,657,694	1,760,174	1,692,051	1,575,959
Margin	\$953,475	\$931,335	\$678,447	\$661,157	\$611,018
Capital Improvements	0	0	0	15,736	159,454
Fund Transfers Out	1,470,000	227,677	100,005	996,905	352,893
Debt Service	86,517	84,086	81,722	64,241	23,899
Fund Balance Dec. 31	\$2,105,061	\$2,708,103	\$2,088,531	\$1,591,811	\$2,007,536

### Meters

Residential	3,257	3,253	3,246	3,239	3,238
Commercial & Industrial	600	601	608	601	609
Unbilled Services	21	21	22	27	31
*Total Meters	3,878	3,875	3,876	3,867	3,878

### Gallons Used

Residential	130,360,692	134,126,872	141,783,400	130,197,628	136,831,640
Commercial & Industrial	209,666,644	171,416,916	159,395,808	178,165,372	190,389,936
Unbilled Services	26,291,586	27,337,576	22,106,867	23,265,356	23,918,057
Total Gallons	366,318,922	332,881,364	323,286,075	331,628,356	351,139,633

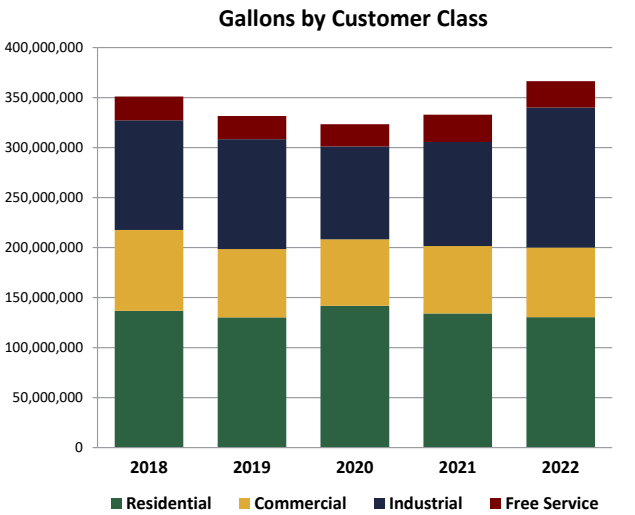
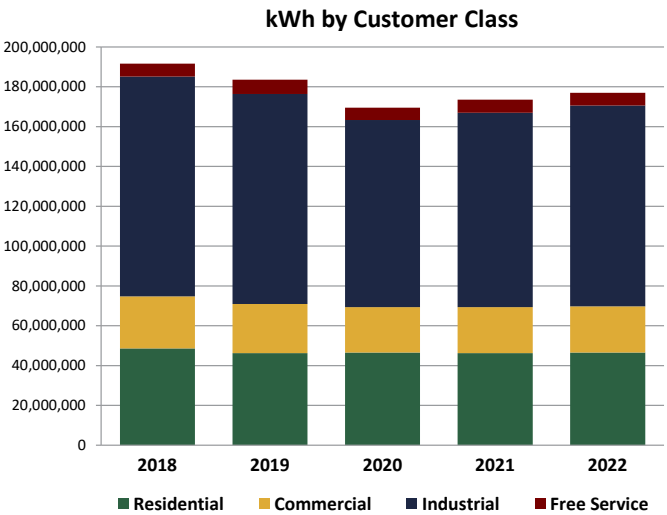
## COMMUNICATIONS DEPARTMENT

Finances	2022	2021	2020	2019	2018
Income	\$1,435,345	\$2,193,537	\$2,400,387	\$2,474,493	\$2,455,804
Expenditures	1,598,195	2,372,074	2,329,432	2,337,172	2,236,810
Margin	-\$162,850	-\$178,537	\$70,955	\$137,321	\$218,994
Capital Improvements	0	0	0	14,651	191,837
Fund Transfers Out	47,000	53,510	53,250	55,000	125,858
Debt Service	0	0	0	0	0
Fund Balance Dec. 31	\$1,861,254	\$2,071,104	\$2,303,151	\$2,285,446	\$2,217,776

### Customers

Cable TV Billed Services	0	1,217	1,196	1,308	1,446
Cable TV Unbilled Services	0	22	22	21	20
Total Cable TV Customers	0	1,239	1,218	1,329	1,466
Internet Residential	1,062	1,404	1,486	1,524	1,455
Internet Commercial/Industrial	85	86	84	89	99
Internet Unbilled Services	17	15	15	15	15
Total Internet Customers	1,164	1,505	1,585	1,628	1,569
Fiber Commercial/Industrial	24	25	25	25	25
Fiber Unbilled Services	15	14	14	13	14
Total Fiber Customers	39	39	39	38	39
*Total Customers	1,203	2,783	2,842	2,995	3,074

\*End of Year Meter and Customer Counts





# ENGINEERING DEPARTMENT



**THE BMU ENGINEERING DEPARTMENT** plays a key role in assisting all Departments at Bryan Municipal Utilities and provides administration of utility projects from conception to completion. The daily activities are undertaken with the perspective of providing quality services that are responsive to the needs of our customers and include:

- Design plans, specifications, plan approval and estimates in accordance with each department's capital improvement plan.
- Manage the protection of underground and overhead utilities, from investigating utility damages to managing and updating records of locating services. In 2022, the Department completed 2,094 regular locates and 12 after-business hours utility emergency locates.
- Project competitive bidding and quotation.
- Obtain easements and provides oversight for work completed in city right-of-way for BMU projects.
- Furnish plans and information as requested by contractors and engineers.
- Plan review for public and private projects involving our utilities.

- Update records and drawings of electric, generation, water, and communications utilities and final as-built utility plans to be maintained and used for future generations.

- Prepare departmental reports, studies, maps, and other items of interest for administration, BPA, and the public.

The BMU Engineering Department gathers accurate data and performs survey and stake out work using our (GPS) Geographic Positioning Systems. Our department manages and maintains BMU's Geographic Information System (GIS) which contains accurate records of all Bryan utilities. These records greatly improve customer service, project planning, along with asset management.

The improvements and daily tasks make the community safer and better equipped in providing essential communications, electric, and water utilities and make Bryan more attractive for development. BMU has a great team in Engineering who strives every day to become more efficient and achieve better results. The Department prides themselves on responsive and high-quality customer service. Managing Bryan's utility infrastructure is a very important responsibility with which the Department is honored to be entrusted. The Department is proud of the accomplishments in 2022 and look forward to continued improvements in 2023.



# UNBILLED UTILITY SERVICES

## 2022 UNBILLED UTILITIES

	Electricity	Water	Communications
Street and Security Lights	\$90,054	\$0	\$0
Utility Departments, Buildings & Facilities	268,235	22,015	64,974
Parks, Pools & Other Recreational Areas	60,373	41,153	2,964
Bryan Community Center	6,916	700	1,093
Municipal Departments, Buildings & Facilities	350,096	71,911	96,774
County Miscellaneous Facilities	2,369	0	5,187
Traffic Signals	13,245	0	0
Bryan City Schools	2,703	0	16,384
Day in the Park, Jubilee, Christmas Lights	1,955	845	0
Bard Fountain	4,542	563	0
Other	0	0	9,793
<b>Unbilled Utilities</b>	<b>\$800,488</b>	<b>\$137,187</b>	<b>\$197,169</b>

## ELECTRIC DEPARTMENT

### Maintenance Services (Labor & Equip.) Provided

Street Light Installation and Maintenance	\$50,054
All Other City Services and Civic Organizations	38,115

<b>Total Unbilled Maintenance (Labor) Provided including Equipment</b>	<b>\$88,169</b>
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### Materials Provided

New Street Lights and Replacements	\$40,418
All Other City Services & Civic Organizations	0

<b>Total Unbilled Materials Provided</b>	<b>\$40,418</b>
<b>Total Unbilled Electricity Provided</b>	<b>\$800,488</b>
<b>TOTAL LABOR, MATERIALS and ELECTRICITY</b>	<b>\$929,075</b>

## WATER DEPARTMENT

### Maintenance Services (Labor) Provided

Installation and Services to City Facilities	\$17,702
Installation and Maintenance of Fire Hydrants	0
Equipment	10,093

<b>Total Unbilled Maintenance (Labor) Provided including Equipment</b>	<b>\$27,795</b>
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### Materials Provided

Water Lines and Services to City Facilities	\$0
New Fire Hydrants and Replacements	27,050

<b>Total Unbilled Materials Provided</b>	<b>\$27,050</b>
<b>Total Unbilled Water Provided</b>	<b>\$137,187</b>
<b>TOTAL UNBILLED LABOR, MATERIALS, and WATER</b>	<b>\$192,032</b>

## COMMUNICATIONS DEPARTMENT

### Maintenance Services (Labor) Provided

Installation and Services to City Facilities	\$419
Installation and Services to Bryan City Schools	0

<b>Total Unbilled Maintenance (Labor) Provided including Equipment</b>	<b>\$419</b>
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### Materials Provided

Cable and Accessories for Services to City Facilities	\$183
Cable and Accessories for Services to Bryan City Schools	0

<b>Total Unbilled Materials Provided</b>	<b>\$183</b>
<b>Total Unbilled Communications Provided</b>	<b>\$197,169</b>
<b>TOTAL UNBILLED LABOR, MATERIALS, AND COMMUNICATIONS</b>	<b>\$197,771</b>

<b>TOTAL UNBILLED UTILITY SERVICES</b>	<b>\$1,318,878</b>
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