



# 2021

BMU ANNUAL REPORT





# 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.*

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# 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 and are broadcast live for the public on BMU's Video YouTube Channel.

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.





# MANAGEMENT REPORT

**2021 WAS ANOTHER BUSY YEAR** for Bryan Municipal Utilities (BMU), recovering from a pandemic and an economic downturn. BMU continued moving forward in spite of the challenges we faced.

One of our objectives for 2021 was to see improvements in sales and revenue over 2020. It seems an easy ambition coming out of a pandemic; however, it was uncertain of how the pandemic and new variants would impact BMU in 2021. Would the economy rebound?

Bryan Municipal Utilities as a whole did realize an increase in revenues and a decrease in expenses. This focus on our financial state, allowed us to move forward to continue our tradition of investing in our infrastructure, although at times with limited staff.

**WORK FORCE CHALLENGES**, the year introduced challenges in our workforce as also seen across the country. Retirements, resignations, and labor shortages hit BMU. Open positions held in 2020 due to the pandemic, left voids in our workforce that were magnified in 2021 as many projects picked back up.

In spite of these challenges BMU was able to accomplish and lay the groundwork for some very big projects for the community.

## OUR COMMUNITY

Bryan Municipal Utilities is a community owned, not for profit provider of communications, electric and water services for the Bryan area. BMU works to support the quality of life in our community we all enjoy and looks for ways to work together to improve our community.

## COORDINATION WITH LOCAL CITY DEPARTMENTS

The Bryan Board of Public Affairs passed a resolution authorizing the demolition and removal of city-owned homes that were deteriorating and consequently becoming unsafe. Working together, various City departments contributed to the appropriate testing, prepping, demolition and eventual disposal and restoration of these properties. Our local Fire & Police Departments also utilized these homes for training purposes prior to the demolition and their return to green space.

## ADVANCED METERING INFRASTRUCTURE (AMI)

The BPA also passed legislation to enter into various agreements for an AMI system. Affordable financing options became a reality by means of 10-year Electric and Water Revenue Bonds for the purpose of purchasing AMI equipment for the City's electric and water system. BMU Departments worked together in auditing, planning and purchasing the necessary equipment for this major project. We look forward towards implementing a long-awaited AMI system in 2022 and realizing all the benefits for our customers and the utility for years to come.

**BRYAN SOLAR FIELD**, a presentation and discussion on the Bryan Solar Field yielded the BPA to authorize a final agreement with Key Government Finance. The 2 MW Solar Array Project constructed on property owned by the City of Bryan through a 10-year Master Lease Agreement with Key Government Finance outlined various options to consider at the end of the Project's lease in 2022. On September 7, 2021, BPA authorized a Purchase Option Agreement with Key Government Finance to purchase the solar array equipment at the end of the lease for an agreed fair market value of \$397,000. In February of 2022, the final payment to Key Government Finance will transfer all of the rights, title and interest in and to the solar array equipment to the City of Bryan. This will help to reduce power supply costs for our customers and provide reliable, renewable "green energy" for the benefit of our customers.

**GOOD NEIGHBORS UTILITIES FUND** continues to help those in need. This fund started 2021 healthy due to the compassion of our Bryan customers following a pandemic year of record donations. Requests for assistance were down from 2020, from 50 families to 35 families in 2021, and we were thankful that this program was there and ready to assist those families. We want to thank those that have donated to this fund and continue to help our Bryan neighbors in need.

**ELECTRIC COST OF SERVICE STUDY** was completed by Sawvel & Associates in 2021. This full cost of service study looked at revenues and expenses to ensure the Utility remains financially sound, while funding operation and maintenance, and capital improvement expenses. After a pause due to the 2020 pandemic, a multiyear electric rate plan went into effect in November 2021. These rates will aid in the financial security of your Electric Utility going forward, especially as prices for many of our day-to-day operations and projects continue to increase.

**THANK YOU** to all our customers, employees, suppliers, and vendors for their continued support of our Utility. Working together, I look forward to the achievements we will experience this year.



Nathan Gardner  
Bryan Municipal Utilities Director





# FINANCIAL HIGHLIGHTS

## ELECTRIC DEPARTMENT

	2021	2020	Change	%Change
<b>Operations</b>				
Income	\$19,700,187	\$18,925,398	\$774,789	4.1%
Expenses	17,577,089	16,841,184	735,905	4.4%
Margin	\$2,123,098	\$2,084,214	\$38,884	1.9%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Capital Improvements Reserve Fund	1,043,000	1,300,000	-257,000	-19.8%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$14,539,215</b>	<b>\$13,744,236</b>	<b>\$794,979</b>	<b>5.8%</b>
<b>Total Meters</b>	<b>6,059</b>	<b>6,057</b>	<b>2</b>	<b>0.03%</b>
<b>Total Metered kWh</b>	<b>173,522,664</b>	<b>169,509,680</b>	<b>4,012,984</b>	<b>2.4%</b>
<b>Peak Demand (kilowatts)</b>	<b>38,098</b>	<b>37,758</b>	<b>340</b>	<b>0.9%</b>

## WATER DEPARTMENT

<b>Operations</b>				
Income	\$2,589,029	\$2,438,621	\$150,408	6.2%
Expenses	1,657,694	1,760,174	-102,480	-5.8%
Margin	\$931,335	\$678,447	\$252,888	37.3%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Debt Service	84,086	81,722	2,364	2.9%
418 Industrial Park North Fund	-62,323	62,323	-124,646	-200.0%
Capital Improvements Reserve Fund	290,000	37,682	252,318	669.6%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$3,597,774</b>	<b>\$2,397,437</b>	<b>\$1,200,337</b>	<b>50.1%</b>
<b>Total Meters</b>	<b>3,875</b>	<b>3,876</b>	<b>-1</b>	<b>-0.03%</b>
<b>Total Metered Gallons</b>	<b>332,881,364</b>	<b>323,286,075</b>	<b>9,595,289</b>	<b>3.0%</b>

## COMMUNICATIONS DEPARTMENT

<b>Operations</b>				
Income	\$2,193,537	\$2,400,387	-\$206,850	-8.6%
Expenses	2,372,074	2,329,432	42,642	1.8%
Margin	-\$178,537	\$70,955	-\$249,492	-351.6%
<b>Finance</b>				
Capital Improvements	\$0	\$0	\$0	0.0%
Capital Improvements Reserve Fund	53,510	53,250	260	0.5%
<b>Total Fund Balances Available Dec. 31</b>	<b>\$2,180,494</b>	<b>\$2,391,215</b>	<b>-\$210,721</b>	<b>-8.8%</b>
<b>Total Customers</b>	<b>2,783</b>	<b>2,842</b>	<b>-59</b>	<b>-2.1%</b>

## 2021 HIGHLIGHTS

## 2021 ELECTRIC UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2020	Income	Expenditures	Capital	Balance Dec. 31, 2021
Electric Fund	\$11,110,748	\$19,700,187	\$17,577,089	\$0	\$12,190,846*
Electric Capital Improvement Fund	\$2,462,350	2,064,647	0	2,353,719	\$2,173,278**
Utility Deposit Fund	\$171,138	33,632	29,679	0	\$175,091
<b>TOTAL</b>	<b>\$13,744,236</b>	<b>\$21,798,466</b>	<b>\$17,606,768</b>	<b>\$2,353,719</b>	<b>\$14,539,215</b>

\* \$1.043 Million Transferred to Electric Capital Improvement Fund

\*\* \$1.02 Million AMI Loan Proceeds Received

## 2021 WATER UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2020	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2021
Water Fund	\$2,088,531	\$2,589,029	\$1,657,694	\$0	\$84,086	\$2,708,103*
Water Capital Improvement Fund	\$137,768	1,491,515	0	914,703	0	\$714,580**
Utility Deposit Fund	\$171,138	33,632	29,679	0	0	\$175,091
<b>TOTAL</b>	<b>\$2,397,437</b>	<b>\$4,114,176</b>	<b>\$1,687,373</b>	<b>\$914,703</b>	<b>\$84,086</b>	<b>\$3,597,774</b>

\* \$62,323 Advance Returned from 418 Industrial Park North Project

\* \$290,000 Transferred to Water Capital Improvement Fund

\*\* \$1.20 Million AMI Loan Proceeds Received

## 2021 COMMUNICATIONS UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2020	Income	Expenditures	Capital	Balance Dec. 31, 2021
Communications Fund	\$2,303,151	\$2,193,537	\$2,372,074	\$0	\$2,071,104*
Communications Capital Fund	\$88,064	53,510	0	32,184	\$109,390
<b>TOTAL</b>	<b>\$2,391,215</b>	<b>\$2,247,047</b>	<b>\$2,372,074</b>	<b>\$32,184</b>	<b>\$2,180,494</b>

\* \$53,510 Transferred to Communications Capital Improvement Fund



# ELECTRIC DEPARTMENT

**THE BRYAN ELECTRIC DEPARTMENT** has made great strides in improving the electric system this year. The major project completion of the Industrial Park Substation in 2020 has initiated projects that involved the rebuilding of major circuits that were previously fed through the Daggett Substation. The Electric Department has also completed the 34.5 kV System Upgrade Project that involved projects to move the circuits-only customer, Titan Tire, from the 34.5 kV system to the new 69 kV system. The 34.5 kV upgrade project is another step in the completion of our 5 year capital project goals. We have also worked diligently with all departments in 2021 to make the AMI metering system upgrade vision possible and look forward to continuing the building of the AMI system in 2022.

Many projects have been worked on and completed in 2021 that not only advanced our major capital system improvements, but have also kept up with our minor system upgrade goals that come up year after year. The Electric Department built overhead three phase lines for Industrial Park Substation Feeder #1, Feeder #2 and Feeder #4. These feeder installations were both built on individual poles along with being underbuilt on existing transmission pole lines. Industrial Park Substation Feeder #1 assumed the load of Daggett Substation Feeder #1. Industrial Park Substation Feeder #2 was constructed towards the south for a future circuit that will run along the southern property line of Titan Tire and make a termination at S. Union St. Industrial Park Substation Feeder #4 was constructed to support the load of the Industrial Park South, this Feeder #4 has opened up some capacity on the old Daggett Feeders #1 & #2 and which is now the Industrial Park Substation Feeder #1 circuit. The construction of the Industrial Park Substation Feeders, allow the division of load allocated across more circuits than what it was with the Daggett Substation distribution circuit divisions.

**“Many projects have been worked on and completed in 2021 that not only advanced our major capital system improvements, but have also kept up with our minor system upgrade goals that come up year after year.”**

Also, the Electric Department was greatly involved in the process to convert Titan Tire Substation from 34.5 kV to a 69 kV primary feed. We constructed a temporary 34.5 kV line around the Titan Tire Substation to continue to connect the 34.5 kV system from the Power Plant's generation to the Daggett Substation's 34.5 kV to 69 kV transformer. We also constructed a 69 kV pole line from the Industrial Park Substation to the new transformers at Titan Tire's Substation. Connections to the pull off structure including the 69 kV metering verification was achieved by the Electric Department to finalize the Titan Tire upgrade project.

The department also provided new primary electric services to Dollar General, Schlachter Investments, and the Yanfeng Warehouse. We also completed underground replacement projects at Palmer Lane and E. Wilson St., Ditch 40 and E. Wilson St., 600 Block of E. South St., and in the 100 block of E. High St. The Electric Department assisted with the installation of 6" conduit at the Water Treatment Plant for the backup generator and also constructed street light projects at both Belmont and Parkview Avenues. We were also called upon to provide Mutual Aid Assistance for storm damage in the AMP communities of Hillsdale, Michigan twice, as well as Coldwater, Michigan.

In Conclusion, the Electric Department had another busy year. This doesn't represent all the department's duties that are performed daily. The Electric Metering Department reads around 10,000 Electric and Water meters monthly. The Electric Department normally cut trees and manages line clearance for both City and Utility needs. The Department also assists other City Departments with a multitude of jobs; too many to list, that is reciprocated by the City Departments helping our department with a host of daily tasks. The Electric Department had a great year in 2021, and we look to continue that in 2022 by continuing to invest in our electric infrastructure and provide reliable service for our Bryan customers.





# ELECTRIC FINANCIALS

ELECTRIC OPERATING INCOME AND EXPENSES		2021
Operating Income:		
	Charges for Services	\$19,258,457
	Other Operating Income	246,088
Total Operating Income		\$19,504,545
Other Income:		
	Interest Income	\$19,513
	Other Miscellaneous Income	176,129
	Transfer Income	0
Total Other Income		\$195,642
Total Income		\$19,700,187
Operating Expenses:		
	Purchase Power	\$10,811,880
	Power Plant Operations	1,398,053
	Solar Lease	658,285
	Distribution Operations	1,786,315
	Billing and Accounting	336,205
	Customer Service and Administration	920,340
	Maintenance	104,098
	Board of Public Affairs	32,159
	Electric Communications	381,619
	Hydroelectric Plant Operations	444,108
Total Operating Expenses		\$16,873,062
Other Expenses:		
	Kilowatt Hour Tax to State of Ohio	\$65,774
	Kilowatt Hour Tax to General Fund	638,253
Total Other Expenses		\$704,027
Total Expenses		\$17,577,089
Balance Available for Capital Improvements and Debt Service		\$2,123,098
Transfer to Electric Capital Improvement Fund		1,043,000
Total Expenses		\$18,620,089



## ELECTRIC CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2021		\$2,462,350
Transfer Income:		\$1,043,000
Other Income:		
	Land Sale	\$1,500
	Other Miscellaneous Income	0
	Loan Proceeds (AMI)	\$1,020,147
Total Other Income		\$1,021,647
Total Income		\$2,064,647
Capital Expenses:		
	Power Plant	\$2,034,847
	Electric Distribution	263,754
	Electric Utility Office	0
	Electric Clerks Office	0
	Auglaize Hydroelectric Plant	49,253
	Electric Communications	5,865
Total Capital Improvements		\$2,353,719
Ending Balance 12/31/2021		\$2,173,278





# POWER PRODUCTION

## POWER PLANT

Power plant employees were focused this year on continuing to improve the reliability of the Bryan Municipal electrical grid. The 34.5 kV upgrade from the Industrial Substation to Titan Tire was completed. This provided our last external customer on the 34.5 kV system to be upgraded and placed on the 69 kV transmission line in Bryan. The Bryan Power Plant is the only substation still on the 34.5 kV transmission system. Work on upgrading this substation has begun with the engineering portion nearing completion. This substation will be upgraded in stages, as Bryan Municipal Utilities has developed an installation plan that will allow BMU employees to do the majority of the installation and allow us 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 the BMU power plant employees, as well as other BMU departments providing assistance.

In 2021, the final Westinghouse 191 generator was upgraded from the 1971 pneumatic controls to the latest Allen-Bradley programmable logic controls. This only leaves the GE frame 3 on its old control system. Once the power plant's substation is completely on the 69 kV system, and the old 34.5 kV system de-energized, we will begin the process of looking at upgrading the GE's control system for better reliability.

The power plant employees once again were successful during the peak shaving season of 2021. AEP's high transmission 1CP (Coincident Peak) occurred on August 24th at 5 p.m., the projected savings for the 1 CP this year is \$3,544,478 in annual costs. With the Auglaize Hydroelectric Plant's projected savings of \$154,777 and the Bryan Solar Field savings of \$162,664, we anticipate a total combined saving of \$3,861,919 in transmission costs. On the capacity side, we were successful and caught all of PJM's (Pennsylvania-New Jersey-Maryland) 5 CP capacity peaks providing a savings of \$673,740 from the Power Plant. The

Auglaize facility generated savings of \$44,300 and the solar field gave us an additional \$19,573. The PJM capacity savings for this year is \$737,613. With these results, we are anticipating saving a total of \$4,599,532 in transmission and capacity costs for our Bryan electric customers in 2022.

## AUGLAIZE/SOLAR

BMU sold REC's (renewable energy credits) of \$136,235.80 from the Auglaize Hydroelectric Plant and Bryan Solar Field in 2021. This continues to be an added source of income for the community in reducing future cost increases.

Along with the savings from having water and sun for generation during peak shaving hours, we continue to learn and find ways to increase production from the Auglaize plant. The power plant employees were able to repair a couple of head gates at the Auglaize facility. These head gates had deteriorated and allowed water to seep through. These repairs saved approximately \$50,000 from costs to completely replace a pair of head gates. The Auglaize facility has 5 pairs of these head gates and we will continue to repair them, as long as we can, to provide Bryan with added savings.

2021 was the final full year for the Bryan Solar Field equipment lease, which required BMU to consider whether to plan for the purchase or the return of the solar equipment in 2022. Nathan Gardner, BMU Director, negotiated with Key Bank, the lease holder, to purchase the solar array equipment for \$397,000. The solar equipment was originally purchased by Key Bank for \$7,420,000, and leased to BMU for yearly payments of \$607,648. With Mr. Gardner's negotiations and upon consideration of cost opportunities, the Board of Public Affairs approved to purchase the solar array equipment in 2021, with possession to take place in 2022. We anticipate a substantial yearly savings for BMU in solar power costs for years to come, as this 2-megawatt solar field will continue to help keep rates low for our Bryan customers, as well as help the environment.

# POWER SUPPLY DATA

## 2021 POWER SUPPLY

Gross Kilowatt Hours Generated by Power Plant	3,092,060
Gross Kilowatt Hours Generated by Auglaize Hydro	9,100,386
Gross Kilowatt Hours Generated by Solar Field	2,635,790

<b>Total Gross Kilowatt Hours Generated</b>	<b>14,828,236</b>
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Kilowatt Hours Purchased:	
Belleville Hydroelectric Project (JV5)	8,318,694
New York Power Authority (NYPA)	6,751,491
AMP Fremont Energy Center (AFEC)	37,763,538
Prairie State Energy Campus	62,794,697
Blue Creek Wind Farm	4,807,832
Landfill Gas	8,760,000
BP Remaining Requirements	54,000,903
Meldahl Hydroelectric Project	8,222,134
Greenup Hydroelectric Project	4,661,862
AMP Hydroelectric Projects (CSW)	11,046,473

<b>Total of Gross Kilowatt Hours Purchased</b>	<b>207,127,624</b>
<b>Gross Generated and Purchased Kilowatt Hours</b>	<b>221,955,860</b>

Kilowatt Hours Used:	
<b>Customer Metered Kilowatt Hours</b>	<b>173,522,664</b>
OMEG Kilowatt Hours Sold	34,139,571
Auglaize Kilowatt Hours Sold	1,610,425
Power Plant Use	947,387
Kilowatt Hour Line Loss (5.29%)	11,735,813

<b>Total Metered and Line Loss</b>	<b>221,955,860</b>
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# WATER DEPARTMENT

In 2021, the Bryan Water Department continued to work through extraordinary times and was able to complete a variety of maintenance and capital improvement projects to the public water system. Our dedicated employees continually adapted to the challenges of 2021 and made great progress.

To begin the year, a large focus for the Water Department was meeting U.S. Environmental Protection Agency ("EPA") and Ohio EPA requirements. The U.S. EPA Risk and Resilience Assessment is a plan that evaluates the risks within the operations and the assets of the public water system. After completion of the Risk and Resilience Assessment, the U.S. EPA Emergency Response Plan was required. This particular plan described the strategies, resources, and procedures to respond to an incident defined in the risk assessment. Another large accomplishment was the re-endorsement from the Ohio EPA of the Drinking Water Source Protection Plan. This plan identifies activities or projects needed to reduce existing and future threats to the source water and improve the resiliency of the water supply. The Ohio EPA commended the City of Bryan for recognizing the importance of protecting its valuable ground water resources.

Additionally, the Bryan Water Treatment Plant Laboratory analyzed 446 total coliform bacteria samples. All operators were recertified and approved by the Ohio EPA to perform and analyze microbiological samples. Additional sampling included lead and copper, disinfection-by-products, nitrates and SOC's. All sampling met Ohio EPA regulations. Our operators were responsible for the treatment and pumpage of over 485 million gallons or 1.3 million gallons per day of safe drinking water for our customers.

In water main replacement projects, more than 1,400 feet of eight-inch water main was installed in the 200 to 400 Blocks of North Myers Street. Approximately 220 feet of eight-inch water main was installed in the 300 Block of North Lebanon Street and more than 200 feet of six-inch water main in the 300 Block of West Maple Street. These projects included the installation of 18 main line valves, 5 fire hydrants and 25 customer service connections. During these improvements, four lead service lines were identified

and eliminated from the distribution system. Replacing these aging sections of water main greatly improve firefighting capability and water system reliability to our customers.

The Water Department was also involved with preparations for several upcoming capital improvement projects planned for 2022. Both water towers were inspected to determine the interior/ exterior coating systems, their conditions, and to develop a long term maintenance plan. Our staff collaborated with all departments on the AMI system upgrade to prepare for the meter deployment; and the underground site work for the much-anticipated backup generator for the Water Treatment Plant.

The Water Department had an outstanding year in 2021 and remains committed to continue our focus on protecting and upgrading our public water system while providing safe, dependable drinking water to Bryan homes and businesses for years to come.





# WATER FINANCIALS

## WATER OPERATING INCOME AND EXPENSES

2021

Operating Income:		
	Charges for Services	\$2,558,822
	Other Operating Income	7,573
<b>Total Operating Income</b>		<b>\$2,566,395</b>
Other Income		
	Interest Income	\$4,406
	Other Miscellaneous Income	18,228
<b>Total Other Income</b>		<b>\$22,634</b>
<b>Total Income</b>		<b>\$2,589,029</b>

Operating Expenses		
	Supply and Distribution	\$1,235,243
	Billing and Accounting	121,058
	Customer Service and Administration	289,469
	Interest on S. Walnut/E South St Project	3,448
	Interest on Townline Rd Project	8,476
<b>Total Operating Expenses</b>		<b>\$1,657,694</b>
<b>Total Expenses</b>		<b>\$1,657,694</b>
<b>Balance Available for Capital Improvements &amp; Debt Service</b>		<b>\$931,335</b>

Debt Service - S. Walnut/E South St Project	
Balance - January 1, 2021	\$132,149
Principal Payment	51,725
Balance - December 31, 2021	\$80,424

Debt Service - Townline Rd. Project	
Balance - January 1, 2021	\$306,475
Principal Payment	32,361
Balance - December 31, 2021	\$274,114

Advance to 418 Industrial Park North (Returned)	-\$62,323
Transfer to 525 Water Capital Improvement Fund	\$290,000

<b>Total Expenses</b>	<b>\$1,969,457</b>
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## WATER CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2021	\$137,768
Transfer Income:	\$290,000
Other Income:	
Misc. Income	\$0
Loan Proceeds (AMI)	\$1,201,515
Total Other Income	\$1,201,515
Total Income	\$1,491,515
Capital Expenses:	
Supply and Distribution	\$914,703
Water Utility Office	0
Water Clerks Office	0
Total Capital Improvements	\$914,70
Ending Balance 12/31/2021	\$714,580

## 2021 WATER PRODUCTION DATA

	Meters	Gallons Used
Residential	3,253	134,126,872
Commercial & Industrial	601	171,416,916
City of Bryan (Unbilled Service)	21	27,337,576
<b>Total Metered</b>	<b>3,875</b>	<b>332,881,364</b>
Bulk Water & Hydrant Water (Billed)		596,769
Filter Backwash/Production Water		1,713,900
Hydrant Flushing		5,500,000
Other		0
<b>Total Other Water Use</b>		<b>7,810,669</b>
Line Losses (29.8%)		144,705,967
<b>Total Water Production</b>		<b>485,398,000</b>





# COMMUNICATIONS DEPARTMENT

In 2021, the Communications Department continued to operate within the City of Bryan and Williams County to deliver excellent service to our customers. These include Cable Television, Internet, and Fiber Network services.

On our Cable TV system, we discontinued the Digital Basic and HD services, while maintaining our existing analog channel lineup, which includes both our Basic and Extended Basic service. We continue to pass through many additional programs from our broadcast stations at no charge to our customers. With the ever increasing fees set by our programmers, it is a constant challenge to keep the programming rates as low as possible for our customers.

We recently upgraded our internet system in 2021. This upgrade increased the bandwidth available to our customers, especially our upstream speed. During this time of customers working from home and the additional network devices that are added to their connections, we have worked to make improvements for the internet service.

We continue to offer our normal High Speed internet service, as well as our Enhanced internet service. We plan to continue the practice of constantly seeking ways to improve our service, and to meet the customers' demand for the ever increasing need for more bandwidth.

The department completed several fiber and network projects in 2021. These include the new large fiber route that will provide service and communications to our electrical substations, as well as the fiber communications to the new Industrial Park Substation.

We also installed a large fiber network and infrastructure for the AMI project, which will enable BMU to remotely measure and monitor our electric and water meters. This technology will move our company into the 21st century for utility operations.

In 2021, the Communications Department BMU TV video team continued to provide high quality programming to our customers. We use BMU channels 3 and 4, and also provide live streaming of our BPA and Council meetings online. Our department is the only source to view the live broadcast of the BPA and Council meetings, and is provided as a public service to the residents of Bryan.

Upcoming projects for 2022 are plans to complete the construction of the new fiber optic loop around the City of Bryan, as well as the construction of another new 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 for various applications, as we plan for the future.

We also have plans to construct a new communications building in the near future, which will provide both physical and operational security for our network for many years to come. This network serves Bryan Municipal Utilities, as well as the City of Bryan, Williams County, and the school system in much of the area.

The Communications industry is constantly evolving and changing to meet the demands of its customers and their technology needs. This industry, across the country, is requiring more capital funding and the need for more construction activity than ever before. The BMU Communications Department is not alone in facing these same challenges each day, but our dedicated team works diligently to maintain our service to our customers, while coming up with new solutions for the residents of Bryan.

We are always aware of the importance of our customers, and are truly fortunate to serve you. We strive to continue to deliver better products and services, as we are your local and home town provider of cable, internet, and fiber optic services. We deeply appreciate the support of our customers, and hope to have an even better year in 2022 together.

# COMMUNICATIONS FINANCIALS

## COMMUNICATIONS INCOME & EXPENSES

2021

Operating Income:

Charges for Services	\$2,152,114
Other Operating Income	27,729

**Total Operating Income**

**\$2,179,843**

Other Income:

Interest Income	\$3,130
Other Miscellaneous Income	10,564

**Total Other Income**

**\$13,694**

**Total Income**

**\$2,193,537**

Operating Expenses:

Supply and Distribution	\$2,273,954
Billing and Accounting	98,120

**Total Operating Expenses**

**\$2,372,074**

**Total Expenses**

**\$2,372,074**

**Balance Available for Capital Improvements & Debt Service**

**-\$178,537**

Transfer to Communications Capital Improvement Fund

**\$53,510**

**Total Expenses**

**\$2,425,584**

## COMMUNICATIONS CAPITAL RESERVE FUND INCOME AND EXPENSES

**Beginning Balance 1/1/2021**

**\$88,064**

**Transfer Income:**

**\$53,510**

Capital Expenses:

Communications	\$32,184
Clerks Office	0

**Total Capital Improvements**

**\$32,184**

**Ending Balance 12/31/2021**

**\$109,390**





# FIVE YEAR SUMMARY

## ELECTRIC DEPARTMENT

Finances	2021	2020	2019	2018	2017
Income	\$19,700,187	\$18,925,398	\$20,388,803	\$21,298,889	\$24,272,615
Expenditures	17,577,089	16,841,184	16,971,859	18,370,299	21,934,861
Margin	\$2,123,098	\$2,084,214	\$3,416,944	\$2,928,590	\$2,337,754
Capital Improvements	0	0	0	620,339	880,125
Fund Transfers Out	1,043,000	1,300,000	4,573,779	26,066	4,515,170
<b>Fund Balance Dec. 31</b>	<b>\$12,190,846</b>	<b>\$11,110,748</b>	<b>\$10,326,534</b>	<b>\$11,483,370</b>	<b>\$9,201,185</b>

### Meters

Residential	5,066	5,066	5,049	5,062	5,054
Commercial	700	697	707	706	705
Industrial	54	56	58	57	58
Unbilled Services	239	238	235	234	234
<b>*Total Meters</b>	<b>6,059</b>	<b>6,057</b>	<b>6,049</b>	<b>6,059</b>	<b>6,051</b>

### kWh Used

Residential	46,237,536	46,499,234	46,209,590	48,568,070	43,691,480
Commercial	23,066,681	22,868,649	24,689,213	26,231,622	25,805,790
Industrial	97,702,402	93,933,805	105,540,919	110,366,910	107,964,046
Unbilled Services	6,516,045	6,207,992	7,127,859	6,458,487	6,463,859
<b>Total kWh</b>	<b>173,522,664</b>	<b>169,509,680</b>	<b>183,567,581</b>	<b>191,625,089</b>	<b>183,925,175</b>
<b>Peak Demand (kilowatts)</b>	<b>38,098</b>	<b>37,758</b>	<b>37,533</b>	<b>39,783</b>	<b>39,210</b>

## WATER DEPARTMENT

Finances	2021	2020	2019	2018	2017
Income	\$2,589,029	\$2,438,621	\$2,353,208	\$2,186,977	\$2,046,686
Expenditures	1,657,694	1,760,174	1,692,051	1,575,959	1,480,161
Margin	\$931,335	\$678,447	\$661,157	\$611,018	\$566,525
Capital Improvements	0	0	15,736	159,454	294,722
Fund Transfers Out	227,677	100,005	996,905	352,893	0
Debt Service	84,086	81,722	64,241	23,899	0
<b>Fund Balance Dec. 31</b>	<b>\$2,708,103</b>	<b>\$2,088,531</b>	<b>\$1,591,811</b>	<b>\$2,007,536</b>	<b>\$1,932,764</b>

### Meters

Residential	3,253	3,246	3,239	3,238	3,230
Commercial & Industrial	601	608	601	609	609
Unbilled Services	21	22	27	31	31
<b>*Total Meters</b>	<b>3,875</b>	<b>3,876</b>	<b>3,867</b>	<b>3,878</b>	<b>3,870</b>

### Gallons Used

Residential	134,126,872	141,783,400	130,197,628	136,831,640	137,779,356
Commercial & Industrial	171,416,916	159,395,808	178,165,372	190,389,936	174,217,428
Unbilled Services	27,337,576	22,106,867	23,265,356	23,918,057	33,177,095
<b>Total Gallons</b>	<b>332,881,364</b>	<b>323,286,075</b>	<b>331,628,356</b>	<b>351,139,633</b>	<b>345,173,879</b>

# FIVE YEAR SUMMARY

## COMMUNICATIONS DEPARTMENT

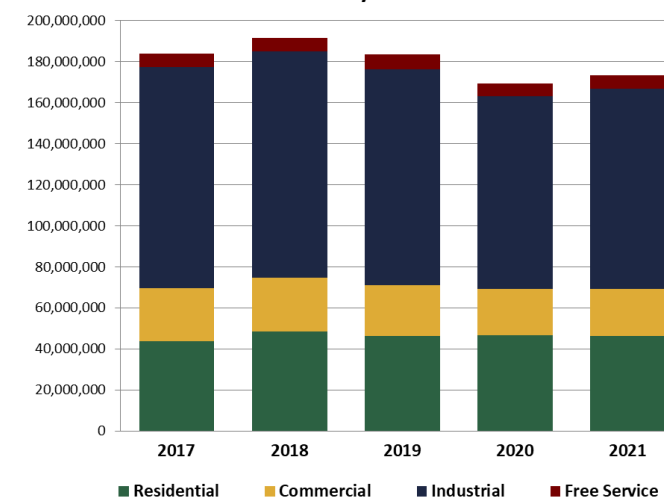
Finances	2021	2020	2019	2018	2017
Income	\$2,193,537	\$2,400,387	\$2,474,493	\$2,455,804	\$2,559,285
Expenditures	2,372,074	2,329,432	2,337,172	2,236,810	2,007,239
Margin	-\$178,537	\$70,955	\$137,321	\$218,994	\$552,046
Capital Improvements	0	0	14,651	191,837	49,969
Fund Transfers Out	53,510	53,250	55,000	125,858	0
Debt Service	0	0	0	0	0
<b>Fund Balance Dec. 31</b>	<b>\$2,071,104</b>	<b>\$2,303,151</b>	<b>\$2,285,446</b>	<b>\$2,217,776</b>	<b>\$2,316,477</b>

### Customers

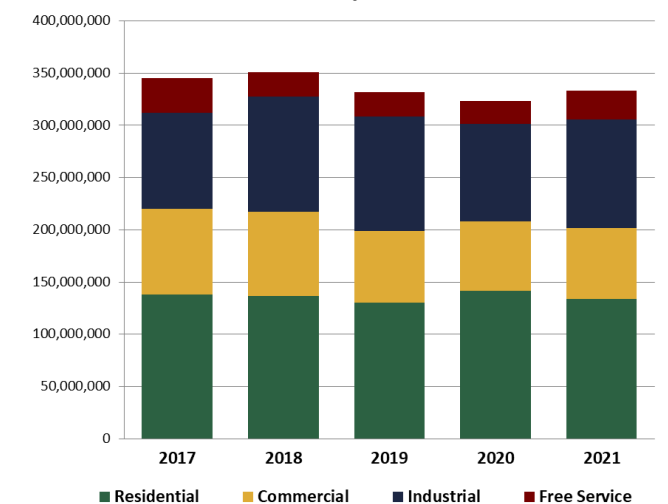
Cable TV Billed Services	1,217	1,196	1,308	1,446	1,490
Cable TV Unbilled Services	22	22	21	20	21
<b>Total Cable TV Customers</b>	<b>1,239</b>	<b>1,218</b>	<b>1,329</b>	<b>1,466</b>	<b>1,511</b>
Internet Residential	1,404	1,486	1,524	1,455	1,495
Internet Commercial/Industrial	86	84	89	99	97
Internet Unbilled Services	15	15	15	15	15
<b>Total Internet Customers</b>	<b>1,505</b>	<b>1,585</b>	<b>1,628</b>	<b>1,569</b>	<b>1,607</b>
Fiber Commercial/Industrial	25	25	25	25	24
Fiber Unbilled Services	14	14	13	14	16
<b>Total Fiber Customers</b>	<b>39</b>	<b>39</b>	<b>38</b>	<b>39</b>	<b>40</b>
<b>*Total Customers</b>	<b>2,783</b>	<b>2,842</b>	<b>2,995</b>	<b>3,074</b>	<b>3,158</b>

\*End of Year Meter and Customer Counts

kWh by Customer Class



Gallons by Customer Class





# 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:

- Designs 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 2021, the Department completed 1,800 regular locates and 90 after-business hours utility emergency locates.
- Project competitive bidding and quotation.
- Contractor registration and permitting.
- Oversight for work completed in city right-of- way for BMU projects.
- Furnishing of plans and information as requested by contractors and engineers.
- Plan review for public and private projects involving our utilities.
- Updating records and drawings of electric, water, and communications utilities and final as-built utility plans to be maintained and used for future generations.
- Preparation of departmental reports, studies, maps, and other items of interest for the 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 2021 and look forward to continued improvements in 2022.



# UNBILLED UTILITY SERVICES

## 2021 UNBILLED UTILITIES

	Electricity	Water	Communications
Street and Security Lights	\$90,105	\$0	\$0
Utility Departments, Buildings & Facilities	262,159	19,431	73,005
Parks, Pools & Other Recreational Areas	64,562	49,118	2,520
Bryan Community Center	7,088	635	1,644
Municipal Departments, Buildings & Facilities	358,337	63,020	108,629
County Miscellaneous Facilities	2,220	0	5,497
Traffic Signals	12,137	0	0
Bryan City Schools	2,561	0	22,363
Day in the Park, Jubilee, Christmas Lights	1,910	426	0
Bard Fountain	5,585	769	0
Other	0	2,428	11,845
Unbilled Utilities	\$806,664	\$135,827	\$225,503

## ELECTRIC DEPARTMENT

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

Street Light Installation and Maintenance	\$29,999
All Other City Services and Civic Organizations	62,544
Total Unbilled Maintenance (Labor) Provided including Equipment	\$92,543

### Materials Provided

New Street Lights and Replacements	\$33,541
All Other City Services & Civic Organizations	3,070
Total Unbilled Materials Provided	\$36,611
Total Labor and Materials Provided	\$129,154
TOTAL LABOR, MATERIALS and ELECTRICITY	\$935,818

## WATER DEPARTMENT

### Maintenance Services (Labor) Provided

Installation and Services to City Facilities	\$16,065
Installation and Maintenance of Fire Hydrants	0
Equipment	30,667
Total Unbilled Maintenance (Labor) Provided including Equipment	\$46,732

### Materials Provided

Water Lines and Services to City Facilities	\$0
New Fire Hydrants and Replacements	20,400
Total Unbilled Materials Provided	\$20,400
Total Labor and Materials Provided	\$67,132
TOTAL UNBILLED LABOR, MATERIALS, and WATER	\$202,959

## COMMUNICATIONS DEPARTMENT

### Maintenance Services (Labor) Provided

Installation and Services to City Facilities	\$0
Installation and Services to Bryan City Schools	0
Total Unbilled Maintenance (Labor) Provided including Equipment	\$0

### Materials Provided

Cable and Accessories for Services to City Facilities	\$0
Cable and Accessories for Services to Bryan City Schools	0
Total Unbilled Materials Provided	\$0
Total Unbilled Labor and Materials Provided	\$0
TOTAL UNBILLED LABOR, MATERIALS, AND COMMUNICATIONS	\$225,503

TOTAL UNBILLED UTILITY SERVICES	\$1,364,280
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