

RELIABLE. LOCAL. YOURS.



2023 ANNUAL REPORT

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MEET THE 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 an audio recording is later available on www.cityofbryan.net for future reference.

The Board keeps informed of utility services, financial position, and personnel on a regular basis. They have a Finance, 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.

Board Members

Pictured from left to right: (Front Row) Annette Schreiner, Karen Ford
(Back Row) Tom Sprow, Dick Long, Jim Salsbury



The essential and enduring guiding principles for the Bryan Board of Public Affairs and BMU 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 2023

FROM THE DIRECTOR

Bryan Municipal Utilities is a community owned, not-for-profit provider of electric, water and communications services to the City of Bryan. We are pleased to announce another year of significant progress and service to our community in 2023. Throughout this annual report you will see how our employees, our greatest asset, work together, embrace learning and continuous change, and take pride in what they do to provide a hometown value for you, our customers and owners of our public utility. Our employees' approach is an endorsement of their commitment to ensuring Bryan Municipal Utilities remains an effective and efficient organization, just as it has been for over 125 years. As Bryan's new Director of Utilities, it is also my responsibility and goal to maintain the excellent service record that I have inherited and to continue to ensure that Bryan is the standard that other utilities are measured by.

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 currently holds an RP3 Diamond Level certification. We could not be prouder to be honored with the highest-level designation and remain committed to continuing to improve our operations and service to our customers.

In 2023, BMU's Average Service Reliability Index (ASAI) was 99.998%, the percentage of the year the electric distribution system was in service and available to our customers, up from 99.994% last year.

FUND BALANCES remain strong for the Electric and the Water Departments even though we saw minor decreases in our customers sales. Usage of both electricity and water were down overall, largely in part to mild temperatures that persisted year-round. With market costs increasing and supply chain constraints continuing to affect operations, our departments continue to monitor and prepare for these obstacles. The Electric and Water Departments transferred additional funds from their operating budgets to their capital budgets in the Fall of 2023 for planned projects and capital purchases in 2024. Additionally, the Water Department concluded debt service payments for the

South Walnut/East South Street water main replacement project that replaced approximately four thousand, six hundred feet of water main in 2018. The Communications Department fund balance remained stable even with the loss of cable television revenues and declining internet service subscribers.

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.

POWER SUPPLY costs remain as the single largest annual expense for the utility. In 2023, this represented seventy-seven percent of the electric utility operation and maintenance expenses. Wholesale power rates ended the year at \$60.85 MWh which is approximately 11.1 percent higher than forecasted. Fortunately for BMU, multiple adjustments, credits, and other revenues contributed to annual power supply costs averaging just \$61.76 for the year.

POWER SUPPLY COST ADJUSTMENT (PSCA) is a mechanism that allows utilities to calculate and collect actual power related costs from purchased power and generating facilities each month. This power supply cost is then compared to the base power supply cost built into Utility rate schedules and adjusted to reconcile over/under recovery of costs from previous periods and consider future projections of power supply related costs and kWh sales. This calculation also includes a provision to accomplish recovery of power supply related costs in a timely manner to avoid major fluctuations in overall rates for customers.

For the entire year, Bryan customers benefited from a negative PSCA, a credit back to the customer. At various times there were different factors that contributed to this customer benefit. A settlement with AEP for the overbilling of energy and transmission costs resulted in over \$1 million in savings spread over the course of the year. Transmission and capacity savings from peak shaving with utility-owned assets reduced our power bills by nearly \$5 million in 2023. In addition, selling power back to the market, the sale of renewable energy credits (RECs) generated from the Auglaize Hydroelectric Plant and Bryan Solar Field, along with RECs sold by American Municipal Power from current and previous projects all contributed to customer savings. A negative PSCA based on kilowatt-hour usage aid's residential, business, and industrial customers alike with lower



electric bills each month. Much of these credits are due to the dedication and due diligence that our employees display every day to help lower power supply costs for our community.

NATURAL GAS SUPPLY is crucial to generation efforts to yield transmission and capacity savings for our customers. In order to ensure natural gas availability, a Transaction Confirmation Agreement with local gas supplier, Ohio Gas Company, was approved by the Bryan Board of Public Affairs on September 5, 2023. This agreement allowed for the purchase and storage of 25,000 MCF of natural gas in the off-season to secure the immediate delivery of natural gas in the event of extreme weather conditions. The approval of this agreement provides the most protection to annual transmission and capacity savings and the least amount of risk exposure to daily market prices.

GRANT OPPORTUNITIES continued to be an emphasis in 2023. Although not every grant application came to fruition, the focus exists to take advantage of any relevant funds that become available. The Ohio Environmental Protection Agency offered a new emergency generator grant opportunity for public water systems that serve less than 10,000 customers and lack emergency backup generation for critical infrastructure. An application was submitted and a grant was awarded to BMU for \$50,000 towards the purchase and installation of backup generation on production well #7. With assistance from the City Engineering Department, our Water Department was also able to secure grant funds from two sources for the South Lynn Street Waterline Replacement Project, due to be completed in 2024. Funds are anticipated to be received from the Community Development Block Grant and Ohio Public Works Commission in the amount \$540,000 to assist with the project. Significant time and preparation are required to identify grant opportunities, but it can prove to be a worthy and invaluable means to fund essential public service projects.

EDUCATIONAL OUTREACH was also a theme during the year. Bryan Municipal Utilities hosted the Bryan Area Christian Cooperative at the Power Plant for an afternoon of education

and activities with students ranging from six to ten years old. Various stations were set up by each department with hands-on activities including fiber splicing, dressing like a lineman, powering an energy bike, as well as electricity safety and groundwater presentations. Each department explained various aspects of their job and the use of different pieces of equipment. Staff also visited Bryan High School's career relations class for a networking event that focused on potential careers in public service. This event allowed students to interview and engage with local public employees. The Leadership Williams County Group also visited for a presentation and overview of the utility, as well as tours of the water treatment and power plant facilities. In conclusion, sophomores from Bryan City Schools visited our BMU campus to learn more about electric, communication and water operations and their respective, potential career fields.

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 \$126,000 and assisting 952 families since inception. The Bryan Good Neighbors Utility Fund was able to assist 15 Bryan families in 2023.

As we close out the accomplishments of 2023 and look forward to the progress and completion of projects in 2024, we appreciate the opportunity to be of service to our community.

Remember this is your utility and we are here to serve you.

Derek Schultz

Derek Schultz
Director of Utilities



FINANCIAL HIGHLIGHTS



ELECTRIC DEPARTMENT

	2023	2022	Change	%Change
Operations				
Income	\$19,744,288	\$20,720,671	(\$976,383)	-4.7%
Expenses	16,683,613	17,421,789	(738,176)	-4.2%
Margin	\$3,060,675	\$3,298,882	(\$238,207)	-7.2%
Finance				
Capital Improvements Reserve Fund	\$2,206,044	\$4,050,637	(\$1,844,593)	-45.5%
Total Fund Balances Available Dec. 31	\$17,030,779	\$15,124,396	\$1,906,383	12.6%
Total Meters	6,056	6,045	11	0.18%
Total Metered kWh	169,706,656	176,937,948	(7,231,292)	-4.1%
Peak Demand (kilowatts)	36,452	38,176	(1,724)	-4.5%

WATER DEPARTMENT

Operations				
Income	\$2,947,855	\$3,107,597	(\$159,742)	-5.1%
Expenses	2,026,154	2,154,122	(127,968)	-5.9%
Margin	\$921,701	\$953,475	(\$31,774)	-3.3%
Finance				
Debt Service	\$61,432	\$86,517	(\$25,085)	-29.0%
Capital Improvements Reserve Fund	500,000	1,470,000	(970,000)	-66.0%
Total Fund Balances Available Dec. 31	\$4,065,831	\$3,562,955	\$502,876	14.1%
Total Meters	3,901	3,878	23	0.59%
Total Metered Gallons	362,103,306	366,318,922	(4,215,616)	-1.2%

COMMUNICATIONS DEPARTMENT

Operations				
Income	\$854,294	\$1,435,345	(\$581,051)	-40.5%
Expenses	801,064	1,598,195	(797,131)	-49.9%
Margin	\$53,230	(\$162,850)	\$216,080	-132.7%
Finance				
Capital Improvements Reserve Fund	0	\$47,000	(\$47,000)	-100.0%
Total Fund Balances Available Dec. 31	\$1,996,274	\$1,973,772	\$22,502	1.1%
Total Customers	1,126	1,203	(77)	-6.4%

FUND BALANCES



2023 ELECTRIC UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2022	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2023
Electric Fund	\$11,439,091	\$19,744,288	\$16,683,613	\$0	\$0	\$12,293,722*
Electric Capital Improvement Fund	\$3,685,305	2,206,044	0	1,154,292	0	\$4,737,057
TOTAL	\$15,124,396	\$21,950,332	\$16,683,613	\$1,154,292	\$0	\$17,030,779

*\$2,206,044 Transferred to Electric Capital Improvement Fund

2023 WATER UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2022	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2023
Water Fund	\$2,105,061	\$2,947,855	\$2,026,154	\$0	\$61,432	\$2,465,330*
Water Capital Improvement Fund	\$1,457,894	510,450	0	367,843	0	\$1,600,501
TOTAL	\$3,562,955	\$3,458,305	\$2,026,154	\$367,843	\$61,432	\$4,065,831

*\$500,000 Transferred to Water Capital Improvement Fund

2023 COMMUNICATION UTILITY FUND TRANSACTIONS AND BALANCES

	Balance Dec. 31, 2022	Income	Expenditures	Capital	Debt Service	Balance Dec. 31, 2023
Communications Fund	\$1,861,254	\$854,294	\$801,064	\$0	\$0	\$1,914,484
Communications Capital Fund	\$112,518	0	0	30,728	0	\$81,790
TOTAL	\$1,973,772	\$854,294	\$801,064	\$30,728	\$0	\$1,996,274

THIS IS YOUR **UTILITY**
& WE ARE HERE TO
SERVE YOU.

ELECTRIC DEPARTMENT



The Bryan Electric Department continued to make system improvements to enhance the reliability and serviceability of the electric system in Bryan. We completed several underground and overhead projects, lighting projects, and assisted with multiple projects for other BMU departments. We also completed tasks that provide sustainability for existing infrastructures and for future planning needs of the department. To begin the year, we completed underground improvement projects in the 1900 block of East Wilson Street to finish an Industrial Park Substation circuit configuration project. Multiple advancements were made in the downtown area on the east and west sides of the courthouse square. The new Spangler Candy Museum, the Williams County Playhouse Theater, and the Bryan

Area Foundation offices all received new electric underground services. These improvement projects allowed us to make provisions for future underground service feeds for existing businesses in both those downtown areas.

A number of projects were also completed for the betterment of our overhead electric system. These projects were located in the area of East Wilson Street and Commerce Drive where three phase overhead circuitries were extended to complete a tie between feeder one and feeder four from the Industrial Park Substation. We also rebuilt the pole line from the 1030 – 1228 blocks of East Wilson Street by L.E. Smith Inc. The overhead 69 kV and distribution pole line at the corner of County Road 13 and West Fountain Grove Drive was rebuilt, which greatly improved

FACTS/FIGURES



- Maintain **6900** poles within the electric system
- Maintain **1863** transformers within the electric system
- Maintain **50** miles of transmission line
- Maintain **110** miles of distribution line
- Installed **12** new services
- Upgraded **61** services
- Upgraded/Replaced **11** transformers
- Upgraded/replaced **5412** feet underground distribution line and/or transmission
- Upgraded/replaced **1262** feet overhead distribution line and/or transmission
- Maintain **6134** electric meters

the 69 kV transmission loop. 69 kV materials were also delivered for the 34.5 kV overhead rebuild project for the alley heading north from the Power Plant to East Edgerton Street. This project is scheduled to be completed in 2024.

In addition, several lighting projects were finished to expand and replace needed lighting assemblies in the City of Bryan's service area. One project on Pleasantwood Avenue required the installation of light poles and fixtures for a previously completed street improvement project with the City Engineer's office. A local resident submitted a street light petition requesting an additional street light pole and fixture on Circle Drive. After all necessary approvals were obtained the street light pole, fixture, and underground circuit was installed and powered up. The Electric Department also worked with the City Engineer on a South Portland Street improvement project. As part of this project, we provided the continuous conduit and electric vaults for the project and the street improvement contractor installed those to the specifications provided. The street light poles, fixtures and circuits for the South Portland Street project are anticipated to be installed in 2024.

The Electric Department also assisted with a number of other BMU department projects in 2023. Assistance was provided to the Water Department with the installation of a 100-kW diesel generator for backup power at the well field located on the BMU campus. We also assisted with the planning, coordination and installation of a second backup generator, a 60-kW diesel generator that provides uninterrupted supply of power for well seven. Three new LED spot lights were also installed that provide lighting for the Fountain City Water Tower on East Perry Street. Assistance was also provided to the Power Plant Department in setting steel beams for the Power Plant Substation upgrade project. Additionally, we installed conduit and replaced two poles to provide an external 12 kV feed to support Power Plant house power. This allows the Power Plant to remain energized during critical future conversions during the Power Plant Substation upgrade project.

The Electric Department also took part in the education of youth and amongst like-minded professionals at the regional and national public power levels. We joined with other BMU departments educating local third grade students with a demonstration event where we focused on teaching young



people about electricity and its associated dangers. We also hosted the AMP regional safety meeting that provided a safety training seminar for multiple communities, including personnel from both the Electric Department and the Power Plant. When called upon, our department takes great pride in providing mutual aid support for other local, regional and national public power communities. The Electric Department was able to provide aid to Hillsdale, Michigan; Pioneer, Ohio; Springfield, Illinois; Tallahassee, Florida; and the Suwannee Valley Electric Cooperative in Suwannee County, Florida. Mutual aid assistance was needed in these communities due to damaging storms or hurricanes that devastated their electric power systems and left many customers without power for multiple days.

In conclusion, the Electric Department was also involved in the development of a planning document for an electric system study. This comprehensive study will support needed electric system improvements with a planned completion date in 2025.

ELECTRIC FINANCIALS



ELECTRIC OPERATING INCOME AND EXPENSES

2023

Operating Income:

Charges for Services	\$17,889,856
Other Operating Income	295,838

Total Operating Income	\$18,185,694
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Other Income:

Interest Income	\$776,345
Other Miscellaneous Income	782,249

Total Other Income	\$1,558,594
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Total Income	\$19,744,288
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Operating Expenses:

Purchase Power	\$10,082,845
Power Plant Operations	1,664,908
Solar Lease	0
Distribution Operations	1,730,416
Billing and Accounting	361,005
Customer Service and Administration	993,150
Maintenance	145,851
Board of Public Affairs	42,092
Electric Communications	377,645
Hydroelectric Plant Operations	509,552
Solar Field	63,305
Interest on AMI Loan	22,341

Total Operating Expenses	\$15,993,110
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Other Expenses:

Kilowatt Hour Tax to State of Ohio	\$63,872
Kilowatt Hour Tax to General Fund	626,631

Total Other Expenses	\$690,503
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Total Expenses	\$16,683,613
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Balance Available for Capital Improvements and Debt Service	\$3,060,675
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Transfer to Electric Capital Improvement Fund	2,206,044
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Total Expenses	\$18,889,657
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ELECTRIC CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2023	\$3,685,305
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Transfer Income:	\$2,200,000
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Other Income:	Land Sale	\$0
	Other Miscellaneous Income	\$6,044

Total Other Income	\$6,044
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Total Income	\$2,206,044
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Capital Expenses:

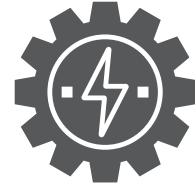
Power Plant	\$444,274
Electric Distribution	373,527
Electric Utility Office	23,651
Electric Clerks Office	10,765
Maintenance	1,410
Auglaize Hydroelectric Plant	25,111
Electric Communications	275,554

Total Capital Improvements	\$1,154,292
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Ending Balance 12/31/2023	\$4,737,057
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POWER PRODUCTION



In 2023, Power Plant employees continued focusing on improving Bryan's electric grid reliability. The Bryan Power Plant is the only remaining substation on the 34.5 kV transmission system and is currently in the process of being replaced. Power Plant employees have built a new main structure and work continues on upgrading the control circuitry in the existing power control building. As our employees work to build this substation, they are also maintaining all other equipment to ensure they remain in good operational state. The delivery of equipment and materials has not returned to pre-covid levels and logistically is causing a few delays. These constraints have lengthened the time of installation, however, this experience for Power Plant employees is providing invaluable training for the future of the City of Bryan by increasing our employees' skill levels.

We have also continued with communication upgrades to all substations with more robust devices, equipment and software. This will allow the Power Plant to communicate with each substation well into the future, and with serviceable components.

Power Plant employees were once again successful during the peak shaving season for 2023. American Electric Power's (AEP) highest transmission load hour of the year, referred to as the Coincident Peak (1CP), occurred on December 23, 2022 at 6 p.m. The transmission peak year is November 1st of the previous year through October 31st of the current year, for each electrical peaking period. The projected transmission savings earned for the 1CP at the Power Plant is \$5,752,377 and a savings of \$25,060 at the Auglaize Hydroelectric Plant. The Bryan Solar Field was unable to provide any savings during this 1CP due to the complete cloud cover and early sunset. The combined total is projected to save the City of Bryan \$5,777,437 in transmission costs.

On December 22-23, 2022 a Max Generation Emergency Alert was issued by PJM (Pennsylvania, New Jersey, Maryland) the regional transmission organization. This alert was issued on both days and lasted approximately ten hours each day. This alert brings a penalty with it for all generators that are not able to produce their maximum output during the declared event. This penalty method is used to prevent the electrical grid from de-energizing from the over-loaded condition resulting from extreme hot or cold weather events.

From a transmission perspective we received positive and negative results during the Max Generation Emergency Event. The Power Plant was able to produce our stated maximum output and received a (\$125,983) penalty. The Auglaize Hydroelectric Plant and Bryan Solar Field did not reach their maximum generation output and received a penalty of \$36,973 and \$19,171. This event resulted in a total penalty of (\$69,839), which is actually a credit. For the upcoming year transmission savings total \$5,847,276.

On the capacity side, known as the Five Coincident Peak (5CP) days, savings are projected at \$328,435 from the Power Plant. The Auglaize Hydroelectric Plant generated savings of \$29,725 and the Bryan Solar Field an additional \$15,972, during the 5CP events. These savings are a decrease from previous years, due to the lower cost per megawatt of generation being charged.

Much like the transmission savings, the capacity savings during the PJM Max Generation Emergency Alert received positive and negative results. The Power Plant was able to produce our stated maximum generation and received a (\$12,453) penalty. Again, the Auglaize Hydroelectric Plant and Bryan Solar Field could not reach their maximum generation and received a penalty of \$3,655 and \$1,895, respectively. This emergency event resulted in a total penalty of (\$6,903), again a credit. The combined PJM capacity savings total \$381,035, which aids in lowering power supply bills for the months of June 2024 through May 2025.

In total, the 2023 peak shaving season resulted in combined transmission and capacity savings of \$6,228,311 for our City of Bryan electric customers. These projected savings are a direct result of the dedicated Power Plant team and their efforts during these high electrical grid usage periods.

In addition to transmission and capacity savings, Bryan Municipal Utilities received \$261,752 in the sale of Renewable Energy Credits (RECs) from the Auglaize Hydroelectric Plant and the Bryan Solar Field. These renewable energy resources continue to be an added source of revenue to help offset power supply costs for our customers, while benefitting the environment. We also continue to evaluate opportunities to certify RECs in other states that may pay at a higher premium.

The Bryan Solar Field was purchased in 2022 and we continue to see the benefits of the solar array equipment. With minimal operation and maintenance costs and a consistent preventive maintenance plan, the solar field should continue to produce electricity for many years to come.

At the Auglaize Hydroelectric Plant, our employees have continued to repair areas of concrete with a coating from a local vendor, Advanced Rehabilitation Technology. Hydroelectric production was down in 2023, as we had very little rain fall during the later months of the year. We also continuously monitor water levels so that we can generate during the CP events and continue to provide the City of Bryan with the most savings as possible.

BMU Power Plant employees are privileged to serve the Bryan community in maintaining these critical assets and look forward to continuing to use our skills in the coming years.

- Maintain **7** substations
- Own and operate (**2**) 18MW Gas Turbines; 5MW Gas Turbine; 2.4 MW Diesel Generator
- Own and operate a **4,740-kW** hydroelectric plant
- **6,777,802 kW** hours generated at the Auglaize Hydroelectric Plant; 4% of the City of Bryan's power needs
- **\$6,228,311** in savings generated

- **\$261,752** in Renewable Energy Credits
- Operate and maintain a **2MW** solar array; with **23,530** solar modules



POWER SUPPLY DATA

2023 POWER SUPPLY

Gross Kilowatt Hours Generated by Power Plant	917,411
Gross Kilowatt Hours Generated by Auglaize Hydro	6,777,802
Gross Kilowatt Hours Generated by Solar Field	2,562,500

Total Gross Kilowatt Hours Generated	10,257,713
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Kilowatt Hours Purchased:

Belleville Hydroelectric Project (JV5)	8,319,676
New York Power Authority (NYPA)	6,788,355
AMP Fremont Energy Center (AFEC)	36,064,605
Prairie State Energy Campus	61,350,652
BP Remaining Requirements	63,566,088
Meldahl Hydroelectric Project	7,057,765
Greenup Hydroelectric Project	3,418,684
AMP Hydroelectric Projects (CSW)	9,698,479

Total of Gross Kilowatt Hours Purchased	196,264,304
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Gross Generated and Purchased Kilowatt Hours	206,522,017
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Kilowatt Hours Used:

Customer Metered Kilowatt Hours	169,706,656
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OMEG Kilowatt Hours Sold	26,378,197
Auglaize Kilowatt Hours Sold	308,955
Power Plant Use	820,431
Kilowatt Hour Line Loss (4.51%)	9,307,778

Total Metered and Line Loss	206,522,017
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WATER DEPARTMENT



As the water industry continues to evolve with a strong focus on water quality and public health, water department employees continued to improve major assets at the water treatment plant and in the water distribution system. An in-depth evaluation of our critical assets was completed to maintain our commitment to the delivery of safe drinking water and reliable fire protection.

Water Department employees are responsible for the treatment of safe drinking water and operated in full compliance with the Ohio EPA. Water treatment plant operators completed many different monitoring, reporting and sampling requirements. Finished water was sampled for disinfection by-products, nitrates, lead and copper to be in compliance with Ohio's drinking water standards. Additionally, operators were responsible for analyzing total coliform bacteria samples in our state certified lab. Water treatment plant operators are certified through the Ohio EPA's Laboratory Certification Program, which ensures laboratories' abilities to perform accurate testing using U.S. EPA approved methods. Three water treatment plant operators achieved their microbiological laboratory certification through the Ohio Environmental Protection Agency, these certifications will require renewal again in three years.

One significant project completed involved the inspection and exterior painting of the Fountain City Tower, located on East Perry Street. First constructed in 1990, the 180-foot-tall elevated tank holds approximately 1,000,000 gallons of treated drinking water. In order to maintain the tank's effective purpose, water towers must be thoroughly inspected both inside and out to ensure proper operations. Beginning in May, the Fountain City Tower was completely drained and pressure washed to perform a proper interior inspection and allowed the exterior painting process to begin. The Fountain City Tower was painted with a 3-step process, first by applying a base primer followed by an epoxy top coat and finally capped off with a gloss finish. This process provides excellent protection to the steel tank while meeting the latest requirements for potable water use.

In addition to the exterior painting, the tank was outfitted with a new LED top aviation light and upgraded LED exterior spot lighting.

The cleaning and inspection of the red sand filter was completed at the water treatment plant. The 90' x 55' x 11' filter stores the iron by-product that is filtered out during the treatment process. Crews assisted in the removal of nearly 4,664 cubic feet of iron sludge that had accumulated over a three-year period. During the project the concrete structure, sand depth, effluent discharge valves, and splash pads were all inspected.

A project involving all utility departments was the installation of two diesel backup generators and automatic transfer switches at two separate well fields within the City of Bryan. In the event of a power outage, the new 100kw and 60kw CAT diesel generators provide reliable backup power to ensure a consistent supply of safe drinking water from four of our production wells. Along with the installation of the new generators, critical communication and SCADA upgrades were completed.



Water distribution crews spent time completing distribution system upgrades and improving reliability in 2023. Distribution crews responded to more than sixty service and maintenance calls and installed five new water services. Crews completed the annual valve exercising program and hydrant maintenance program that includes the inspection and exercising of those assets. These preventative maintenance programs help assure the delivery of water to our customers and provide reliable fire protection. The 300 block of South Main Street was upgraded to eight-inch PVC water main due to failures in the aged cast iron water line. The intersection of Edgerton Street and Lynn Street was also upgraded from a four-inch cast iron water line to a new six-inch PVC water line to provide improved water capacity.

Distribution crews worked alongside field service technicians from Aqua Line Detection to perform a system-wide leak detection survey. This survey provides the department with the ability to pin point potential water leaks within the distribution system that may not surface to ground level. The survey is conducted with Acoustic Pro Leak Correlators which is the industries most advanced system on the market today, any identified leaks were then repaired. Distribution crews also assisted with the site work at the new power plant substation cutting grade, concrete work, and burying of underground conduits.

As busy as the year was for the water department, crews still managed to deploy the start of our city-wide ultra-sonic water meter installation, a project that is scheduled to be completed in 2024. As we conclude the accomplishments of 2023, the water department will continue to focus on our customers by effectively planning and implementing capital projects that increase reliability and ensure the delivery of safe drinking water in 2024.



FACTS/FIGURES

- Maintain **589** city owned fire hydrants
- Maintain **2,205** valves
- Maintain **70** miles underground distribution system
- **487,924,000** million gallons of water treated
- **449** total coliform bacteria samples analyzed
- **4,038** water meters



WATER FINANCIALS



WATER OPERATING INCOME AND EXPENSES

2023

Operating Income:

Charges for Services	\$2,753,120
Other Operating Income	10,653

Total Operating Income	\$2,763,773
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Other Income

Interest Income	\$177,506
Other Miscellaneous Income	6,576

Total Other Income	\$184,082
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Total Income	\$2,947,855
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Operating Expenses

Supply and Distribution	\$1,537,291
Billing and Accounting	128,495
Customer Service and Administration	327,064
Interest on S. Walnut/E South St Project	393
Interest on Townline Rd Project	6,598
Interest on AMI Loan	26,313

Total Operating Expenses	\$2,026,154
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Total Expenses	\$2,026,154
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Balance Available for Capital Improvements & Debt Service	\$921,701
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Debt Service - S. Walnut/E South St Project

Balance - January 1, 2023	\$27,193
Principal Payment	27,193
Balance - December 31, 2023	\$0

Debt Service - Townline Rd. Project

Balance - January 1, 2023	\$240,827
Principal Payment	34,239
Balance - December 31, 2023	\$206,588

Transfer to 525 Water Capital Improvement Fund	\$500,000
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Total Expenses	\$2,587,586
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WATER CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2023	\$1,457,894
Transfer Income:	
502 Water Fund	\$500,000
Revolving Loan Fund	\$0
Total Transfer Income:	\$500,000
Other Income:	
Misc. Income	\$10,450
Total Other Income	\$10,450
Total Income	\$510,450
Capital Expenses:	
Supply and Distribution	\$347,310
Water Utility Office	16,940
Water Clerks Office	3,593
Total Capital Improvements	\$367,843
Ending Balance 12/31/2023	\$1,600,501



WATER PRODUCTION DATA



2023 WATER PRODUCTION DATA

	Meters	Gallons Used
Residential	3,266	132,977,196
Commercial & Industrial	609	195,734,396
City of Bryan (Unbilled Service)	26	33,391,714
Total Metered	3,901	362,103,306
Bulk Water & Hydrant Water (Billed)		144,823
Filter Backwash/Production Water		2,492,550
Hydrant Flushing		5,500,000
Other		0
Total Other Water Use		8,137,373
Line Losses (26.1%)		117,683,321
Total Water Production		487,924,000

COMMUNICATIONS DEPARTMENT



The Communications Department

continued to operate within the City of Bryan and Williams County. We continue to deliver the services to our customers, as we have done for many years. These services include internet, a fiber network, as well as providing fiber lease services to those in our city and surrounding area. In the past year, we completed many projects to enhance and update our system which are intended to improve reliability and efficiencies across our company.

We completed a large upgrade and rebuild of our Headend, which involved the design and reconfiguration of our main infrastructure. This included the addition of new equipment and multiple electrical power systems. These additions ensure support for our primary equipment and operation of our network without interruption.

There were also several network projects completed, including the main network equipment upgrade which provides all of the circuits and data traffic to all of the BMU network. This effectively controls all of the internet and network traffic throughout the utility, system, and city departments.

There were numerous other projects completed which resulted in new communication software systems that merged the utility and city departments into one mutual network. We also completed an upgrade to our central phone system, which provides phone service to BMU and the City of Bryan departments.

In addition to network and software upgrades, several fiber projects were also finalized. These include the construction of one of our main fiber routes that provides communications to many of our internal departments. New fiber was also installed to provide communications for various local businesses within the City of Bryan.

Our staff has also been working on the planning and engineering of the communication services to be installed into a new electrical

The world of technology is constantly changing, and the needs of the population is ever increasing. What was considered acceptable service only a few years ago, is now considered insufficient to the demands of today. The Communications Department continues to provide the best and most reliable service within our ability to the residents and businesses of Bryan. We must also commit to installing and maintaining our network to provide network and SCADA communications to meet the core purpose of our company in providing reliable and sustainable electric, water, and communications services to our customers.

substation, which is currently being built. This will connect the new facility to all other power supply locations within the City of Bryan.

Going forward in 2024, we plan to continue the upgrade of our main headend which will include improvements to our hub locations. We will also plan for upgraded communication services to our water treatment plant. We'll continue the construction of the new fiber route to connect into the downtown section of Bryan, as 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 a variety of needs for years to come.



**"We deeply appreciate all of our loyal customers, many who have remained our customers for many years, and are truly fortunate to
SERVE YOU."**





COMMUNICATIONS FINANCIALS

COMMUNICATIONS INCOME & EXPENSES

2023

Operating Income:

Charges for Services	\$761,957
Other Operating Income	0

Total Operating Income	\$761,957
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Other Income:

Interest Income	\$90,638
Other Miscellaneous Income	1,699

Total Other Income	\$92,337
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Total Income	\$854,294
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Operating Expenses:

Supply and Distribution	\$699,856
Billing and Accounting	101,208

Total Operating Expenses	\$801,064
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Total Expenses	\$801,064
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Balance Available for Capital Improvements & Debt Service	\$53,230
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Transfer to Communications Capital Improvement Fund	\$0
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Total Expenses	\$801,064
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COMMUNICATIONS CAPITAL RESERVE FUND INCOME AND EXPENSES

Beginning Balance 1/1/2023	\$112,518
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Transfer Income:	\$0
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Capital Expenses:

Communications	\$30,728
Clerks Office	0

Total Capital Improvements	\$30,728
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Ending Balance 12/31/2023	\$81,790
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FACTS/FIGURES

- **3,400** Facebook followers
- **56,192** Facebook visits
- **7,200** content interactions on social media outlets
- **231** posts on social media outlets
- Maintain **23** miles of fiber service in the City of Bryan
- Maintain **85** miles of fiber service throughout Williams County
- Maintain **72** miles of HFC plant for residential and business internet service

FIVE YEAR SUMMARY



ELECTRIC DEPARTMENT

Finances	2023	2022	2021	2020	2019
Income	\$19,744,288	\$20,720,671	\$19,700,187	\$18,925,398	\$20,388,803
Expenditures	16,683,613	17,421,789	17,577,089	16,841,184	16,971,859
Margin	\$3,060,675	\$3,298,882	\$2,123,098	\$2,084,214	\$3,416,944
Capital Improvements	0	0	0	0	0
Fund Transfers Out	2,206,044	4,050,637	1,043,000	1,300,000	4,573,779
Fund Balance Dec. 31	\$12,293,722	\$11,439,091	\$12,190,846	\$11,110,748	\$10,326,534

Meters

Residential	5,066	5,059	5,066	5,066	5,049
Commercial	693	690	700	697	707
Industrial	54	54	54	56	58
Unbilled Services	243	242	239	238	235
*Total Meters	6,056	6,045	6,059	6,057	6,049

kWh Used

Residential	44,851,478	46,517,662	46,237,536	46,499,234	46,209,590
Commercial	22,461,925	23,213,040	23,066,681	22,868,649	24,689,213
Industrial	96,000,154	100,856,861	97,702,402	93,933,805	105,540,919
Unbilled Services	6,393,099	6,350,385	6,516,045	6,207,992	7,127,859
Total kWh	169,706,656	176,937,948	173,522,664	169,509,680	183,567,581
Peak Demand (kilowatts)	36,452	38,176	38,098	37,758	37,533

WATER DEPARTMENT

Finances	2023	2022	2021	2020	2019
Income	\$2,947,855	\$3,107,597	\$2,589,029	\$2,438,621	\$2,353,208
Expenditures	2,026,154	2,154,122	1,657,694	1,760,174	1,692,051
Margin	\$921,701	\$953,475	\$931,335	\$678,447	\$661,157
Capital Improvements	0	0	0	0	15,736
Fund Transfers Out	500,000	1,470,000	227,677	100,005	996,905
Debt Service	61,432	86,517	84,086	81,722	64,241
Fund Balance Dec. 31	\$2,465,330	\$2,105,061	\$2,708,103	\$2,088,531	\$1,591,811

Meters

Residential	3,266	3,257	3,253	3,246	3,239
Commercial & Industrial	609	600	601	608	601
Unbilled Services	26	21	21	22	27
*Total Meters	3,901	3,878	3,875	3,876	3,867

Gallons Used

Residential	132,977,196	130,360,692	134,126,872	141,783,400	130,197,628
Commercial & Industrial	195,734,396	209,666,644	171,416,916	159,395,808	178,165,372
Unbilled Services	33,391,714	26,291,586	27,337,576	22,106,867	23,265,356
Total Gallons	362,103,306	366,318,922	332,881,364	323,286,075	331,628,356

COMMUNICATIONS DEPARTMENT

Finances

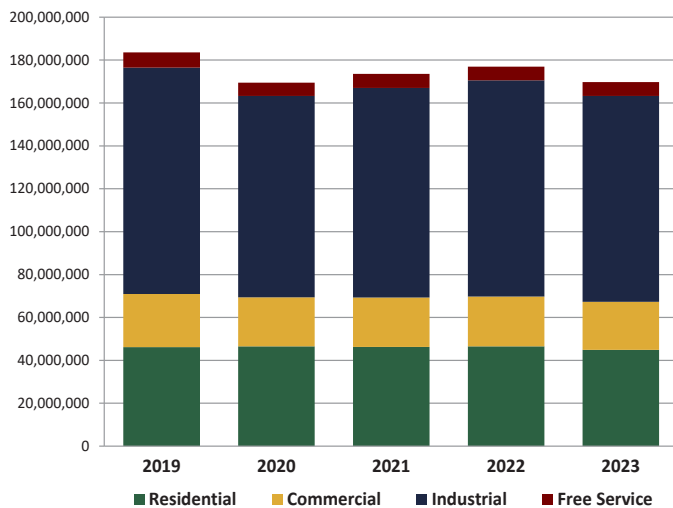
	2023	2022	2021	2020	2019
Income	\$854,294	\$1,435,345	\$2,193,537	\$2,400,387	\$2,474,493
Expenditures	801,064	1,598,195	2,372,074	2,329,432	2,337,172
Margin	\$53,230	-\$162,850	-\$178,537	\$70,955	\$137,321
Capital Improvements	0	0	0	0	14,651
Fund Transfers Out	0	47,000	53,510	53,250	55,000
Fund Balance Dec. 31	\$1,914,484	\$1,861,254	\$2,071,104	\$2,303,151	\$2,285,446

Customers

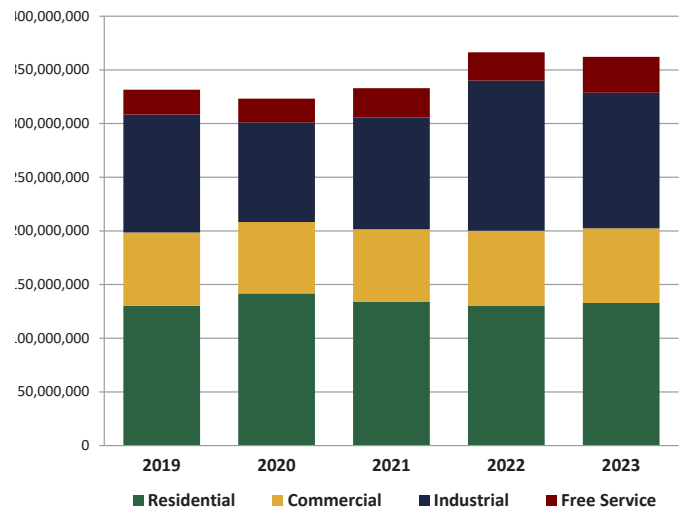
Cable TV Billed Services	0	0	1,217	1,196	1,308
Cable TV Unbilled Services	0	0	22	22	21
Total Cable TV Customers	0	0	1,239	1,218	1,329
Internet Residential	981	1,062	1,404	1,486	1,524
Internet Commercial/Industrial	83	85	86	84	89
Internet Unbilled Services	20	17	15	15	15
Total Internet Customers	1,084	1,164	1,505	1,585	1,628
Fiber Commercial/Industrial	23	24	25	25	25
Fiber Unbilled Services	19	15	14	14	13
Total Fiber Customers	42	39	39	39	38
*Total Customers	1,126	1,203	2,783	2,842	2,995

**End of Year Meter and Customer Counts*

kWh by Customer Class



Gallons by Customer Class



ENGINEERING DEPARTMENT



Our Engineering Department has many important responsibilities, most notably is to design improvements to the public utility infrastructure for our community and areas throughout Williams County. Our team of engineers play a significant role in assisting all departments in the development and completion of many electric, water, and communications capital projects. The Department is also actively involved with many other daily activities that assist with providing quality services to meet the needs of our customers. A small sampling of the Engineering Department's responsibilities 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.**
- **Prepare project competitive bidding and quotation information.**
- **Oversight for work completed in city right-of-way for BMU projects.**
- **Provide 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, 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 also



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.

In 2023, the Department completed design upgrades to several municipal wells, backup generators, and more than 3,500 feet of water main replacement projects in several locations throughout the city. Assistance was also provided in the design and construction of the power plant substation, transformer upgrades, and new electric services for both our residential and business customers.

The Engineering Department plays a key role in shaping our future as they design and build the infrastructure that supports our local community. As we close out 2023, our focus has shifted to 2024 projects that will improve infrastructure and continue to provide our customers with reliable service.



UNBILLED UTILITY SERVICES



2023 UNBILLED UTILITIES

	Electricity	Water	Communications
Street and Security Lights	\$92,077	\$0	\$0
Utility Departments, Buildings & Facilities	235,554	22,582	102,156
Parks, Pools & Other Recreational Areas	61,349	64,090	3,660
Bryan Community Center	5,422	694	696
Municipal Departments, Buildings & Facilities	323,619	79,166	88,800
County Miscellaneous Facilities	2,352	0	3,600
Traffic Signals	13,655	0	0
Bryan City Schools	3,729	0	14,400
Day in the Park, Jubilee, Christmas Lights	1,797	625	0
Bard Fountain	5,433	883	0
Other	0	0	9,000
Unbilled Utilities	\$744,987	\$168,040	\$222,312

ELECTRIC DEPARTMENT

Maintenance Services (Labor & Equip.) Provided

Street Light Installation and Maintenance	\$21,462
All Other City Services and Civic Organizations	88,899

Total Unbilled Maintenance (Labor) Provided including Equipment	\$110,361
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Materials Provided

New Street Lights and Replacements	\$12,656
All Other City Services & Civic Organizations	10,840

Total Unbilled Materials Provided	\$23,496
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Total Unbilled Electricity Provided	\$744,987
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TOTAL LABOR, MATERIALS and ELECTRICITY	\$878,844
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WATER DEPARTMENT

Maintenance Services (Labor) Provided

Installation and Services to City Facilities	\$22,448
Installation and Maintenance of Fire Hydrants	156
Equipment	21,970

Total Unbilled Maintenance (Labor) Provided including Equipment	\$44,574
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Materials Provided

Water Lines and Services to City Facilities	\$5,107
New Fire Hydrants and Replacements	0

Total Unbilled Materials Provided	\$5,107
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Total Unbilled Water Provided	\$168,040
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TOTAL UNBILLED LABOR, MATERIALS, and WATER	\$217,721
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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
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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
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Total Unbilled Communications Provided	\$222,312
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TOTAL UNBILLED LABOR, MATERIALS, AND COMMUNICATIONS	\$222,312
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TOTAL UNBILLED UTILITY SERVICES	\$1,318,877
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