



## ***2016 ANNUAL REPORT***

# FINANCIAL HIGHLIGHTS

|                                  | 2016         | 2015         | Change      | % Change |
|----------------------------------|--------------|--------------|-------------|----------|
| <b>ELECTRIC DEPARTMENT</b>       |              |              |             |          |
| <b>OPERATIONS</b>                |              |              |             |          |
| Income                           | \$21,599,614 | \$20,355,168 | \$1,244,446 | 6.1%     |
| Expenses                         | 19,055,666   | 18,030,435   | 1,025,231   | 5.7%     |
| Balance                          | 2,543,948    | 2,324,733    | 219,215     | 9.4%     |
| <b>FINANCE</b>                   |              |              |             |          |
| Capital Improvements             | 434,064      | 2,276,666    | (1,842,602) | -80.9 %  |
| Fund Balance Dec. 31             | 12,258,726   | 10,170,852   | 2,087,874   | 20.5%    |
| <b>Total Meters</b>              | 6,056        | 6,038        | 18          | 0.3%     |
| <b>Total kWhr</b>                | 209,387,064  | 206,568,686  | 2,818,378   | 1.4%     |
| <b>Peak Demand (kilowatts)</b>   | 55,600       | 45,290       | 10,310      | 22.8%    |
| <b>WATER DEPARTMENT</b>          |              |              |             |          |
| <b>OPERATIONS</b>                |              |              |             |          |
| Income                           | \$1,967,302  | \$1,871,650  | \$95,652    | 5.1%     |
| Expenses                         | 1,501,585    | \$1,457,472  | 44,113      | 3.0%     |
| Balance                          | 465,717      | 414,178      | 51,539      | 12.4%    |
| <b>FINANCE</b>                   |              |              |             |          |
| Capital Improvements             | 242,561      | 284,911      | (42,350)    | -14.9%   |
| Fund Balance Dec. 31             | 1,660,961    | 1,437,805    | 223,156     | 15.5%    |
| <b>Total Meters</b>              | 3,904        | 3,925        | (21)        | -0.5%    |
| <b>Total Gallons</b>             | 515,759,000  | 497,422,000  | 18,337,000  | 3.7%     |
| <b>COMMUNICATIONS DEPARTMENT</b> |              |              |             |          |
| <b>OPERATIONS</b>                |              |              |             |          |
| Income                           | \$2,608,305  | \$2,495,181  | \$113,124   | 4.5%     |
| Expenses                         | 1,981,378    | 1,918,958    | 62,420      | 3.3%     |
| Balance                          | 626,927      | 576,223      | 50,704      | 8.8%     |
| <b>FINANCE</b>                   |              |              |             |          |
| Capital Improvements             | 49,056       | 15,357       | 33,699      | 219.4%   |
| Debt Service                     | 294,642      | 350,000      | (55,358)    | -15.8%   |
| Fund Balance Dec. 31             | 1,814,400    | 1,531,171    | 283,229     | 18.5%    |
| <b>Total Customers</b>           | 2,957        | 3,293        | (336)       | -10.2%   |

# UTILITY OVERVIEW

Bryan Municipal Utilities is a customer-owned, non-profit municipal utility providing the best quality water, electric, and communications services to the residents of Bryan, Ohio.

The utility began over 100 years ago with the establishment of the Bryan waterworks in 1892. Electric service was added in 1896 when the residents of Bryan voted to create their own electric company. Communications services were added in 1998 to provide Bryan with a fiber optic system designed to provide television, high-speed Internet access and data transfer. Presently, the utility serves approximately 6,000 customers.



*FROM LEFT Bill Pepple, Karen Ford, Jim Salsbury (Chairman), Dick Long, Tom Sprow*

The Bryan Board of Public Affairs (BPA) 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, and the meetings are broadcast on BMU-TV and streamed live.

The Board keeps itself informed of utility services, financial position, and personnel on a regular basis. The BPA has four committees that meet once a month. At these meetings, management discusses all significant utility activities with Board members.

The Board continues to work hard to offer the best possible electric, water and communications services for the citizens of Bryan.

## 2016 ELECTRIC OPERATING INCOME AND EXPENSES

|   |                     |
|---|---------------------|
| Operating Income:                                 |                     |
| Charges for Services                              | \$20,937,665        |
| Other Operating Income                            | \$180,007           |
| Total Operating Income                            | \$21,117,672        |
| Other Income:                                     |                     |
| Interest Income                                   | \$44,583            |
| Other Miscellaneous Income                        | \$437,359           |
| Total Other Income                                | \$481,942           |
| <b>Total Income</b>                               | <b>\$21,599,614</b> |
| Operating Expenses:                               |                     |
| Purchase Power                                    | \$13,376,259        |
| Power Plant Operations                            | \$933,709           |
| Solar Lease                                       | \$607,648           |
| Distribution Operations                           | \$1,437,623         |
| Billing and Accounting                            | \$319,159           |
| Customer Service and Administration               | \$817,695           |
| Maintenance                                       | \$90,916            |
| Board of Public Affairs                           | \$59,904            |
| Electric Communications                           | \$312,532           |
| Hydroelectric Plant Operations                    | \$350,429           |
| Total Operating Expenses                          | \$18,305,874        |
| Other Expenses:                                   |                     |
| Kilowatt Hour Tax to State of Ohio                | \$67,267            |
| Kilowatt Hour Tax to General Fund                 | \$682,525           |
| Total Other Expenses                              | \$749,792           |
| <b>Total Expenses</b>                             | <b>\$19,055,666</b> |
| <b>Balance Available for Capital Improvements</b> | <b>\$2,543,948</b>  |
| Capital Improvements                              |                     |
| Property  | \$0                 |
| Power Plant                                       | \$16,604            |
| Distribution                                      | \$259,174           |
| Billing and Accounting                            | \$0                 |
| Customer Service and Administration               | \$66,479            |
| Electric Communications                           | \$16,077            |
| Hydroelectric Plant                               | \$75,730            |
| <b>Total Capital Improvements</b>                 | <b>\$434,064</b>    |
| Transfer to General Maintenance Fund              | \$22,010            |

## 2016 FUND TRANSACTIONS AND BALANCES

|                       | Balance<br>Dec. 31, 2015 | Income              | Expenditures        | Capital          | Balance<br>Dec. 31, 2016 |
|-----------------------|--------------------------|---------------------|---------------------|------------------|--------------------------|
| Electric Fund         | \$10,170,852             | \$21,599,614        | \$19,055,666        | \$434,064        | \$12,258,726*            |
| Utility Deposit Fund  | \$165,537                | 37,588              | 35,773              | 0                | 167,352                  |
| Generator Maintenance | \$187,605                | 22,010              | 0                   | 0                | 209,615                  |
| <b>TOTAL</b>          | <b>\$10,523,994</b>      | <b>\$21,659,212</b> | <b>\$19,091,439</b> | <b>\$434,064</b> | <b>\$12,635,693</b>      |

\* \$22,010 transferred to Generator Maintenance Fund

# ***ELECTRIC***



In 2016, the Electric Department focused on updating deteriorating components of both the overhead and underground electric system. First, we worked with many homeowners to replace their meter bases and service entrance wires along with updating the utility service wires and poles to their homes. These upgrades have greatly improved the safety and welfare of both utility employees and the occupants of these homes.

The department has continued with the replacement of deteriorating transmission poles in the southeast and northwest quadrants of our electric system. The poles being replaced are from the results of a pole testing survey completed in 2014 in the southeast section, and in 2016 in the northwest section of the electric system. The replacements significantly improve the stability and robustness of the power system.



In 2016, we completed projects in the 1000 block of East High Street, the replacement of the service to Wendy's restaurant, the relocation of a transformer and a service upgrade for Hasch Body Shop, as well as the electric service replacement for the Town & Country Farm Store.

Crews installed underground conduit between Lynn/Beech and Pierce/Wilson streets, the primary and secondary cable replacement in the phase B section of the East Village Subdivision. Crews also installed conduits for the overhead to underground conversion in Weaver's Subdivision near West High Street and Bruce Drive.



The department also installed new service placements for Daavlin, Best One Tire, Bryan City Schools, Bryan Area Animal Hospital, and a pole line in the 400 block of East High Street. Along with the rebuilding of the alley pole line by Chet's Auto Electric/Eagles, Yanfeng service upgrade, D & M Tire pole line rebuild, the Norlick Place Subdivision Water Treatment Plant Service and the Ohio Art Primary Service installation. These projects provide system reliability and also accommodate system growth and many years of dependable service to new customers in our service footprint.



Finally, the Line Crew competed in the AMP Line Worker Rodeo. We obtained the Platinum designation for RP3, received a certificate of excellence in reliability from APPA, earned an AMP System Improvement Award for East Village Primary and Secondary Phase A, and an AMP Safety Award. The department is also called upon to support many community functions and events, including Christmas Lights in the downtown area, the Jubilee, the Day in the Park, and many others.

Our commitment to exceptional customer service, dedication to our customers, and the devotion to teamwork, makes the Electric Department second to none in our field.



## 2016 WATER OPERATING INCOME AND EXPENSES

|   |                    |
|---|--------------------|
| Operating Income:                                 |                    |
| Charges for Services                              | \$1,915,169        |
| Other Operating Income                            | 7,925              |
| Total Operating Income                            | \$1,923,094        |
| Other Income:                                     |                    |
| Interest Income                                   | \$6,407            |
| Other Miscellaneous Income                        | \$37,801           |
| Total Other Income                                | \$44,208           |
| <b>Total Income</b>                               | <b>\$1,967,302</b> |
| Operating Expenses:                               |                    |
| Supply and Distribution                           | \$1,112,998        |
| Billing and Accounting                            | 106,983            |
| Customer Service and Administration               | 281,604            |
| <b>Total Expenses</b>                             | <b>\$1,501,585</b> |
| <b>Balance Available for Capital Improvements</b> | <b>\$465,717</b>   |
| Capital Improvements:                             |                    |
| Supply and Distribution                           | 218,581            |
| Billing and Accounting                            | 0                  |
| Customer Service and Administration               | 23,980             |
| <b>Total Capital Improvements</b>                 | <b>\$242,561</b>   |

## 2016 FUND TRANSACTIONS AND BALANCES

|                      | Balance<br>Dec. 31, 2015 | Income             | Expenditures       | Capital          | Balance<br>Dec. 31, 2016 |
|----------------------|--------------------------|--------------------|--------------------|------------------|--------------------------|
| Water Fund           | \$1,437,805              | \$1,967,302        | \$1,501,585        | \$242,561        | \$1,660,961              |
| Utility Deposit Fund | \$165,538                | 37,587             | 35,772             | 0                | 167,353                  |
| <b>TOTAL</b>         | <b>\$1,603,343</b>       | <b>\$2,004,889</b> | <b>\$1,537,357</b> | <b>\$242,561</b> | <b>\$1,828,314</b>       |

## 2016 WATER PRODUCTION DATA

|   | Meters       | Gallons Used       |
|---|--------------|--------------------|
| Residential                                   | 3,249        | 140,258,228        |
| Commercial & Industrial                       | 612          | 184,980,400        |
| City of Bryan (Unbilled Service)              | 43           | 33,424,145         |
| Bulk Water & Hydrant Meter Water              | -            | 1,650,542          |
| Filter Backwash/Production Water              | -            | 2,463,550          |
| Hydrant Flushing                              | -            | 5,500,000          |
| Other   |              | 1,000,000          |
| <b>Total</b>                                  | <b>3,904</b> | <b>369,276,865</b> |
| Line Losses (28.4%)                           |              | 146,482,135        |
| <b>Total Metered and Line Loss in Gallons</b> |              | <b>515,759,000</b> |

# WATER



This past year, the BMU Water Department stayed busy with numerous regulatory updates, system improvements, maintenance, and continuing education.

All public water systems are required to have a Source Water Protection Plan. We began updating our plan two years ago by identifying the new boundaries of our water protection area based on new guidelines and increased water usage. This year, we updated the Potential Pollution Source Inventory within these new boundaries.

Water treatment staff completely rewrote our contingency plan. This plan is a guidebook to assist in times of emergencies. Staff also updated our mandated sample siting plans which detail where and when we collect specific samples for water quality. The Ohio Environmental Protection Agency (OEPA) also performed their triennial survey and inspection of all features of the water system.



We contracted to have both water towers pressure washed to help extend the life of the exterior coating. Additionally, we drained the one-million gallon Fountain City Tower for internal washout and inspection. We rehabilitated the pump and motor at well 2. This well is one of seven that we depend on for our daily supply of water. Inside the water treatment plant we removed and repaired the High Service 2 pump and motor and we also replaced one of the filter backwash valve actuators.



The water distribution crew installed 412 feet of new 8" water main in the 100 block of Baker Street. This new main replaces two old troublesome cast iron lines. The crew also disconnected 650 feet of unneeded old 4" cast iron water main in the 800 block of East High Street. A developer extended 340 feet of a 6" water main on Woodstream to serve new residential building sites.

The crew flowed and inspected all 538 fire hydrants for proper operation. They rebuilt nine hydrants, replaced two and added an additional two to the system. They also installed 12 new water services, upgraded 32 services and repaired four underground main valves.



All Water Department personnel are highly trained and have passed certification testing by the Ohio Environmental Protection Agency (OEPA). Continuing education on a regular basis is mandatory and recertification is required every two years. With certification comes great responsibility in operating a public water system and we remain dedicated and committed to delivering safe drinking water to you.

## 2016 COMMUNICATIONS OPERATING INCOME AND EXPENSES

|  |                    |
|--|--------------------|
| Operating Income:  |                    |
| Charges for Services   | \$2,521,710        |
| Other Operating Income   | \$76,693           |
| Total Operating Income   | \$2,598,403        |
| Other Income:  |                    |
| Interest Income  | \$5,741            |
| Other Miscellaneous Income   | \$4,161            |
| Total Other Income   | \$9,902            |
| <b>Total Income</b>  | <b>\$2,608,305</b> |
| Operating Expenses:  |                    |
| Supply and Distribution  | \$1,893,405        |
| Billing and Accounting   | \$87,767           |
| Interest on Electric Department Loan                               | \$206              |
| <b>Total Expenses</b>  | <b>\$1,981,378</b> |
| <b>Balance Available for Capital Improvements and Debt Service</b> | <b>\$626,927</b>   |
| Capital Improvements   |                    |
| Supply and Distribution  | \$49,056           |
| Billing and Accounting   | -                  |
| <b>Total Capital Improvements</b>                                  | <b>\$49,056</b>    |
| Debt Service (1)   |                    |
| Balance – January 1, 2016  | \$294,642          |
| <b>Principal Payment</b>   | <b>\$294,642</b>   |
| Balance – December 31, 2016  | \$0.00             |

(1) Loan for Communications Department start-up expenses, head-end and other electronic equipment

## 2016 FUND TRANSACTIONS AND BALANCES

|                     | Balance<br>Dec. 31, 2015 | Income      | Expenditures | Capital  | Debt Service | Balance<br>Dec. 31, 2016 |
|---------------------|--------------------------|-------------|--------------|----------|--------------|--------------------------|
| Communications Fund | \$1,531,171              | \$2,608,305 | \$1,981,378  | \$49,056 | \$294,642    | \$1,814,400              |

## 2016 CUSTOMER DATA

|                         | Cable TV    | Internet    | Fiber     |
|-------------------------|-------------|-------------|-----------|
| Residential             | 1568        | 1241        | 0         |
| Commercial & Industrial | 0           | 109         | 23        |
| Unbilled Services       | 0           | 0           | 16        |
| <b>Total</b>            | <b>1568</b> | <b>1350</b> | <b>39</b> |



# COMMUNICATIONS



In 2016, the Communications Department continued to operate within the City of Bryan and Williams County to deliver excellent service to our customers. These services include Cable Television, Internet, and Fiber Network services.

On our cable TV system, we added several new programs for our customers, and these included programming on our regular cable service, as well as our digital cable service. We added Fox Sports 2 on our regular service, and relocated Nat Geo Wild from Digital to regular service. We also added Women's Entertainment to Digital, and Fox Sports 2, Hallmark, Fox Business, FX, FXX, Cooking Channel, and Golf to our high definition service. We continue to work with programmers to keep costs as low as possible in order to offer the types of video programming that our customers request. We also completed a large upgrade project to our Digital system, which allowed us to add these new programs.



We continue to offer high speed Internet services to our customers with the cable modem technology that is used by most of the industry. We continue to maintain the system in a way that delivers the best quality Internet service available to our customers on our system here at our operation. There is an ever increasing demand for more bandwidth for Internet customers, due to the expansion of streaming content, and the multiple devices that customers now have in their homes for viewing many forms of data and video products in the world of technology that we now live in.



The department also completed a project in our network, which added more backup storage capacity for our company. This Network Attached Storage (NAS) will provide us with needed storage for important files and information for our continuing needs.

The department completed several fiber and network projects in 2016. These fiber projects included Bryan High School, Bryan Middle School, North Central School, Montpelier, and the BMU administration building, plus the new City engineering maintenance building. We also added Best One Tire as a new fiber business customer. We also upgraded the fiber connection for the Bryan Municipal Court in order to provide them with more bandwidth for their offices. Williams County requested another fiber connection for their network communications, and we were in a position to meet that need. This will enable them to transport more data between their main offices for the operations of the County.



We completed the engineering and design for a new communications facility, which is planned for construction in the future. This building would be an efficient location in which to house and operate the fiber and network systems that supply communications to BMU and all of our fiber customers.

During 2016, the Communications Department team worked with the BMU-TV video team to install new high definition cameras in the BPA meeting room. These new cameras are connected to new fiber optic equipment, and produce a high quality video source for our BPA meetings. The BMU video crew also continued to produce quality programs for our customers, which are broadcast on BMU Cable channels 3 and 4 as well as available on the utilities YouTube Channel. The availability of local programming of events in our community is one of the special features of BMU Communications.

## 2016 POWER PRODUCTION DATA

|   |                    |
|---|--------------------|
| Gross Kilowatt Hours Generated by Power Plant       | 2,209,917          |
| Gross Kilowatt Hours Generated by Auglaize Hydro    | 8,743,303          |
| Gross Kilowatt Hours Generated by Solar Field       | 2,520,287          |
| <b>Total Gross Kilowatt Hours Generated</b>         | <b>13,473,507</b>  |
| Kilowatt Hours Purchased                            |                    |
| American Municipal Power (AMP)                      | 28,376,295         |
| Belleville Hydroelectric Project (JV5)              | 8,341,305          |
| New York Power Authority (NYPA)                     | 6,773,346          |
| AMP Fremont Energy Center (AFEC)                    | 34,730,564         |
| Prairie State Energy Campus                         | 60,317,807         |
| Blue Creek Wind Farm                                | 5,247,632          |
| Landfill Gas  | 8,784,000          |
| American Electric Power (AEP)                       | 30,541,339         |
| Meldahl Hydroelectric Project                       | 4,839,844          |
| Greenup Hydroelectric Project                       | 3,102,774          |
| AMP Hydroelectric Projects (CSW)                    | 4,858,651          |
| <b>Total of Gross Kilowatt Hours Purchased</b>      | <b>195,913,557</b> |
| <b>Gross Generated and Purchased Kilowatt Hours</b> | <b>209,387,064</b> |
| Kilowatt Hours Used                                 |                    |
| Customer Metered Kilowatt Hours                     | 188,325,041        |
| Auglaize Hydro Kilowatt Hours Sold                  | 8,656,644          |
| Power Plant Use                                     | 1,156,112          |
| Kilowatt Hour Line Loss (5.4%)                      | 11,249,267         |
| <b>Total Metered and Line Loss</b>                  | <b>209,387,064</b> |

# POWER PLANT



The Power Plant was busy in 2016 running peak shaving generation for capacity and transmission savings. With the hot summer, electrical demands were high. During the high demand periods, the Power Plant used gas turbine generators to lower the peak electrical use for the City of Bryan. The City of Bryan electrical costs are in part based upon the usage during these peaks. By generating during the peaks, overall demand of the city of Bryan is reduced, which results in electrical cost savings for the 2017 billing period. To make certain that the Power Plant generators are operating at the time of the peak demand, the crews ran a total of 21 days of generation. These peak loads generally occur during the late afternoon into early evening. In 2016 the peak occurred at 3 PM on July 11th.



After one of the summer peak shaving generation runs, our General Electric 300 HP electric starting motor failed. This motor is used to bring the GT#6 gas turbine up to ignition speed and also to aid in proper cool down after shutting down the turbine. The starting motor failure was due to a broken main shaft. IPS Monarch, of Detroit Michigan, machined a new shaft and rebuilt the slip ring and brush area. The power plant crews reinstalled the repaired motor in December and fired the unit back up with a successful generation run.



Substation and electrical system reliability are two areas of importance for Bryan Municipal Utilities. In order to maintain system reliability, studies and analyses are performed to assess the current state of the system and anticipate future needs. A recent electrical system study revealed the need to modify the settings of the substation distribution and transmission protection relays. The Power Plant completed all of the setting changes and testing for the distribution areas and the transmission relay changes are in progress.



Plant employees were busy with many maintenance items at the power plant and substations. We took oil samples and performed detailed analyses on 67 oil-filled devices throughout our electrical distribution system. Autotransformers, voltage regulators, and oil-filled circuit breakers were analyzed to determine their electrical condition. The results were compared to samples from previous years to create a history of the devices conditions. Several oil-filled units were pumped down and filtered through our Velcon filtering unit. After filtering, the oil was pumped back into the device and new samples taken and analyzed.

During 2016 both the Cherry Street and Baker street substations were taken out of service for a week in order to do maintenance. This maintenance includes performing electrical testing of all transformers, circuit breakers, load tap changers, lighting arrestors and voltage regulators. All of BMU's substations are on a five year schedule for maintenance and testing.

We look forward to challenges we will face in 2017. Generation availability and reliability will continue to be in the forefront of our efforts to bring affordable and reliable power to our BMU customers.

# FIVE YEAR SUMMARY

|                            | 2016               | 2015               | 2014               | 2013               | 2012               |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>ELECTRIC DEPARTMENT</b> |                    |                    |                    |                    |                    |
| Income                     | \$21,599,614       | \$20,355,168       | \$21,509,185       | \$20,986,250       | \$20,981,855       |
| Expenses                   | 19,055,666         | 18,030,435         | 19,257,095         | 18,507,714         | 18,056,710         |
| Balance                    | \$2,543,948        | \$2,324,733        | \$2,252,090        | \$2,478,536        | \$2,925,145        |
| Capital Improvements       | 434,064            | 2,276,666          | 1,448,824          | 743,792            | 1,568,474          |
| Debt Service               | 0                  | 0                  | 0                  | 0                  | 0                  |
| Fund Balance Dec. 31       | \$12,258,726       | 10,170,852         | 10,133,675         | 9,497,751          | 7,935,660          |
| <b>Meters</b>              |                    |                    |                    |                    |                    |
| Residential                | 5,066              | 5,058              | 5,052              | 5,047              | 5,049              |
| Commercial                 | 699                | 693                | 690                | 699                | 699                |
| Industrial                 | 58                 | 55                 | 53                 | 52                 | 53                 |
| Unbilled Services          | 233                | 232                | 235                | 234                | 235                |
| <b>Total Meters</b>        | <b>6,056</b>       | <b>6,038</b>       | <b>6,030</b>       | <b>6,032</b>       | <b>6,036</b>       |
| <b>kWhr Used</b>           |                    |                    |                    |                    |                    |
| Residential                | 46,665,280         | 47,607,070         | 48,025,060         | 47,115,840         | 46,799,040         |
| Commercial                 | 27,037,855         | 29,024,771         | 28,004,048         | 28,420,807         | 26,816,976         |
| Industrial                 | 108,107,254        | 107,251,672        | 113,504,016        | 123,586,805        | 127,200,020        |
| Unbilled Services          | 6,514,652          | 6,250,112          | 6,594,195          | 7,250,720          | 6,757,880          |
| <b>Total kWhr (1)</b>      | <b>209,387,064</b> | <b>206,568,686</b> | <b>217,831,336</b> | <b>215,552,698</b> | <b>218,062,784</b> |
| Peak Demand (kilowatts)    | 55,600             | 45,290             | 38,420             | 40,480             | 41,490             |

(1) Includes line loss and other use

## WATER DEPARTMENT

|                           |                    |                    |                    |                    |                    |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Income                    | \$1,967,302        | \$1,871,650        | \$2,032,307        | \$1,920,381        | \$1,826,057        |
| Expenses                  | 1,501,585          | 1,457,472          | 1,347,453          | 1,360,867          | 1,358,391          |
| Balance                   | \$465,717          | \$414,178          | \$684,854          | \$559,514          | \$467,666          |
| Capital Improvements      | 242,561            | 284,911            | 452,499            | 308,117            | 749,417            |
| Debt Service              | 0                  | 0                  | 0                  | 0                  | 49,124             |
| Fund Balance Dec. 31      | 1,660,961          | 1,437,805          | 1,308,538          | 1,076,183          | 824,786            |
| <b>Meters</b>             |                    |                    |                    |                    |                    |
| Residential               | 3,249              | 3,268              | 3,225              | 3,219              | 3,221              |
| Commercial and Industrial | 612                | 616                | 621                | 626                | 624                |
| Unbilled Services         | 43                 | 41                 | 43                 | 47                 | 47                 |
| <b>Total Meters</b>       | <b>3,904</b>       | <b>3,925</b>       | <b>3,889</b>       | <b>3,892</b>       | <b>3,892</b>       |
| <b>Gallons Used</b>       |                    |                    |                    |                    |                    |
| Residential               | 140,258,228        | 144,068,540        | 144,518,836        | 146,670,084        | 159,665,088        |
| Commercial and Industrial | 184,980,400        | 212,489,596        | 256,792,140        | 235,999,984        | 247,386,040        |
| Unbilled Services         | 33,424,145         | 30,938,535         | 30,469,854         | 27,424,950         | 31,933,085         |
| <b>Total Gallons (1)</b>  | <b>515,759,000</b> | <b>497,422,000</b> | <b>527,079,000</b> | <b>520,697,000</b> | <b>572,198,000</b> |

(1) Includes line loss and other use

## COMMUNICATIONS DEPARTMENT

|                        |              |              |              |              |              |
|------------------------|--------------|--------------|--------------|--------------|--------------|
| Income                 | \$2,608,305  | \$2,495,181  | \$2,446,391  | \$2,416,891  | \$2,409,763  |
| Expenses               | 1,981,378    | 1,918,958    | 1,844,763    | 2,000,282    | 1,918,632    |
| Balance                | \$626,927    | \$576,223    | \$601,628    | \$416,609    | \$491,131    |
| Capital Improvements   | 49,056       | 15,357       | 57,934       | 206,739      | 62,516       |
| Debt Service           | 294,642      | 350,000      | 334,000      | 165,358      | 104,000      |
| Fund Balance Dec. 31   | 1,814,400    | 1,531,171    | 1,320,305    | 1,110,611    | 1,066,099    |
| <b>Customers</b>       |              |              |              |              |              |
| Cable TV               | 1,568        | 1,721        | 1,777        | 1,936        | 1,996        |
| Internet               | 1,350        | 1,534        | 1,510        | 1,548        | 1,521        |
| Fiber                  | 39           | 38           | 37           | 36           | 35           |
| <b>Total Customers</b> | <b>2,957</b> | <b>3,293</b> | <b>3,324</b> | <b>3,520</b> | <b>3,552</b> |



# AUGLAIZE HYDROELECTRIC PLANT



At the start of 2016, a steady river flow helped keep the plant's generation well above average. However; a moderate drought hit in mid-June and river flows never recovered for the remainder of the year. The repair of unit #3 runner shaft kept the plant short of full capacity until April, missing out on some of the largest river flows of the season. The plant ended with an annual generation total of 8,743,303 kilowatt hours, enough to supply 857 average homes with electricity for the year.



The unit #3 generator suffered a mechanical failure in 2015 and repair work began in January 2016. The repair involved disassembling the generator and runner area to gain access to the damaged runner shaft. After disassembly, we determined that the lower bearing surface of the runner shaft was manufactured with a stainless steel sleeve that was worn and separated from the main shaft. We were able to repair the runner shaft in place by installing a new split stainless steel sleeve and TIG welding it. By repairing the shaft in place, this saved us time and costs of a total disassembly. Unit #3 was back in service on April 7, 2016.



A new Lignum-Vitae stave bearing was installed on the lower runner bearing of unit #2. Lignum-Vitae a natural wood product, is best suited for water lubricated hydroelectric bearings. Unit #2 is a Dominion Engineering designed hydro runner from the 1940's and the stave bearing is not adjustable and must be replaced when it is worn.



Richland Roofing completed minor repairs of the original concrete tile roof. Several metal and fiber roof patches were installed over the entire roof area. A large articulating lift was used to reach the repair areas, which made the work much safer for the workers. The power plant crew installed new electric service to the main plant floor. New conduit, wire and outlets were installed on multiple circuits to eliminate the old, overloaded services. Also, improved lighting was installed in the back room along with an addition of 120 volt outlets. We organized and sorted all the spare parts and equipment in the back repair and storage areas. New shelving was installed and older, unused parts and equipment was scrapped, increasing the workspace and storage areas.

Major work planned for 2017 will consist of repairing the concrete supporting the flood gate lifting equipment. We have completed temporary cosmetic repairs to the concrete and look forward to engineering a permanent solution.



# UNBILLED SERVICES

## 2016 UNBILLED UTILITIES

|   | ELECTRICITY      | WATER            | COMMUNICATIONS   |
|---|------------------|------------------|------------------|
| Street and Security Lights                    | \$74,239         | \$0              | \$0              |
| Utility Departments, Building & Facilities    | 195,396          | 14,639           | 70,861           |
| Parks, Pools & Other Recreational Areas       | 45,111           | 29,650           | 0                |
| Bryan Community Center                        | 7,084            | 536              | 1,483            |
| Municipal Departments, Buildings & Facilities | 347,018          | 55,432           | 101,293          |
| County Misc. Facilities                       | 3,496            | 116              | 12,748           |
| Traffic Signals                               | 10,513           | 0                | 0                |
| Bryan City Schools                            | 2,852            | 0                | 32,735           |
| Day in the Park, Jubilee, Christmas Lights    | 2,012            | 299              | 0                |
| Bard Fountain                                 | 3,988            | 342              | 0                |
| Other   | 0                | 0                | 7,574            |
| <b>Unbilled Utilities</b>                     | <b>\$691,709</b> | <b>\$101,014</b> | <b>\$226,694</b> |

## 2016 UNBILLED LABOR, MATERIALS & UTILITIES

### ELECTRIC DEPARTMENT

|   |                  |
|---|------------------|
| Maintenance Services (Labor and Equipment) Provided             |                  |
| Street Light Installation and Maintenance                       | \$9,874          |
| All Other City Services and Civic Organizations                 | 27,579           |
| Total Unbilled Maintenance (Labor) Provided including Equipment | \$37,453         |
| Materials Provided  |                  |
| New Street Lights and Replacements                              | \$4,263          |
| All Other City Services and Civic Organizations                 | 862              |
| Total Unbilled Materials Provided                               | \$5,125          |
| Unbilled Electricity  | \$691,709        |
| <b>Total Unbilled Labor, Materials, and Electricity</b>         | <b>\$734,287</b> |

### WATER DEPARTMENT

|   |                  |
|---|------------------|
| Maintenance Services (Labor) Provided                           |                  |
| Installation and Services to City Facilities                    | \$3,043          |
| Installation and Maintenance of Fire Hydrants                   | 22,824           |
| Equipment   | 21,441           |
| Total Unbilled Maintenance (Labor) Provided including Equipment | \$47,308         |
| Materials Provided  |                  |
| New Fire Hydrants and Replacements                              | 14,700           |
| Total Unbilled Materials Provided                               | \$14,700         |
| Unbilled Water  | \$101,014        |
| <b>Total Unbilled Labor, Materials, and Water</b>               | <b>\$163,022</b> |

### COMMUNICATIONS DEPARTMENT

|   |                  |
|---|------------------|
| Maintenance Services (Labor) Provided                           |                  |
| Installation and Services to City Facilities                    | \$1,660          |
| Total Unbilled Maintenance (Labor) Provided including Equipment | \$1,660          |
| Materials Provided  |                  |
| Cable and Accessories for Services to City Facilities           | \$345            |
| Total Unbilled Materials Provided                               | \$345            |
| Unbilled Communications   | \$226,694        |
| <b>Total Unbilled Labor, Materials, and Communications</b>      | <b>\$228,699</b> |

|  |                    |
|--|--------------------|
| <b>Total Unbilled Utility Services</b> | <b>\$1,126,008</b> |
|--|--------------------|

# PERSONNEL

| EMPLOYEE           | TITLE                                  | YEARS OF SERVICE |
|--------------------|--|------------------|
| Armstrong, Shelley | Utility Account Clerk II               | 5                |
| Baylis, Terri      | Account Clerk II                       | 18               |
| Beres, Rockie      | Water Distribution Operator II         | 6                |
| Berner, Rob        | Director of Utilities                  | 0                |
| Bostater, Sandy    | Assistant Office Manager               | 25               |
| Brandt, Adam       | Lineworker Supervisor                  | 21               |
| Buda, Pat          | Assistant Deputy Clerk Treasurer       | 28               |
| Caperton, John     | Water Distribution Supervisor          | 17               |
| Carter, Bob        | Utility Engineering Assistant III      | 11               |
| Davies, Jessica    | Account Clerk I                        | 3                |
| Degroff, John      | Laborer III                            | 10               |
| Dunning, Jimmy     | Water Treatment Plant Operator Trainee | 2                |
| Echler, Norm       | Water Superintendent                   | 31               |
| Ferrell, Joe       | Communications Superintendent          | 9                |
| Fitzenrider, Chad  | Water Treatment Plant Operator Trainee | 2                |
| Gardner, Nathan    | Utility Engineering Supervisor         | 12               |
| Geren, A.J.        | Power Plant Operator III               | 19               |
| Hensley, Suzy      | Utility Engineering Assistant III      | 21               |
| Herman, David      | Water Distribution Operator Trainee    | 2                |
| Herman, Eric       | Local Programming & Production Lead    | 11               |
| Hosler, Michelle   | Account Clerk II                       | 8                |
| Hulbert, Brent     | Power Plant Operator II                | 19               |
| Hulbert, Brett     | Water Distribution Operator III        | 25               |
| Killion, Matt      | Power Production Superintendent        | 8                |
| Kuney, Allison     | Account Clerk II                       | 0                |
| Longcore, Whit     | Lineworker II                          | 3                |
| Lyons, Mike        | Communications Technician III          | 15               |
| McClure, Kody      | IT Technician/Help Desk Support        | 1                |
| Moes, Tim          | Power Plant Supervisor                 | 4                |
| Morman, Lisa       | Account Clerk II                       | 0                |
| Myers, Keira       | Utility Account Clerk III              | 20               |
| Perry, Jackie      | Human Resources Director               | 11               |
| Plummer, Brad      | Lineworker II                          | 2                |
| Ramos, Sylvia      | Administrative Assistant               | 11               |
| Rau, Kevin         | Lineworker IV                          | 24               |
| Rode, Laurie       | Clerk Treasurer                        | 11               |
| Rohlof, Lisa       | Account Clerk III                      | 23               |
| Rupp, Justin       | Lineworker II                          | 5                |
| Schultz, Derek     | Water Plant Supervisor                 | 4                |
| Smith, Jay         | Meter Technician I                     | 23               |
| Smith, Julie       | Laborer II                             | 5                |
| Smith, Shane       | Lineworker III                         | 14               |
| Steinke, Lee       | Customer Service I                     | 2                |
| Stimpfle, Todd     | Communications Technician III          | 10               |
| Suffel, Brandon    | Lineworker IV                          | 12               |
| Sullivan, Al       | Electric Superintendent                | 22               |
| Vollmar, Kevin     | Mechanic IV                            | 29               |
| Wheeler, Lonny     | Warehouse Worker II                    | 5                |
| Wheeler, Tom       | Power Plant Operator II                | 17               |
| Willis, Brandon    | Communications Technician Trainee      | 0                |
| Wilson, Eugene     | Water Distribution Operator III        | 17               |
| Zigler, Jay        | Power Plant Operator III               | 13               |



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