



September 9, 2022

8:00 a.m. to 9:00 a.m.

Franklin City Hall Training Room

8:00 am	Welcome and Introductions	Mike Cassity
8:05 am	*Approval of August Meeting Minutes	Mike Cassity
8:05 am -- 8:10 am	Announcements: -Call for new members -Bike/Walk Summit in Franklin -Policy Guides Update	Andrew Orr
8:10 am -- 8:30 am	*Discussion of FY 22 Energy Usage	Eric Conner
8:30 am -- 8:55 am	*Discussion of 200 kW Solar at Water Reclamation Facility	Andrew Orr
8:55 am-- 9:00 am	News/Updates/Adjourn -Next Meeting 10/14/22	Mike Cassity

*Item contains an attachment or link

CITY OF FRANKLIN MISSION STATEMENT: Franklin will continually strive to be a community of choice for individuals, families, and businesses to grow and prosper through an excellent quality of life supported by exceptional, responsive, and cost-effective City services.

Vacant (12/14/2024)	Christina Christiansen (Utility Rep) (8/23/2025)
Mike Cassity (11/10/2024)	Dana Kose (12/10/2022)
Beverly Burger (BOMA co-terminus)	John Brevard (12/14/2024)
Eric McElroy (Franklin Tomorrow co-terminus since 2/8/2022)	Chase Harper (12/14/2024)
R. Keith Gordon (3/23/2024)	

The Sustainability Commission was created to continue the work Initiated by the Sustainability Task Force and to act as a policy advisory body to the Board of Mayor and Aldermen and City Administrator in the development and initiation of programs that will enhance and promote economic development, environmental health, and social equity within our community for present and future generations (Ord. 2009-41).



MINUTES OF THE MEETING OF THE FRANKLIN SUSTAINABILITY COMMISSION

August 12, 2022

8:00 am

Members Present: Beverly Burger, Eric McElroy, R. Keith Gordon, Todd Palmer, Dana Kose, John Brevard, Chase Harper, Kristine Christensen

Members Absent: Mike Cassity, Brenton Montgomery

Staff Present: Andrew Orr, Cheryl Hebert, Trevor Hannon (BNS)

WELCOME AND INTRODUCTIONS:

Chair Palmer welcomed everyone to the meeting. Everyone introduced themselves.

Chair Palmer discussed the Enexor Visit that happened June 24th. He thought it was very interesting. A brief discussion was had about everyone's experience during the visit. Most would like to go back and learn more. This is a local company right here in Franklin.

Approval of May Meeting Minutes

A motion was made to approve the June 2022 minutes as presented, by Keith Gordon, seconded by Dana Kose. The motion passed with all in favor.

ANNOUNCEMENTS:

Member Updates and Term Limits: Andrew stated that this will be Todd's final meeting, his term expires at the end of this month. Todd explained now is the time for him to step aside with all that he has going on. Kristina will be taking over the utility seat. Andrew spoke with Brenton and due to his schedule, he has resigned his seat. Kristina asked if there is anyone else from Middle Tennessee Electric that would be interested. Todd stated Tim would be his recommendation from MTE. Alaina Bell was mentioned by Dana from Franklin Tomorrow as maybe being a good fit for this Commission and she is also interested.

Alderman Burger asked what are the requirements to be a member on this board? Do you have to work here, live here? Andrew is not sure if you must live in the County or the City, but at the minimum you need to do work here.

Andrew mentioned Ned from Bike/Walk Franklin, he may be interested. Dana said as we think of new members, we should think about diversity of the Commission too.

Andrew also mentioned that there is a Bike/Walk Summit at Columbia State in Franklin on October 21st.

SUSTAINABILITY COMMISSION



Kevin Lindsey from the Parks Department reached out earlier this week and Mitsubishi would like to donate two charging stations to the City. One will be installed at Liberty Park and the other at Jim Warren Park. The units will be donated, and the cost of installation will be split with the City.

BOMA Update on August 9, 2022: The Policy Guides were presented to BOMA this week. Todd attended and helped with the presentation.

Alderman Bulger stated at the BOMA meeting they discussed the recycling program and how the costs are increasing. She seems to think the County would be willing to partner with Franklin. Andrew explained recycling used to be free of charge to the City but due to China's policy and added costs of labor (at the sorting facility) we are now paying around \$25 per ton which will continue to increase over the years. There may eventually need to be a fee for recycling. Dana mentioned this may be needed to be put to a vote to the residents regarding a fee to recycle and keep the blue recycle bins. Alderman Burger said that this is a long-term problem that we need to figure out. Dana said the biggest issue is the cost. If we can solve the cost by charging \$5.00 per year, then that could help off set the cost. She understands \$5.00 per year may not be feasible for everyone, but maybe we could find companies to help off set the fees. Then those companies that help offset, their logos could be placed on the recycle bins and on the monthly bills for advertisement. A discussion regarding inmates being put to work was had. Alderman Burger has it on her agenda to discuss getting the prisoners working again with the appropriate State Legislatures.

WASTE REDUCTION POLICY GUIDE DISCUSSION

Andrew stated that Mike Cassidy had emailed and suggested we add an action item establishing some measurements to the goals. The wording could be "Lets establish landfill diversion improvement objectives in order to measure the overall effectiveness of all action items."

Dana voiced a concern that if we put measurements on the action items, the policy may be harder for BOMA to pass.

There really wasn't any feedback from BOMA. They really didn't have any specific changes. They had some questions or comments but not much.

Alderman Burger suggested adding an action item of getting corporations on board to help with our goals and help support our program.

There was a discussion on how to measure our action items. Do we send out surveys? Do we monitor our actions and goals? How do we incorporate this? It was suggested giving residents the option to stay in the recycle program with a \$5.00 a year fee or they can opt out of the program but sending an email or clicking on a "link" to opt out.

Incorporating corporations to help offset the costs, we could offer them free advertising



during City events and/or on billings.

Andrew suggested the action item to add is “To establish a program with companies to help support and sustain our Waste Reduction Policy.”

A motion was made to add in the two above items as presented, by Alderman Burger, seconded by Dana Kose; the motion passed unanimously.

A motion was made to approve the Waste Reduction Policy guide as amended by Chase Harper, seconded by Keith Gordon; the motion passed unanimously.

TRANSPORTATION POLICY GUIDE DISCUSSION

Eric presented this to BOMA. BOMA had a few questions about the statistics but no questions about the action items.

Chase stated a grant was just received by the City to convert Franklin Transit over to an electric fleet. This is still in the beginning stages. He is wondering if we could add something of this sort as an action item. The Grant is only valid for three years, so we could use that as a timeframe. BOMA will still need to accept and pass the Grant.

Dana said this is more in line with the Energy Policy. Do we want to add an action item like what was added to the Waste Reduction Policy adding measurements?

Keith stated that action item 6 already has a time frame because it states annually. Some of the others are hard to put time frames to.

A discussion was had about how measurements could be added to this policy.

Chair Palmer said that some of these are hard to measure considering how new this is.

Andrew mentioned that these policy guides are on a three-to-five-year time frame, so we should keep that in mind.

Dana thinks we need to make the amendment like we did to the Waste Reduction Policy.

Andrew suggested adding the wording “Establish performance objectives for the action items.”

A motion was made to amend action item 3 to state “Distribute the evaluation surveys within one year of completed Capital Improvement Projects” by Alderman Burger, seconded by Chase Harper; the motion passed unanimously.

A motion was made to add a new action item to state “Establish performance metrics for each action item” by Alderman Burger, seconded by Keith Gordon; the motion passed unanimously.



A motion was made to approve the Transportation Policy Guide as amended by Keith Gordon, seconded by Dana Kose; the motion passed unanimously.

Andrew would like to keep these on future agendas just for updates.

NEWS/UPDATES/ADJOURN

The next meeting will be on Friday, September 9, 2022, at 8:00 am.

The meeting adjourned at 9:00 am.

Total Municipal Electricity Usage and Cost

FY Year	Usage*	Cost
Base Year 2008	24,800,000 kWh	\$ 2,600,000.00
2014-2015	26,743,092.00 kWh	\$ 2,905,019.72
2015-2016	27,762,427.00 kWh	\$ 2,880,570.71
2016-2017	26,790,143.00 kWh	\$ 2,672,170.01
2017-2018	23,861,360.00 kWh	\$ 2,702,953.47
2018-2019	25,029,025.98 kWh	\$ 2,871,121.38
2019-2020	24,705,955.00 kWh	\$ 2,753,071.49
2020-2021	24,307,914.60 kWh	\$ 2,743,908.33
2021-2022	24,538,264.50 kWh	\$ 2,873,056.92

*Starting in 2017, does not include consumption for unmetered lights

2021-2022 Electricity Usage and Cost

Facility	Usage	Cost
Fire Stations (8) + sirens	1,024,943 kWh	\$116,557.57
Police HQ + Garage	2,167,891 kWh	\$193,416.39
City Hall + 2 nd Ave Garage	806,532 kWh	\$84,476.81
Public Works	592,960 kWh	\$57,375.53
Sanitation/ Solid Waste	261,040 kWh	\$27,685.45
Parks	710,337 kWh	\$78,319.02
Water Treatment/ Pumps	3,827,218 kWh	\$374,048.46
Wastewater Treatment/ Sewer	12,949,350 kWh	\$1,230,653.92
Unmetered Street Lights	N/A	\$483,493.76
Metered Street Lights	878,700 kWh	\$79,700.17

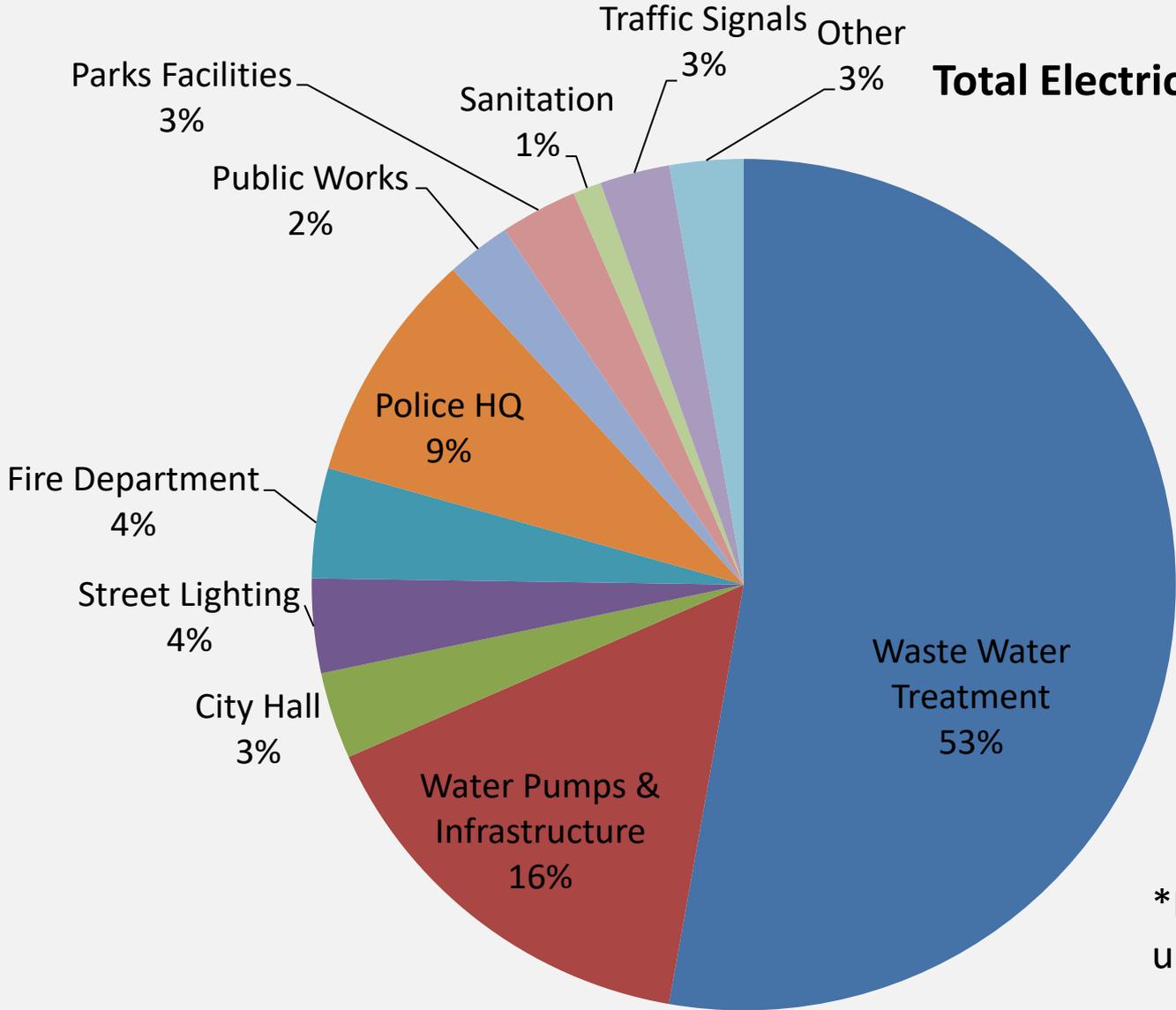
2020-2021 Electricity Usage and Cost

Facility	Usage	Cost
Fire Stations (8) + sirens	859,597 kWh	\$94,810.66
Police HQ + Garage	2,160,530 kWh	\$178,990.62
City Hall + 2 nd Ave Garage	758,844 kWh	\$74,038.38
Public Works	576,640 kWh	\$52,843.42
Sanitation/ Solid Waste	251,120 kWh	\$25,618.28
Parks	665,867 kWh	\$74,648.89
Water Treatment/ Pumps	3,947,205 kWh	\$356,358.22
Wastewater Treatment/ Sewer	12,877,455 kWh	\$1,202,315.55
Unmetered Street Lights	N/A	\$466,607.84
Metered Street Lights	788,340 kWh	\$68,625.86

2019-2020 Electricity Usage and Cost

Facility	Usage	Cost
Fire Stations (8) + sirens	912,571 kWh	\$96,581.82
Police HQ + Garage	2,045,800 kWh	\$170,373.73
City Hall + 2 nd Ave Garage	853,281 kWh	\$83,403.77
Public Works	626,880 kWh	\$56,878.06
Sanitation/ Solid Waste	258,320 kWh	\$26,238.61
Parks	597,628 kWh	\$68,839.53
Water Treatment/ Pumps	3,969,525 kWh	\$388,508.72
Wastewater Treatment/ Sewer	13,239,728 kWh	\$1,209,811.05
Unmetered Street Lights	N/A	\$465,943.54
Metered Street Lights	991,817 kWh	\$82,958.42

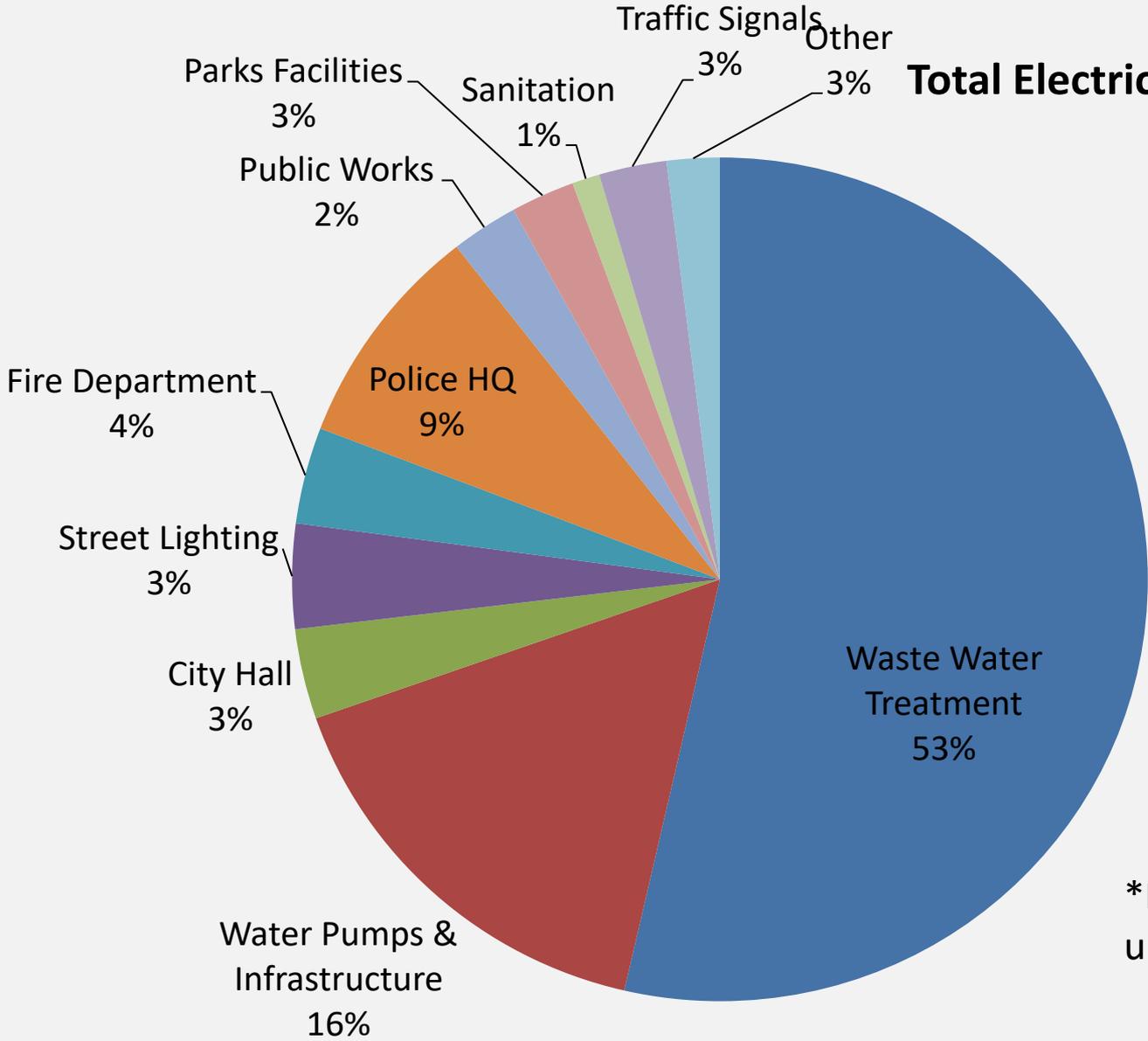
Total Electricity Usage (kWh)



*Does not include unmetered street lights

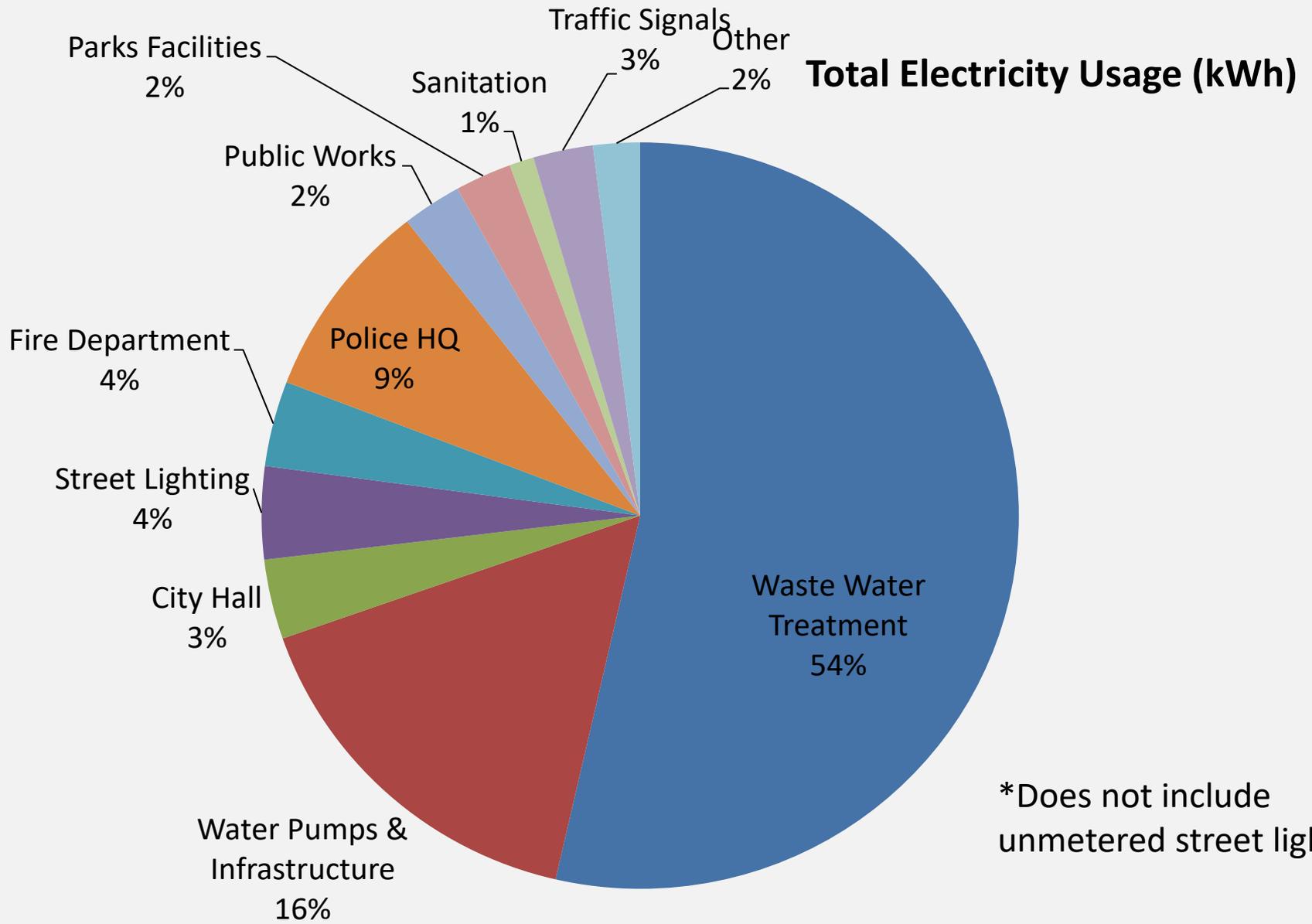
Total energy CY 2021/2022 usage= 24,538,265 kWh

Total Electricity Usage (kWh)



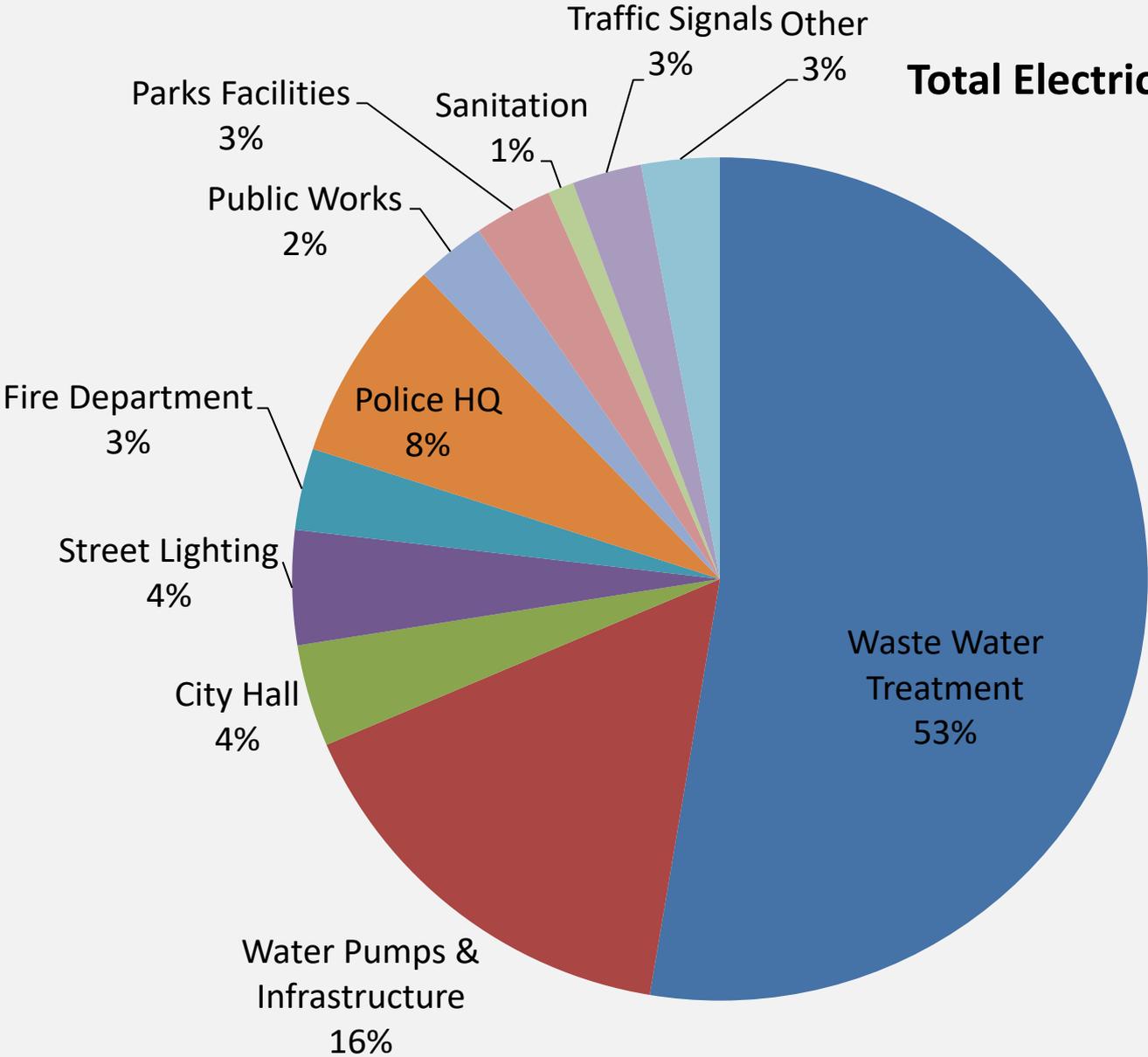
*Does not include unmetered street lights

Total energy CY 2020/2021 usage= 24,307,915 kWh



Total energy CY 2019/2020 usage= 24,705,955 kWh

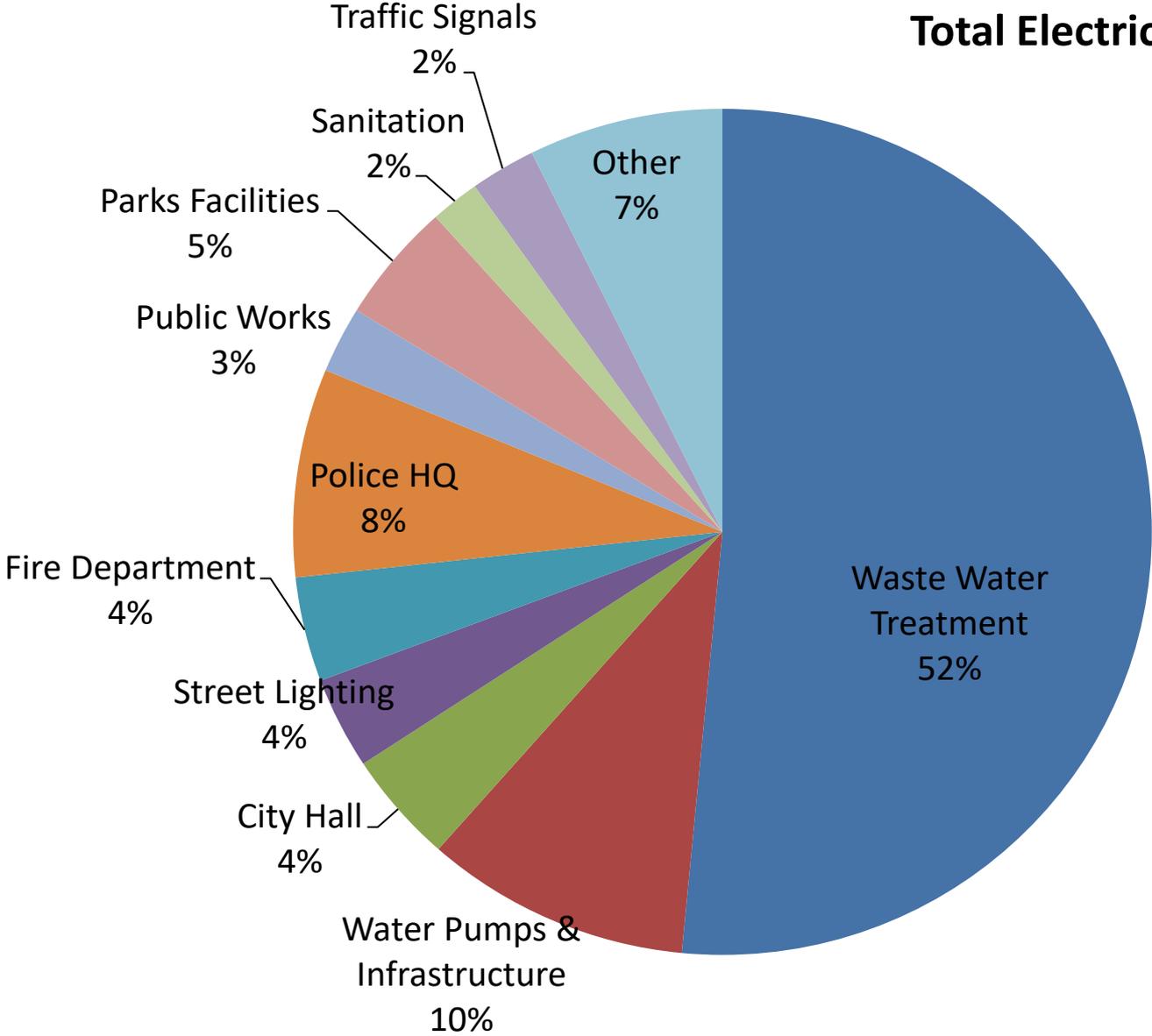
Total Electricity Usage (kWh)



*Does not include unmetered lights

Total energy CY 2018/2019 usage= 25,029,025.98 kWh

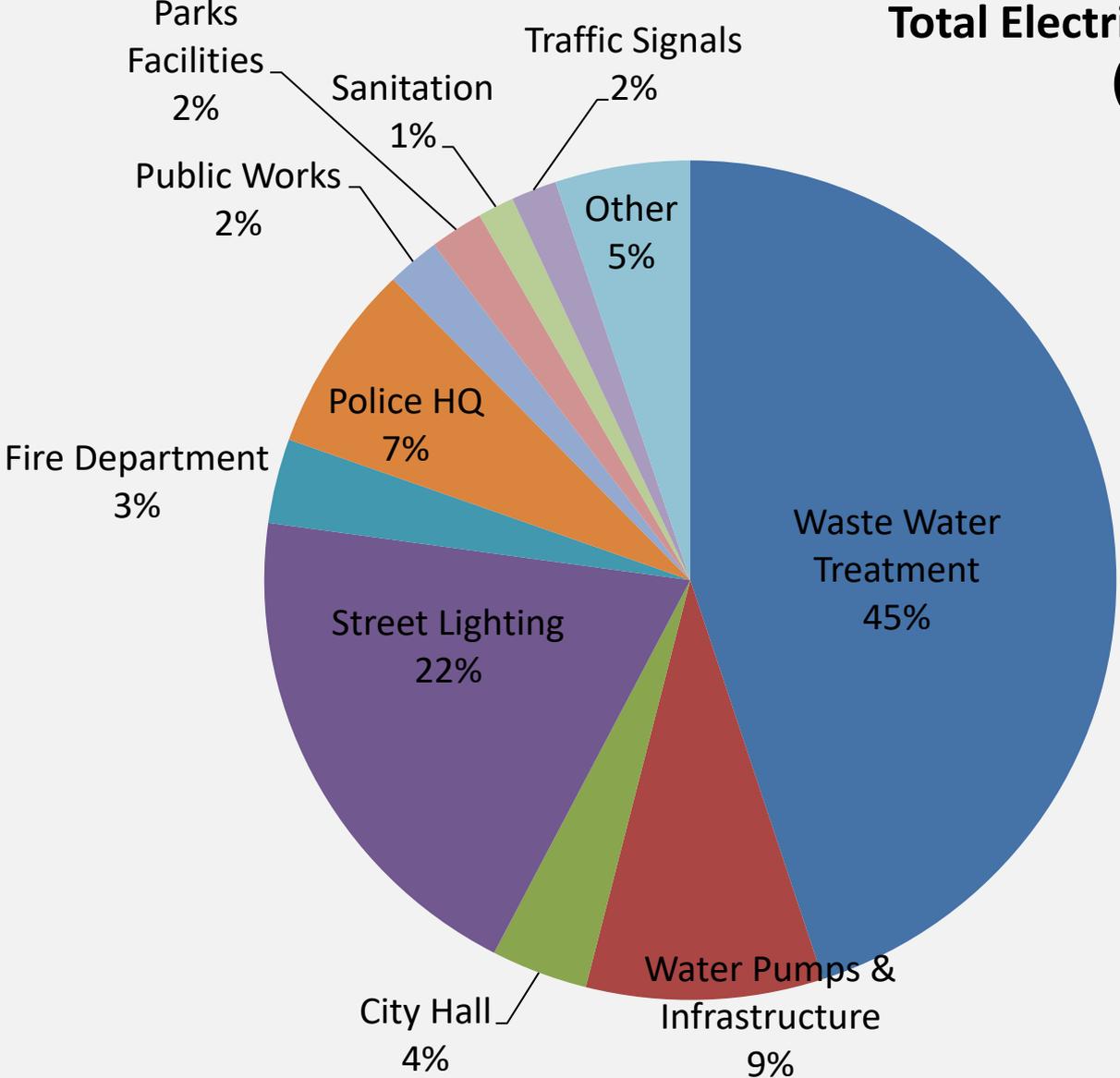
Total Electricity Usage (kWh)



*Does not include unmetered lights

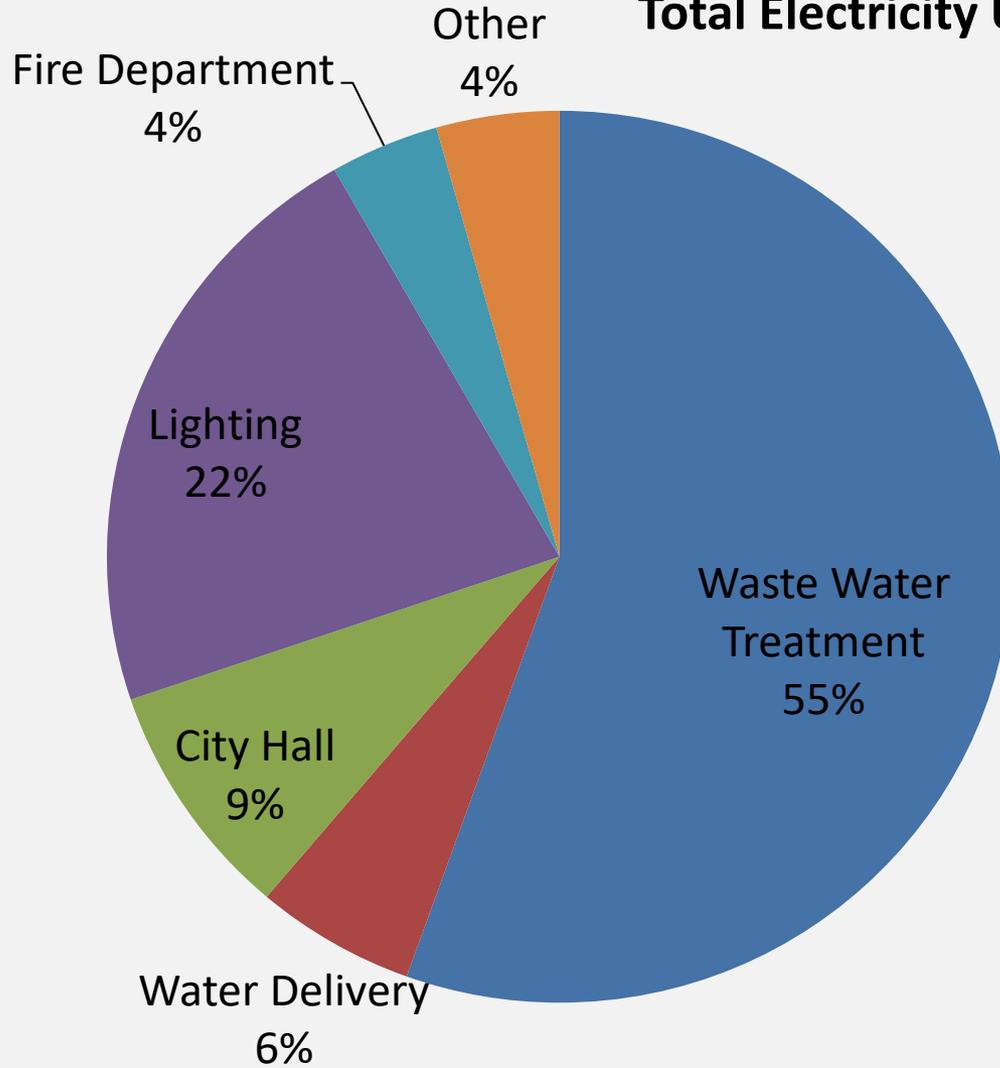
Total energy CY 2017/2018 usage= 23,861,360.00 kWh

Total Electricity Usage 2016 (kWh)



Total energy CY 2016 usage=27,200,000 kWh

Total Electricity Usage 2008 (kWh)



CY 2008 Energy Usage=24,800,000 kWh

Estimated CY 2008 Electric Expenses=\$2.6 million

FY 20-21 Solar Revenues

1 MW Array:

- 1,220, 133 kWh
- \$171,234
- City keeps 10% = \$17,123

200 kW Array (credit):

- \$44,612
- City keeps 20% = \$8,922



FY 21-22 Solar Revenues

1 MW Array:

- 1,148,844 kWh
- \$166,281
- City keeps 10% = \$16,628

200 kW Array (credit):

- \$35,704
- City kept 20% then 80% = \$24,627



200 kW Array



200 kW Array



About the System

- Completed in 2012
- Sharp panels (235 or 240 watt)
- TVA Generation Partners Program
- Grid-tied
- 200 kW
- Ground mounted
- Green Premium ended last fall (retail rate now)

Potential Options

- Determine project goals
- Keep it grid-connected or move to behind the meter
- Expand the system?
- Utilize batteries?
- Upgrade panels and move old panels elsewhere?
- Other Thoughts?
- Meeting with internal staff and Energy Source Partners later this month