



**October 14, 2022**

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

**Franklin City Hall Training Room**

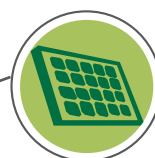
8:00 am	<b>Welcome and Introductions</b>	Mike Cassity
8:05 am	<b>*Approval of September Meeting Minutes</b>	Mike Cassity
8:05 am -- 8:10 am	<b>Announcements:</b> -Policy Guides Update -Call for new members -200 kW Solar Update -Native Grasses -Recycling News	Andrew Orr John Brevard Mike Cassity
8:10 am -- 8:50 am	<b>*Discussion and Prioritization of Policy Guides</b>	Andrew Orr
8:55 am-- 9:00 am	<b>News/Updates/Adjourn</b> -Next Meeting <b>11/11/22</b>	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

September 9, 2022

8:00 am

**Members Present:** Mike Cassity, Eric McElroy, R. Keith Gordon, Christina Christiansen, Dana Kose, John Brevard, Chase Harper

**Members Absent:** Beverly Burger

**Staff Present:** Andrew Orr (remote), Eric Conner

## WELCOME AND INTRODUCTIONS:

Mike Cassity welcomed everyone to the meeting. Everyone introduced themselves and gave a brief background.

## Approval of May Meeting Minutes

A motion was made to approve the August 2022 minutes as presented, by Keith Gordan, seconded by John Brevard. The motion passed with all in favor.

## ANNOUNCEMENTS:

- **Call for new members:** A call has been issued for two new members. The deadline is September 23, 2022. If you know anyone that may be interested, please reach out to them.
- **Bike/Walk Summit in Franklin:** This event will be held on October 21<sup>st</sup> at Columbia State. One full day, Eric Connor will be presenting the friendly overview that we did a few years back, so he will be on the agenda that day. Also, Micah Wood will be there, who used to be on this board and serves on the Bike/Walk Board, so you may see his there as well.
- **Policy Guides Update:** The policy guides have been submitted for law review. Once we hear back from Law, then we will submit them to a BOMA agenda for approval.

## Discussion of FY 22 Energy Guides:

Eric discussed the Fiscal Year 22 Energy Guides through a PowerPoint Presentation. Annually, a tabulation of the cost of energy is done. Eric explained there was a slight increase, but that is due to a new area coming online. Other than that, there were no significant changes. Most of our costs are from the water and wastewater treatment, followed by the police headquarters and garage. The City's costs do not include the consumption for the unmetered lights. Chair Cassity asked if a census is ever done to come up with true costs of the unmetered lights. Andrew is unsure of this answer. A comparison of numbers from 2020 until the present have not had any significant changes. Our numbers are lower than pre-covid levels due to the fact not all employees are in the office every

SUSTAINABILITY COMMISSION



day, some are remote.

It was stated that early next calendar year an upgrade to the water reclamation facility will be done. It is being expanded from 12 million gallons to 16 million gallons per day. There is an expanded biosolids process that is being worked on. A more efficient UV system will be put into place; therefore, it will be difficult to estimate on how it will impact energy. There should be some differences after next year.

**Discussion of 200 KW Solar at Water Reclamation Facility:**

Andrew reviewed the Fiscal Year 20-21 Solar Revenues. There are two solar projects happening at the water reclamation facility. With the 1 MW Array, in 2020-2021, the City keeps 10% (\$17,123) and the 200 kW Array, the City kept about \$8,922. In 2021-2022, the City kept about \$16,628 with the 1 MW Array, and \$24,627 with the 200 kW Array.

Andrew explained this was completed in 2012 with a blend of 235- or 240-watt sharp panels. The program we used was with TVA Generation Partners Program. It is grid-tied and a maximum size of 200 kW. The Green Premium ended this past Spring. The Generation Partners Program is a 10-year program. Some of our potential options we have now are:

- Determine project goals
- Keep it grid-connected or move to behind the meter
- Expand the system?
- Utilize batteries?
- Upgrade panels and move the old panels elsewhere?

We do have a meeting with internal staff and Energy Source Partners later this month to talk through our project goals and options.

We are still under contract with TVA. The first ten years we earn a certain amount and the second 10 years we earn a different amount.

Will it be beneficial to us if we get out of the contract? The TVA contract can be broken. If we moved from the current contract and went to DPE or MTE, we would be using our current panels, that are 10 years old. The sharp panels, that are a blend, you can't buy anymore. The contract with Energy Source Partners is what we really need to figure out.

We will be going from only using biosolids operations during the day to a 24 hour a day process. A discussion was had about using/purchasing batteries. The batteries are expensive but once they are installed, they are easy to manage. Batteries are now clearly marked as ITC eligible. If this were to be done, it was suggested to replace the modules at the same time. The modules only have about 10-15 years left. We need to look at the energy profile of the site. Are batteries even worth getting? Andrew asked how many cycles a battery can go through without having to recharge. A battery can last about 12-15 years.

Andrew stated that we are still early in the process with ESP for any proposals.



**NEWS/UPDATES/ADJOURN**

Chair Cassity is continuing to stay plugged in with what is going on with Solid Waste. He had a meeting with Randy James, and the County is making some decisions to move forward. Chair Cassity will share any information he receives as soon as he gets it.

The next meeting will be on Friday, October 14, 2022, at 8:00 am.

The meeting adjourned at 8:49 am.



**RESOLUTION 2021-81**

**A RESOLUTION TO ENDORSE THE ENERGY POLICY GUIDE**

**WHEREAS**, on July 28, 2009, the Board of Mayor and Aldermen (BOMA) approved Ordinance 2009-41 that created a Sustainability Commission to serve in an advisory capacity; and

**WHEREAS**, on August 11, 2009, the BOMA approved Ordinance 2009-36 that endorsed the Sustainable Community Action Plan and encouraged all citizens to participate; and

**WHEREAS**, the City has completed or initiated many of the items from the 2009 Action Plan, including the establishment of a residential curbside recycling program, the adoption of a Greenways and Open Space Master Plan, a reduction in municipal electricity costs, and the procurement of several grants; and

**WHEREAS**, in 2013, the Sustainability Commission held two open-house meetings and conducted an online survey to collect feedback on sustainability related efforts and to determine the most important issues; and

**WHEREAS**, the BOMA endorsed an updated Sustainability Action Plan in 2013, which was derived from feedback received from the public outreach efforts and contains a section on Energy Conservation and Renewable Energy; and

**WHEREAS**, in 2018 the City of Franklin was named LEED Silver in the LEED for Cities certification program; and

**WHEREAS**, in 2020, the Sustainability Commission identified their top three priority areas in which to focus their upcoming work: Energy Conservation and Renewable Energy, Waste Reduction, and Transportation; and

**WHEREAS**, the Sustainability Commission created the Energy Policy Guide to establish policy statements pertaining to energy conservation and renewable energy and to identify action items for the Sustainability Commission to further study.


**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF FRANKLIN** that it endorses the attached Energy Policy Guide (Exhibit A) and charges the Sustainability Commission to further study the action items to bring forth strategies, as deemed appropriate, for the BOMA to consider in its planning, policymaking, and municipal practices.

IT IS SO RESOLVED AND DONE on this 24<sup>th</sup> day of Aug, 2021.

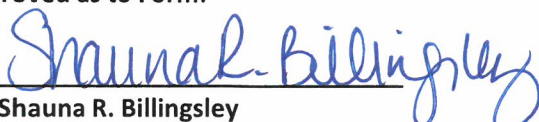
ATTEST:

By:   
Eric S. Stuckey  
City Administrator

CITY OF FRANKLIN, TENNESSEE:

By:   
Dr. Ken Moore  
Mayor

Approved as to Form:

By:   
Shauna R. Billingsley  
City Attorney



## ENERGY POLICY GUIDE

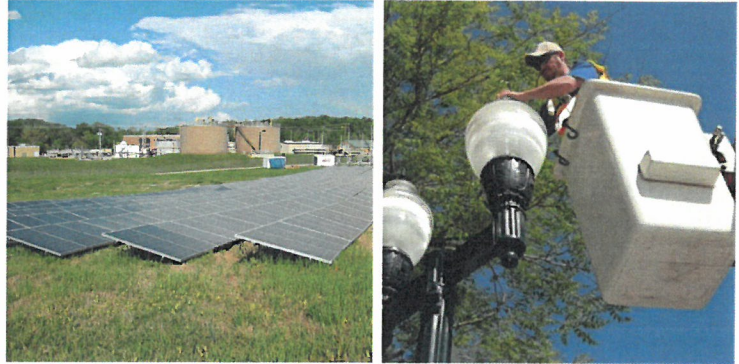
The City of Franklin is committed to evaluating energy projects that make fiscal and environmental sense. It's also positioned to make policy changes to encourage advancing energy efficient and renewable energy technologies.

### POLICY STATEMENTS

1. The City seeks to use renewable energy, energy efficient technology, and conservation measures to make operations more resilient to future cost increases in order to flatline total municipal electricity usage and costs while adding new infrastructure and services.
2. The City encourages and seeks to make it easier for residents and businesses to adopt energy conservation practices and utilize alternative energy technologies to help them be more resilient to future cost increases.

### ACTION ITEMS

1. Reduce street light energy usage by converting all street lights to LEDs. Require LEDs for any new streetlight service the City pays for on a monthly basis. Prioritize fixtures that reduce light pollution.
2. Evaluate renewable energy and energy saving measures for the new City Hall.
3. Complete comprehensive energy audits of all city-owned buildings with a focus on energy cost reduction.
4. Evaluate future uses for the 200 kW solar project.
5. Complete a comprehensive study of the municipal fleet with a focus on fuel cost reduction.
6. Perform community-wide electric vehicle readiness analysis.
7. Evaluate the use and costs of LED sports lighting. Prioritize fixtures that reduce light pollution.
8. Consider updating the residential energy code to 2018 IECC.
9. Utilize social media and conventional media channels to inform the public about the City's energy efforts.
10. Act as advocate to the State legislature for energy related policies.



### TOTAL MUNICIPAL ELECTRICITY USAGE AND COST

FY Year	Usage	Cost
2008 Base Year	24,807,442 kWh	\$2,642,664.00
2013-2014	27,118,515 kWh	\$2,664,966.00
2014-2015	26,743,092 kWh	\$2,905,019.72
2015-2016	27,762,427 kWh	\$2,880,570.71
2016-2017	26,790,143 kWh	\$2,672,170.01
2017-2018	23,561,360 kWh	\$2,702,953.47
2018-2019	25,029,025 kWh	\$2,871,121.38
2019-2020	24,705,955 kWh	\$2,753,071.49

### ELECTRICITY USAGE AND COST FY 2019-2020

Location	Usage	Cost
Fire Stations (8) + sirens	912,571 kWh	\$96,581.82
Police HQ + Garage	2,045,800 kWh	\$170,373.73
City Hall + 2nd 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



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## TRANSPORTATION & MOBILITY POLICY GUIDE

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Traffic consistently ranks as one of the top citizen concerns and complaints. The City seeks to improve mobility by shortening the time it takes to complete trips, reducing vehicle miles traveled, and providing alternatives to single-occupancy vehicle trips.

### POLICY STATEMENTS

1. Reduce peak-hour travel times;
2. Provide safe and effective multimodal options for transportation;
3. Provide safe pedestrian and bicycle connections between residential areas and local destinations;

### ACTION ITEMS

1. Establish performance metrics for each action item.
2. Improve traffic flow on existing streets by adaptive signalization projects.
3. Participate in Regional Transportation efforts to increase mobility to/from Franklin.
4. Distribute evaluation surveys within one year of completed CIP projects.
5. Increase youth engagement City-wide and encourage local schools to establish a Safe Routes to School program to ease peak pick-up and drop-off traffic.
6. Increase public knowledge of the available multi-use paths and trails through mapping and outreach.
7. Participate in National Bike/ Pedestrian annual counts.
8. Coordinate with the Bike Walk Franklin group.

### ACTION ITEMS (Continued)

9. Increase sidewalk and multi-use trail connectivity across Franklin.
10. Evaluate the effectiveness of an electric bike share program.

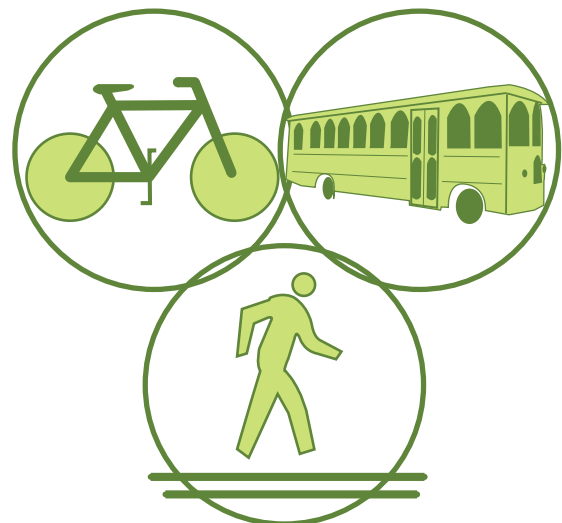
### COMMUTING IN FRANKLIN

- Approximately 10,300 citizens live and work in Franklin and 80% commute by vehicle alone.  
(2019 Citizen Survey)
- Approximately 66,000 people work in Franklin but commute from outside City limits.
- Approximately 23,000 citizens live in Franklin but commute outside the City for work.
- Average commute time of approximately 25 minutes.

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### WALKABILITY IN FRANKLIN

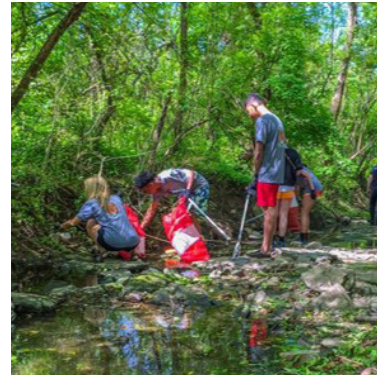
- 385 miles of sidewalk and 26 miles of public multi-use trail throughout the city.
- Average walk score of 23/100 within the city, walk score of 67 at City Hall.
- 6.5 miles of sidewalks and trails in the City's CIP.





## WASTE REDUCTION POLICY GUIDE

The City of Franklin is committed to minimizing waste in its municipal operations and promoting waste reduction strategies to the community.



### POLICY STATEMENTS

1. The City seeks to promote existing waste reduction programs.
2. New opportunities should be evaluated that would further waste reduction efforts.
3. Litter along streets and waterways should be monitored and collected promptly.

### ACTION ITEMS

1. Establish landfill diversion improvement objectives in order to measure the effectiveness of all action items.
2. Increase blue bin recycling participation to 75% of eligible households by 2025.
3. Evaluate options to increase recycling of material not included in the Blue Bin Program such as glass and large cardboard.
4. Improve and promote the Batteries, Oil, Paint, Anti-freeze, and Electronics (BOPAE) recycling.
5. Evaluate options for increasing capacity for brown bag processing.
6. Research best practices for municipal food waste composting.
7. Conduct an annual litter survey of roadsides throughout the City and coordinate litter pickups.
8. Conduct annual river and stream litter pickups.



### TOTAL CITY OF FRANKLIN WASTE BREAKDOWN

Year	Customers	Tons of Waste	Tons of Recyclables	Tons of BOPAE	Tons of Yard Waste
2021	23,989	23,634	2,790	325	3,159

Yard Waste includes brown bags and brush collection

### ACTION ITEMS (Continued)

9. Evaluate municipal procurement of supplies and materials made from recycled materials.
10. Evaluate waste reduction efforts and goods made from recycled materials for the new City Hall project.
11. Utilize social media and conventional media channels to inform residents and businesses about recycling opportunities.
12. Utilize social media, conventional media channels, and potentially signage to discourage roadside littering.
13. Establish a program with local companies to help sustain and support waste diversion efforts.