

Mayor's Workplace Challenge

Aligning Workplaces with City Climate Goals

August 18, 2022



URBAN GREEN LAB™



MAYOR'S WORKPLACE CHALLENGE

Summary

As part of our effort to align Nashville businesses with the city's new climate action plan and hold them more accountable to it, we present the concept for a new citywide recognition program inspired by the original Mayor's Workplace Challenge (particularly its "green" elements).





CLIMATE & ENERGY

Transition to a clean economy through green jobs & training, renewables, & efficiency.



GREEN BUILDINGS

Move to a built environment powered by carbon-free, renewables.



MOBILITY

Reduce vehicle miles travelled, plus drive-alone rate by 40% by 2050. All vehicles electric by 2050.



WASTE

Create & implement the Solid Waste Master Plan with intention of zero waste by 2050.



NATURAL RESOURCES

Ensure clean water and air, with access to open spaces for resilience to climate change, esp. vulnerable pops.

Climate Action Pillars

The goal is to reduce emissions by 80 percent by 2050.

MAYOR'S WORKPLACE CHALLENGE

Our Question

**How can we make sure
Nashville workplaces are
helping advance the city's goals
for climate and sustainability?**

**Most of Nashville's 53,000+ businesses and
nonprofits have no sustainability plan.**



MAYOR'S WORKPLACE CHALLENGE

Our Strategy

**Recognize Nashville
workplaces so that they can
better report progress toward
the pillars in the city's CAP.**



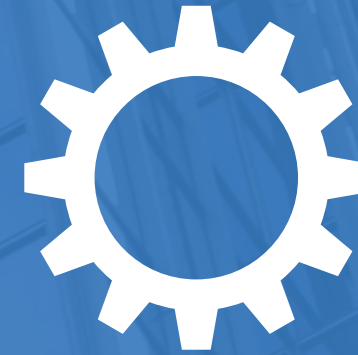
Recognition Criteria

To be recognized a member of the Mayor's Workplace Challenge, workplaces must demonstrate they are working toward CAP pillars.



Educate

The workplace has a sustainability lead or team, and is teaching its staff, vendors, and consumers how to work sustainably, its standards of practice, and its values for protecting our city.



Operate

The workplace is working to make its local operations more sustainable through engineering, audits, conservation measures, procurement, and product and service design.



Report

The workplace is transparent and publically-reporting progress toward each CAP pillar year after year. In time, this may be compulsory with benchmarks around GHG emissions, etc.



MAYOR COOPER'S SUSTAINABILITY ADVISORY COMMITTEE

Deliverable: Families and Youth Work Group Overview and Workplan

TEAM

Aleta Sue Ballard

Casey Megow

Christina Langone

David Proffit

Geoff Parker

John Doerge

John Sherman

Karen MacIntyre

Lawrence Blank-Cook*

Lynne Trost

Meredith Montgomery

Rebecca Gladden

Robert Wingfield*

Tony Richman



CONFIRMED DELIVERABLES

1) FAMILY ENVIRONMENTAL SUSTAINABILITY ACTION PLAN

A template available online and given out at events that relates to sustainability. Committee will organize distribution at 2 events to jump start actions.

TARGET AUDIENCE

Davidson County families with children ages 6 to 18 years old

2) SUSTAINABILITY IN MNPS

Incorporate Environmental Sustainability into MNPS traditional and new projects and programs for high school students. Pilot at multiple schools in 2022-23 school year.

TARGET AUDIENCE

MNPS high school students

1) FAMILY ENVIRONMENTAL SUSTAINABILITY ACTION PLAN



UNIQUE

Includes tips and resources specific to Davidson County, such as NES Home Uplift Energy program



EVENTS

Promoted with ‘jump start’ activities
October 5: Walk/Bike to School Day
February: TBD Fisk workshop @ action plan, NES/TVA to partner
April: Earth Day



FORMAT

Published online and in hard copy format. Include introduction to carbon footprint calculator.



AUTHENTIC

Designed with the help and input of Davidson County community leaders engaged with sustainability

FAMILY ENVIRONMENTAL SUSTAINABILITY ACTION PLAN PROPOSED WORKPLAN

	Task/Deliverable	Status	Milestone Date
Content	Develop template content	In progress	18 August 2022
	Draft communications plan	In progress	18 August 2022
	Develop online content	In progress	29 September 2022
	Develop printed content	In progress	29 September 2022
	QA and review content	In progress	8 October 2022
	Publish content	In progress	13 October 2022
	Communications	Initiate communications plan	In progress
Schedule events		Not started	20 October 2022
Conduct events		Not started	November - February TBD
Track engagement (online and in person)		Not started	13 October 2022 and ongoing

DAVIDSON COUNTY FAMILY ACTION PLAN FOR SUSTAINABILITY



Steps to create your family’s sustainability action plan

1. List what you and your family are doing that is sustainable using the Carbon Footprint Calculator (Activity 1)
2. Review opportunities and successes in sustainable areas important to you and your family (Activity 2)
3. Develop a plan to increase sustainability (reduce the greenhouse gas emission of your family, reduce carbon footprint) (Activity 3)



Activity One: Assess current state

- Introduction to concept of Carbon Footprint and key terms. See associated material, [Family Environmental Sustainability Action Plan: Overview](#). *[add hyperlink]*
- Find your Family’s Carbon Footprint: use [Nature Conservancy Carbon Footprint Calculator](#) and/or [EPA Carbon Footprint Calculator](#)
- Determine existing level of sustainability for the areas being assessed

Activity Two: Choose priorities

- Decide which areas that you and your family would like to become more sustainable – make it a family conversation!
- Review opportunities and current degree of success in areas that you have chosen to focus on.
- Use chart 1 on other side of page to show each activity that is being addressed, how the change is/will be made, whether your activity eliminates waste or reduces waste (more sustainable than now/past) and put a check in the column if this is ongoing or planned.

Activity Three: Develop plan

- Fill in chart 2 on other side of page
- What are the steps you need to work toward the goal?
- What barriers do you expect? How can these be overcome?
- What is the measure of success at each step of your plan?

Suggested Resources

[USEPA: What you can do at home to reduce GHG emissions](#)

[Nashville Recycling Game](#)

[Nashville SOCKET tips](#)

[Nashville Trash & Recycling](#)

[NES: Energy Saving Tips](#)

[TDEC: Sustainability and Resilience at Home](#)

[Energy Star: Energy Savings at Home](#)

[Energy Star: Home Energy Yardstick](#)

[Turnip Green Creative Reuse](#) - East Nashville

[Sage Refill Market](#) – 12 South

DAVIDSON COUNTY FAMILY ACTION PLAN FOR SUSTAINABILITY



Describe what success will look like when plan is complete:

Chart 1

Activity	How is change made?	Level of 'green' achieved		Status		Location	
		High ++++	More ++	On-going	Plan to do	Work	Home/ Leisure
Daily driving	Walk or bike to school and work!		++	✓		✓	

Chart 2

Plan action item	Family Member Name 'owner'	Approach and anticipated barriers	Target Date	Progress Notes	Completion Date
NES home energy audit	Mom	Schedule phone appointment by calling 1-855-237-2673 or sign up online at https://energyright.com/residential/			
<ul style="list-style-type: none"> Plan walking route to school Participate in Walk to School Day on October 5th 		Practice route on the weekend. Look for low traffic, flat roads.			ongoing
					7

ENVIRONMENTAL SUSTAINABILITY PROJECT OR PROGRAM EXPERIENCE SUCCESS METRICS



STUDENT ENGAGEMENT

The program should engage 15 – 30 MNPS high school students with greater than 50% of those students making a final presentation.



ASSIGNMENT WITH PROJECT OR PROGRAM

Will serve as a program with the ability to be replicated in the 2023-24 school year at all 12 zoned high schools.



COMMUNITY ENGAGEMENT

Recruit community partners from the business and non-profit community to fund the program and/or serve on the review team



STORY TELLING

The story should be shared in local media, social media, and MNPS internal media.

PROPOSED WORKPLAN

	Task	Deliverable	Milestone Date
Content	Develop program concept	Complete	8 August 2022
	Develop program overview for teachers	Complete	15 September 2022
	Draft communications plan	In progress	29 September 2022
	Develop kickoff materials for students	In progress	1 October 2022
	QA and review content	In progress	15 October 2022
	Publish content	Not started	20 October 2022
Communications	Initiate communications plan	In progress	15 October 2022
	Sustainability Day	Not started	28 October 2022
	Schedule check in	Not started	TBD November 2022
	Schedule final evaluation	Not started	15 January 2022

ENVIRONMENTAL SUSTAINABILITY INITIATIVE PILOT

The **Sustainability Initiative pilot** is designed to engage high school students in our community's sustainability conversation. The students are encouraged to identify sustainable issues and design a unique solution to address that issue. Students are encouraged to think big and ask the question "what if?". There is not an expectation the student's work product will be implemented by the taskforce or MNPS.

School Partners: Antioch High School, Overton High School and Glencliff High School

Key Stakeholders: The Mayor's Sustainability Advisory Committee, MNPS Students, Academy Coaches, Mayor's Office, Capstone, MNPS, Directors of Schools Office, Teachers, and Deloitte.

Target Participants: MNPS High School Seniors and Urban Green Lab

Targeted Participation: 5 – 10 students from each High School

Community Involvement and Sustainability Organizations:

- We have been working on a document and resource guide (work in progress) to connect interested members of the public with opportunities to engaged with Nashville's Sustainability efforts. This guide outlines inclusive actions that everyone can take from signing up for news and updates, volunteering with local nonprofits, to advocating with local councilmembers. No matter the experience level around climate action, there is something for everyone.
- We've helped review a survey to help catalogue Nashville's current inventory of sustainability-focused nonprofit organizations.
- Additionally, we are exploring other ways to share and promote news, and relevant Climate-action activities and tips around the categories of Mobility, Climate and Energy, Waste, Green Building, Natural Resources, and Adaptability. From events to social media campaigns with some star power (MJH!), we are exploring low- and no-cost ways to gain exposure and traction.

Thank you for your interest in getting involved in sustainability, climate action, and resilience in Nashville. There are many ways to make a difference – from little adjustments you can make in your daily life to big meaningful changes that can impact our whole city. Here are few recommendations to get you started on the next part of your sustainable journey!

- Attend quarterly [Sustainability Advisory Committee](#) (SAC) meetings and share your learnings with friends and family.
- Review the SAC's [Climate Action Plan report](#); share your ideas with [insert contact person – Kendra?, Linda?]
- [Sign up for news](#) and meeting alerts from city departments. Consider “Sustainability Advisory Committee Meetings and Agendas,” “Socket,” & “Get Rowdy Recycle Newsletter.”
- Visit the [Mayor's Office of Sustainability, Resilience, and the Environment](#) to learn about priorities for a more livable Nashville. Is there a particular topic that captures your interest? Here's who you can connect with for more information:
 - Global Covenant of Mayors: Laurel Creech (laurel.creech@nashville.gov)
 - Sustainability Advisory Committee: Linda Breggin (breggin@eli.org)
 - Clean energy: Vasu Primplani (vasu.primplani@nashville.gov)
 - Green building: Laurel Creech (laurel.creech@nashville.gov)
 - Tree planting: RootNashville: Meg Morgan (meg.morgan@cumberlandrivercompact.org)
 - Solid waste management: Sharon Smith (sharon.smith@nashville.gov)
 - Alternative and multimodal transit: Diana Alarcon (diana.alarcon@nashville.gov)

- Parks and greenways: Cindy Harrison (cindy.harrison@nashville.gov)

- Connect with non-governmental organizations involved in environmental sustainability in Nashville.
 - [Network for Sustainable Solutions](#) has a directory of organizations across Tennessee.
 - [Center for Nonprofit Management](#) has a listing of member nonprofits that do environmental work.
 - [Hands on Nashville](#) connects volunteers to the organizations and events that need their help.
 - Many of the [Sustainability Advisory Committee members](#) are affiliated with businesses and non-profits that champion the environment.
 - Another good place to continue to learn is [Sustainable in the City](#), Nashville's own sustainability webcast series featuring local leaders.

- Advocate for positive environmental change at the local level by contacting your [Council-person](#).

- Flex your purchasing power. As consumers we have the ability to support the products and brands that are making the world a better place, and we can ask the stores and businesses we visit to do more. For example, consider asking restaurants not to bring bread, chips, or straws to the table unless requested!

NASHVILLE ENVIRONMENTAL SUSTAINABILITY PHOTO CONTEST

The Metro Nashville Mayor's Sustainability Action Committee is seeking photographs that represent the various aspects and needs of creating a more sustainable Nashville. Photos may include a range of environmental issues, impacts, or solutions. Each entrant may submit up to three images complying with the requirements and rules below. Entries will be judged on relevance to the theme, as well as composition, originality, and technical quality, and will include open voting by the public. The images selected will be used to educate and motivate audiences to take action to improve lives and secure our natural resources for current and future generations.

Winners will be selected in three age categories and multiple themes. Submissions will be viewed and voted on online, and winners will be exhibited online and throughout various venues around Nashville. Photographs will receive exposure for their work, while aiding and educating the public on the importance of environmental sustainability.

Important Dates:

- Call for Entries: January 15 - February 15, 2023 (promote to organizations prior to launch, Jan. launch)
- February 15 – April 2, 2023 (promote to organizations prior to launch, Jan. launch)
- Voting March 6 – April 2, 2023
- Notification Date: April 15, 2023

Categories:

Under 12

12 – 18 years

18 and older

Themes:

- Energy (conservation, usage, impact on the environment, green infrastructure, vehicle to grid, EV)
- Transportation (vehicular, walk, bike)
- Buildings (energy saving design, neighborhoods, landscaping...)
- Waste (food, water, energy...)
- Natural Resources (energy, water, air, wildlife, landscaping, land use,)
- Environmental Justice (impacts of negative environmental impacts on lower income and minorities...)

- Resilience (addressing climate change and environmental issues through... preparedness – floods, heat, extreme weather; urban canopy, heat island mitigations, heating/cooling centers/shelters; green infrastructure.....) supporting community

(The Committee reserves the right to reassign categories)

Caption Requirements:

Photo Credit:

Photographer's name

Location (Metro area- Davidson and surrounding counties, and date the photo was taken)

Caption:

Who or what is depicted in the photo

Description of how the photo's content impacts the environment (in a positive or negative way) – how does the photo represent the category? Tell us what inspired you to take the photo? What does this photo say about our community?

Word limit: Maximum 150 words

Technical Requirements: (Josh Holloway, Jenn Harrman will work to develop the site)

Photos in this contest should do

To be displayed in our online gallery without being stretched or distorted, photographs must be submitted in .jpeg, .jpg or .gif format, edited for web in sRGB color space, at least 2,000 pixels wide, and no larger than 10 MB.

Exclusions:

Photos will be excluded from the contest that:

- Are not in a digital format and submitted electronically
- Have been significantly retouched or altered with software
- Contain obscene, provocative, defamatory, explicit, or otherwise objectionable or inappropriate content
- Infringe on copyrights or misrepresent the work of others
- Include watermarks, time or date stamps, or logos
- Have not met all submission requirements
- Are compressed files
- Do not include photographer credit, caption, and location
- Have been previously published
- Are not taken in area of Metro Nashville/Davidson County or surrounding counties

Copyrights & Usage Rights:

The artist participating in the competition grants Metro Nashville the right to use these photographs to promote the competition on its website, social media, newsletter, catalogues, exhibition or through its partners. However, the copyright is retained by the artists.

Release Form for human subjects (Metro legal – Mathew Garth, Kendra will provide this)

Awards:

Recognition Certificate from Mayor

Prizes: find \$ - (Best of Show) photo op, swag bags

Submission Link:

(Josh Holloway will provide this)

Nashville Mayor's Office Sustainability Reports:

<https://www.nashville.gov/sites/default/files/2021-11/Executive-Summary-of-2021-Committee-Report.pdf>

<https://www.nashville.gov/sites/default/files/2021-04/2021-Report-Climate-Change-Mitigation-Action-Plan.pdf?ct=1618947666>

**ADVISORY PANEL FOR PUBLIC
ENGAGEMENT ON
ENVIRONMENTAL JUSTICE**

ADVISORY PANEL MEMBERS

- **Co-Chairs**

- Eva Parker – Assistant Professor of Dermatology, Vanderbilt University Medical Center
- Cheryl Noe – Executive Director, Project C.U.R.E Nashville

- **Members**

- Nicole Kemp – Urban Green Lab
- Jordan Owens – Urban Green Lab
- Jordan Perry – Environmental Law Institute
- Nelson Guillen – Network for Sustainable Solutions
- Noel Durant – TN State Director, The Trust for Public Land
- Mekayle Houghton – Executive Director, Cumberland River Compact
- John Sherman – Chief Partner, Sherman Impact Consulting
- Mary Vavra – Senior Urban Planner/Landscape Architect, Barge Design Solutions, Inc.



MISSION & GOALS

Mission: Advise/Review/Comment on specific environmental justice-related initiatives in Metro Nashville

Goal: Leverage existing activities to improve EJ and equity

1. Participatory engagement
 - Participatory governance policy
 - Delineation of guideposts for participatory budgeting
2. Heat mapping project with NOAA

Status: We are in our infancy and our work has just begun.



Sustainability Advisory Committee Meeting

Metro Nashville Updates

September 28, 2022

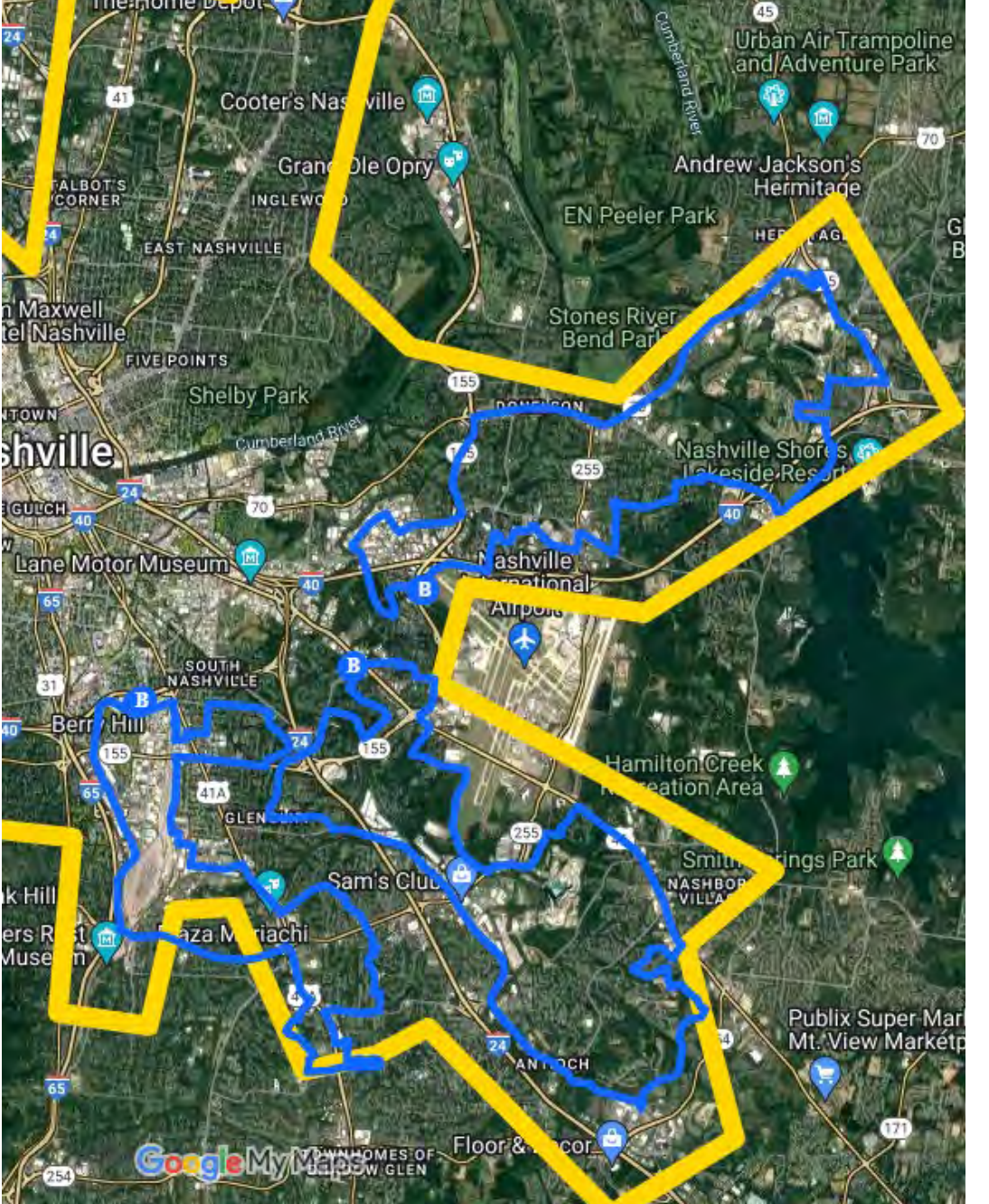
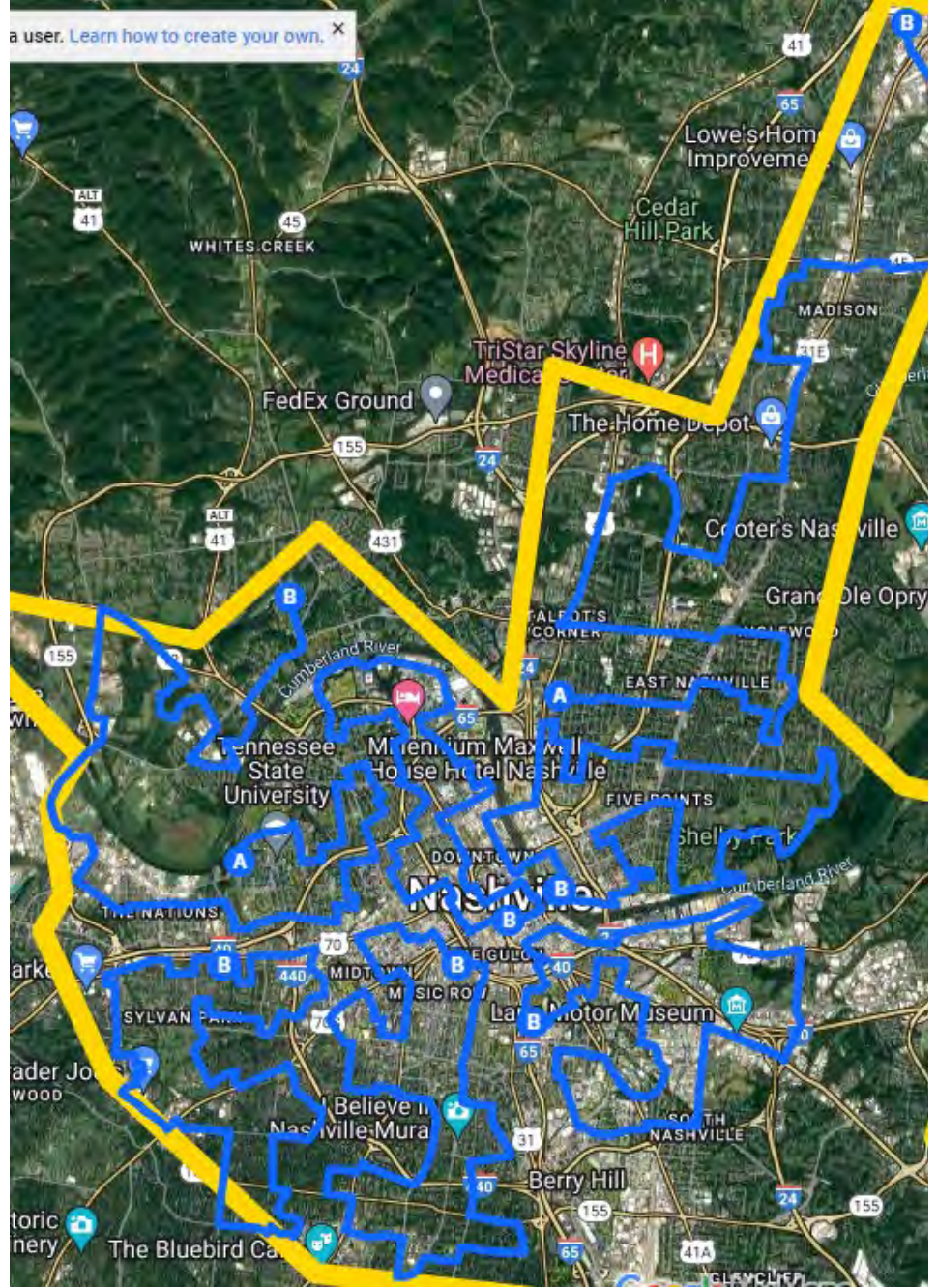
Kendra Abkowitz



HEAT MAPPING

- Heat waves harm more people than all other meteorological hazards combined and tend to disproportionately affect communities of color
- In Nashville, climate change is predicted to worsen extreme heat more than any other weather threat
- August 14 heat mapping event; data and heat index maps produced can help inform heat mitigation strategies such as:
 - Increased education and outreach on heat risks and heat equity issues
 - Increasing trees and vegetative cover
 - Creating green or cool roofs
 - Use of cool pavements
 - Creation of cooling and/or hydration centers
 - Deployment of early warning systems
 - Encouragement of energy conservation measures
- Take Action: Help share heat index maps with your network this fall!
- Take Action: Help Metro determine how to use heat index maps to inform future policy!

a user. Learn how to create your own. X



SOLSMART BRONZE DESIGNATION

- Federal program that recognizes municipalities that have worked to remove barriers to solar energy
- Codes staff trained in solar permitting and inspection best practices
- Display of permitting and inspection information on codes webpages
- Affirms that Metro has served as a leader on solar, installing solar PV on under-utilized properties and government facilities



METRO FACILITIES ENERGY BENCHMARKING

EnergyStar Benchmarking Metrics CY 21 (as of 8/24)

Total # of Metro Facilities	329
Total # of Energy Meters	981
Total # of Meter Data Entries	9,404
Total Sq Ft	20,895,673
Total Energy Costs	\$28,673,802.81

- Benchmarking allows measurement of energy performance of a single building over time relative to other similar or reference buildings
- Supports greenhouse gas emissions targets and requirements in ordinance
- To inform facilities well suited for deep decarbonization work and investment of energy savings revolving fund

****Data represents approximately 30-40% of real estate portfolio.****

SOLAR FEASIBILITY ASSESMENT

- Evaluation of Metro property locations well suited for solar installations
- **230 site evaluations complete (as of September 27); 31 remaining**
- Site summaries being compiled
 - Beacon projects identified
 - Departmental review
- Cost benefit analysis and report with tiers
 - Lease agreement or capital purchase option
 - Leveraging IRA provisions



COMING SOON OR UNDER DISCUSSION

- FUSE Corps Fellow for Resilience Planning
- Local C-PACER program
- LED Streetlight Retrofit
- C&D Recycling Legislation
- Sustainability and Resilience in East Bank – What should it look like?
 - Sustainable building
 - Connectivity, mobility, sustainable transit
 - Green space and tree canopy
 - Waste minimization – construction and operation
 - District approaches to infrastructure
 - Nature-based solutions to flooding
- 93 EVs on order for general government fleet
- Broader EV strategy across the city
- Urban Bird Treaty Program City
- Trust for Public Land 10 Minute Walk Report
- Participatory Budgeting – Engagement and Environmental Projects