

CITY OF BLOOMINGTON

COMMISSION ON SUSTAINABILITY

MEETING PACKET

McCloskey Conference Room – City Hall
Tuesday, September 10, 2024, 6:00 p.m.

Or virtually at:

<https://bloomington.zoom.us/j/84327085962?pwd=naI8LVmKZSoInPUHbXuw3h7oqMyi5g.1>

Meeting ID: 843 2708 5962

Passcode: 034238

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- 1. Agenda**
- 2. Minutes from August 13, 2024**
- 3. Chair Report**
- 4. Working Group Grants Proposal: “Bokashi Pilot Project”**
- 5. Working Group Grants Proposal: “Ecovillage OMgarten” budget breakdown**
- 6. Memo on establishing an ad-hoc committee for this year’s Sustainability Assessment Report**
- 7. Proposed framework for BCOS Annual Sustainability Assessment**



CITY OF BLOOMINGTON
COMMISSION ON SUSTAINABILITY

NOTICE AND AGENDA

Tuesday, September 10, 2024, 6:00 p.m.
McCloskey Conference Room – City Hall

or virtually at

<https://bloomington.zoom.us/j/84327085962?pwd=na18LVmKZSoiPUHbXuw3h7oqMyi5g.1>

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1. **Call to Order**
2. **Roll Call**
3. **Approval of Agenda**
4. **Approval of Minutes: August 13, 2024**
5. **Public Comment** **10 min**
up to 3 minutes per person
6. **Reports from Commissioners** **30 min**
 - A. Chair (Justin Vasel) 15 min
 - B. Waste Management Working Group (Matt Austin) 10 min
 - a. Grant Proposal – Bokashi Festival Pilot Project
 - C. Council Ex-Officio (Dave Rollo) 5 min
7. **Discussion of Topics Not the Subject of Resolutions** **20 min**
 - A. Grant Proposal – CanopyBloomington (Andrew Guenther) 10 min
 - B. Grant Proposal – Ecovillage OMgarten (Zero Rose) 10 min
8. **Resolutions for Second Reading and Discussion**
9. **Resolutions for First Reading and Discussion**
10. **Report from Staff Liaison (Shawn Miya)** **10 min**
11. **Member Announcements** **5 min**
12. **New Business** **10 min**
 - A. Ad-Hoc Committee: Sustainability Assessment Report (Tara Dunderdale) 10 min
13. **Adjournment**

Next Work Session: September 24, 2024 at 6pm

Next Regular Meeting: October 8, 2024 at 6 pm

As a quorum of the Commission or its committees may be present, this gathering constitutes a meeting under the Indiana Open Door Law (I.C. § 5-14-1.5). For that reason, this statement provides notice that this meeting will occur and is open for the public to attend, observe, and record what transpires.



CITY OF BLOOMINGTON

COMMISSION ON SUSTAINABILITY

Minutes

Tuesday, August 13, 2024, 6:00 p.m.

McCloskey Conference Room — City Hall

1. Call to Order: **Justin Vasel calls the meeting to order at 6:02**
2. Roll Call: **Members present: Justin Vasel, Matt Austin, Zero Rose, Tara Dunderdale, John Eldon, Dave Rollo, Jami Scholl, Evan Nix, David Maener, Hunter Hawley. City Staff Present are Shawn Miya, Jane Kupersmith, and Larry Allen.**
3. Approval of Agenda: Agenda was unanimously approved.
4. Approval of Minutes: June 11, 2024
Justin Vasel notes that some items at the end of minutes were placeholders from the agenda and need to be removed. Motion to approve the minutes with recommended change by Matt Austin. Second by Dave Rollo. Motion carried by unanimous voice vote.
5. Public Comment: No public comment.
6. Reports from Commissioners
 - a. Chair Justin Vasel welcomes new commissioners and invites them to introduce themselves and describe what interests them about the commission. Zero Rose, Hunter Hawley, Tara Dunderdale all describe their backgrounds and interests. Dave Rollo describes the context when introducing the original legislation to establish BCOS. Extant members share their backgrounds.
 - b. Justin Vasel shares BCOS 101 slides that give an overview of powers and duties of the commission including org chart and the mission of BCOS, “to promote sustainable, socio-environmental-economic well-being of Bloomington and all its inhabitants.”
 - c. Justin Vasel Shares items on BCOS radar including:
 - i. Strategic Goal Setting
 - ii. Urban Beekeeping
 - iii. Chicken Ordinance
 - iv. Bylaws Refresh
 - v. BCOS Onboarding Materials
 - vi. Social Media & Online Presence
 - vii. Sustainability Assessment Report
 - viii. IU Sustainability Interns
 - ix. Grants

- x. Urban Ag and Food Safety
 - xi. Social Equity Projects from Just Transition Working Group
 - xii. Sustainability / CAP tracking
 - xiii. Summit District Tracking
 - xiv. Collaboration with Other Groups
- d. Justin Vasel introduces the idea of work sessions as a way to execute more efficiently on BCOS projects. Suggests that the Commission could have an additional meeting each month to allow them to get in the weeds on a subject during regularly scheduled monthly meetings. No final decisions or votes, but quorum and advance notice would be required.
- e. The group discusses the difference between working groups and work sessions. Larry Allen notes that if working groups are gathering and 2 or more members are present, notice would be required. He notes that working groups are not required to meet in City Hall, but the location must be accessible by the public.
- f. Justin Vasel introduces the issue of file storage ownership, which has surfaced as recently in violation of the City's IT policy. Staff determined that folder and document ownership must be by City staff, but that sharing documents with commissioners itself is not a problem. The group cites the need to access and manage their own files to advance projects and discusses ways in which this may be accomplished. City Attorney Larry Allen notes that all output is subject to public information requests and document retention policies. Justin Vasel notes that the executive committee will meet with staff in order to discuss ways forward.
- g. Just Transition Working Group (KateLyn Edwards): No update
- h. Waste Management Working Group (Matt Austin)
- i. GardenQuest is going to be offering training on the Bokashi method for composting. Using bokashi, within a week of fermenting, the remaining matter becomes a liquid fertilizer.
 - ii. Matt Austin offers an update on the sustainable neighborhoods grant that GardenQuest received for TerraCycle: They have filled multiple containers. 10 neighbors have been trained. Waste Reduction District of Monroe County (WRDMC) has 2 terracycle containers at their facility. GardenQuest reached out to the HT to publicize TerraCycle and neighborhood grants through BCOS.
 - iii. Justin Vasel adds that BCOS has access to Sustainable Neighborhood Grants and Working group grants through ESD's annual budget
- i. Council Ex-Officio (Dave Rollo)
- i. Dave Rollo states there is not much to report as we just returned from recess. It's a good opportunity to learn about what the City does. The City will be considering the issue of whether to proceed with Annexation and whether to expand the boundaries of the City. County

is opposed. Rollo believes the council will be making a declaration about it and the administration will proceed with more litigation.

- ii. Consideration for the commission: when thinking about sustainability in 03-04 when the commission was originally established, it became apparent that climate change was already problematic. Might consider what is at the heart of sustainability. This goes to first principle considerations. Previously—that common diagram that we know: environment – economy – equity. To optimize them, they must function with equal consideration. Rollo believes this model is no longer sufficient, because it doesn't place limits on the entirety of the activity of human processes. So we could have a discussion that it's not about lowering impacts, but rethinking the ways in which humans process economics (defined as throughput of energy and materials). Rather recommends a nested model—where the environment is the outside—limits. Then social, and then economy. Rollo would be willing to continue discussing if this is of interest to the commission.

7. Discussion of Topics Not the Subject of Resolutions

- a. Urban Agriculture and Food Security (Jami Scholl). Jami Scholl describes a project she is working on an urban agriculture amendment to the UDO. She has learned that some HOAs don't allow certain types of food growing. There is an overall question about how many people can actually grow their own food and grow it to sell (economic incentive). Seemed like it would be a big win but perhaps the outcome is dwindling

Spreadsheet examines how many HOAs support local food sovereignty / sustainability. An intern is needed to fill out the spreadsheet.

Steps recommended: 1. Update city code to integrate sustainability priorities and 2. Make standard covenants, conditions and restrictions (CCRs) for developers to use if they opt to create an HOA, make public the way in which an existing neighborhood can update their CCR, create an updated NOV for HAND to include more specific information that will be supportive of Climate Action Plan., add an urban farm to RCA park. Update the UDO to include sustainability goals

NOVs should be updated. Notes that permaculture and edibles were cited as violations by HAND.

JS noted the need to include diagrams—better visual communication would help. Doesn't know if compliance officers understand what plants are what. Offer more specific date and time for a revisit and information about communications to set up a new inspection.

JS believes that plant lists and other guiding documents could be shared with HOAs and compliance officers.

- b. Neighborhood Grant Collaboration Opportunities with Waste Reduction District of Monroe County (guest: Tom McGlasson) Push to next meeting. Tom McGlasson
- c. BCOS Social Media (Zero Roze)
Zero notes that there was no commission account. There was an Instagram but nothing being posted. Years ago—did video PSAs for CATS channel 7 (nonprofit). Doesn't want this to be a specialized community. Jami follows NextDoor. Only for the neighborhood.

Tara asked for data on social media impact

Staff suggests and Justin Vasel agrees that staff will provide info on relevant policies to help drive a solution for social media that meets the needs of BCOS while meeting the requirements of City best practices and policies.

~~8. Resolutions for Second Reading and Discussion~~

~~9. Resolutions for First Reading and Discussion~~

10. Report from Staff Liaison: Shawn Miya shares that the Urban Heat Island Mapping campaign was completed. She shares a video piece from WTHR in Indianapolis.

Provided information about Mother Hubbard's Cupboard's Garden Gala

11. Member Announcements

- a. John Eldon notes that there is no progress on issuing grants from the BCOS Working Group Grant program. He notes that we are already in August and should get a plan to disburse this funding by year end.

12. New Business

a. Officer Elections

- i. Matt Austin moved to extend the meeting 5 minutes. Jami Scholl seconded. The motion was carried by unanimous voice vote.
- ii. Zero Roze was nominated as secretary by Matt Austin. Jami Scholl Seconds. The motion was approved unanimously through a roll call vote.

13. Adjournment: Justin Vasel moves to adjourn without objection at 7:34 pm



CITY OF BLOOMINGTON
COMMISSION ON SUSTAINABILITY

Chair Report

September 10, 2024

Justin Vasel

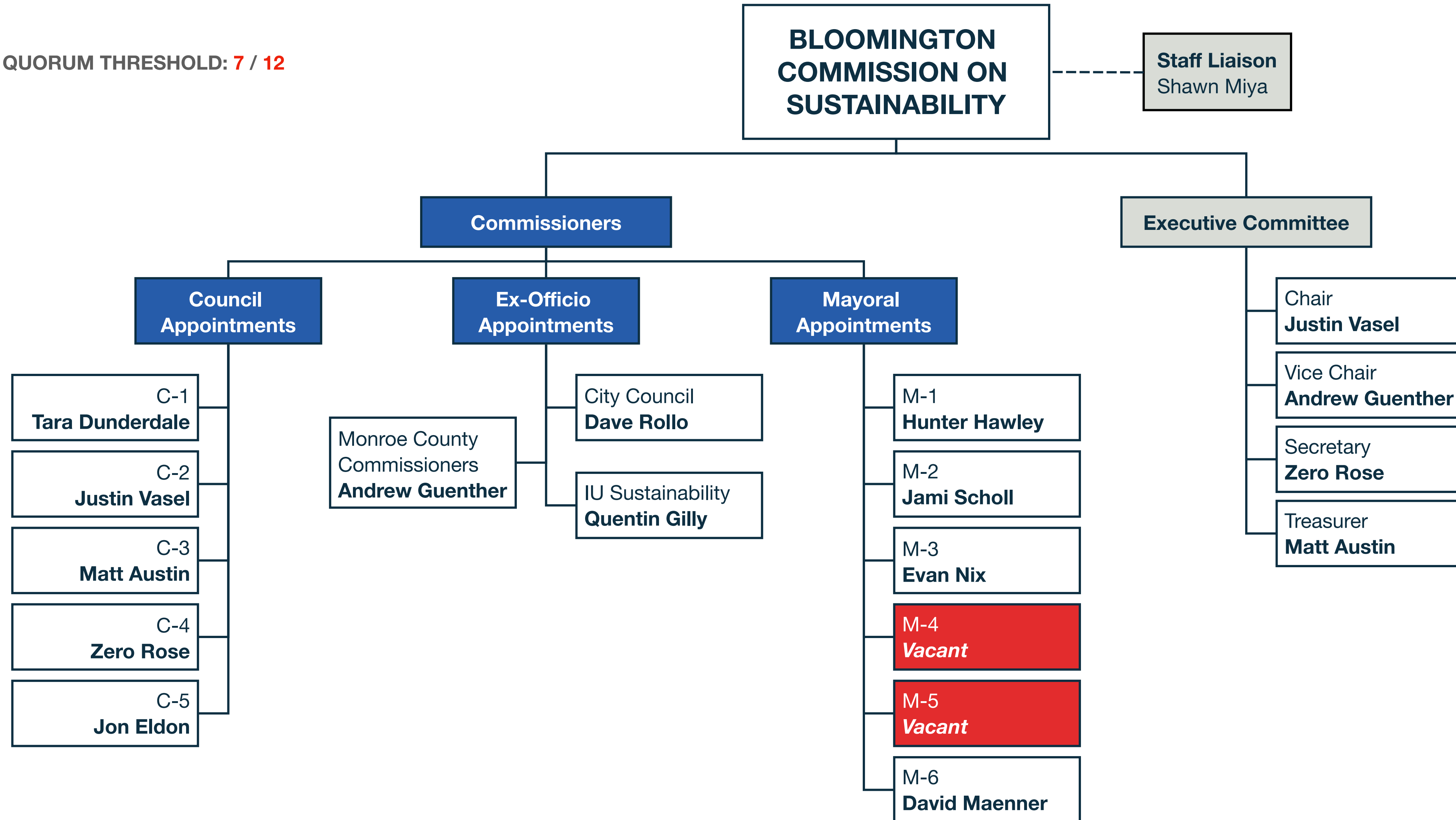
WELCOME NEW COMMISSIONERS

Quentin Gilly
(IU Sustainability)

BCOS Organization Chart

CURRENT AS OF SEPTEMBER 10, 2024

CURRENT QUORUM THRESHOLD: 7 / 12



Tentative BCOS Calendar

	Date	Event		Date	Event
<i>Today</i>	September 10, 2024	Regular BCOS Meeting		January 14, 2025	Regular BCOS Meeting
	September 24, 2024	BCOS Work Session		January 28, 2025	BCOS Work Session
	October 8, 2024	Regular BCOS Meeting		February 11, 2025	Regular BCOS Meeting
	October 29, 2024	BCOS Work Session		February 25, 2025	BCOS Work Session
	November 12, 2024	Regular BCOS Meeting		March 11, 2025	Regular BCOS Meeting OFFICER ELECTIONS
	November 19 or 26, 2024	BCOS Work Session		March 25, 2025	BCOS Work Session
	December 10, 2024	Regular BCOS Meeting		April 8, 2025	Regular BCOS Meeting
W I N T E R B R E A K					

General Updates

- Work session held Sept 3, 2024
 - First one since early 2022!
- BCOS document repository
- Social media procedures
- City budget proposal
- Working group grants
- Engagement & Outreach
 - Commission on Hispanic and Latino Affairs (CHLA)


Sustainability Assessment Reports

Bloomington Sustainability Assessment Report

September 1st, 2007

The Bloomington Commission on Sustainability

2007



Bloomington Sustainability Assessment Report
September 1, 2008

Prepared by Bloomington Commission on Sustainability (BCOS)

John Hamilton – Chair	Dave Rollo
George Huntington – Vice Chair	Paul Schneller
Steve Ashkin	Cynthia Schultz
Bob Bent	Jim Sherman
Kent Berglund	Toby Strout
Christine Glaser	

2008 (a)

2008 S.T.A.R.
(Sustainability & Trends Assessment Report)


for the
City of Bloomington

presented by
B.C.O.S.
(The City of Bloomington Commission on Sustainability)

2008 (b)

Sustainability and Trends Assessment
UPDATE of the 2008 Report
for the
City of Bloomington
presented by
The City of Bloomington Commission on Sustainability (BCOS)
Completed December 2009

2009



Bloomington Commission on Sustainability
Annual Sustainability Assessment
March 22, 2017

This report is the Annual Sustainability Assessment prepared by the Bloomington Commission on Sustainability (BCOS) to the Common Council, Mayor, and the public in accordance with the Bloomington, Indiana Code of Ordinances for Boards, Commissions, and Councils.¹ The duties of BCOS related to this report are specified in Powers and Duties under Section 2.12.100.

“(C) To determine, in cooperation with other city boards and commissions, Bloomington’s current and future sustainability status by developing and monitoring a set of sustainability indicators;

(D) To provide, in cooperation with other city boards and commissions, an annual "sustainability assessment" based on said indicators. The assessment shall be included in an annual report and provided to the common council, mayor and the public;”

Sustainability Outcomes for the City

Environmental Metrics

BCOS selected three environmental sustainability categories as a sample of metrics tracked by the city. These are energy usage, water usage, and waste disposal (estimated) over an eight-year period (2008 to 2016). The data presented comes from each utility provider, which defines Bloomington service areas differently.

Energy usage includes data for both natural gas and electricity. Natural gas data, provided by Vectren, represents the total for customers with Bloomington city addresses (Figure 1). Duke Energy provided electricity consumption data

2017

BCOS Working Group Grant Application

Date: August 29, 2024

Name: Matt Austin on behalf of the BCOS Waste Reduction Working Group

Title: Bokashi Pilot Project

Description of the project:

Bokashi is a process that converts organic matter, such as food waste, into a nutrient-dense soil amendment, liquid fertilizer, or root drench. Bokashi is a fermentation process which has several benefits over traditional composting, such as greater nutrient retention, reduced greenhouse gas emission, and significantly reduced maturation time.

This pilot project will educate the public about how to integrate Bokashi at home and to demonstrate the its to the Bloomington community by using it to reduce food waste from festivals, particularly the Lotus World Music & Arts Festival (“Lotus Festival”).

In addition to building community and reducing local festival food waste, the educational component of this project will provide Bloomingtonians with a new option for dealing with at-home food waste that has been missing since the EarthKeepers compost collection service closed in 2023.

This project will seek to leverage partnerships with several local organizations. GardenQuest will provide training and on-going support. The Lotus Festival could provide marketing. Grants from the Waste Reduction District of Monroe County (WRDMC) and Bloomington Commission on Sustainability (BCOS) could provide grant funding. Sunbelt could provide necessary equipment, and several partners could provide the land needed to perform and benefit from the Bokashi process, such as the Community Orchard, the Community Gardens, GardenQuest, and local residents and businesses.

Purpose:

Ever since EarthKeepers closed in 2023, residents of Bloomington have been searching for an answer to the question of what we can do with our food waste now.

The purpose of this project is to answer that question by promoting, marketing, teaching, and supporting Bokashi Composting to residents of Bloomington all while running a food waste pilot at a local festival. The longer-term vision of this effort is for Lotus to incorporate this into their event every year.

Using a festival like Lotus is a great opportunity for outreach and to promote this food waste solution to a much larger group of individuals while creating partnerships with government agencies, non-governmental entities, residents, businesses, and educational organizations.

Through this project, Lotus would collect food waste into Bokashi buckets. Over a period of two weeks, liquid fertilizer would be extracted from the process, and the leftover fermented food waste (also known as Bokashi Cake or just “cake”) would be buried, trenched, or layered into garden beds throughout the community.

If there are not enough garden beds, then we would dig 12–18 inch deep pits where we layer the cake with soil. The end product is a nutrient-dense soil that can be harvestable and useable in 3-4 months.

Ideally, all or most of the food waste from Lotus would go back into the community, creating fertile growing spaces for food with an incredible liquid fertilizer boost.

This project aligns with the mission and goals of BCOS in several ways:

1. Gathering and disseminating information and promoting practical initiatives to reduce at-home food waste through Bokashi composting.
2. Supporting the BCOS mission to “promote sustainable socio-environmental-economic well-being of Bloomington and all its inhabitants” (Bloomington Municipal Code § 2.12.100(1))
3. Effectuating BCOS’s duties “to coordinate ongoing and to propose and promote new sustainability initiatives among residents, businesses, governmental, nongovernmental agencies and educational organizations through education and outreach programs” (Bloomington Municipal Code § 2.12.100(8)(A)) and “to research and apply for grants or other funds or gifts from public or private agencies for the purpose of carrying out any of the provisions or purposes of this section” (Bloomington Municipal Code § 2.12.100(8)(G))
4. Residents use of a homemade liquid fertilizer (Bokashi Tea) and soil amendment (Bokashi Cake) to grow nutrient dense food aids in the community’s sustainability and resilience to climate change.

Project Goals:

1. Divert approximately 1,000 lbs of food waste at the Lotus Festival into Bokashi buckets instead of the trash.
2. Demonstrate Bokashi Composting as a viable solution to at home food waste to the Bloomington community.
3. Create a template for other communities to follow for management of food waste in neighborhoods and at festivals.
4. Create marketing & educational material that can be reused at future events.
5. Recruit & enroll 10–20 new neighborhood compost captains

Objectives:

1. Coordinate w/ Lotus volunteers to schedule training
2. Present the pilot to the Executive Committee for the Waste Reduction District of Monroe County and request \$5,000 of financial support.
3. Contact Sunbelt Bloomington to request their assistance and reserve the necessary equipment for 2.5 weeks after Lotus.
4. Continue to work with the Board of the Community Orchard to gain support from the City to use the site for Bokashi pits.
5. Conduct an initial Bokashi 'Cake pilot' with the Community Garden with the intention of amending every plot/bed with 'Cake' from Lotus starting next year.
6. Complete our Bokashi training w/ 6 FFA students for the Orange County Harvest Festival. Collect food waste at the festival.
7. Once funded, purchase 50 Bokashi buckets, construct them, & water test them (~25 hours of labor)
8. Speak with the Garden Implementation Task Force about partnership opportunities
9. Create marketing & educational material that can be reused at future events.

Expected Outcomes:

1. At least 20 volunteers trained on Bokashi Composting.
2. 30–50 Bokashi buckets filled w/ food waste, preventing 500–1,000 lbs of food waste from entering the landfill.
3. Increased awareness of Bokashi composting and adoption of it at home by Bloomington Residents including 10–20 new Compost Captains
4. 10–25 gallons of liquid fertilizer produced
5. 400–800 lbs of Bokashi 'Cake' used as a soil amendment

Activities taken to achieve this:

1. Presenting proposal at the CAC and obtaining a vote of support.
2. Presenting to the Executive Committee of WRDMC to financially support this pilot at the same level as BCOS of \$5,000
3. Applying for BCOS grant for \$5,000
4. Work with Community Orchard to gain support of City to use specified areas for Bokashi Pits
5. Work with the Community Garden coordinator for initial single bed Bokashi Cake pilot

6. Identify residents and community businesses interested in hosting Bokashi pits
7. Contact Lotus and coordinate with volunteers for training.
8. Contact Sunbelt Rentals about equipment
9. Purchase 50 Bokashi buckets, construct and water test them.

Amount requested:

\$5,000 (attached is a budget proposal)

Item	Description	Amount
Marketing & Educational Materials	For use at festivals and with Compost Captains	\$ 1,000.00
Bokashi Supplies	Includes: Vinegar & cleaning supplies, pH-testing solution, containers for Bokashi bran given to Compost Captains, containers for Bokashi "Tea", etc.	\$ 500.00
Bokashi Bucket Management	Post-festival management. Includes 50+ hours of labor to drain "tea" from buckets, checking the Ph, layering Bokashi cake into pits, cleaning buckets and solarizing them prior to storage.	\$ 2,500.00
Bokashi Pit Construction	This represents half of the total construction cost.	\$ 1,000.00
		\$ 5,000.00

Funding is also being sought through the Waste Reduction District of Monroe County (WRDMC). We also might see if funds through the Garden Implementation Task Force are applicable to this project.

Equipment rentals for digging Bokashi Pits might be donated by Sunbelt Rentals.

Any unfunded time spent on the project by GardenQuest will be an in-kind donation to Lotus Festival. Lotus could provide marketing in exchange, and we hope to include BCOS and WRDMC in that marketing.

Vendors:

- GardenQuest is managing the pilot program.
- Bokashi buckets & wheat bran are purchased through BokashiCycle.com.

|

- Other supplies will be procured from local hardware stores and other local businesses.

DRAFT

	Material	Quantity	Price per	Total	
Roof Construction	2x4	5	5	25	
	2x4	4	5	20	
	joist hangers	10	0.5	5	
	4x4 10 ft long	2	15	30	
	4x4 8 ft long	2	8	16	
	Concrete	4	5	20	
	Gravel	2	5	10	
	roof decking 4x8	2	8	16	
	roof wrap	1	25	25	
	roof nails	1	2	2	
	screws	1	8	8	
	nails	1	3	3	
	deck screws for joist hangers	1	4	4	
	2x6	2	20	40	
		Roof Each			224
					Half off Friday
	Roof Total			448	224
	rain barrels	2	78	156	
	bike rack	1	331	331	
Cob Bench	scrap limestone haul	1	10	10	
	straw	2	10	20	
	sand 100lb bag	2	17.97	35.94	
	clay	free	free	0	
				65.94	
	Total			1000.94	

Links to Purchase

<https://parkwarehouse.com/product/boone-bike-rack-double-sided/>

<https://www.homedepot.com/p/Quikrete-100-lb-Commercial-Medium-Sand-196201/100318538>

Roof

Priced out with Habitat for Humanity Restore

\$234 each, **\$448 Total**

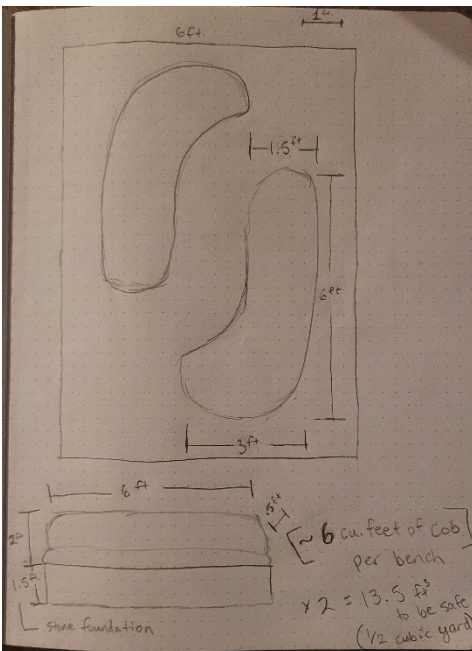
Bench

Basic guidelines for natural building are:

1 part clay + 2 parts sand + 3 bales of straw = 1 cubic yd (1 cubic yard = 27 cubic feet)

Clay typically sourced from the land. Bloomington has a lot of clay soil, would be able to be procured for free. **Evan has at least half a cubic yard already available.**

\$65.94 Total



Could build two benches for half a cubic yard of natural building material.

1.5 bales of straw = \$20

Clay = FREE

Limestone = \$10

Sand = \$35.94

Bike Rack

\$331 (Perhaps could be donated by Bicycle Garage Inc.)



Total Cost

\$1000.94



TO: Members of the Bloomington Commission on Sustainability
FROM: Justin Vasel, Chair, Bloomington Commission on Sustainability
DATE: September 10, 2024
SUBJECT: Reviving BCOS Sustainability Assessment Reports

One of our Commission's core duties is to produce an annual Sustainability Assessment Report (SAR) in cooperation with other city boards and commissions. The ordinance which established BCOS declared that the annual assessment will be shared with the Common Council, the Mayor, and the Public¹.

The last SAR produced by BCOS was published in 2017². Since then, Bloomington's 2018 Sustainability Action Plan (SAP) has been published and reached the end of its implementation timeline³, and the City has also released a Climate Action Plan (CAP)⁴. While the City has made some tracking tools broadly available, such as the Climate Action Dashboard⁵, an independent and publicly-available assessment of Bloomington's progress with the CAP and its success in implementing the SAP does not currently exist.

Our Commission plays a central role in educating the public and recommending data-driven courses of action to policy-makers in the Office of the Mayor and the Common Council. Without a regular assessment, we are flying blind, and cannot effectively fulfill these duties. We must re-establish the cadence of assessment and reporting that BCOS achieved in the past.

To that end, I am calling for the establishment of an ad-hoc committee to produce a high-level sustainability assessment report for Commission consideration by the end of this year.

It is important that this ad-hoc committee be small enough to remain agile and large enough to be productive on this accelerated timeline. I recommend that membership on this committee be limited to three Commissioners, with Tara Dunderdale to serve as its chair. The committee will be dissolved upon completion of their work.

A handwritten signature in black ink, appearing to read "Justin Vasel".

JUSTIN VASEL
Chair, Bloomington Commission on Sustainability

¹ [Bloomington Municipal Code §2.12.100\(8\)\(D\)](#)

² [BCOS Annual Sustainability Assessment 2017](#)

³ [City of Bloomington Sustainability Action Plan](#)

⁴ [City of Bloomington Climate Action Plan](#)

⁵ [City of Bloomington Climate Action Dashboard](#)


BCOS Annual Sustainability Assessment


Proposed new framework


Prepared for BCOS by
Tara Dunderdale, EdD
September 10, 2024


Rationale for format change


CITY OF BLOOMINGTON, IN | CLIMATE ACTION DASHBOARD



HOME



CLIMATE CHANGE



TOP ACTIONS



ENERGY & BUILT ENVIRONMENT



TRANSPORTATION & LAND USE



WASTE MANAGEMENT



WATER & WASTEWATER



LOCAL FOOD & AGRICULTURE


RESILIENCE


ECOSYSTEM HEALTH


CLIMATE ECONOMY


COMMUNITY ENGAGEMENT






PROJECT 46

[Contact City Staff](#)

SECTOR: TRANSPORTATION & LAND USE

Click on an action below to learn more.


WHAT THE CITY IS DOING
WHAT YOU CAN DO

ACTION	EMISSIONS IMPACT
	Install publicly-accessible electric vehicle chargers 🌳🌳🌳
	Promote micro-mobility with scooters and e-bikes 🌳🌳🌳
	Electrify the City's vehicle fleet and equipment 🌳🌳🌳
	Improve micro-mobility safety throughout the City 🌳🌳🌳

EMISSIONS BY SECTOR: TRANSPORTATION & LAND USE

The graph below shows greenhouse gas emissions broken down by sector. You're currently looking at the page for the **Transportation & Land Use** sector which is highlighted in a darker color below.

[Explain this graph to me](#)



Year	Energy & Built Environment	Transportation & Land Use	Waste Management	Water & Wastewater	Overall Emissions
2008	1,000,000	400,000	100,000	100,000	1,600,000
2010	1,100,000	300,000	100,000	100,000	1,600,000
2012	1,000,000	200,000	100,000	100,000	1,400,000
2014	1,100,000	200,000	100,000	100,000	1,500,000
2016	1,000,000	100,000	100,000	100,000	1,300,000
2018	1,000,000	200,000	100,000	100,000	1,400,000
2020	800,000	100,000	100,000	100,000	1,100,000
2022	1,000,000	200,000	100,000	100,000	1,400,000

DEEP DIVE INTO THE SECTOR

The Transportation & Land Use sector is a major source of greenhouse gas emissions, encompassing not only the emissions from passenger vehicles but also those from commercial and industrial transportation. Land use is an integral part of this sector, referring to how land is developed and managed, including the planning of urban areas, transportation networks, and the allocation of space for residential, commercial, and recreational activities.

The connection between land use and transportation is vital, as the design of urban spaces directly influences the density, the need for

Proposed approach

Our Climate Action Goals

Section 02 Transportation and Land Use

Goal TL 1 Decrease vehicle miles traveled (VMT) by 8% of 2018 values.

Goal TL 2 Support and encourage electric vehicle adoption, achieve 30% of vehicles sold and 15% of VMT community-wide by 2030.

Section 03 Energy And Built Environment

Goal EB 1 Increase distributed renewable energy to 250,000 MWH of total generation annually by 2030.

Goal EB 2 Increase energy efficiency citywide 16% for electricity and 12% for natural gas of 2018 values.

Goal EB 3 Support decarbonization of the local electricity grid.

Goal EB 4 Promote "fuel switching" to reduce on-site fossil fuel use in the building sector by 3% of 2018.

Goal EB 5 Increase financing options for energy efficiency and renewable energy projects citywide.

Section 04 Waste Management

Goal WM 1 Increase landfill solid waste diversion by 30% of 2018 values (26,500 tons of waste reduction).

Goal WM 2 Educate, motivate, and empower the public to achieve waste reduction and diversion.

Section 05 Water and Wastewater

Goal W 1 Decrease potable water consumption by 3% of 2018 values.

Goal W 2 Maintain source and drinking water quality through climate related challenges.

Goal W 3 Reduce energy use associated with treating and transporting water and wastewater by 10% of 2018 values.

Goal W 4 Mitigate flood hazards and impacts.

Section 06 Local Food and Agriculture

Goal FA 1 Increase food and nutrition security citywide.

Goal FA 2 Increase local agricultural resilience to climate shocks.

Goal FA 3 Increase and stabilize local food market.

Section 07 Health and Safety

Goal HS 1 Educate, engage, and empower the public for climate health and safety.

Goal HS 2 Prepare Bloomington for climate risks and impacts.

Goal HS 3 Respond to climate risks and impacts.

Section 08 Greenspace and Ecosystem

Goal G 1 Increase quantity and quality of greenspace within the community.

Goal G 2 Increase quantity and quality of climate adaptive native habitats.

Goal G 3 Increase citywide tree canopy coverage by 3% of 2018 values.

Goal G 4 Reduce stormwater and micro heat island impacts.

Section 09 Climate Economy

Goal CE 1 Build marketplace climate resilience.

Goal CE 2 Attract, create, and support businesses that are committed to sustainability and climate goals.

Goal CE 3 Develop new mechanisms for financing City climate action plan implementation.



Proposed approach

2018 Sustainability Action Plan

Executive Summary &
Introduction

Chapter 1 - Climate
Change & Adaptation

Chapter 2 - Energy & the
Built Environment

Chapter 3 -
Transportation

Chapter 4 - Local Food &
Agriculture

Chapter 5 - Waste

Chapter 6 - Water

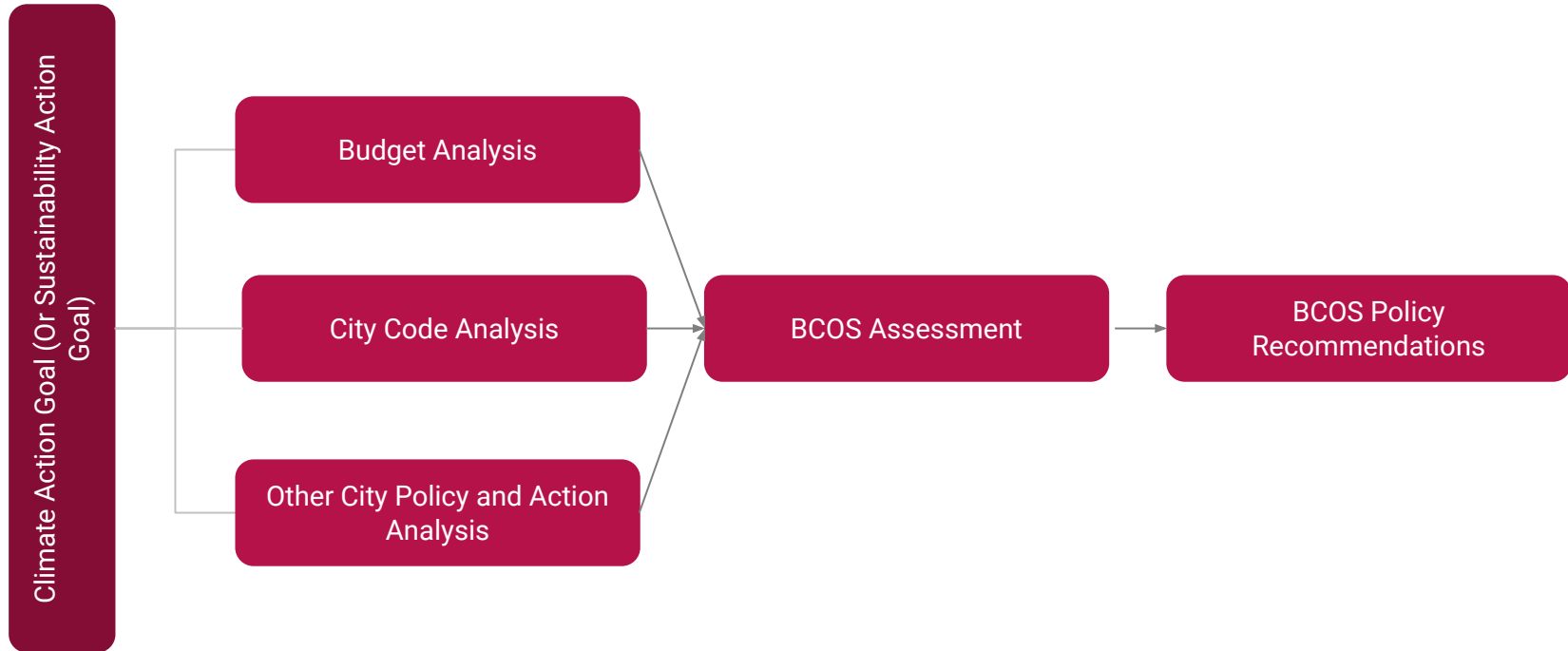
Chapter 7 - Ecosystem
Health

Chapter 8 - City
Operations

Acknowledgments &
Appendices



Possible policy analysis and recommendation framework



Proposed timeline

