



AGENDA
BIRMINGHAM AD HOC ENVIRONMENTAL SUSTAINABILITY COMMITTEE
MONDAY, NOVEMBER 20th, 2023
BIRMINGHAM CITY HALL, 151 MARTIN ST, CONFERENCE ROOM 202, 203 BIRMINGHAM MI *
******* 6:00 PM*******

The City recommends members of the public wear a mask if they have been exposed to COVID-19 or have a respiratory illness. City staff, City Commission and all board and committee members must wear a mask if they have been exposed to COVID-19 or actively have a respiratory illness. The City continues to provide KN-95 respirators and triple layered masks for attendees.

- 1) **Call to Order**
- 2) **Roll Call**
- 3) **Review of the Agenda**
- 4) **Approval of the AHESC Minutes of [August 21st, 2023](#)**
- 5) **Study Session**
 - A. **[Public Engagement Summary Review](#)**
 - B. **[Draft Vision and Objectives](#)**
- 6) **Open to the Public for Items Not on the Agenda**
- 7) **Miscellaneous Communications**
- 8) **Draft Agenda – [December 11th, 2023](#)**
- 9) **Adjournment**

Future Meeting Dates:
TBD

*Please note that board meetings will be conducted in person once again. Members of the public can attend in person at Birmingham City Hall, 151 Martin St., or may attend virtually at:

Link to Access Virtual Meeting: <https://bhamgov-org.zoom.us/j/87587439403>
Telephone Meeting Access: 877 853 5247 US Toll-free
Meeting ID Code: 875 8743 9403

Notice: Individuals requiring accommodations, such as interpreter services for effective participation in this meeting should contact the City Clerk's Office at [\(248\) 530-1880](tel:2485301880) at least on day in advance of the public meeting.

Las personas que requieren alojamiento, tales como servicios de interpretación, la participación efectiva en esta reunión deben ponerse en contacto con la Oficina del Secretario Municipal al [\(248\) 530-1880](tel:2485301880) por lo menos el día antes de la reunión pública. (Title VI of the Civil Rights Act of 1964).

A PERSON DESIGNATED WITH THE AUTHORITY TO MAKE DECISIONS MUST BE PRESENT AT THE MEETING.

City Of Birmingham
Regular Meeting Of The Ad Hoc Environmental Sustainability Committee
Monday, August 21, 2023
Conference Rooms 202 & 203
151 Martin Street, Birmingham, Michigan

Minutes of the regular meeting of the City of Birmingham Ad Hoc Environmental Sustainability Committee held on August 21, 2023. The meeting was convened at 6:00 p.m.

1) Roll Call

Present: Harvey Bell, Lois DeBacker, Lara Edwards, Rachna Gulati, Debra Horner, Joe Mercurio, Jess Newman, Danielle Todd, Dani Torcolacci

Absent: None

Staff: City Planner Blizinski; Planning Director Dupuis, Assistant City Manager Fairbairn

2) Review of the Agenda

3) Approval of the AHESC Minutes of May 15, 2023 and June 12, 2023

Motion by Ms. DeBacker

Seconded by Ms. Horner to approve the minutes of the regular Ad Hoc Environmental Sustainability Committee meeting of May 15, 2023 as amended.

Motion carried, 9-0

VOICE VOTE

Yeas: Bell, DeBacker, Edwards, Gulati, Horner, Mercurio, Newman, Todd, Torcolacci

Nays: None

Motion by Mr. Bell

Seconded by Ms. Gulati to approve the minutes of the regular Ad Hoc Environmental Sustainability Committee meeting of June 12, 2023 as amended.

Motion carried, 9-0

VOICE VOTE

Yeas: Bell, DeBacker, Edwards, Gulati, Horner, Mercurio, Newman, Todd, Torcolacci

Nays: None

4) Study Session

CP Blizinski and PD Dupuis presented the study session items and answered informational questions from the AHESC.

It was noted the accurate number of residences served by Consumer Energy could be found in its representative's email to CP Blizinski and not on the form included in the agenda packet. It

was also noted that Staff would consult with the City Attorney about OMA rules regarding the AHESC sharing resources within Google Drive.

- A. GHGI Data Examples**
- B. SCAP Additional Data Sources**
- C. Project Timeline**
- D. Community Engagement**
 - 1. Interim Survey Summary**
 - 2. Farmer's Market, August 27th, 9am-2pm**

AHESC members' comments on Study Session items were as follows:

- Birmingham residences and commercial properties produce a significant amount of yard waste - nearly a ton per property per year;
- American Forests has a tool that offers a Tree Equity Score that would allow the City to see which areas should be targeted for planting first. The City could have a goal of meeting or exceeding 40% canopy coverage;
- EPA Air Now offers an air quality assessment tool. Birmingham should consider adding sensors and publicizing the data to increase awareness and interest in improving air quality;
- The University of Michigan may have completed a report regarding climate change in Detroit within the past few years that should be included as a data source;
- It would be valuable to take a regional approach to understanding the effects of climate change, and to get more granular in terms of Birmingham's best responses to those effects. It was noted that Birmingham would have concerns about water, for instance, due to its water tables that would be different from other municipalities in the region;
- Water shed report cards should be coming out in Fall 2023 which could be used as another data source. It was noted that Birmingham had halted its payments for water shed quality monitoring, and that it would be beneficial if those payments could be restarted;
- The Rouge River has been listed as an 'Area of Concern' since 1987 - fish should not be eaten from the River, people should not swim in it, and pets should be prevented from drinking from it;
- The AHESC should gain clarity on what data would be needed for the climate and adaptation parts of the plan, and what data would be needed for broader sustainability aspects of the plan;
- Prioritizing sustainable changes that could be made quickly would benefit the residents and the City as a whole. Increasing the sustainability of Birmingham's government would be one set of changes that could likely be implemented relatively quickly;
- Publicizing the financial and sustainability return-on-investments for those changes would be important;
- The EPA EJScreen and EGLE's air quality and water quality monitoring would be valuable sources of information;
- It would be beneficial to keep track of which desired data was not available and to consider recommending that data be sought;
- It was discussed that AHESC members could pursue any appropriate method of publicizing the sustainability survey, including individual AHESC members' social media, word-of-mouth, neighborhood or school newsletters, or other methods;

- It was discussed whether it was more appropriate for the AHESC to clarify its focus before seeking input from the public, or whether input from the public should be solicited before AHESC clarifies its focus;
- It was noted that proper facilitation of the input sessions would help clarify the language people are comfortable with and the language people are motivated by. The input session should also help clarify how broad or focused the vision statement for the plan should be;
- It could be helpful to use some of the quotes from the survey in the public input session; and,
- The Project Timeline and Interim Survey Summary were briefly reviewed.

5) Open to the Public for Items Not on the Agenda

6) Miscellaneous Communications

7) Draft Agenda

8) Adjournment

No further business being evident, the meeting was adjourned at 7:46 p.m.



Leah Blizinski, City Planner



Laura Eichenhorn, City Transcriptionist



MEMORANDUM

Planning Division

DATE: November 20, 2023

TO: Environmental Sustainability Committee Members

FROM: Nicholas Dupuis, Planning Director

SUBJECT: Public Engagement Summary – Phase 1

The Ad Hoc Environmental Sustainability Committee (ESC) was created for two main purposes: draft a Sustainability and Climate Action Plan (“SCAP”) and complete a greenhouse gas inventory. The SCAP will provide the City of Birmingham with a vision of what the City should look like in the future and provide a pathway towards resiliency and the reduction of greenhouse gas emissions. A major component of drafting an SCAP is community engagement. A dedicated and comprehensive approach to community engagement provides for a plan that is collaborative, enhances communication and understanding, and fosters a sense of community and accomplishment. The Planning Division provided for several engagement opportunities from various stakeholders and has collected available data for review by the ESC. This engagement and accompanying data is considered a first phase of public engagement, there will be a second phase once the plan begins to take shape. Please see a summary of each engagement session below:

Public Engagement Phase 1

1. Day on the Town – On July 29, 2023, the ESC hosted a table during the City’s annual Day on the Town event, which was intended to introduce people to the ESC and the SCAP, as well as advertise for the community survey. Overall, several persons engaged with staff and ESC members, and the City was able to disperse over 30 cards with a QR code to the survey.
2. Farmers Market – On August 27, 2023, the ESC hosted a table at the Birmingham Farmers Market. Similar to the Day on the Town event, the focus was to get people engaged with the process, and advertise for the community survey. The heavy rainfall events in mid-August seemed to spur a robust engagement throughout the day, and as a result the City was able to inform many persons about the SCAP and the survey.

3. Community Survey #1 – The City of Birmingham hosted a survey on [Engage Birmingham](#) that was designed to get a preliminary look into the feelings of the community as it relates to sustainability and climate action as a whole. In addition, the survey provided space for respondents to elaborate on any additional issues that they might feel is important for the City to consider while drafting the SCAP. At the time that the data was downloaded, the survey received 278 responses. Some major takeaways were that a majority of the respondents (53%) are very concerned about sustainability and climate change issues. The primary concerns of respondents are water quality and the natural environment. Overall, 83% of respondents feel that Birmingham should either be a regional leader in sustainability, or increase community commitment to sustainability.
4. Municipal Round Tables – As a major stakeholder in the SCAP and the goals that will be developed within it, the municipal staff was engaged at a series of round tables to get a more in-depth look into different departments and their operations/concerns. Overall, the turnout was very encouraging, and it became very clear that the municipal staff is on-board and very aware of the challenges ahead, as well as the interconnectedness of various approaches to sustainability and climate action. The conversations were distilled into a series of notes, and municipal staff will continue to be engaged throughout the process.
5. Community Visioning Session – The ESC held a community visioning session on October 30, 2023. The session was split into an introduction, an activity, and a facilitated discussion with the Chief Environmental Sustainability Officer for Oakland County. Members of the community were able to provide feedback on six elements from the City Commissions Strategic Goal #2 which reads:

“The City of Birmingham positions itself for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community.”

After the facilitated discussion, which permitted the community to elaborate on the feedback or clarify the responses, the feedback was transposed into an excel spreadsheet.
6. Public Meetings – As the ESC has navigated the early stages of the SCAP and GHG process, their meetings have been open to members of the public to view and participate in. Up to this point, the ESC has received some input during meetings, and it is anticipated that participation will increase as the SCAP continues to develop.
7. Newsletters & Social Media – Since the ESC was created, the Planning Division has provided regular updates in the City’s [Around-Town E-Newsletters](#), [Birmingham Beat](#) printed newsletters, [social media](#), and Constant Contact email services. In addition, the City has taken advantage of opportunities to speak to other media outlets such as the [Birmingham-Bloomfield Eagle](#).

Public Engagement Phase 2

As the City begins to develop the formal SCAP document, the ESC will continue to engage the public throughout the process. This added engagement is just as important as phase one, and will permit the ESC to ensure that the community will support the more specific goals of the plan,

and that the SCAP aligns with the broader goals of the City. The following engagements are potential opportunities, and may be adjusted/amended as opportunities arise:

- Community Survey #2
- Reports to City Boards/Commissions
- Department of Public Services Open House (Spring)
- Specific Stakeholder Engagement – NEXT, Birmingham Schools, Business Community
- Public Meetings
- City Website & Newsletters

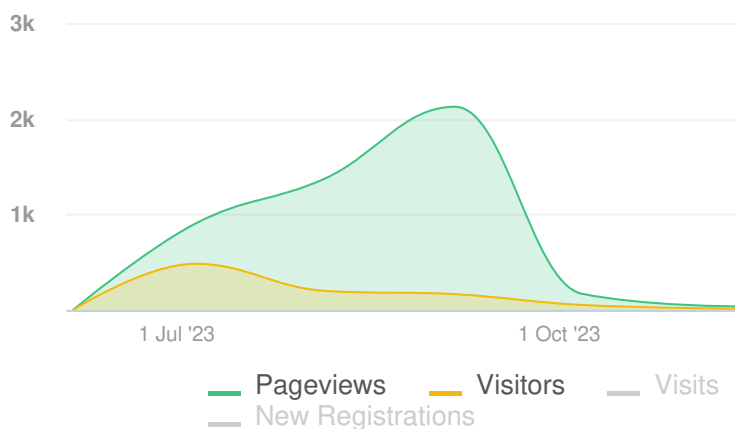
29 April 2021 - 07 November 2023

Engage Birmingham

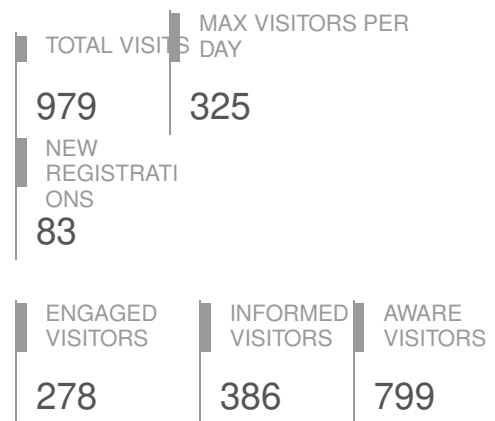
Environmental Sustainability Committee



Visitors Summary

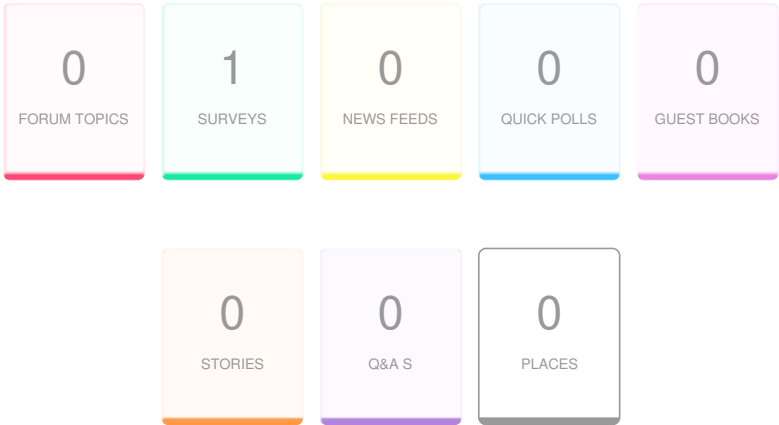


Highlights



Aware Participants	799	Engaged Participants	278		
Aware Actions Performed	Participants	Engaged Actions Performed	Registered	Unverified	Anonymous
Visited a Project or Tool Page	799				
Informed Participants	386	Contributed on Forums	0	0	0
Informed Actions Performed	Participants	Participated in Surveys	278	0	0
Viewed a video	0	Contributed to Newsfeeds	0	0	0
Viewed a photo	0	Participated in Quick Polls	0	0	0
Downloaded a document	0	Posted on Guestbooks	0	0	0
Visited the Key Dates page	0	Contributed to Stories	0	0	0
Visited an FAQ list Page	0	Asked Questions	0	0	0
Visited Instagram Page	0	Placed Pins on Places	0	0	0
Visited Multiple Project Pages	126	Contributed to Ideas	0	0	0
Contributed to a tool (engaged)	278				

ENGAGEMENT TOOLS SUMMARY



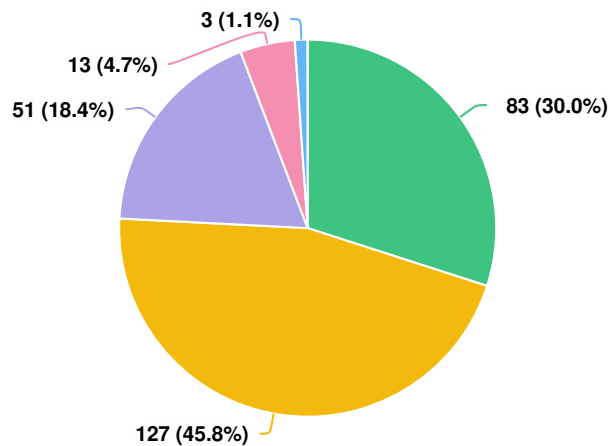
Tool Type	Engagement Tool Name	Tool Status	Visitors	Contributors		
				Registered	Unverified	Anonymous
Survey Tool	Sustainability and Climate Action Plan	Published	744	278	0	0

ENGAGEMENT TOOL: SURVEY TOOL

Sustainability and Climate Action Plan

Visitors	744	Contributors	278	CONTRIBUTIONS	278
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How would you describe your awareness of sustainability and climate action, particularly at the local or community level?



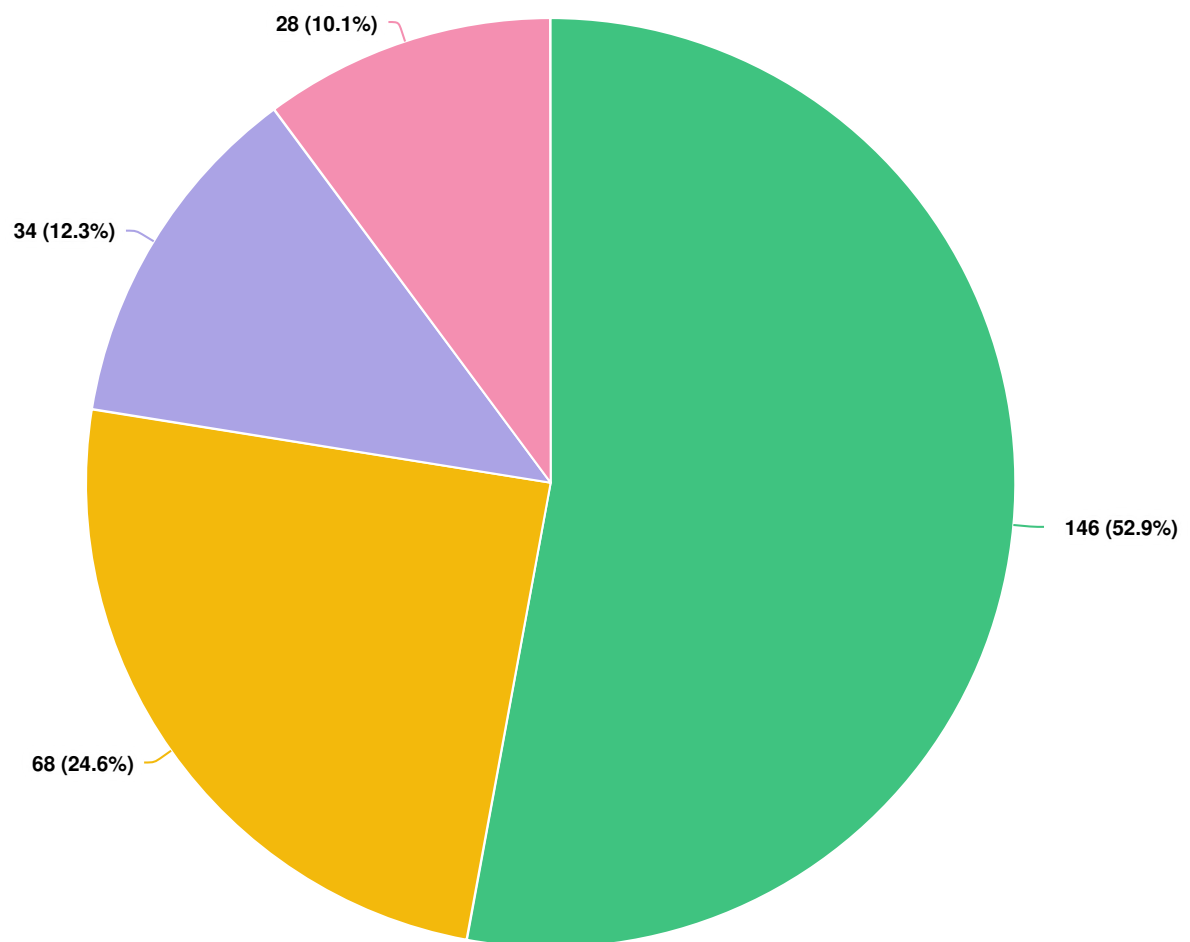
Question options

Very aware Somewhat aware Not very aware Not at all aware Unsure

Optional question (277 response(s), 1 skipped)

Question type: Radio Button Question

How would you describe your overall level of concern about addressing sustainability and climate action issues?



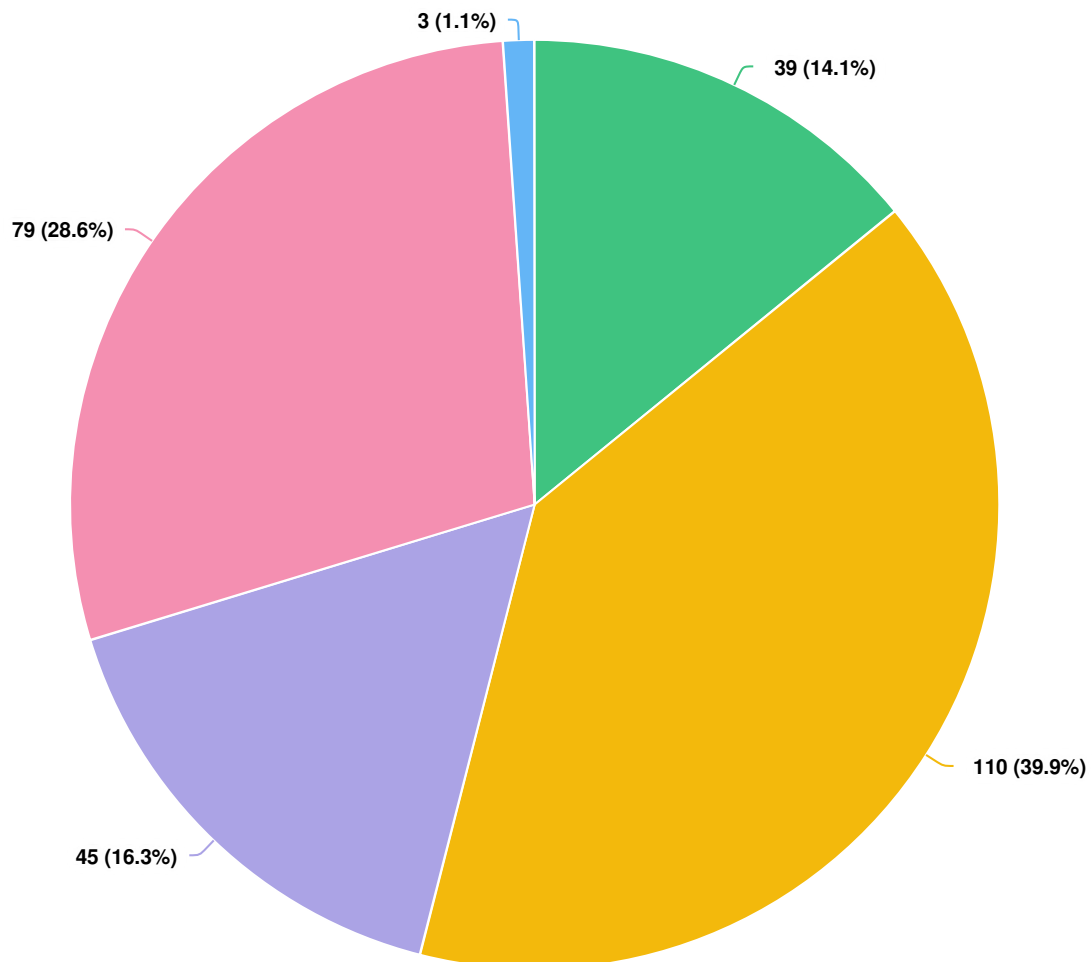
Question options

☒ Very concerned ☐ Somewhat concerned ☐ Not very concerned ☐ Not at all concerned

Optional question (276 response(s), 2 skipped)

Question type: Radio Button Question

Do you feel Birmingham is engaging in sustainable practices today?



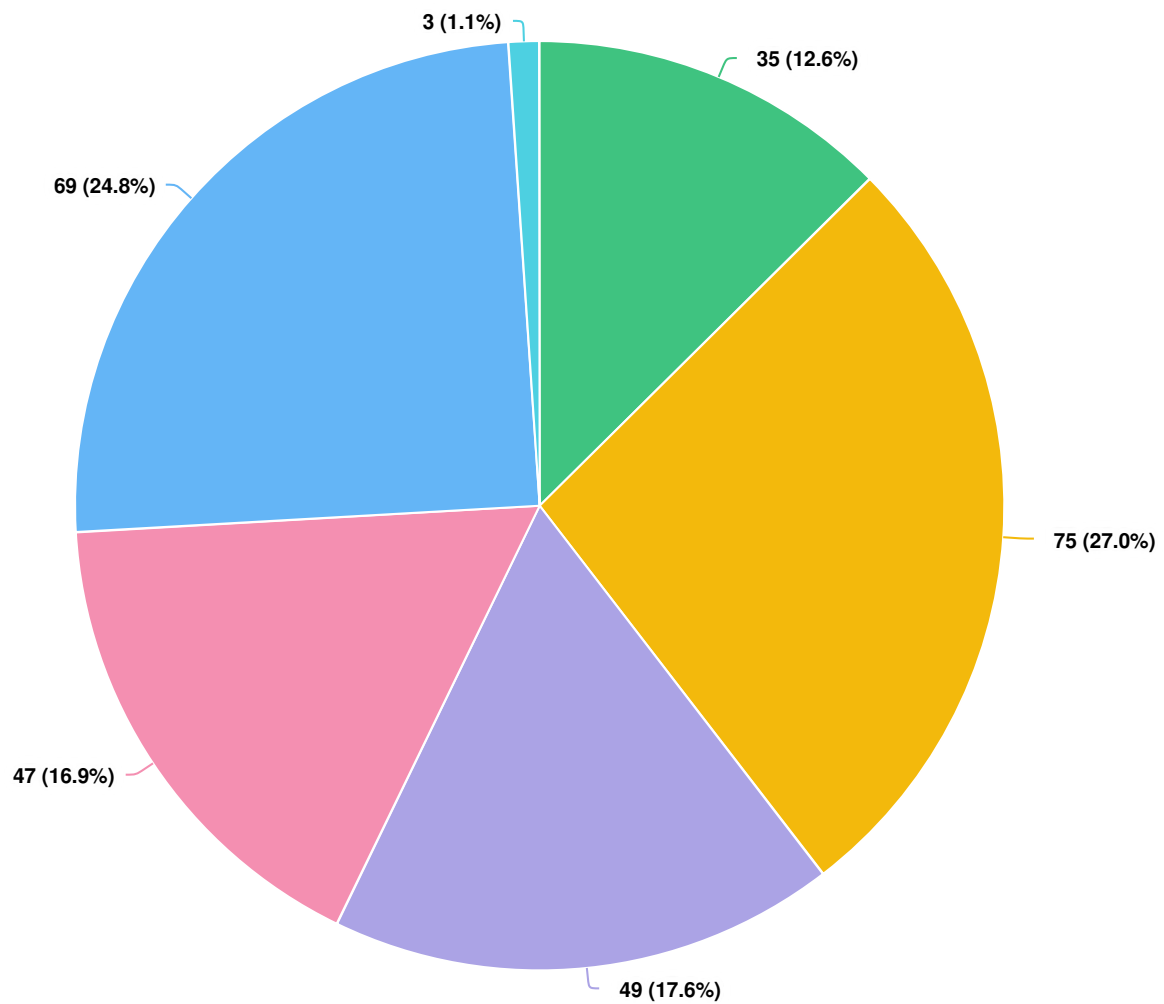
Question options

Yes Somewhat No Unsure Other

Optional question (276 response(s), 2 skipped)

Question type: Radio Button Question

The City Commission of Birmingham has adopted a set of Strategic Goals that includes positioning Birmingham for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the c...



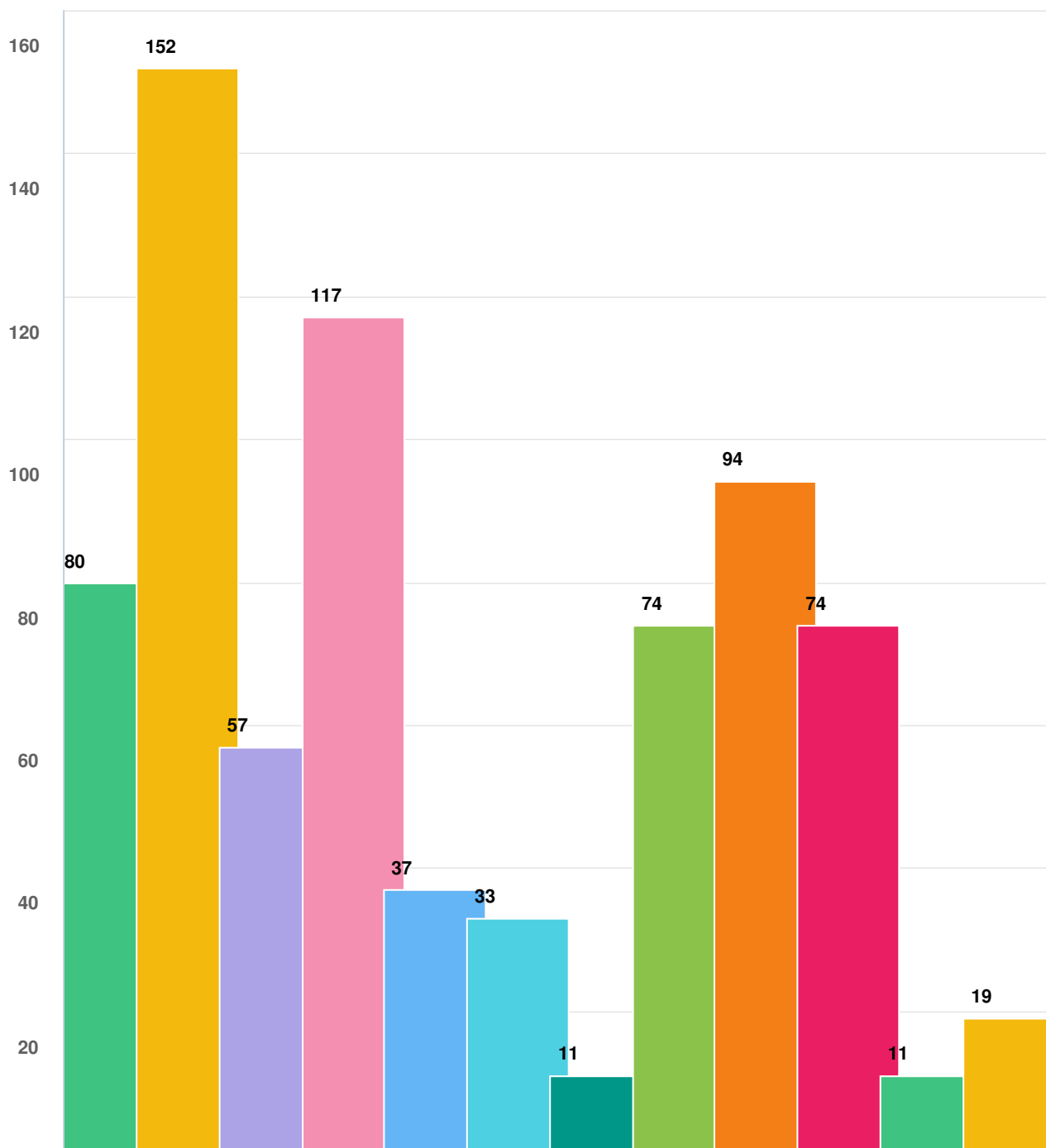
Question options

Very aware Somewhat aware Neither aware or unaware Somewhat unaware Very unaware
Unsure

Optional question (278 response(s), 0 skipped)

Question type: Radio Button Question

Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3)



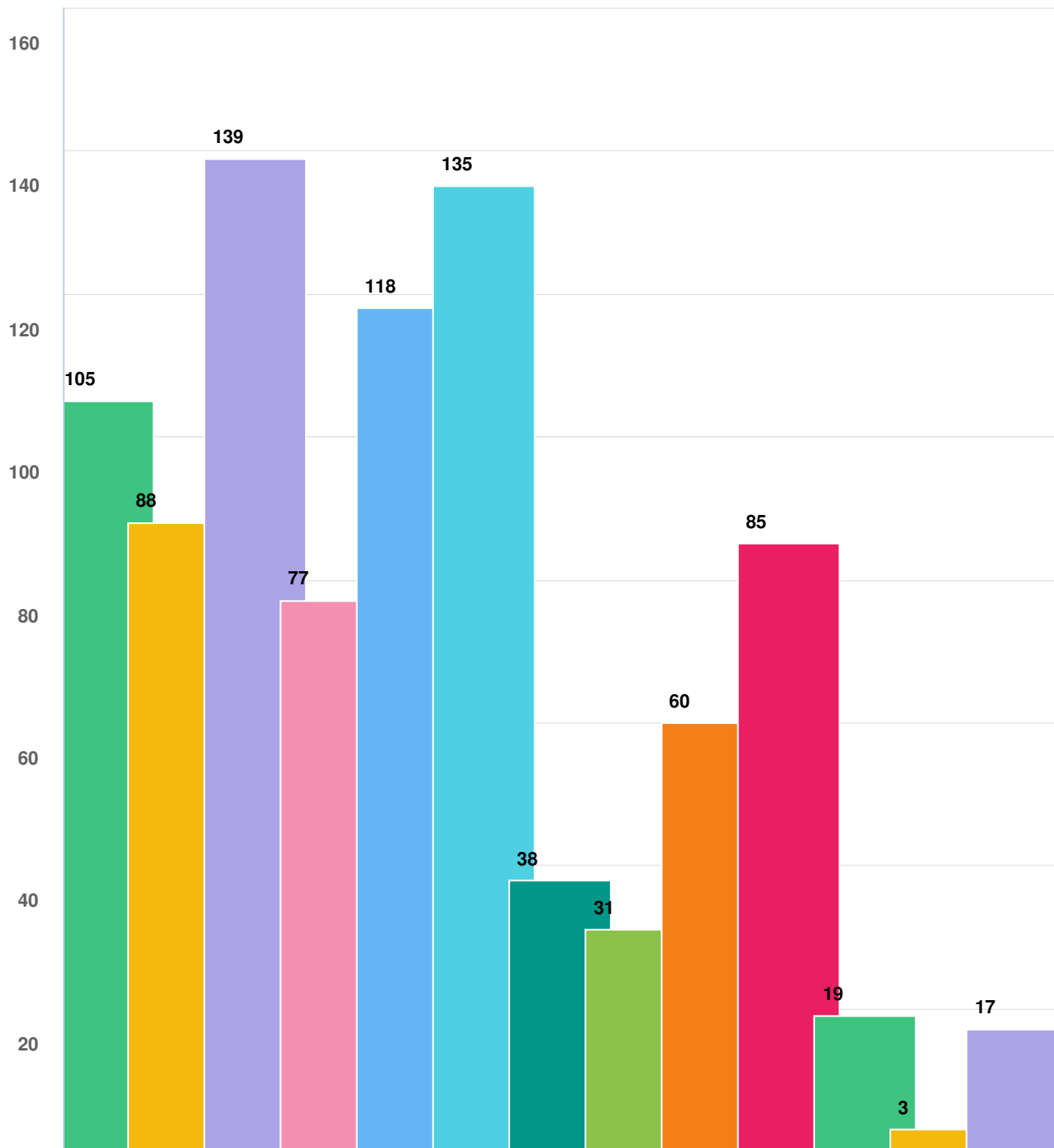
Question options

- Energy
 ● Water Quality
 ● Solid Waste
 ● Natural Environment
 ● Transportation
 ● Buildings
- Food Access
 ● Quality of Life
 ● Air Quality
 ● Extreme Weather
 ● Environmental Justice
- Other (please specify)

Optional question (275 response(s), 3 skipped)

Question type: Checkbox Question

What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply)



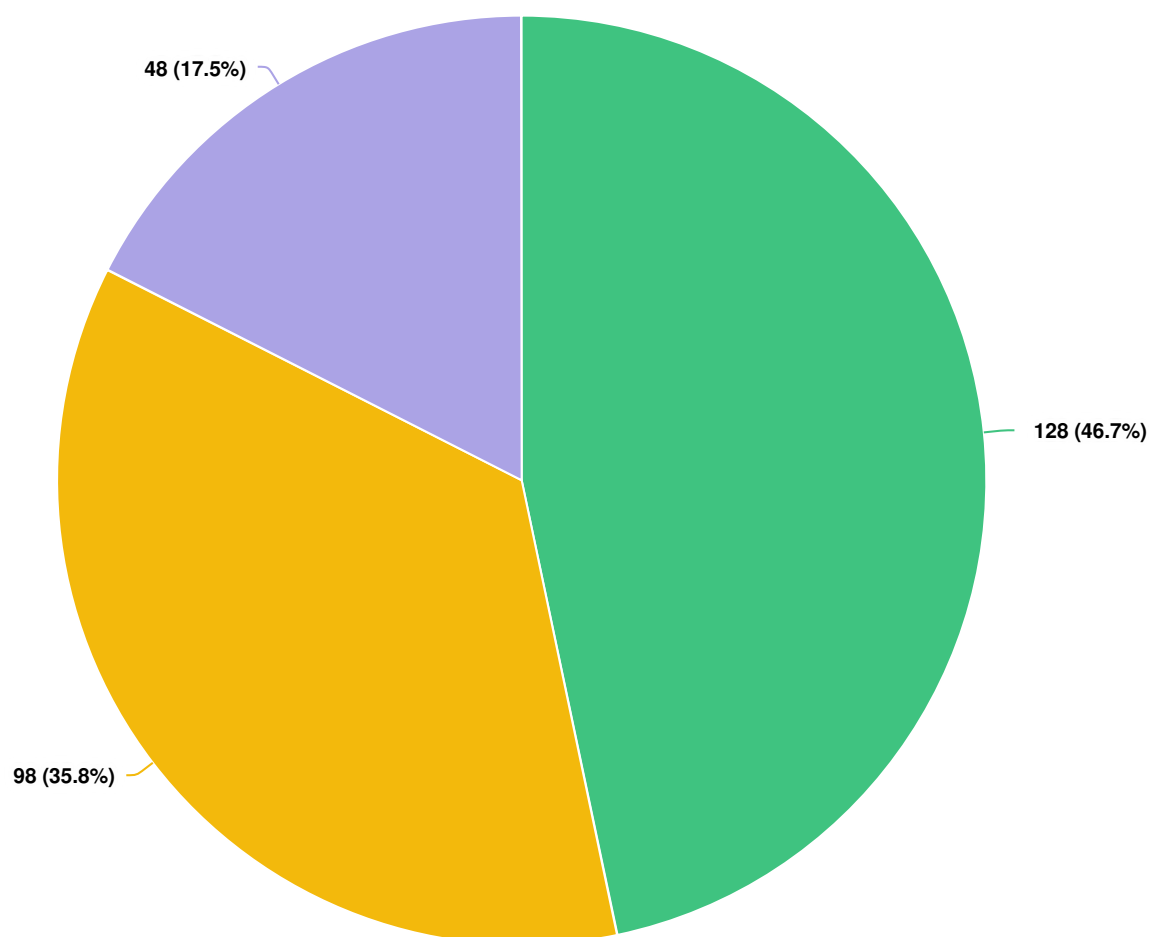
Question options

- Green infrastructure
 ● Composting
 ● Recycling
 ● Green buildings
 ● Renewable energy
- Environmental preservation
 ● Multimodality
 ● Equity
 ● Community health
 ● All of the above
- None of the above
 ● Unsure
 ● Other (please specify)

Optional question (275 response(s), 3 skipped)

Question type: Checkbox Question

At what level should Birmingham be in terms of sustainable community practices?



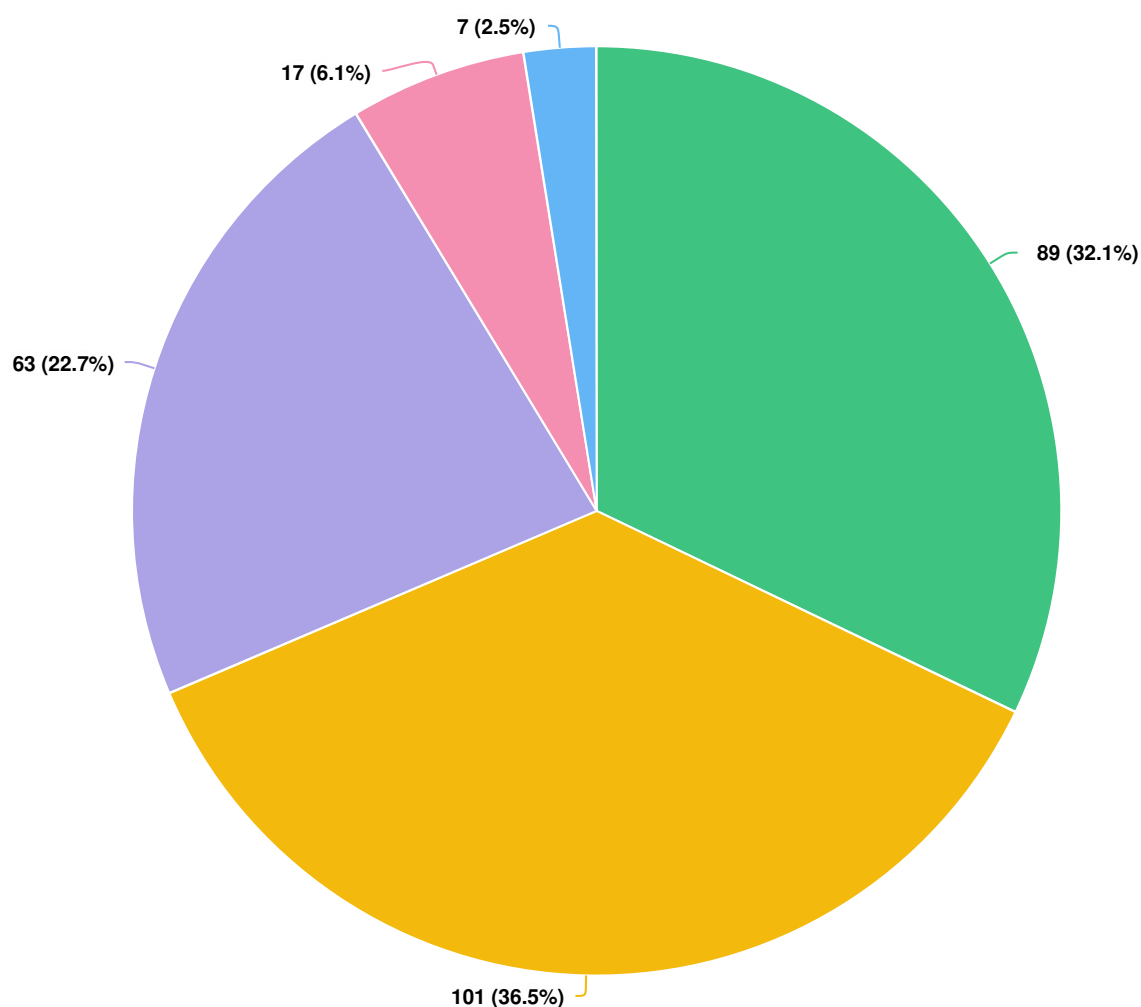
Question options

- It should become a regional leader in sustainability
- It should increase community commitment to sustainability
- It should not be concerned with sustainability

Optional question (274 response(s), 4 skipped)

Question type: Radio Button Question

The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal?



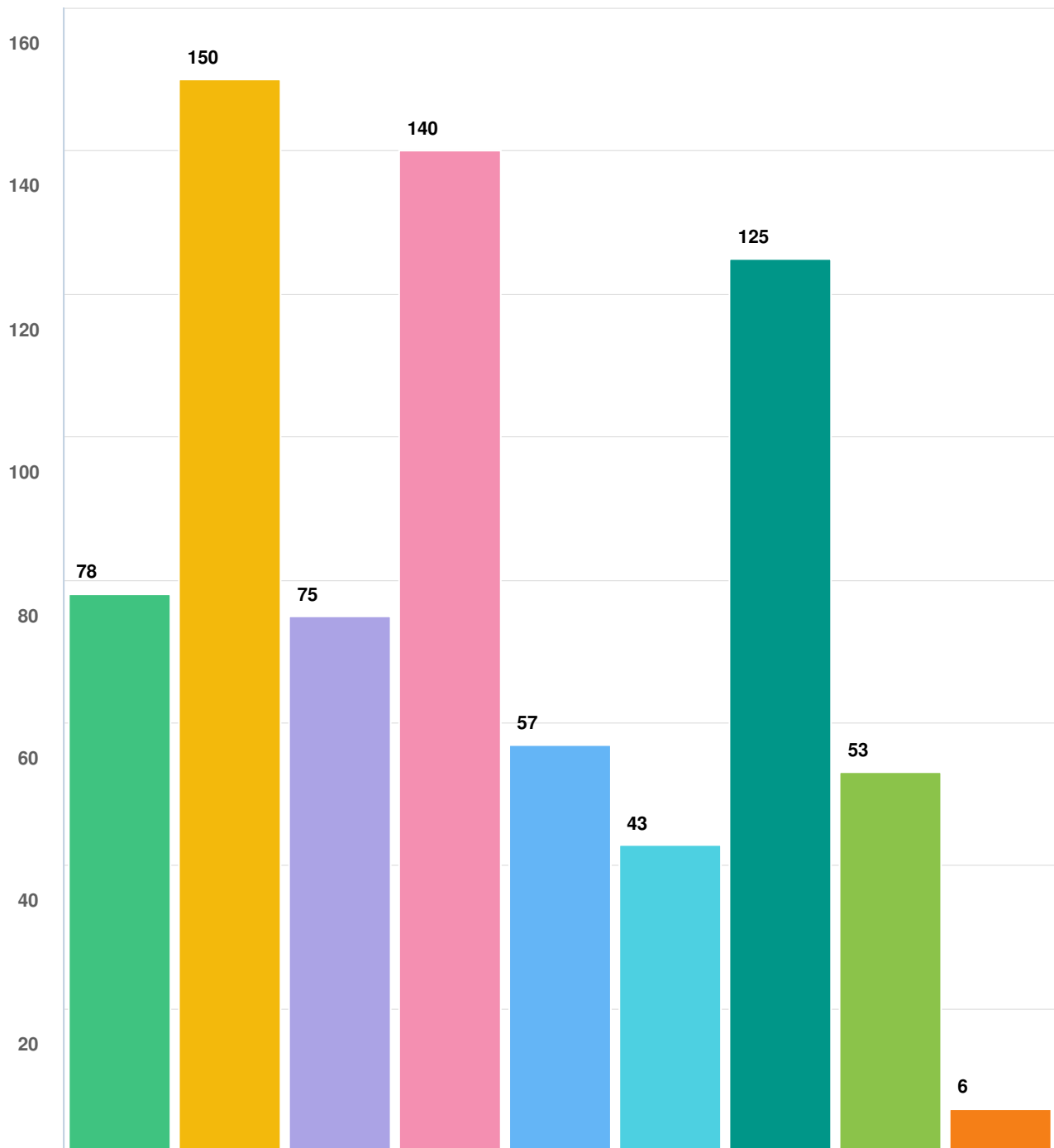
Question options

- ☐ Yes, Birmingham should align with the state's goal ☐ Yes, Birmingham should meet and exceed that state's goal
☐ No, Birmingham does not need a carbon neutrality goal ☐ Unsure ☐ Other (please specify)

Optional question (277 response(s), 1 skipped)

Question type: Radio Button Question

How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply)



Question options

- Social Media
 ● Around Town E-Newsletter
 ● Birmingham Beat Newsletter
 ● Email Contact
- Social Media (Facebook, Twitter, Instagram, etc.)
 ● Nextdoor
 ● City Website
 ● Public Meetings
- Other (please specify)

Optional question (274 response(s), 4 skipped)

Question type: Checkbox Question

[illegible]

Response ID	How would you describe your overall level of concern about addressing sustainability and climate action issues?	Do you feel Birmingham is engaging in sustainable practices today?	The City Commission of Birmingham has adopted a set of Strategic Goals that includes positioning Birmingham for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community. Were you aware of this strategic goal?	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3)	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3) (Other please specify?)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply) (Other please specify?)	At what level should Birmingham be in terms of sustainable community practices?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal? (Other please specify?)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other please specify?)	What else would you like to add to the conversation regarding sustainability and climate action?	What best describes you? (Check all that apply)	This is a map of Birmingham's election precincts. Please select your precinct for the question below.	Which section of Birmingham do you live in?	In which decade were you born?
128501	Not very concerned	Yes	Very aware	Water Quality		Commodore		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter		I did not know that there is a Birmingham Climate emergency. This implies some immediate danger such as poisoned water, noxious gas leaks, etc. The children's stories of the Boy who Cried Wolf and Chicken Little came to mind. I fear that many of the sensible actions, like composting, are getting swept up/burdled up under the rubric of global warming which should not be a concern of Birmingham. Best leave that to those who can directly influence the development world beyond our borders.	I live in Birmingham.	2	1951-1960	
128513	Very concerned	No	Very aware	Energy, Water Quality, Air Quality		Commodore		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Best Newsletter, City Website			I live in Birmingham.	4	1941-1950	
128515	Not very concerned	No	Somewhat aware	Water Quality, Natural Environment		Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, City Website		Appropriate care for existing trees. Fertilizer and disease prevention and treatment.	I live in Birmingham.	6	1951-1960	
128516	Very concerned	Unsure	Neither aware on unaware	Energy, Air Quality, Extreme Weather		Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		(The dollars should certainly be there).	I live in Birmingham.	6	1951-1960	
128518	Very concerned	No	Somewhat unaware	Energy, Quality of Life, Extreme Weather		Green infrastructure, Renewable energy, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Email Contact, Newsletter, City Website		I would like to see further improvement of the tree canopy to prevent Birmingham becoming a heat island. I also want to see more action taken to improve/increase permeable spaces, pavement, and residential footprints to reduce the likelihood of flooding and sewer backups during heavy rainfall events.	I live in Birmingham.	3	1981-1990	
128519	Somewhat concerned	Somewhat	Somewhat aware	Energy, Water Quality, Extreme Weather		Green infrastructure, Renewable energy, Equity		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact, City Website		After now others people to have good stuff for the curb with a "THAT" sign on it. In Birmingham we get a lot for that. Plus, bulk pickup should go back to once a year or better yet, make it always costly. The city should encourage people to donate good stuff vs throwing away.	I live in Birmingham.	2	1961-1970	
128521	Very concerned	Unsure	Very unaware	Energy, Natural Environment, Extreme Weather		Composting, Recycling, Renewable energy, Environmental preservation		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Best Newsletter, City Website		As an example... you drive around and see, let's say a nice metal BBQ at the curb for the trash truck. That's gonna be huge in the landfill and take forever to break down. Instead, don't allow bulk pickup. Public in newsletters the place people can offer for free AND to please that pick up metal for scrap. As someone who cares about this, I have had great success with placing old bulk stuff into the hands of people who want it.	I live in Birmingham.	5	1951-1960	
128522	Not very concerned	Unsure	Very unaware	Solid Waste, Natural Environment, Quality of Life		Environmental preservation		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Birmingham Best Newsletter, Newsletter, City Website, Public Meetings		I'm not concerned with climate action or sustainability. We can't make rain happen, or control smoke or control waste. I do what I'm able and let others concern themselves with what we can't control.	I live in Birmingham.	6	1941-1950	
128526	Not at all concerned	Yes	Very aware	Energy, Transportation		None of the above		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Newsletter, City Website, Public Meetings			I live in Birmingham.	2	1931-1940	
128529	Very concerned	No	Somewhat aware	Solid Waste, Natural Environment, Extreme Weather		Green infrastructure, Composting, Recycling, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), Newsletter, City Website, Public Meetings		The city URGENTLY needs to address saving our magnificent and historic trees. They clean our air and are vital elements the ecosystem. Yet builders who save old houses take them all down, and private owners can chop them down. MANY cities have strong tree ordinances to protect our historic trees, which BELONG TO US ALL..... not to the person who owns the land. Many of our magnificent/old trees should be designated as "historic" and protected from being cut down.	I live in Birmingham.	4	1951-1960	
128531	Very concerned	No	Somewhat aware	Solid Waste, Quality of Life, Extreme Weather		Composting, Recycling, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter		AND - trash/landfills. It is way too easy for "my time is valuable" Birmingham people to throw away everything and anything without trying to repurpose, re-use or recycle. And After now others people to have good stuff for the curb with a "THAT" sign on it. In Birmingham we get a lot for that. Plus, bulk pickup should go back to once a year or better yet, make it always costly. The city should encourage people to donate good stuff vs throwing away.	I live in Birmingham.	8	1951-1960	
128536	Somewhat concerned	Yes	Somewhat aware	Energy, Solid Waste, Air Quality		Green infrastructure, Environmental preservation, Multimodality		It should increase community commitment to sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter, Birmingham Best Newsletter		As an example... you drive around and see, let's say a nice metal BBQ at the curb for the trash truck. That's gonna be huge in the landfill and take forever to break down. Instead, don't allow bulk pickup. Public in newsletters the place people can offer for free AND to please that pick up metal for scrap. As someone who cares about this, I have had great success with placing old bulk stuff into the hands of people who want it.	I live in Birmingham.	8	1981-1990	
128537	Not at all concerned	Yes	Somewhat unaware	Water Quality, Buildings		Commodore		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Email Contact		Instead, don't allow bulk pickup. Public in newsletters the place people can offer for free AND to please that pick up metal for scrap. As someone who cares about this, I have had great success with placing old bulk stuff into the hands of people who want it.	I live in Birmingham.	4	1971-1980	
128539	Not very concerned	Somewhat	Neither aware on unaware	Water Quality, Natural Environment, Quality of Life		Environmental preservation		It should increase community commitment to sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter		Low the environment. Don't spend any more money trying to change the weather.	I live in Birmingham.	8	1941-1950	
128545	Somewhat concerned	Somewhat	Somewhat unaware	Water Quality, Buildings, Air Quality		Recycling, Environmental preservation, Multimodality		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter		There is too much construction. Home preservation should be key. Allowing huge footprints on small lots is a major issue in Shom.	I live in Birmingham.	4	1971-1980	
128546	Very concerned	Somewhat	Neither aware on unaware			Recycling, Environmental preservation, Multimodality		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Newsletter, City Website, Public Meetings			I live in Birmingham.	3	1961-1970	
128552	Somewhat concerned	Somewhat	Somewhat unaware	Energy, Solid Waste, Natural Environment		Green infrastructure, Recycling, Environmental preservation		It should increase community commitment to sustainability	Unsure		Around Town E-Newsletter, City Website		Less pesticides, more efficient recycling, incentive for solar powered homes, gas powered lawn equipment restrictions. (So many neighbors use lawn services with fossil fuel large mowers on lawn equipment that is pretty unnecessary based on our relatively small lot sizes)	I live in Birmingham.	2	1961-1970	
128556		Yes	Very unaware	Quality of Life		Commodore, Recycle		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal				I strongly favor self-regulation and a hands off approach to sustainability and climate action. Residents and consumers should decide on the best and highest uses of resources - especially at the household level - rather than being subjected to an aggressive expansion in city policy. We are not naive. call off the fake emergency.	I live in Birmingham., I work in Birmingham., I am a frequent visitor to Birmingham.	1		
128557	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Green buildings, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Newsletter, City Website, Public Meetings		Would like to educate residents that your property is part of the local ecosystem, so whatever you do on it impacts the entire ecosystem. Encourage folks to reduce their lawn, stop spraying chemicals and plant natives. This will help our declining bird, insect and pollinator populations, preserve water use, and preserve air and water quality by limiting amount of fertilizers and chemicals that end up in our waterways. One way to achieve this would be for our local government buildings, fire stations, library, etc could set an example by installing pollinator and bird friendly gardens, replacing water and chemical thirsty lawns with sustainable ground covers, and planting native trees. These gardens could include pretty signage, host native plant sales, offer assistance to anyone willing to do their part for their community.	I live in Birmingham.	1	1961-1970	
128561	Not very concerned		Very aware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Environmental preservation, Community health	Water quality Mitigation of pollutants in ground and introduced to the environment	It should increase community commitment to sustainability	reassess as we approach each 10 year increment		Social Media, Around Town E-Newsletter		We need to educate residents on what sustainability can mean or else this will be a hot button/divisive issue. For example, preserving natural environments, introducing more native plants to City landscaping, utilizing existing infrastructure to enhance green spaces, and improving City infrastructure to be more storm-resistant are all sustainability and non-threatening but people don't know these are sustainable practices. Let's make sure to educate our fellow residents on what it can mean!	I live in Birmingham.	8	1991-2000	
128563		No	Very unaware	Energy, Transportation	Densify/Car-free or car-lite living	Green infrastructure, Renewable energy, Multimodality	increasing density and walkability	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter			I live in Birmingham.	3	After 2000	
128569	Very concerned	Unsure	Neither aware on unaware	Solid Waste, Natural Environment, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation	All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, City Website		So did we are addressing this urgent issue	I live in Birmingham.	1		
128573	Very concerned	Unsure	Neither aware on unaware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Green buildings, Renewable energy, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Best Newsletter			I live in Birmingham.	3	1981-1990	
128578	Very concerned	No	Very unaware	Solid Waste, Buildings		Composting, Green buildings, Renewable energy, Community health		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		Reuse solid materials from the structures that are being torn down.	I live in Birmingham.	6	1981-1990	
128581	Somewhat concerned	Unsure	Very unaware	Water Quality, Natural Environment, Quality of Life		Commodore, Recycle, Environmental preservation		It should increase community commitment to sustainability	No. Birmingham does not need a carbon neutrality goal		Email Contact			I live in Birmingham., I work in Birmingham.	8	1961-1970	
128582	Very concerned	Unsure	Very unaware	Transportation, Air Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Community health		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Birmingham Best Newsletter		Gas leaf blowers should be banned.	I live in Birmingham., I am a frequent visitor to Birmingham.	3	1961-1970	
128597	Very concerned	Unsure	Very unaware	Water Quality, Air Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, City Website			I live in Birmingham.	7	1981-1990	
128605	Somewhat concerned	Somewhat	Somewhat aware	Energy, Water Quality, Quality of Life		Recycling, Renewable energy, Environmental preservation		It should increase community commitment to sustainability		Don't feel the need to be on the cutting edge. I believe we should watch and learn.	Social Media, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Newsletter, City Website, Public Meetings			I live in Birmingham.	8	1961-1970	
128607	Not at all concerned	Unsure	Neither aware on unaware	Water Quality, Solid Waste		Commodore, Recycle		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter		Do not allow the city to be bamboozled into the fraud out of climate change. The climate changes, it always has for millions of years even before humans existed. Should we be concerned about clean water and air quality yes, however there is zero chance to stop the climate from changing as it always has, and throwing millions of city tax dollars at it will have zero impact.	I live in Birmingham.	5	1971-1980	
128614	Not at all concerned	Yes	Somewhat aware	Water Quality, Natural Environment, Buildings		Environmental preservation		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter, Email Contact		There is simply no justification to declare a "climate emergency," however that is defined. Alarmist nonsense.	I live in Birmingham., I work in Birmingham., I am a frequent visitor to Birmingham., I own a business in Birmingham.	2	1961-1970	
128621	Somewhat concerned	Unsure	Somewhat unaware	Quality of Life		Recycle		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Social Media, Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.)		You should probably care more about making sure people come to downtown Birmingham and have an enjoyable shopping/dining/entertainment experience.	I am a frequent visitor to Birmingham.	N/A	1961-1970	
128624	Not very concerned	Yes	Neither aware on unaware	Water Quality		None of the above		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Social Media, Around Town E-Newsletter		Whatever actions are taken by the Birmingham community but they will have zero impact on local state and national weather patterns. I don't believe in false signaling, and I believe that's what's happening here. I love the fact of having clean water, parks and recreation, but getting carbon neutral when there is building to coal fired power plants per week alone with India, doing the same thing we will have zero impact on the weather.	I live in Birmingham.	5	1951-1960	
128626	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Composting, Recycling, Environmental preservation, Equity		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Social Media, Around Town E-Newsletter		I live by the Rouge River and my lower level flooded as a result of the extreme weather event in June 2021. I would like to see better flood protection for homes that neighbor the river.	I live in Birmingham.	5	1971-1980	
128627	Very concerned	Somewhat	Very aware	Natural Environment, Quality of Life, Environmental Justice		Green infrastructure, Recycling, Renewable energy, Environmental preservation, Community health		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Newsletter, City Website, Public Meetings		Loss of trees and green space is a huge component of this. Unsustainable residential development is also a huge component of this.	I live in Birmingham.	2	1941-1950	
128632	Somewhat concerned	Somewhat	Very unaware	Energy, Natural Environment, Air Quality		Green infrastructure, Green buildings, Environmental preservation		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Social Media, Email Contact, Newsletter			I live in Birmingham.	2	1991-2000	
128638	Very concerned	No	Neither aware on unaware	Energy, Water Quality, Solid Waste		Composting, Recycling, Renewable energy, Environmental preservation, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Best Newsletter		Blum might want to start with the basic about educating residents about waste and its impact. I don't see any articles on how to reduce waste and effectively utilize recycling.	I live in Birmingham.	6	1951-1960	
128648	Very concerned	Somewhat	Somewhat aware	Natural Environment, Air Quality, Extreme Weather		Green infrastructure, Renewable energy, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.)		I work in Birmingham., I am a frequent visitor to Birmingham.	N/A	1971-1980		
128651	Somewhat concerned	Unsure	Neither aware on unaware	Water Quality, Natural Environment, Air Quality		Commodore, Recycle, Environmental preservation		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter			I live in Birmingham., I work in Birmingham., I own a business in Birmingham.	1	1971-1980	
128671	Not very concerned	Unsure	Neither aware on unaware	Water Quality, Quality of Life	Noise control	Recycle, Community health		It should not be concerned with sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter		There's a memo in question 7.	I live in Birmingham.	4	1951-1960	
128676	Somewhat concerned	Unsure	Very unaware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Recycling, Renewable energy, Environmental preservation, Community health		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Social Media (Facebook, Twitter, Instagram, etc.), City Website, Public Meetings			I live in Birmingham.	5	1951-1960	
128727	Very concerned	Somewhat	Somewhat aware	Natural Environment, Quality of Life, Extreme Weather		Green infrastructure, Recycling, Renewable energy, Environmental preservation, Multimodality		It should become a regional leader in sustainability	Unsure		Email Contact			I live in Birmingham.	7	1961-1970	
128749	Very concerned	Unsure	Very unaware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Renewable energy, Environmental preservation, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, City Website, Public Meetings			I live in Birmingham.	1	1981-1990	
128757	Very concerned	Somewhat	Very aware	Energy, Quality of Life, Extreme Weather		Green infrastructure, Composting, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Birmingham Best Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website, Public Meetings			I work in Birmingham.	N/A	1981-1990	
128771	Very concerned	No	Somewhat unaware	Water Quality, Natural Environment, Quality of Life		Green infrastructure, Composting, Recycling, Environmental preservation		It should become a regional leader in sustainability	No. Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter, Email Contact		Less lawn, more native plants. Restoring habitat, promoting ecological biodiversity, with drought tolerant plants should be at the top of your agenda. Homegrown National Park is a great resource. Check it out!	I live in Birmingham.	5	1961-1970	
128780	Very concerned	No	Somewhat unaware	Water Quality, Natural Environment, Air Quality		All of the above		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		Last year, I inquired with the city about replacing my front lawn with river rock and perennial landscaping. I no longer want to waste water on keeping my lawn green while also adding fertilizer and chemicals to our waterways. I submitted an environmentally friendly plan and was willing to spend thousands to demonstrate this can be a viable and attractive alternative to the norm. I was told "sorry" but gravel, stone, rocks and even mulch are considered non-permeable and could not be approved. I was shocked and disappointed. Sorry Birmingham but rocks and gravel are not a water barrier and are used as a permeable base for french drains and anywhere else water drainage and soil retention is needed, it's also interesting this survey uses a photo showing river rock being utilized for what appears to be drainage? My impression of this experience is Birmingham likes to talk the talk, but not walk the walk. I read that some cities in our nation are actually paying residents to remove their lawns. Water is the new oil and it's Michigan's most precious resource. I can't be part of the solution when my city is part of the problem.	I live in Birmingham.	7	1951-1960	
128809	Very concerned	Somewhat	Neither aware on unaware	Water Quality, Solid Waste		Commodore, Recycle, Renewable energy	Hydropower at Quatern Lake. Otherwise get rid of the dam like everyone else is doing around the country to restore migration fish.	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Email Contact, City Website			I live in Birmingham.	5	1941-1950	
128811	Very concerned	Yes	Very aware	Transportation	Noise control												

Response ID	How would you describe your overall level of concern about addressing sustainability and climate action issues?	Do you feel Birmingham is engaging in sustainable practices today?	The City Commission of Birmingham has adopted a set of Strategic Goals that include positioning Birmingham for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community. Were you aware of this strategy last?	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3)	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3) (Other please specify?)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply) (Other please specify?)	At what level should Birmingham be in terms of sustainable community practices?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal? (Other please specify?)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other please specify?)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other please specify?)	What else would you like to add to the conversation regarding sustainability and climate action?	This is a map of Birmingham's election precincts. Please select your precinct for the question below.	Which section of Birmingham do you live in?	In which decade were you born?
128583	Very concerned	Unsure	Somewhat unaware	Natural Environment, Quality of Life, Air Quality		Green infrastructure, Recycling, Renewable energy, Environmental preservation, Community health		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Beat Newsletter, Email Contact, City Website, Public Meetings		I live in Birmingham... I am a frequent visitor to Birmingham.		9	1961-1970
128592	Very concerned	Somewhat	Somewhat aware	Energy, Quality of Life, Extreme Weather		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Birmingham Beat Newsletter, Neighborhood, City Website		I live in Birmingham.		5	1941-1950
128594	Very concerned	Somewhat	Somewhat unaware	Energy, Transportation, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Equity, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Around Town E-Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.)		I live in Birmingham.		2	1961-1970
128598	Very concerned	Somewhat	Very unaware	Water Quality, Solid Waste, Natural Environment		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity		It should become a regional leader in sustainability	Unsure		Around Town E-Newsletter, Neighborhood, City Website		I live in Birmingham.		4	1951-1960
128595	Somewhat concerned	Unsure	Neither aware on unaware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation, Community health, Multimodality		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Email Contact		I live in Birmingham.		1	1981-1990
128578	Not very concerned	Somewhat	Somewhat					It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal				I live in Birmingham.		4	1981-1990
128596	Very concerned	No	Very aware	Energy, Water Quality, Solid Waste		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Email Contact, City Website, Public Meetings		I live in Birmingham.		7	1961-1970
128602	Very concerned	Unsure	Somewhat aware	Water Quality, Solid Waste, Natural Environment		Composting, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter		I live in Birmingham.		5	1981-1990
128606	Very concerned	Unsure	Somewhat unaware	Water Quality, Natural Environment, Quality of Life, Buildings, Quality of Life, Extreme Weather		Green infrastructure, Recycling, Renewable energy, Environmental preservation, Community health, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Email Contact, Neighborhood, City Website, Email Contact		I live in Birmingham.		9	1961-1970
128605	Somewhat concerned	Somewhat	Somewhat unaware	Food Access, Quality of Life, Air Quality		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above	Non-vehicle lanes for bikes and other types of transportation.	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter		I live in Birmingham.		2	1951-1960
128609	Not very concerned	Somewhat	Somewhat aware	Energy, Water Quality, Natural Environment		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Email Contact, City Website, Public Meetings		I live in Birmingham.		2	1961-1970
128607	Somewhat concerned	Unsure	Somewhat unaware	Water Quality, Natural Environment		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Email Contact, Neighborhood		I live in Birmingham.		1	1951-1960
128620	Very concerned	Somewhat	Very aware	Energy, Solid Waste, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), City Website		I live in Birmingham.		9	1961-1970
128613	Very concerned	Somewhat	Very unaware	Water Quality, Solid Waste, Natural Environment		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), City Website		I live in Birmingham.		4	1951-1960
128617	Very concerned	Yes	Somewhat unaware	Water Quality, Air Quality, Extreme Weather		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		I live in Birmingham.		3	1981-1990
128630	Somewhat concerned	Yes	Somewhat unaware	Water Quality, Food Access, Quality of Life		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal		Birmingham Beat Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), Neighborhood		I live in Birmingham.		1	1971-1980
128647	Very concerned	No	Very unaware	Energy, Water Quality, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Email Contact		I live in Birmingham.		7	1981-1990
128624	Very concerned	Unsure	Neither aware on unaware	Energy, Solid Waste, Natural Environment		Composting, Recycling, Renewable energy, Environmental preservation		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact, Neighborhood, City Website		I live in Birmingham.		1	1961-1970
128675	Very concerned	No	Somewhat unaware	Water Quality, Quality of Life, Air Quality		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, City Website		I live in Birmingham.		6	1981-1990
128640	Very concerned	Unsure	Very unaware	Solid Waste, Natural Environment, Environmental Justice		Composting, Recycling, Renewable energy, Environmental preservation		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Social Media Facebook, Twitter, Instagram, etc.), Neighborhood, City Website		I live in Birmingham.		1	1951-1960
128670	Very concerned	Somewhat	Somewhat aware	Solid Waste, Natural Environment, Quality of Life		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Birmingham Beat Newsletter, City Website		I live in Birmingham.		9	1971-1980
128701	Somewhat concerned	Somewhat	Neither aware on unaware	Solid Waste, Transportation, Quality of Life		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Social Media, Neighborhood, City Website	Community newspapers.	I am a frequent visitor to Birmingham.		1	1961-1970
128734	Very concerned	Yes	Somewhat aware	Water Quality, Food Access, Quality of Life	Not concerned	None of the above		It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		Birmingham Beat Newsletter, Email Contact, Public Meetings		I live in Birmingham.		7	1951-1960
128743	Not at all concerned	Unsure	Somewhat unaware			None of the above		It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		Email Contact, City Website, Public Meetings		I live in Birmingham.		5	1971-1980
128735	Very concerned	Yes	Unsure	Natural Environment, Buildings, Quality of Life		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, Birmingham Beat Newsletter, City Website, Public Meetings		I live in Birmingham.		6	1961-1970
128738	Somewhat concerned	Somewhat	Somewhat unaware	Energy, Water Quality, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Social Media, Around Town E-Newsletter		I live in Birmingham.		6	1961-1970
128735	Not very concerned	Yes	Very aware	Energy, Natural Environment	None	Renewable energy, Multimodality		It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		Around Town E-Newsletter, City Website, Public Meetings		I live in Birmingham.		8	1941-1950
128740	Not at all concerned	Yes	Somewhat unaware			None of the above		It should become a regional leader in sustainability	No, Birmingham does not need a carbon neutrality goal		Email Contact		I live in Birmingham.		4	1951-1960
128753	Very concerned	Unsure	Very unaware	Energy, Transportation, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Social Media, Email Contact, City Website		I live in Birmingham.		9	1941-1950
128743	Very concerned	Unsure	Somewhat aware	Energy, Solid Waste, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, All of the above		It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Beat Newsletter, Email Contact, City Website		I live in Birmingham.		2	1951-1960
128803	Very concerned	Somewhat	Very aware	Natural Environment, Transportation, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation, Multimodality, Community health		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Email Contact, Neighborhood, City Website, Public Meetings		I live in Birmingham.		2	1971-1980
128807	Somewhat concerned	Somewhat	Neither aware on unaware	Water Quality, Natural Environment, Transportation		Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation, Multimodality, Community health		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Around Town E-Newsletter, City Website		I live in Birmingham.		6	1981-1990
128841	Very concerned	No	Very unaware	Energy, Water Quality, Air Quality		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter, Birmingham Beat Newsletter, Email Contact, City Website		I live in Birmingham.		1	1951-1960
128926	Very concerned	No	Very unaware	Solid Waste, Transportation, Buildings		All of the above		It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		I live in Birmingham.		8	1941-1950
128920	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment		Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation, Community health		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Email Contact		I live in Birmingham.		4	1961-1970
128913	Not at all concerned	Somewhat	Somewhat aware	Solid Waste, Natural Environment, Quality of Life	None of these.	None of the above		It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		City Website, Public Meetings		I live in Birmingham.		6	1951-1960
128949	Very concerned	Unsure	Somewhat aware			All of the above		It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal		Around Town E-Newsletter		I live in Birmingham.		5	1951-1960
128976	Very concerned	No	Very unaware	Energy, Water Quality, Natural Environment		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact, Neighborhood, City Website, Public Meetings		I live in Birmingham.		5	
129216	Very concerned	Somewhat	Very unaware	Water Quality, Air Quality, Extreme Weather		All of the above		It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal		Email Contact		I live in Birmingham.		1	1941-1950
129286	Somewhat concerned	Yes	Unsure	Energy, Water Quality, Solid Waste		Composting, Recycling, Environmental preservation		It should increase community commitment to sustainability	Unsure		Birmingham Beat Newsletter		I live in Birmingham.		8	1951-1960
129240	Not very concerned	Unsure	Neither aware on unaware	Water Quality		Recycling		It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal		Birmingham Beat Newsletter		I live in Birmingham.		6	1961-1970

How would you describe your overall level of concern about addressing sustainability and climate action issues?		Do you feel Birmingham is doing a lot of strategic things that include positioning Birmingham for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts in the community. Were you aware of this strategy last?		Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3)		Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3) (Other (please specify))		What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply)		What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply) (Other (please specify))		At what level should Birmingham be in terms of sustainable community with the state's goal?		The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal?		The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal? (Other (please specify))		How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply)		How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other (please specify))		What else would you like to add to the conversation regarding sustainability and climate action?		What best describes you? (Check all that apply)		This is a map of Birmingham's election precincts. Please select your precinct for the election below.		Which section of Birmingham do you live in?		In which decade were you born?			
120610	Not very concerned	Somewhat	Somewhat unaware	Water Quality, Natural Environment, Quality of Life	Environmental preservation, Unsure	It should not be concerned with sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I take information and do my own research. In my analysis for Birmingham to take such an aggressive action it would be better if you showed some actual documentation or solid scientific data specifically the carbon neutrality goal and how it is currently affecting us. I am tired of hype and no solid proof. This is a global issue not a United States problem. I would like scientific evidence that supports the need to push your agenda. There is several issues that the community is ignoring. How about the increase in crime? How about the infrastructure of the city? How about funding some programs for the well like that is overhauling in Birmingham? I am discussed seeing a wild turkey dead in the middle of a road or a deer lying crushed on someone's porch. Baby items starving for over population of raccoons, ferals and possums	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure
120877	Very concerned	Unsure	Unsure	Water Quality, Natural Environment, Quality of Life	Environmental preservation, Unsure	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120979	Very concerned	Unsure	Neither aware on unaware	Energy, Water Quality, Air Quality	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120984	Very concerned	No	Very unaware	Transportation, Quality of Life, Extreme Weather	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120936	Very concerned	Somewhat	Somewhat aware	Energy, Buildings, Extreme Weather	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120920	Somewhat concerned	Unsure	Somewhat aware	Natural Environment, Transportation, Food Access	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120945	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Nextdoor, City Website, Public Meetings	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120945	Not very concerned	Somewhat	Somewhat aware	Energy, Water Quality, Transportation	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Email Contact, Nextdoor	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120677	Not very concerned	Unsure	Somewhat unaware	Energy, Water Quality, Quality of Life	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), City Website, Public Meetings	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120957	Very concerned	Somewhat	Neither aware on unaware	Water Quality, Solid Waste, Natural Environment	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Around Town E-Newsletter	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure			
120976	Very concerned	No	Somewhat unaware	Solid Waste, Transportation, Extreme Weather	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120469	Very concerned	Somewhat	Neither aware on unaware	Water Quality, Solid Waste, Air Quality	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Social Media, Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
121716	Not at all concerned	Yes	Very aware	Water Quality, Quality of Life	Recycling	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
130393	Somewhat concerned	Unsure	Very aware	Natural Environment, Buildings, Quality of Life	Recycling	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120967	Very concerned	Yes	Somewhat unaware	Energy, Natural Environment, Transportation	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
120503	Somewhat concerned	Yes	Somewhat aware	Energy, Water Quality, Transportation	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
130322	Somewhat concerned	Somewhat	Very aware	Water Quality, Air Quality, Extreme Weather	Recycling	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
130325	Not very concerned	Unsure	Neither aware on unaware	Water Quality, Solid Waste, Food Access	Recycling	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Around Town E-Newsletter	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
130326	Somewhat concerned	Somewhat	Very unaware	Water Quality, Quality of Life, Air Quality	Composting, Recycling, Multimodality, All of the above	It should increase community commitment to sustainability	Unsure	Unsure	Social Media, Around Town E-Newsletter, Birmingham Best Newsletter	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131030	Very concerned	Somewhat	Very aware	Energy, Natural Environment, Buildings	All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131058	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality	Green infrastructure, Recycling, Renewable energy, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Social Media, Birmingham Best Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131067	Very concerned	No	Neither aware on unaware	Energy, Water Quality, Transportation	Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Social Media, Email Contact, Nextdoor, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131072	Not very concerned	Unsure	Very unaware	Buildings	Green infrastructure, Environmental preservation, Community health	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Around Town E-Newsletter, Email Contact, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131073	Not very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality	Green infrastructure, Environmental preservation, Community health	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Around Town E-Newsletter, Email Contact, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131084	Very concerned	Unsure	Very unaware	Water Quality, Quality of Life, Extreme Weather	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Birmingham Best Newsletter, Email Contact, City Website, Public Meetings	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131089	Very concerned	Unsure	Somewhat unaware	Food Access, Air Quality, Extreme Weather	All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131092	Somewhat concerned	Unsure	Neither aware on unaware	Natural Environment, Quality of Life, Air Quality	Environmental preservation	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131094	Somewhat concerned	Yes	Neither aware on unaware	Energy, Quality of Life, Extreme Weather	Green infrastructure, Compositing, Recycling, Green buildings, Renewable energy, Environmental preservation	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131095	Not at all concerned	Yes	Somewhat aware	Energy, Natural Environment, Quality of Life	Compositing, Recycling, Green buildings, Environmental preservation	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Birmingham Best Newsletter, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131096	Very concerned	Unsure	Somewhat aware	Energy, Air Quality, Extreme Weather	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Multimodality, Equity, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Social Media, Around Town E-Newsletter, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131099	Somewhat concerned	Somewhat	Very unaware	Water Quality, Quality of Life, Air Quality	Recycling, Green buildings, Community health, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Social Media, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131103	Very concerned	No	Somewhat aware	Transportation, Buildings	All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Unsure	Email Contact, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131120	Very concerned	Somewhat	Somewhat unaware	Air Quality, Extreme Weather, Environmental Justice	Green infrastructure, Compositing, Recycling, Green buildings, Renewable energy, Environmental preservation, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131122	Somewhat concerned	Somewhat	Neither aware on unaware	Buildings, Food Access, Environmental Justice	Green buildings, Renewable energy, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131131	Not at all concerned	Somewhat	Very unaware	Water Quality, Solid Waste, Transportation	None of the above	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	Unsure	Around Town E-Newsletter	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should align with the state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131156	Very concerned	Unsure	Neither aware on unaware	Water Quality, Natural Environment, Air Quality	Recycling, Green buildings, Renewable energy, Environmental preservation	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Email Contact	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131187	Somewhat concerned	Yes	Very unaware	Energy, Water Quality, Buildings	Green infrastructure, Green buildings, Renewable energy, Environmental preservation, Community health	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Around Town E-Newsletter	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure	Unsure		
131197	Somewhat concerned	Somewhat	Somewhat aware	Energy, Water Quality, Natural Environment, Air Quality	Recycling, Green buildings, Renewable energy, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Unsure	Social Media, Around Town E-Newsletter, Email Contact, City Website	I am concerned with the loss of birds and insects that birds feed on. Pesticides and large glass windows are two main culprits along with outdoor cats and loss of habitat.	Yes, Birmingham should meet and exceed that state's goal</																						

Response ID	How would you describe your overall level of concern about addressing sustainability and climate action issues?	Do you feel Birmingham is engaging in sustainable practices today?	The City Commission of Birmingham has adopted a set of Strategic Goals that includes positioning Birmingham for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community. Were you aware of this strategy goal?	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3) (Other please specify)	Please select your primary concerns related to sustainability and climate action in Birmingham (Select up to 3) (Other please specify)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply) (Other please specify)	What sort of sustainability and climate action solutions/strategies are you interested in? (Select all that apply) (Other please specify)	At what level should Birmingham be in terms of sustainable community practices?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal?	The State of Michigan's MI Healthy Climate Plan has set a goal to achieve economy-wide carbon neutrality no later than 2050. Should Birmingham align with the state's goal? (Other please specify)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other please specify)	How do you prefer to receive news and information about the Sustainability and Climate Action Plan? (Select all that apply) (Other please specify)	What else would you like to add to the conversation regarding sustainability and climate action?	This is a map of Birmingham's election precincts. Please select your precinct for the question below.	Which section of Birmingham do you live in?	In which decade were you born?
131881	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality	Energy, Quality of Life, Air Quality	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, All of the above	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor	Around Town E-Newsletter	I live in Birmingham. I live in Birmingham.	1 2	1961-1970	
132204	Very concerned	No	Somewhat aware	Energy, Natural Environment, Transportation				It should become a regional leader in sustainability		Birmingham should adopt a pledge, and establish a robust measurement system, to achieve a 60% renewable portfolio by 2050 and 100% renewable portfolio by 2055 in line with Michigan Senate Bill 273 and Michigan House Bill 4759.	Email Contact	The City of Birmingham cannot do this alone. It should repeatedly contact State Representatives and Senators and the Governor to demand prompt passage of relevant legislation (SB273-274, 276-277 and HB4759-4761).	I am a frequent visitor to Birmingham.		1951-1960	
132282	Somewhat concerned	Somewhat	Somewhat aware	Energy, Water Quality, Air Quality		Recycling, Renewable energy, Community health	Recycling, Renewable energy, Community health	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor		Free charging for EVs...currently there are not any free chargers in Birmingham which is very surprising - in fact, the only chargers currently available are for Tesla and hidden within the District 8 Township	I live in Birmingham.	9	1981-1990
132565	Very concerned	Somewhat	Somewhat unaware	Energy, Water Quality, Air Quality		Green infrastructure, Recycling, Green buildings, Renewable energy	Green infrastructure, Recycling, Green buildings, Renewable energy	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website	Birmingham Best Newsletter, Email Contact, Nextdoor, City Website	More public EV chargers, please! A Tesla supercharger would be wonderful, especially as all of the NA OEMs have adopted that new plug standard.	I live in Birmingham.	7	1981-1990
132803	Not very concerned	Somewhat	Somewhat aware	Energy, Water Quality, Quality of Life				It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	No, Birmingham does not need a carbon neutrality goal				I live in Birmingham.	4	1951-1960
133433	Very concerned	Somewhat	Very unaware	Transportation, Quality of Life, Air Quality		Green infrastructure, Multimodality	Green infrastructure, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		The one area where most cities lag behind is transportation. Making Birmingham a walkable, bike-able, public transportation friendly place will go a long way to toward battling climate change.	I live in Birmingham.	3	1951-1960
133540	Very concerned	Unsure	Somewhat unaware	Solid Waste, Natural Environment, Transportation	Quality of Life, Extreme Weather	All of the above	All of the above	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Social Media		I live in Birmingham. I own a business in Birmingham.	2	1981-1990	
133540	Somewhat concerned	No	Very unaware													
133504	Somewhat concerned	Unsure	Neither aware on unaware	Water Quality, Buildings, Air Quality		Green infrastructure, Composting, Green buildings, Environmental preservation, Community health	Green infrastructure, Composting, Green buildings, Environmental preservation, Community health	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website		I live in Birmingham. I am a frequent visitor to Birmingham.	2	1961-1970	
133575	Somewhat concerned	Somewhat	Somewhat unaware	Water Quality, Natural Environment, Air Quality		Recycling, Environmental preservation, Community health	Recycling, Environmental preservation, Community health	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media		I live in Birmingham.	1	1981-1990	
133582	Very concerned	Somewhat	Neither aware on unaware	Solid Waste, Natural Environment, Quality of Life		Composting, Recycling, Environmental preservation	Composting, Recycling, Environmental preservation	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		I live in Birmingham.	4	1951-1960	
133647	Very concerned	Somewhat	Somewhat aware	Buildings, Extreme Weather		Recycling, Environmental preservation, Multimodality	Recycling, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Email Contact, City Website, Public Meetings		We should consider the use of rubber modified asphalt and other road surface that use around the rubber from scrap tires	I live in Birmingham.	2	1951-1960
133648	Not at all concerned	Unsure	Very unaware	Water Quality, Air Quality		Composting, Recycling	Composting, Recycling	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	No, Birmingham does not need a carbon neutrality goal	Email Contact, City Website, Public Meetings		Carbon neutrality is not truly achievable but only a shell game. Birmingham should focus on keeping the streets, sidewalks, sewers, and water in an excellent working order. We should keep our parks well maintained. Composting is sensible and allows citizens to leverage the composting for gardening. As a citizen, I oppose any initiative to raise the cost of owning Birmingham by pursuing "Green Initiatives" and I will work to vote out of office any leader/officer that feels that this is a top priority for our city.	I live in Birmingham.	4	1961-1970
133670	Very concerned	Somewhat	Very aware	Water Quality, Natural Environment, Quality of Life		Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation	Green infrastructure, Composting, Recycling, Green buildings, Environmental preservation	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Social Media, Birmingham Best Newsletter, Email Contact, City Website		I am a frequent visitor to Birmingham.	N/A	1971-1980	
134231	Not at all concerned	Yes	Very aware			None of the above	None of the above	It should not be concerned with sustainability	No, Birmingham does not need a carbon neutrality goal	No, Birmingham does not need a carbon neutrality goal			This is not appropriate for politicians only innovation can change human behavior. Birmingham should focus on police and fire to protect the citizens, reduce taxes and streamline building permits. Police for a future that might not occur. There is no way to hold the commissioners accountable for some future imagined climate crisis. This is why people died in Maui because the politicians played climate change over mitigation like maintaining the electrical grid and a simple fix like cutting down trees near power lines. Maui, Mitigate and don't focus on doing things that have no actual effect on the weather.	I live in Birmingham.	5	1951-1960
134267	Very concerned	Unsure	Somewhat unaware	Natural Environment, Buildings, Extreme Weather		Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	City Website		I live in Birmingham.	8	1971-1980	
134349	Very concerned	Unsure	Somewhat aware	Energy, Natural Environment, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Community health	Green infrastructure, Composting, Recycling, Renewable energy, Community health	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		I live in Birmingham.	4	1971-1980	
134424	Very concerned	Somewhat	Very unaware	Transportation, Air Quality, Environmental Justice		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Email Contact		Native plants are more sustainable and save money on water.	I live in Birmingham. I am a frequent visitor to Birmingham.	7	1951-1960
134530	Very concerned	Somewhat	Very aware	Energy, Water Quality, Extreme Weather		Recycling, Renewable energy, All of the above	Recycling, Renewable energy, All of the above	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact		Birmingham needs contractors and sustainability experts in place to lead maintenance efforts of green infrastructure prior to their installation	I work in Birmingham.	7	1981-1990
134762	Somewhat concerned	Yes	Somewhat aware	Energy, Natural Environment, Air Quality		Green infrastructure, Recycling, Green buildings, Environmental preservation	Green infrastructure, Recycling, Green buildings, Environmental preservation	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Email Contact, Public Meetings		I work in Birmingham.	N/A	1981-1990	
134768	Very concerned	No	Somewhat aware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Composting, Environmental preservation, All of the above	Green infrastructure, Composting, Environmental preservation, All of the above	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter		I live in Birmingham. I work in Birmingham.	5	1961-1970	
134768	Somewhat concerned	Somewhat	Very aware	Energy, Air Quality, Extreme Weather		Green infrastructure, Composting, Environmental preservation	Green infrastructure, Composting, Environmental preservation	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		I work in Birmingham.		1971-1980	
1347701	Somewhat concerned	Unsure	Somewhat aware	Energy, Natural Environment, Quality of Life		Renewable energy, Environmental preservation, Composting, Recycling, Renewable energy, Environmental preservation	Renewable energy, Environmental preservation, Composting, Recycling, Renewable energy, Environmental preservation	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Birmingham Best Newsletter, Email Contact, City Website, Public Meetings		I live in Birmingham. I work in Birmingham. I am a frequent visitor to Birmingham.	9	1951-1960	
1347717	Very concerned	Somewhat	Somewhat aware	Water Quality, Air Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), City Website		I work in Birmingham. I am a frequent visitor to Birmingham.		1961-1970	
1347728	Very concerned	Somewhat	Very unaware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter, City Website		suggestions for residents on how to improve practices	I work in Birmingham.		1951-1960
134808	Very concerned	Somewhat	Very aware	Water Quality, Air Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor, Public Meetings		I live in Birmingham. I am a frequent visitor to Birmingham.	N/A	1981-1990	
1348072	Very concerned	Somewhat	Somewhat aware	Energy, Solid Waste, Natural Environment		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor, Public Meetings		I work in Birmingham. I am a frequent visitor to Birmingham.		1981-1990	
1348176	Very concerned	Unsure	Somewhat aware	Transportation, Extreme Weather, Environmental Justice		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Email Contact, City Website		I live in Birmingham. I work in Birmingham.	1	1981-1990	
134866	Very concerned	Somewhat	Somewhat aware	Energy, Solid Waste, Buildings		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Email Contact, City Website		I live in Birmingham. I am a frequent visitor to Birmingham.		1971-1980	
1348709	Very concerned	Somewhat	Very unaware	Water Quality, Extreme Weather, Environmental Justice		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), Public Meetings		I live in Birmingham.			
1348755	Very concerned	Somewhat	Neither aware on unaware	Natural Environment, Transportation, Quality of Life		Green infrastructure, Composting, Recycling, Renewable energy, Community health	Green infrastructure, Composting, Recycling, Renewable energy, Community health	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Email Contact		I work in Birmingham.		1991-2000	
1348823	Somewhat concerned	Somewhat	Neither aware on unaware	Natural Environment, Quality of Life, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Email Contact		I work in Birmingham.			
1348876	Very concerned	Unsure	Somewhat unaware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media (Facebook, Twitter, Instagram, etc.)		I live in Birmingham. I am a frequent visitor to Birmingham.	N/A	1991-2000	
1349026	Somewhat concerned	Somewhat	Somewhat unaware	Natural Environment, Buildings, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		I work in Birmingham.	N/A	After 2000	
134988	Not at all concerned	Unsure	Somewhat unaware	Water Quality, Quality of Life, Air Quality		Recycling, Environmental preservation	Recycling, Environmental preservation	It should increase community commitment to sustainability	No, Birmingham does not need a carbon neutrality goal	No, Birmingham does not need a carbon neutrality goal	Social Media, City Website		I live in Birmingham.	3	1991-2000	
1350820	Somewhat concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, City Website		I live in Birmingham.			
1350841	Very concerned	Somewhat	Somewhat aware	Water Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Email Contact		I own a business in Birmingham.	2	1961-1970	
1350847	Very concerned	Somewhat	Somewhat aware	Water Quality, Natural Environment, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter		I live in Birmingham.	1	1951-1960	
1350861	Very concerned	No	Somewhat aware	Energy, Solid Waste, Extreme Weather		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	City Website		I live in Birmingham. I own a business in Birmingham.	8	1951-1960	
1350881	Somewhat concerned	Somewhat	Neither aware on unaware	Energy, Water Quality, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Email Contact, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor, City Website, Public Meetings		I live in Birmingham.	5	1981-1990	
1350882	Very concerned	Somewhat	Very unaware	Water Quality, Quality of Life, Air Quality		Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Social Media (Facebook, Twitter, Instagram, etc.), Nextdoor, City Website		I live in Birmingham.			
1351764	Somewhat concerned	Unsure	Very unaware	Natural Environment, Transportation, Environmental Justice		Green buildings, Renewable energy, Equity	Green buildings, Renewable energy, Equity	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter, Birmingham Best Newsletter		I work in Birmingham.	N/A	1971-1980	
1351925	Not very concerned	Yes	Somewhat aware	Energy, Transportation		Recycling, Renewable energy, Environmental preservation	Recycling, Renewable energy, Environmental preservation	It should increase community commitment to sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Email Contact		I work in Birmingham.	N/A	1981-1990	
1352636	Somewhat concerned	Somewhat	Neither aware on unaware	Energy, Air Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	It should increase community commitment to sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	City Website		I work in Birmingham.			
1353724	Very concerned	Somewhat	Somewhat aware	Water Quality, Food Access, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Around Town E-Newsletter		I work in Birmingham.		1961-1970	
1357527	Very concerned	No	Somewhat aware	Energy, Water Quality, Natural Environment		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should align with the state's goal	Yes, Birmingham should align with the state's goal	Email Contact, City Website		This question is pretty broad. I would like to see more native plants and re-wilded areas replace much of the manicured grass lawns in our parks as well as a substantial reduction in chemical fertilizer application. Obviously golf courses, and soccer, ball fields would retain grass, but all other areas should be re-wilded and permeable trails added.	I live in Birmingham. I work in Birmingham. I am a frequent visitor to Birmingham.	3	1961-1970
1360684	Very concerned	Somewhat	Somewhat aware	Energy, Water Quality, Extreme Weather		Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	Green infrastructure, Composting, Recycling, Green buildings, Renewable energy, Environmental preservation, Multimodality	It should become a regional leader in sustainability	Yes, Birmingham should meet and exceed that state's goal	Yes, Birmingham should align with the state's goal	Social Media, Around Town E-Newsletter, Birmingham Best Newsletter, Social Media (Facebook,					



Birmingham Green Healthy Climate Plan Municipal Staff Roundtable

Welcome!

The City of Birmingham, as directed by City Commission is developing a sustainability and climate action plan. Sustainability plans help an organization meet its goals to reduce resource use and other environmental impacts. Climate action plans (CAP) are tools designed to help state and local governments mitigate and adapt to the effects of climate change on their community. They tend to build upon information compiled through greenhouse gas inventories (GHGI) and focus on those activities that can achieve the greatest emissions reductions cost-efficiently.

The Birmingham Green Healthy Climate Plan is a strategic roadmap that details community and government action that can be taken to help meet sustainability goals, mitigate and adapt to the effects of climate change. At this meeting, we'd like to hear your experiences, challenges, and opinions regarding the programs, services and facilities that you manage and interact with in your daily work at the city.

TODAY'S AGENDA

- 1. Introductions (all)**
- 2. About the Process/Why We're Here (Project Timeline and Engagement Program)**
- 3. Group Discussion (exploration of the following topics):**
 - *What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?*
 - *What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?*
 - *Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?*
 - *What could Birmingham do to make our city more sustainable?*
 - *How can Birmingham collaborate with local partners (schools, businesses, nonprofit organizations, other entities, etc.) to reach our sustainability goals*
 - *What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)*
- 4. Wrap-Up and Concluding Thoughts (Employee commute survey)**

PROJECT SCHEDULE

DRAFT: 10/4/2023

	2023							
Meeting/Event	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
June 12 th , ESC		✓						
GHGI Data Requests		✓						
Community Survey Open (Late June)		✓						
Public Engagement Event #1 (Day on the Town, July 29 th 9am-5pm)			✓					
August 21 st , ESC				✓				
Public Engagement Event #2 (Farmer's Market, August 27 th , 2023)				✓				
Public Engagement Event #3 (Municipal Roundtables, Oct/Nov)					✓	X		
Community Survey Closes (Late Sept.)					✓			
October 30 th , ESC @BPL Community Visioning Session						X		
Present Project Overview to City Boards MMTB, P&R, PB, HDC, DRB							X	
Nov 20 th , ESC Public Engagement Summary Review SCAP Intro and Outline Review							X	
December 11 th , ESC GHGI Final Report								X
	2024							
Meeting/Event	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
GHGI Final Report Published to City Website	X							
January, ESC Finalize SCAP Goals and Vision	X							
February, ESC		X						
March, ESC SCAP 50% Draft Review			X					
April, ESC				X				
May, ESC SCAP 75% Draft Review								
Public Engagement Event #4 & 5 (TBD)					X	X		
June, ESC						X		
July, ESC SCAP 100% Draft Review								
Final Draft Published on City Website 30-Day Public Comment Period								
August, ESC								
City Commission Public Hearing / Adoption								
Publish Final SCAP on City Website								

PUBLIC ENGAGEMENT PROGRAM

Stakeholder Identification

City of Birmingham	Private and Public Organizations	Informal Groups/Other Contacts
City Commission	Area Non-Profits	Birmingham Senior Citizens
City Department Heads and Staff	Community Institutions (e.g., Library, Schools, etc.)	Birmingham Youth
	Neighborhood Associations	Parents of Young Families
	Birmingham Shopping District	
Any other groups we should be contacting?		

Engage Birmingham

Engagement Activity	Purpose	Date	Target Audience
Survey	Create awareness for the project and planning process and gather input on the communities concerns and priorities related to sustainability	June through September	People who live, work and 'play' in Birmingham

Field Days: Input at Community Events

Engagement Activity	Purpose	Date	Target Audience
Day on the Town	These early events will help establish priority goals, objectives and the vision/direction of the plan.	July 29 th , 2023	People who live, work and ‘play’ in Birmingham
Farmer’s Market		August 27 th , 2023	
TBD	These later in the process events will allow for a feedback loop where adjustments can be made and validation can be received.	Any events we should consider to meet people out in the community?	
TBD			

Stakeholder Round Table Interviews

Engagement Activity	Purpose	Date	Target Audience
Roundtable Discussions	Provide a deeper understanding of core issues and opportunities related to sustainability in local government operations.	October 6 th , 2023	Department of Public Services staff
		October 6 th , 2023	Building Division staff
		October 11 th , 2023	Police Department
		October 12 th , 2023	Management, Finance and Clerk's Office staff
		October 13 th , 2023	Museum and Library staff
		November 1 st , 2023	Fire Department

Public Body Meetings

Engagement Activity	Purpose	Date	Target Audience
Historic District Commission/Design Review Board	Inform the board of the process and opportunities to give input.	November 1 st , 2023	Residents and Board Volunteers
Birmingham Shopping District Board		November 2 nd , 2023	
Museum Board		November 2 nd , 2023	
Multi-Modal Transportation Board		November 2 nd , 2023	
Planning Board		November 8 th , 2023	
Parks and Recreation Board		November 14 th , 2023	
Library Board		November 20 th , 2023	
Aging in Place Ad-Hoc Committee			

Acronyms Decoded

ESC – Ad Hoc Environmental Sustainability Committee

SCAP – Sustainability and Climate Action Plan

GHGI – Greenhouse Gas Emissions Inventory

MMTB – Multi-Modal Transportation Board

P&R – Parks and Recreation Advisory Board

PB – Planning Board

HDC – Historic District Committee

DRB – Design Review Board

BPL – Baldwin Public Library

Links to Relevant Plans and Useful Sustainability Resources

[Mi Healthy Climate Plan](#)

The Mi Healthy Climate Plan is a climate action plan produced by the Department of Environment, Great Lakes and Energy (State of Michigan) in 2022.

[Royal Oak Sustainability and Climate Action Plan](#)

Royal Oak's SCAP is a sustainability and Climate Action Plan produced and adopted by the City of Royal Oak in 2022.

[Southeast Michigan Council of Governments' \(SEMCOG\) GREEN Report](#)

Released just a couple months ago in 2023 SEMCOG's GREEN Report is a strategic framework for growing our region's resilience, equity and economy with nature.

Birmingham Green Healthy Climate Plan

Department of Public Services Staff Roundtable (October 6th, 2023)

Public Engagement suggestions:

DPS Open House - May

Welcome Back Member Event Golf Course - Late April

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

Golf

- Golf - Still has gas carts, trying to go all electric. Gas because facilities can't hold more electric. Hoping to redo the cart barn to change everything to electric. This is the third year of electric carts, they are great, saves on fuel costs. Looking for a new cart barn at Springdale, doesn't have a roof currently.
- Equipment (weed whips etc.,) transitioning over to electric, backpack blowers - no units in stock (hard to come by).
- Water safety - irrigation system - A resident irrigation consultant is coming in to evaluate the water source.
- Rouge River is really important to them. Chemical use for weeds depends on the climate - they don't use roundup anymore.
- Solar lights in the parking lot at Lincoln Hills; work the majority of the time, but cloudy days they don't come on.
- Would like to see solar lights at Springdale.

Fleet

- Need training for mechanics as soon as they start getting EV. A little scary what you're supposed to wear to work on these vehicles.
- 'Chicken and the egg' with needing charging stations before getting vehicles, etc.
- Industry-wide issues with hauling and losing battery (heavy duty electric vehicles).
- Hydrogen fuel cell is more the direction of the heavy vehicle fleet - long-term, a lot of their vehicles will be rolled over, new by the time the technology is there so that puts it even further out. When to swap things over is a conundrum.
- Priority is retrofitting building and site to even be able to handle EV.

Reduce Paper

- DPS working on reducing paper.

Parks & Recreation

- P & R master plan - sustainable landscaping features, tree canopy, etc.
- Working on a report to commission, finding there are more maintenance requirements to sustainable landscaping than not.
- Need lower maintenance, lower effort options for sustainable landscaping. Flipping annual gardens to perennials is ok, but flipping to bio swale, rain garden etc. is much more difficult. Maybe more forethought into the planning, have contractors provide a maintenance plan and possibly maintain for the first 3 years.

What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?

- Slightly ahead of the curve on this because we are already starting to switch equipment which makes it easier to start doing that.
- Staff longevity - we have some staff here for 16 years, etc.

- Some of the EV options would work really well for DPS (light duty, administrative, equipment).
- Staff has helped clean up the yard to make space, has great insight into what isn't be used, can get rid of or stored, what needs easy access to be utilized regularly
- Sewers and streets - pretty good connection going back and forth with engineering to aid with the weakness of how old the infrastructure is overall, but that is also a strength because we have a reason to be doing projects, replacing things, spending money, and implementing green infrastructure.
- Have a really good core of employees who have been here anywhere from 10-20 some years and have vast knowledge of the city as a whole, where flooding occurs on a regular basis. Institutional knowledge. Can help make decisions about what is reasonable for a specific area, project, physical knowledge as well, reasonably well documented but still with lots of holes.

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- Budget
- New is scary.

Solutions

- Reasonable steps in the process of the timeline, sub goals to get to the larger, longer timelines.
- Like replacing equipment with electric as it dies.
- 2026 as a goal to be fully electric when it comes to hand tools.
- Lighter duty vehicles can be transitioned soon, but need somewhere established city chargers for city equipment before we can really purchase anything.
- Increase budgets for opportunities down the line to hire staff to ease the burden, to purchase more sustainable equipment as it becomes available.
- Fuel monitoring system, maintenance etc. - IT is in the process of updating the system.
- Water system - Aquahawk - notifies if there is overdrawn water that is not normal - not sure if there is a better system out there. Not sure if there are systems for installing pressure monitors in water systems to look for leaks and alert for loss of pressure, would be interested in that and would be new to the city as a whole. Systems to look for inflow/outflow into stormwater system to monitor how much stormflow is happening which would give you an idea of runoff from greenspace.
- Energy usage for different facilities is not monitored currently.
- Golf course - trying to get an irrigation system implemented which is major water control. Has a single row. Budgeted for a new sprinkler system at Springdale, currently being designed - \$500,000 budget, \$720,000 quote for system. Connects to ponds, using water onsite.
- Switching the cart fleet to electric would like to finish that off, but storage is a reason and increased usage needs all the carts (so they have kept the old gas instead of getting rid of, to have enough carts to meet usage).

How can Birmingham collaborate with local partners to reach our sustainability goals?

- Birmingham Senior Men's
- Groves and Seaholm

- Friends of the Rouge
- Alliance of the Rouge Communities - Bham has staff representation there. Huge projects, bring awareness to, release fish. River Rouge Clean up. Intention to get back into those groups. Tree plantings, they will come out and provide volunteers, provide matches - backfill trees that have died in public areas would be a possibility, river clean-ups to remove unnatural dams causing flooding. ARC has larger goals, bigger projects they would do, did \$10 million dollars' worth of park, path, wetland restoration in Southfield. ARC has documented specific areas and permit regulations "problem areas."
- HRC did look into some streambank stabilization projects - six specific areas, golf course and Lincoln, Storm drains and containment of pesticides - working with EGLE for permitting right now.
- "Pie in the sky" - Solar panels on houses. No money up front. Have installed in East Lansing on top of parking structures to feed whole buildings etc. DPS possibility. Generally, you don't install solar on a roof over 7/8 years.

What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)

- 1-3-year goal get all power tools that are gas switched over to electric, purchase first electric car for fleet
- Golf course new irrigation system, switching to electric fleet
- Fuel monitoring switching to new system
- *Not allowing a second meter for sprinkler system, not currently allowed in Birmingham, people request it though. There are neighboring communities that do this.
- If SOCCRA or SOCWA could help with the education and interest in going greener, incentivize more

Community Development Staff Roundtable (October 6th, 2023)

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

Reduce Paper

- Building - going paperless (BZA reports, etc.).

Building Code

- Building code issues - stuck in the state construction code - building staff is on the construction code commission and advocates for getting the new code adopted (May/June 2024 timeline?) We cannot be more restrictive than the code. "Single-state construction code" (Since 2000, municipalities cannot amend their own code).

LEED

- Something we could look at operationally as well as for our residents - seeking/incentivizing LEED certification
- Reuse of water. Greywater systems.
- Still contend with the problem of the checklist being upfront and it might not pan out to meet all of those requirements - what do you do?

Impervious Surfaces

- Astroturf on golf courses (less water use)?

- Ecosystem services - AstroTurf doesn't do anything for the land, where do you draw the line?
- We should clarify the stance on AstroTurf in the Zoning ordinance, as well as gravel.
- AstroTurf with cisterns underneath to collect the rainwater for watering the gardens.
- Expediting permits? For various reasons...we still have to do reviews, electrical, etc. Reduce or eliminate review and permit fees for certain sustainability projects? The city might have to kick in some money for that.
- All residential new construction homes should put in storage to hold the stormwater back with an outflow to feed into the system later.

Stormwater Infrastructure

- Right now, there are no requirements in residential to hold the water, only to ensure that it doesn't flow onto your neighbor's property.
- In commercial, MS4 1+ acre has to meet Oakland county standards for stormwater detention - we adopted the OC min. Of 1 acre (October of last year, there was a discussion re: doing this over the whole city, had a deadline, took the 'easy' route at that time), other communities have adopted .5+ acres - here we can be as restrictive as we want - that is something to look at.
- We could also spread this over the whole city. We could also require stormwater detention on residential properties (redevelopment). We only can't be more restrictive on the building code, when it comes to drainage and engineering, we can be as restrictive as we want.
- Everyone else around us is basing their requirements on 100-year storm events and we are still on 10. RH just had to meet the 10 year.
- OC has some waivers that can be approved locally if you can't meet it, they try to push infiltration. Green Infrastructure credits of green roof, rain garden, etc. to try to absorb the rain.

Green Stormwater Infrastructure

- \$50 permit to apply for rain barrel to be able to get credit on your stormwater fee, but you have to renew every two years which cost \$50 so it may reduce participation. There is a settlement around this from 2017.
- Rain barrel only works if you empty it out and use it between rains, I would incentivize something more permanent like a rain garden or a catch basin.

Parking

- Get the building code and the zoning code in line for parking lots especially, clarify what forces you to bring it up to code, possibly incentivize green stormwater.
- If you make it too costly/difficult to maintain (like cap and reseal the parking lot) they just don't do it.

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- Get input from CC and residents on looking at tweaking any of the stormwater requirements. For new builds we require two taps if you're doing detention so that it doesn't go into the sewer system (and the sewer system doesn't back up), but getting pushback from residents.

- For new construction, it's easy, you just require it. We are probably way behind on that if you look at how much the city has redeveloped since the early 2000's.
- Maybe new house builds require detainment of the delta (difference between old and new build size) and not open ourselves up to lawsuits - barrier lawsuits.
- We should do an analysis of parcel sizes by zoning district re: stormwater standards.
- Best practices in a design guide/manual for developers/contractors to understand what is available to them to get creative to meet detainment standards.

How can Birmingham collaborate with local partners to reach our sustainability goals?

- Alliance for Rouge Communities - projects like fish passage, reestablishment of catch basin, water quality, hardly any projects up in this area
- Incentivize builders to partner with Oakland schools to reduce construction waste/donate extra materials to the schools. Demo waste.
- Can't use crushed concrete within x feet of a waterway
- Carbon footprint of big construction machines.
- Natural features ordinance - like a conservation easement - Waterford has it. Can't build within x feet of certain natural features (wetland, river, etc.).
- Concrete is one of the most carbon intensive materials you can use
- Protect and restore wetlands

Police Roundtable (October 11th, 2023)

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

- Priorities: New building - either addition to City Hall or new standalone somewhere. Replacing appropriate vehicles with EV.
- Plugs in the courtyard to run systems without running engine, still in process - got all amperage info to John to continue to investigate installing - still some concerns, everywhere they have seen them had some sort of coverage. Money that was set aside for carport got used. When they leave a car shut off for fifteen minutes (in good weather) the battery is dead.
- Parking jeeps getting replaced next year - can we find a viable EV solution - right hand vehicle option - need charging on city property. Two parking jeeps - jeeps because that has been what they have been able to get right hand drive, also sits up higher for seeing the meters and for ease of getting in and out, also shorter front.
- Ann Arbor has mustang (test) police car - heard it is completely unusable, more for test and show.
- NYC - bought a used Tesla - astronomical cost, also a test
- Locally, instead of looking at police, we should be looking at parking, code enforcement, wouldn't be comfortable until there's some police use cases prove.

What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?

- PD is pretty much paperless, has been for a while, pretty much only print out FOIA requests or something that has to be on hand, 95% paperless.

- Bought first hybrid patrol vehicle. Ideology - they embrace sustainability in the department - have done much research on it.
- Drone - electric - potential to save man hours - drone can locate someone with thermal very quickly.
- Overwatch program for any special event - two officers on rooftops watching with a bird's eye view. Drone can replace one of those people, drone officer will have it up in the sky.

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- EV technology barriers, old office/building

What could Birmingham do to make our city more sustainable?

- Because PD are emergency services, they are limited in what they can do. Hybrid hours? (Four-day work week at City Hall?) substantial savings to gas and electric.
- Motion sensor lights that could go off when people leave a room. FD cars sit in heated temperature controlled environments - is this necessary?

How can Birmingham collaborate with local partners?

- Urban ashes - save timber from trees cut down and saved for local builds
- School Resource Officer – consult them on how to better engage the schools

What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)

- One of the things we would need for EVs is - where are we going to charge them? Not a good idea in Chester structure to put in chargers and say it's for municipal use only. Need to control access. Making sure that the chargers are available to the city vehicles when necessary. People should not even know it's there or they will be blowing up our phones. EV charging for public should be on the street.
- Money-wise it makes a lot more sense to do a new build (for PD) somewhere else than to retrofit here at City Hall. When they build the addition and "Sale-E port" secure prisoner transport garage area they will lose 6 parking spots out back, will need to restrict parking on one of the side streets for municipal parking only.
- We should consider moving police to the new YMCA building.
- North Old Woodward/Bates extension if that project gets revived could incorporate a new police building?

Management, Finance, Clerks Roundtable (October 12th, 2023)

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

- Do things across the board in as many ways as possible - not to take away individual decisions from departments, but more impact if we make larger changes across the board as opposed to individual small actions re: policy and procedures, like idling vehicles.
- Stormwater. Huge issue in people in this community's lives when that happens to them - any actions that we can do to help with our stormwater retention and natural filtration. Setting expectations for residents as to what their backyard is (much harder). We've kind of tried to "beat our yards into submission...maybe learning more as a community about using our land as what the land intends."
- Biggest impacts could honestly be made by hiring more people. On the ground, frontlines, DPS staff - more dedicated roles re: management of natural spaces, people who have specific training.

What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?

- Money - much better financial standing than most municipalities to be able to make some of these investments. Good at managing our money - great bond rating. Careful stewards of the public money that has put the city on strong financial footing.
- Residents - are pretty all-in philosophically. Public opinion in this town is in favor of sustainable action - it ends when they experience the slightest discomfort though. Not starting from zero.
- Education - very educated commission, boards. A lot easier to work on these kinds of projects in collaboration and make big plans with people who are more aware and well-read in general.

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- No appetite for additional millage. Revolving loan funds worth more investigation.
- Renovating city hall challenging - we have to get that very squared away before we invest in any type of carport.

What could Birmingham do to make our city more sustainable?

- Solar on parking garages to sustain garages themselves. Maybe take some weight off of the grid.
- If we were looking at like a 20-year plan; reconsider the golf courses and naturalize it/them. Royal Oak turned one of their golf courses into Normandy Oaks Park - it's a lot more open, community-based and requires a lot less staffing. Staffing the golf is unsustainable. Seasonal staffing, etc.

How can Birmingham collaborate?

- ALOHA – regional nonprofit? Related to energy.
- Alliance for Rouge Communities
- Schools - use kids reaching out to be on board as some sort of information gathering from other students. Students are very resume and application-focused here. Listening session?
- Ask P&R for contact info for a person at Derby that does Arbor Day? School resource officer? Girl Scouts/Boy Scouts/Pierce.
- February - seat all the students to all the boards - have an orientation/meeting with a side of sustainability conversation.

What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)

- Short-term and harder to mention is getting our team to coalesce around the goals. Plantings - have a lot of control over - annuals/bed-based - public education - PR campaign. Public- doesn't realize the amount of knowledge-base we have over at DPS.
- Hometown Parade as public engagement plan.

Library and Museum Roundtable (October 13th, 2023)

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

Museum

- Does have a park attached to the museum and a landscape plan in place, some of that revolves around native plantings, elms, etc. to get it back to the 1920's landscape. Would really like to see more drought-resistant planting - they have sprinklers going off at 3pm when it's raining (only really at the front part of the property facing the street), down the hill they do have the pond.
- Establish areas with native meadows? Reducing mowing. Currently property is full of invasive, wild, looks like nobody's paying attention to it. Being a historic property, what they can do physically is restricted on the outside.
- Wouldn't it be cool if they could have some sort of solar support? To be able to use that for additional source for heating or to reduce use of other fuels, convert mechanical on the inside to electric. Positive - can be a place for people to see how these things can be implemented - residential, in a residential setting, can be a positive and a negative.
- Opportunity to use it as an education space, people are already coming to the museum expecting to be educated on history, can educate on the landscaping as well.
- Low-hanging fruit - internal/mechanical, make changes that don't have external impact while continuing to plan for exterior changes.
- Museum would benefit from developing its own sustainability plan. Action plan - this is the kind of things we are going to do, this is the money we will need, this is how we're going to get the money.

Library

- Challenges with millage and budget for projects, including sustainability would add cost that might not be attainable.

- Library was on board for solar panels, but had to cut it out due to budget. Budget was knocked down in 2008, got some of it back for the renovations through 2025.
- Seed library, planted native garden. Reducing lawn and putting in a snow-melt system so that it won't be using salt.
- The city's use of salt is over the top and kills our plants every year. Destroys carpet - has to be replaced more often, impacts the concrete.

General

- Desire to move forward with a lot of these concepts but a significant portion of the community stuck in the old ways - we have to somehow figure out how to appease these people that are used to seeing manicured spaces. Education gap. Is the commission and all the boards willing to walk the walk?
- Anytime you can show the cost benefit (even long-term, hard numbers) they might see the benefit of the aesthetic trade off.
- We're not the ones creating a lot of waste, its corporations, police cars idling.

What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?

- Window project at museum - example of something where the commission and administration did put a lot of dollars (couple hundred thousand dollars) to get all the double-hung windows properly restored - historic and efficient, added storm windows to add to that efficiency. Opportunity for the public to come see the benefits of restoring historic windows. Museum house is almost 95% restored to what it was when it was built by finishing this window project. Historic preservation can save money and greenhouse gasses.
- Great staff (both) boards that are willing (both) - culture shift for public, very much helps to have a staff that is chock full of believers.
- Library staff are the ultimate recyclers - books, dishes (for all programs), no plastic water bottles. We do very well on trash waste (renovation not included). Did a trash audit. If extra paper is printed, it is turned in to scrap paper - biggest thing is books - carts and carts of donated books - have a guy that is taking them and reselling, reusing, etc. Hard thing - reducing amount of cardboard is tough because the amount of deliveries, but they do reuse packaging (they mail things all around the state) until it is dead and done.
- Energy infrastructure, old building - boiler far outweighs (negatively) anything else they do. Have to maintain climate for books and museum items. Museum - has been replacing residential furnaces - minimums - could the plan set up minimum standards for what should be used in replacement. Museum chose very efficient ones.

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- Cars - public transit; library was previously laughed out of the room for suggesting that the library should be a stop on public transit out of Detroit. This community is very car reliant. Reduce the amount of driving in the immediate downtown area. Bike lanes don't match up with other communities - if you are trying to go from community to community by bike, you still have to navigate areas without bike lanes. It's still dangerous to walk in crosswalks in this town as a pedestrian.

- Museum - no specific barriers that prevent them from implementing specific solutions aside from lack of really clear vision and goals coming from the top - it is not consistent enough - a lot of flip flopping so that in any one budget cycle the implementation is not a priority. In a hard economic year or two or three, sustainability is the first thing to be skipped over.
- The one nice thing about documents and plans is that if they're written and approved, it gives it a little bit of teeth and substance, solid guidance. Big plan advocates for that reason.

What could Birmingham do to make our city more sustainable?

- In Japan you cannot throw anything away. Carried a can around for forever, was forced to think about choices - more recycle bins around town.
- Citizen point of view - city operations are one thing and it does have an impact of course- but private property, endless development, the permitting of razing houses and putting up bigger ones, etc.
- Codes could require talking about a minimum efficiency, no more concrete - put in pavers. Exceptions to the lot coverage rule - there are a lot. Rain barrels - it's amazing what you have to go through to get the credit - people are not going to do it.
- Educate, stimulate, incentivize. If kids are coming home from school telling their parents they should recycle, they will recycle more - the child is the influencer. Emphasize the positive - that is part of culture change too, upcycling vs. recycling.
- Lots of praise from museum staff on the wording of our plan title and how we characterize things in a positive direction, discard old terms - language is really important. Subtle things have an impact on people. Model gardens etc. you can educate people as they go about their day - as long as there's a vision that unites it all.
- Sterling Heights - gave rain barrels to everyone who wanted one - got a federal or state grant to do that.
- Addressing trends when they come through - honeybees, leaf blowers
- Are we doing things to reduce chemical fertilizers? DPS came and sprayed the children's garden just last week.
- In Ann arbor - every other yard is a native garden - can you have a citizen award for that?
- Can you even have native gardens in this town?
- Sustainability website - resources and links to master gardener's

How can we collaborate with others?

- Maybe a master gardener who agrees to write a list of plants to put up on the city or someone who gives money towards a native garden - if you have a vision and it's clear, it's a lot easier to find people to help you with that vision.
- Pollyanna trail in Oxford they used goats to clear out invasives. Would be cool to set up as an ongoing program. Could be a fun grant for something like that.
- You need to have someone who has time to write, track, etc. the grant - that is a real barrier. Key function that is not easy to implement throughout the city - it's something that we have someone do if we have an extra couple of days. Partnerships strengthen those grant applications.

- Translating incentives to other than awards - credits that translate into dollars in some way? Tax abatement.
- Reduce red tape - that is valuable.
- Promote the concept of having an employee within the planning department that is focused on sustainability. Plan should include hiring a dedicated sustainability person whose job is to oversee and implement - that person should be within the planning department - this is another way to show commitment from the commission down - to actually hire a professional to do this. Sustainability officer
- Awarding the public with clout would work in this area. Have some kind of library programming about IRA has all this money that provides incentives about residential stuff - very difficult to find information.
- Get people off of old outdated gas appliances. Mid 2024 timeline. Invite public to library to learn about rebates.
- Goats and chickens - allow people to use goats to mow their lawn so they don't have to. People in this town like to do something first or be the most useful.
- Offering incentives for LEED certified buildings - can you do that for residential? Work with developers or architects to reduce permit fees (if they do x number of buildings).
- City of Farmington hired a goat to mow city hall lawn a while back.

What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)

- Biodiversity is intricately linked with our survival on the planet and we should concern our park lands not lawns - short-term.
- End endless concrete.
- Turn out city lights at night during bird migrating season - dark sky ordinances. There are lights at City Hall that point up at night, lights at the parks at night.
- Bird glass coverings for windows - short-term. Storms are forcing migration in different paths - causing more window collisions?
- Detroit Zoo has a sustainability officer.

Fire Department Roundtable (November 1st, 2023)

What do you see as key priorities for Birmingham to establish in this action plan, as related to municipal operations?

- Hazards associated with lithium ion batteries - fire safety, fire prevention, enforcing codes.
- EV chargers - all of these types of changes, change the norm for fire response - do we have the proper equipment, the right placement? There aren't even codes for some of these things yet. Fire Prevention Bureau.
- People are allowed to put solar on their house, have battery storage, do they understand the hazards? These batteries can fail and off gas in their home. If it's not maintained properly or damaged it can be a major hazard. Still in the infant stage in many of these things.
- Vehicles with batteries in a structure - too close to another hazard - we don't even understand all of this yet.

- Public education - financially there is a cost for this and will need a very consistent campaign and reeducation - cannot all fall on FD for the cost.
- Water infrastructure - cost and priorities - these fires require way more water - maybe fire should be more involved in the discussion of which projects take priority.
- Gasoline vehicle fire 1000 gallons, EV - 40,000 gallons.
- Water consumption on EV batteries/power banks takes away the water from fighting the fire that has spread to the rest of the house.
- Right now FD can call DTE to shut the power to the house. With solar and battery banks they cannot do this. Firefighters are getting electrocuted - there is no shutoff or codes for shut off. Firefighters need to cut through drywall (and wires) to get to fire.
- Battery pack - we required them to be inside (zoning). Fire safety - they should be away from sleeping areas. Because they off-gas they become a source - the biggest fear is that this happens in residential areas where people sleep. It would be much preferred to be in a garage with appropriate fire walls between living quarters and garage.
- It's less of an issue now because everything is new - but in 10 years when everything corrodes and people are looking to replace (cheaply) you're going to see a catastrophic increase.
- These fires displace oxygen at a much faster rate. When you start displacing oxygen it becomes carbon monoxide, this is where a lot of the rise of fire fatalities is based off of - batteries that are in dwellings.
- Houses are more airtight than ever before - which is good for energy efficiency, but makes a tighter oven, hotter fire.
- Cyanide poisoning - a lot of the materials will give off hydrogen cyanide, kill you, cause cardiac arrest, this is what is killing firefighters.
- Green roof, solar power roof - these old structures were not built for that. The building is built as one unit. If you add these extra things, even if you shore it up, it is more likely to cause building collapse. Should not adapt buildings for green roofs that were not specifically engineered to hold that weight.
- FD has ways to observe buildings and look for red flags, but they can't see every roof, would need a pre-plan highlighting the hazard to know to look at the roof. Also shutoffs.
- Solar panel cannot even be shut-off, if the sun is out, they have to try to cover with a tarp while putting out the fire.
- If we were going to push for these things (solar power and green roofs) we should have the FD involved and prepare for new buildings and the placement of these vs. we should not be doing retrofits.
- BRICKS - app - on the way to the call they can pull up and have a whole bunch of information about the house. There should be a way (incentive?) to loop this information in so that they have the information on the way to a fire. Not discovering while on scene. Permits for residential solar?

What are the strengths of Birmingham municipal operations that should be continued over the next couple of years?

- Building department bringing FD into the loop with unique projects.
- Response time - probably fastest in the state or possible country - top 10%, under 3 min, 2 stations in 4.4. Miles and good staffing plays a part in that.
- Boulevards and pedestrians slow response times. Size of trucks - not going to get any smaller. Maple - they try to avoid it as much as possible. The minute they have an issue over there - they're trying to get out and others trying to come in.
- Sustainability - faster response times helps salvage more property, less to replace after burning.

- Fire station - doubled efficiency of the roof. Automatic alarm response - only send two trucks from one station instead of everybody. Saves lives because firefighters statistically can get hurt on the way to calls.
- Would have to redo the generator, electricity to the station in order to put in a charger for an electric fire truck (no ladder truck options yet). Ambulance makes the most sense, but not until Ford, Stellantis, GM put out a commercial chassis that the ambulance companies can put their box on (not there yet).
- Mini-pumper - can show up and get things started 4.4 miles per gallon gas, vs. 1.5 mpg for the regular trucks. Two certifications when it comes to fire trucks - integrated this truck as a supplement because they run so many medicals - very cost effective move, it brings manpower to site and can serve some fire and medical functions.
- Paul fought hard to get DPS painting fire hydrants vs. firefighters painting hydrants. Huge savings to the city in fuel costs and personnel costs, uniforms wear and tear vs anybody else who can do the work.
- Fire chief and Assistant chiefs' city vehicles are new Yukons - clean diesel, 25 mpg. They are more efficient vehicles that are better to maintain and better resale value. 4-wheel drive. (previously had explorers which had worse fuel efficiency and worse resale value).

Are you aware of any specific barriers that prevent you/your department from implementing sustainable solutions? What solutions do you suggest for addressing sustainability and climate action within your department's operations?

- No one cuts their own grass - there are constantly large landscaping trucks parked everywhere.
- Is there a plan to lower power lines underground - they run on that (downed power lines) at least a few times a year? Not into it. Old infrastructure.
- Uneven sidewalks - FD calls for people who bust themselves up.
- Assisted living - aging population - most of the calls. FD - staff double the calls with less staff than in 1998 when Paul started. Most calls are to All Season - phase 2 opening soon will increase the number of these calls (with same staff).
- Slowing down the speed on Woodward.
- Designated fire routes - parking only on one side of that road.
- Wintertime - people park further off the curb on the road.
- When you reduce a street width, if you put bike lanes or pedestrian areas, that cars can still pull over on single lane roads etc. that would help (not a problem for Woodward though).
- FD Need to be involved in decisions on the widths of streets.

Partners for collaboration?

- Local fire chiefs – more collaboration is needed.
- No vision obstructed spaces on streets.

What should Birmingham's short- and long-term priorities be? (Short-term: 1-3 years, long-term: 3+ years)

- We should offer free charging to employees for EV. Small perk - recruitment and retainment. Hybrid is the new standard.
- Wireless - WAVE - non contact road charging. Underground electrical to support WAVE - plug in charging may be the way of the past.



Sustainability and Climate Action Plan Visioning Session – October 30, 2023

Visioning Session Itinerary:

- 6:00 PM – 6:15 PM – Welcome/Settling
- 6:15 PM – 6:30 PM – Introduction and “Table Setting”
 - What is an SCAP?
 - What is a Visioning Session?
 - What are we going to do with this feedback?
- 6:30 PM – 7:00 PM – Activity
- 7:00 PM – 8:00 PM – Facilitated Discussion

Draft Vision Statement (City Commission Strategic Goal #2):

The City of Birmingham positions itself for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community.

- The City of Birmingham – What/who comprises of the City of Birmingham
- Changing Future – What changes concern you?
- Policies and Practices – What does this mean to you?
- Natural Environment – What is most important to you?
- Extreme Weather Impacts – Which affect you most?
- The Community – Who comprises of the community? Who is most affected?

Changing Future

Property values
address challenges of climate change on
multiple fronts
hotter temperatures
climate change
manage traffic
low energy consumption
health issues
climate mitigation for people, plants, and
animals
climate
heat
stress
changes lead to stress on people
aging population
people from college leave the state
running out of space for waste
realignment of priorities for cities, companies,
people
new ways to do things
reduce waste and consumption
energy affordability
construction materials cost increase
aging sewer lines
change in leadership
politics
fresh water issues
reduce resources
impact of construction on services
Evs, cars and bikes
energy storage
demographic changes
commercialized retail landscape
population migration
climate migration
decrease consumption
buisness diversity
power outages
Evs
higher costs
impact of changing technology
new homes being built that limit capacity on city
systems
aging population
climate anxiety
more gray area, less green area
stressed supply chain
requirements for new builds
community solar
shared solar energy
community fund green energy projects and
ability to draw green energy from them. Use
governement rooftaps too
Hydrogen fuel cells
food insecurity

Natural Environment

native plants and trees and those that will survive climate change
noise, traffic, landscaping companies
clear cutting of lots to build new housing
parks and trails
value the rouge river basin
original vegetation wherever possible
microorganisms
quarton lake
landscaping companies - and use of toxins - mosquito sprays, etc, will they be banned?

what do our city streets and sidewalks feel like to walk
down pavement details or paths through nature
natural environment
storm water
make relief for resident action easier
walking events
stop abusing it
street trees
leave
soil
plant a million trees - native trees
dream cruise and other vehicle noise pollution
residential yards
natural ground cover

pesticide use at residential, city, commercial levels
require those that take down healthy trees to plant more
on their property or pay into pool to plant more on
public property
birds
migratory animals
new housing, single, multi-family, and apts on existing
green areas
animals, deer, birds, insects,
bugs
tree canopy
yards/lawns
native plants
rouge river
pollinators
tree canopy
no solar on land- on rooftops only
rain garden
native plants
lawns
rouge river
public open spaces
permeable surfaces
leaf blowers/noise

Extreme Weather Impacts

Snow
Droughts
Erosion
wind storms
extreme heat
fires
habitat decline

regional sewer systems are way overloaded
impacts on infrastructure
impacts on vegetation and wildlife
displacement
change in plant species, animal species, as
flore/fauna change zones
grid reliability
downed tree
home flooding
safety
emergency services
remember climate change has occurred since
time began! Not something new

flooding water runoff needs to be addressed
and a cohesive plan developed

loss of trees/species not able to handle heat

storm drain covers are not cleared of debris
degraded soil
more power outages
demand on health care and emergency
services
flooding, more severe thunderstorms,
tornados, snowstorms, extreme cold = strain
on infrastructure
flooding, home flooding costing homeowners
10s of thousands of dollars

single-family dwellings in certain areas flooding
in basemetns due to capacity of newer, large
(too large) capacity homes being built
concern about flooding
increase in tornados
floodings
heat
health issues
assthma
heat stress
bad air days
flooding
sewer back ups
increasing frequency and intensity of rainfall -
trend to continue
flooding
food scarcity
power outages in winter

Policies and Practices

regulate land development

leed certifications for new buildings or renovations

food waste ban

1 billion birds die each year due to collisions with

glass in US Require new buildings and property

owners (residential) that install large glass panels

that use bird deterred glass

light pollution

traffic calming

compost, restaurants and residential

land use

encourage walking, cyclings w/mixed use

reduce food waste, donate

pedestrian only on old woodward

food recycling and waste reduction

encourage biking, more protected bike paths, fix ruts

in roads

solar and solar power education for homeowners

rain barrels for all

recycling for businesses

ESG

Allowing seemingly unlimited new family dwellings

with pushes the capacity of city systems beyond their

limits

transportation infrastructure

transportation infrastructure

EV charging sites

parking minimums

EV infrastructure

Combined system separation

banning certain chemicals

bird collision proof windows on government buildings

lights off policy on commercial and government

building during spring and fall migration. Include

apartment buildings

infiltration stormwater

plastic bag free

plastic free

no parking minimums

noise

energy consultation

cycling infrastructure

waste management

compost

fewer lawns more natural plants

community gardens

tax relief for sustainable homes and businesses

public indoor air quality - evaluate public space

ventilation

encourage/require recycling

require energy score for home sales

join with other communities to involve regional

plans

upzone density

support for businesses to reduce emissions

carbon tax

think regionally, don't need conflicting

policies/practices, city - city - oakland county, state

of michigan

home compost pickup

energy purchases lead to cleaner energy

recycling education

light pollution, dark nights so can see the stars

kiss

led conversion

stormwater

incentives

sustainability millage

walkable city, close streets on the weekends

solar standards

procurement

permeable material

City of Birmingham

Residents
property owners
visitors to the city and businesses
residents businesses
residents
city commission
city staff
city boards

there are about 20 members of the public here tonight
how do plan to engage residents who are not really
interested by may be damaging the environment
if project funding is needed, could that results in a millage
increase? Or is all of this cost neutral?
doing forget your neighbors, Troy bloomfield hills
department of public services
indigenous peoples
renters
seniors
parents
students/kids
residents
net zero city
no storing water runoff from city
recycling education
wealthier than many other cities/communities
schools
youth
high number of highly educated people from variety of
industries
reputation as a leader
walkability
future residents
electric vehicles
net zero buildings
indoor air quality
make all the landscaping companies account for the
chemicals they use
a huge educational program is needed to educate the public
how to reduce the amount of lawn and how all are
connected
parks, trees, water, paths
all residents some neighborhoods are more highly valued than
others
first responders
no storm water runoff
streets
buildings
investors
city facilities
native species
businesses
natural resources, trees, green space, fish, parks, plants,
birds, mammals, critters
trails
restaurant scene
commuters
streets
sidewalks
buildings
home
gray infrastructure
visitors
those who work here but live elsewhere
limited public transportation
lots of NYC and SF transplants
civic engagement
visitors
people who work in Birmingham
library
fire department
use of chemicals and similar

Community

rouge watershed

park visitors/kids

the planet and its inhabitants, plant and animal

invasive species

neighborhood green space

community garden

native animals, birds, deers, etc

community gardens

seniors

fols to look to ann arbor

southeastern michigan

pets

mindful of other around the world that are

affected by what we do and don't do

polictical groups

city governments

share information

people who attend all city events

royal oak

ferndale

woodward

NGOs

Schools

Schools

Diversity

schools

health care facilites

clinton river watershed

overbuilding

religious institutions

small business owners

industry leaders

workers

parents

kids

block clubs

social groups

neighborhoods

neighborhood associations

visitors

visitors

voters

nonvoters

DINKS

children

belonging



MEMORANDUM

Planning Division

DATE: November 16th, 2023

TO: Ad Hoc Environmental Sustainability Committee

FROM: Leah Blizinski, City Planner

SUBJECT: SCAP Draft Vision and Objectives

Following the completion of the first phase of public engagement, city staff has begun to establish the framework which will guide the development of the sustainability and climate action plan. Using the comprehensive input from all of the public engagement activities completed thus far in the planning process, as well as a deep dive into current relevant local plans including regional and state plans, the Planning Division has drafted the following vision statement and objectives for the committee to discuss and amend if needed. This draft vision statement and objectives will be used to formulate measurable goals for each category that will be achieved through specific action recommendations detailed in the plan.

The Planning Division staff felt that the existing City Commission Strategic Goal #2 that was used during the visioning session provided a great vision for the community; therefore, we propose utilizing City Commission Strategic Goal #2 as a vision statement for the sustainability and climate action plan, so we are presenting it without change:

Birmingham Green Healthy Climate Plan Vision Statement

"The City of Birmingham positions itself for a changing future by instituting policies and practices that protect the natural environment and reduce extreme weather impacts on the community."

Using the above vision statement and feedback from the public engagement, the Planning Division drafted eight overarching objectives to provide a framework for establishing the specific goals and actions of the plan which will serve to help us accomplish these eight objectives as well as align with the objectives of the forthcoming regional climate action plan (SEMOG Healthy Climate Plan, TBD 2024) and existing statewide plan (MI Healthy Climate Plan, 2022):

Birmingham Green Healthy Climate Plan Objectives

Position Birmingham as a regional leader in climate action

Protect and improve the health of people in the Birmingham community

Increase and enhance natural areas and biodiversity

Increase materials management and reduce waste

Integrate equity and address environmental injustices

Facilitate transition to alternative fuels

Prioritize sustainable practices in all public and private projects

Promote green stormwater infrastructure as standard practice

SUGGESTED ACTION:

The committee should discuss the above-drafted Vision Statement and Objectives and amend as needed to form a consensus.



Project Schedule

DRAFT: 11/16/2023

	2023							
Meeting/Event	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
June 12th, ESC		✓						
GHGI Data Requests		✓						
Community Survey Open (Late June)		✓						
Public Engagement Event #1 (Day on the Town, July 29 th 9am-5pm)			✓					
August 21st, ESC				✓				
Public Engagement Event #2 (Farmer's Market, August)				✓				
Public Engagement Event #3 (Municipal Roundtable, Sept/Oct)					✓	✓		
Community Survey Closes (Late Sept.)					✓			
October 30th, ESC @ BPL Community Visioning Session						✓		
Nov 20th, ESC Public Engagement Summary Review Draft Vision and Objectives							X	
December 11th, ESC GHGI Final Report								X
	2024							
Meeting/Event	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
GHGI Final Report Published to City Website	X							
Present Project Overview to City Boards MMTB, P&R, PB, HDC, DRB		X						
January, ESC SCAP Intro and Outline Review	X							
February, ESC Finalize SCAP Goals and Vision		X						
March, ESC SCAP 50% Draft Review			X					
April, ESC				X				



	2024							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
May, ESC SCAP 75% Draft Review					X			
June, ESC						X		
July, ESC SCAP 100% Draft Review							X	
Final Draft Published on City Website 30-Day Public Comment Period							X	
August, ESC								X
City Commission Public Hearing / Adoption								X
Publish Final SCAP on City Website								X

Acronyms Decoded

ESC – Ad Hoc Environmental Sustainability Committee

GHGI – Greenhouse Gas Emissions Inventory

SCAP – Sustainability and Climate Action Plan

MMTB – Multi-Modal Transportation Board

P&R – Parks and Recreation Advisory Board

PB – Planning Board

HDC – Historic District Committee

DRB – Design Review Board

BPL – Baldwin Public Library



AGENDA

BIRMINGHAM AD HOC ENVIRONMENTAL SUSTAINABILITY COMMITTEE

MONDAY, DECEMBER 11th, 2023

BIRMINGHAM CITY HALL, 151 MARTIN ST, CONFERENCE ROOM 202, 203 BIRMINGHAM MI *

***** 6:00 PM*****

The City recommends members of the public wear a mask if they have been exposed to COVID-19 or have a respiratory illness. City staff, City Commission and all board and committee members must wear a mask if they have been exposed to COVID-19 or actively have a respiratory illness. The City continues to provide KN-95 respirators and triple layered masks for attendees.

- 1) Call to Order
- 2) Roll Call
- 3) Review of the Agenda
- 4) Approval of the AHESC Minutes of November 20th, 2023
- 5) Study Session
 - A. GHGI Report
- 6) Open to the Public for Items Not on the Agenda
- 7) Miscellaneous Communications
- 8) Draft Agenda – January, 2024
- 9) Adjournment

Future Meeting Dates:

TBD

*Please note that board meetings will be conducted in person once again. Members of the public can attend in person at Birmingham City Hall, 151 Martin St., or may attend virtually at:

Link to Access Virtual Meeting: <https://bhamgov-org.zoom.us/j/87587439403>

Telephone Meeting Access: 877 853 5247 US Toll-free

Meeting ID Code: 875 8743 9403

Notice: Individuals requiring accommodations, such as interpreter services for effective participation in this meeting should contact the City Clerk's Office at (248) 530-1880 at least on day in advance of the public meeting.

Las personas que requieren alojamiento, tales como servicios de interpretación, la participación efectiva en esta reunión deben ponerse en contacto con la Oficina del Secretario Municipal al (248) 530-1880 por lo menos el día antes de la reunión pública. (Title VI of the Civil Rights Act of 1964).

A PERSON DESIGNATED WITH THE AUTHORITY TO MAKE DECISIONS MUST BE PRESENT AT THE MEETING.