



Sustainability Commission AGENDA

**SUSTAINABILITY COMMISSION MEETING
TUESDAY, AUGUST 18, 2020
WEST CONFERENCE ROOM
BLOOMINGTON PUBLIC WORKS
1700 W. 98TH ST.
BLOOMINGTON, MN 55431
6:00 PM**

GREETINGS FELLOW COMMISSIONERS,

The following are a few comments about our meeting on August 18.

The meeting will be virtual and the packet contains the information you will need to join the meeting from your computer. The following is some background and thoughts as you prepare for the meeting. This meeting may be a bit shorter this month as we do not have a staff presentation scheduled.

3.1 Time of Sale (ToS) Energy Disclosure Presentation: As a reminder for those of you who haven't been involved in these efforts, the proposed ToS policy would expand the current home inspection (that is required when a house is about to be put on the market) to include items such as measuring insulation in attic and walls, the type of heating systems being used, etc. A report (similar to one resulting from a Home Energy Squad visit) would be generated that would include projected energy usage and costs and recommendations for reducing energy costs and, as with a typical pre-sale inspection report, would be given to perspective buyers. This presentation will provide an overview of what is being proposed, the expected benefits of this policy, decisions that are needed, and next steps.

3.2 Climate Crisis Resolution: At our July meeting we discussed the Climate Emergency/Climate Crisis resolution and the need to balance the sense of urgency that the resolution calls for with the disruption that would be required of City staff in general and to current Commission efforts in particular. At the end of the discussion there was an agreement that staff would come back with an overall plan for how we move forward to meet our 75 by 35 carbon goal that could be the basis to come up with something expresses a need for urgency as well as specific actions.

I had discussions with staff about how to proceed. As we began to discuss what that plan might entail and what the impact of developing such a plan would have on current initiatives, we realized that such a plan already exists – it is the Energy Plan that was the outcome of the Partners in Energy process in 2018 and approved by City Council. At a high level the Energy Plan is divided into activities and goals to be accomplished by the end of 2020 and activities to take on after 2020. The plan is included in the packet and is online at (<https://www.bloomingtonmn.gov/pw/energy-action-plan>).

Based on the Energy Plan, staff put together the proposed Climate Crisis Resolution to be discussed by the Commission and, if approved, forwarded to the City Council. This resolution essentially asks the Council to confirm their commitment to Energy Plan (including the resources to make it happen) and adds a commitment to Environmental Justice. Note that both the resolution considered at the July meeting AND the resolution drafted by staff are included in the packet.

In reviewing the Energy Plan, we noted that there is a requirement that the Commission provide the City Council with an annual review of the activities and progress toward the activities and goals that are laid out in the Energy

Plan. The presentation that was scheduled to be delivered to Council on August 17 has been moved to September and will be tweaked a bit to incorporate progress against the Energy Plan goals and next steps and this resolution will be brought up as part of that presentation.

3.3 Racial Equity Presentation Debrief: On August 5th the Commission held a special meeting to focus on racial equity. Racial Equity Coordinator Faith Johnson provided an overview of racial equity issues – both generally as well as those specific to Bloomington. We will have discussion about what was learned and how we can apply what was learned to our upcoming efforts.

3.4 Guests at Sustainability Commission Meetings: At the July meeting we had a discussion about whether we should have a formal policy for allowing visitors to our meetings to speak (e.g. Public Comment Period). After further conversations with staff (including our Community Outreach Coordinator) I propose the following:

- We continue to ask visitors to introduce themselves and if there is a particular agenda item that they are most interested in.
- We plan one or two “listening sessions” a year where people from the community are invited to attend and provide input to the Commission. For example, we could do one as part of 2021 planning process where we present a summary of activities/results for 2020 and have a facilitated process for attendees to provide feedback and make suggestions for 2021.

3.5 Amplifying Community Outreach: This was on our agenda for the last couple of meetings, but has been bumped due length of the meetings. The basic idea is that Commissioners can help get the word out about Commission programs and events. Currently Communications and staff does a great job of getting the word out through the Briefing and social media and the Sustainability staff sends out notices through our Commission and Solid Waste e-subscribe.

However, for those that are NOT subscribers to City of Bloomington social media sites or our e-subscribe, they may not get our message. However, there are several Bloomington Community Facebook pages and there is also NextDoor that have thousands of subscribers. We, as Commissioners, could take it upon ourselves to use these sites to help get the word out. This is a preliminary discussion about what that might look like and whether this is something that we might want to take on and, if so, next steps.

2020 Work Plan Updates: We will review an updated 2020 Work Plan status report that is included in the packet. In the Updates column, cells highlighted in light blue are new updates since our last meeting. The item highlighted in light red indicates an issue that needs discussion and resolution.

Included in the packet is as a draft agenda for the Earth Day Celebration scheduled for October 22 and is a collaboration between the Sustainability Commission and the League of Women Voters. We will review it briefly and have a brief discussion looking for any questions and suggestions.

HOW TO JOIN A WEBEX MEETING

The virtual meeting will begin at 6:00 p.m. via Webex.

Event number: 133 047 8098

Event password: AugustMeeting

When it's time, join the meeting using one of the methods listed below.

Join by Phone

To join the meeting by phone (audio only), call the following number and enter the meeting access code.

US Toll+1-415-655-0001

Access code: 133 047 8098

Join by Computer

<https://logis.webex.com/logis/onstage/g.php?MTID=e886ab71232db298219b8436b0c7f9f10>

1. CALL TO ORDER

1.1 Roll Call

1.2 Guest Introductions

2. APPROVAL OF MINUTES

2.1 Approval of July Meeting Minutes

3. ORGANIZATIONAL BUSINESS

3.1 Time of Sale Energy Disclosure Presentation

3.2 Climate Crisis Resolution

3.3 Racial Equity Presentation Debrief

3.4 Guests at Sustainability Commission Meetings

3.5 Amplifying Community Outreach

4. STRATEGIC ITEMS

4.1 2020 Work Plan Updates

5. OTHER BUSINESS AND ANNOUNCEMENTS

5.1 Sustainability Coordinator Updates

5.2 2019-2020 Minnesota GreenCorps Member Appreciation

6. NEXT MEETING

September 15, 2020 at 6:00pm.

7. ADJOURNMENT

BloomingtonMN.gov: A yearly meeting schedule, agendas, and the official minutes once approved are available. If you require a reasonable accommodation, please call 952-563-8733 (MN Relay 711) as soon as possible, but no later than 9:00 a.m. one business day before the meeting day.



Commission Agenda Item

Originator Public Works	Item Roll Call
Agenda Section CALL TO ORDER	Date August 18, 2020

Requested Action:

No formal action required, for informational purposes only.

Description:

Kim Larson, Office Coordinator, will conduct a roll call to ensure a quorum is met.



Commission Agenda Item

Originator Public Works	Item Guest Introductions
Agenda Section CALL TO ORDER	Date August 18, 2020

Requested Action:

No formal action required, for informational purposes only.

Description:

Chair Sandry will invite members of the public to briefly introduce themselves.



Commission Agenda Item

Originator Public Works	Item Approval of July Meeting Minutes
Agenda Section APPROVAL OF MINUTES	Date August 18, 2020

Requested Action:

Approval of July 21, 2020 Sustainability Commission meeting minutes.

Description:

Draft minutes from the July 21, 2020 Sustainability Commission meeting are attached for review and approval.

Attachments:

[07.21.20 Unapproved Minutes](#)



Sustainability Commission

Unapproved Meeting Minutes

July 21, 2020

6:00 PM

WebEx Meeting

Commissioners Present: Rob Bouta, David Drummond, Paul Erdmann, Steve Flagg, John Jaimez, Dwayne Lowman, Lilly Marohn, Tim Sandry, Joe Strommen, Deanna White, and Xiaoxin Zeng

Commissioners Absent: None

City of Bloomington Staff: Ellen Biales, Deputy Public Works Director; Emma Struss, Sustainability Coordinator; Kim Larson, Office Coordinator; Laura Horner, Public Works Project Coordinator; Scott M. Anderson, Utilities Superintendent; Julie Farnham, Senior Planner; and Barb Wolff, Special Projects and Initiatives Manager

Guests: Meg Hannasch, Green Corps Member; and seven call in attendees (2 labelled by Call-in User, and the others as Claire Carlson, Evan Redepenni..., Jacob Bechtold, Madeline Hergott, and Robbie Holzman)

1. CALL TO ORDER

Chair Sandry called the meeting to order at 6:05 p.m.

1.1 Roll Call

Kim Larson, Office Coordinator, conducted a roll call. In attendance for roll call were Commissioners Erdmann, Jaimez, Lowman, Marohn, Sandry, Strommen, White, and Zeng. Commissioner Bouta was present during the approval of minutes. Commissioner Drummond arrived after approval of the minutes. Commissioner Flagg joined the meeting during item 3.1. Commissioner Marohn left during item 3.5. Commissioner Flagg left during item 3.6. Commissioner Drummond left prior to adjournment.

2. APPROVAL OF THE MINUTES

2.1 Approval of May Meeting Minutes

Commission discussion:

- Commissioner Strommen asked about the Webex chat discussion from the last meeting.

- Sustainability Coordinator Struss said that was an error to have the chat/Q&A portion available to attendees. It should only be for the panelists. However, there was an issue with one of the Commissioners having to be an attendee due to technical difficulties. Normally that part would be disabled, as it is tonight.
- Commissioner Strommen discussed three changes to the minutes as noted in the corrections below.

Commissioner Erdmann motioned to approve the June 16, 2020 Sustainability Commission minutes with corrections identified below; Commissioner Strommen seconded. Motion passed unanimously.

Corrections:

- Item 3.3: Change “Commissioner Strommen: This is bad timing and does not do anything for us PR-wise, and could damage other things we are working on potentially.” to “Commissioner Lowman: This is bad timing and does not do anything for us PR-wise, and could damage other things we are working on potentially.”
- Item 4.2: Change “Strommen: It is funded by fee on each building; the more buildings, the less they each would have to pay.” to “Strommen: It could be funded by a fee on each building like in Los Angeles.”
- Item 4.2: Change “Strommen: 7% average energy savings found in buildings that use Portfolio Manager. Could figure out what that looks like financially.” to “Struss: 7% average energy savings found in buildings that use Portfolio Manager. Could figure out what that looks like financially.”

3. ORGANIZATIONAL BUSINESS

Chair Sandry motioned to have the Water Supply Plan item (3.2) first; Commission Lowman seconded. Motion passed unanimously.

3.2 Water Supply Plan

Scott M. Anderson, Utilities Superintendent, presented an update on the ordinance revisions needed to comply with the Department of Natural Resources Water Supply Plan requirements.

Commission discussion:

- Commissioner Drummond asked if the restriction is only for sprinkling.
 - Anderson stated that the language in the ordinance can restrict “uses of water” and this is why staff would like to limit referencing specific uses. The City would retitle and the uses would be addressed in a future order consistent with state statute.
- Chair Sandry said that something that is a little less prescriptive but doesn’t exclude any options would serve us best. It would give the City options that they think are most appropriate to the circumstances as opposed to locking in to a set of things that they have to do that may not be the right things to do.
- Commissioner Jaimez stated that it makes sense the City is allowing itself flexibility to respond/react to specific issues.
- Commissioner Jaimez was curious as to how the water from Minneapolis gets to Bloomington.
 - Anderson explained about the two supply lines from Minneapolis. There are two meter vaults on 60th Street between Penn and Knox. The piping infrastructure delivers the water to the reservoir on 82nd Street, from there it goes in our system. We

receive/purchase finished water from Minneapolis and blend it with the City's water from the plant.

- Commissioner Lowman stated that on page 167 of the packet, it seems pretty prescriptive on that ordinance.
 - Anderson clarified that the DNR was asking for changes on the restrictions in case of water deficiency. Staff, without knowing the deficiency or what is causing it, feels it is risky to enumerate specific restrictions at the risk of leaving some out or including some that an order may determine is a reasonable use.
 - Lowman responded that it makes sense, but questioned if all this information is needed in this portion of the ordinance. Could this be handled through a policy or staff internal document? Does that open us up to questions of fairness on enforcement?
 - Anderson doesn't think it would simply because whatever measures taken would be directly based on that declaration or that order applicable at that time. Doing it that way would preserve our flexibility and ensure that we are taking equity into consideration.
 - Lowman expressed that we have to be careful with how far we go with that.
 - Anderson noted that and will look into it and come back with some revisions.
- Chair Sandry asked Anderson if he needs any other info.
 - Anderson feels that if the Commission is generally satisfied, he has gotten what he was looking for. Next steps are to work on the draft with Legal, provide that back to the Commission, and then going forward with regards to Commissioner Lowman's concerns, the City Council would be reviewing and approving.
- Chair Sandry expressed appreciation for Anderson's group with the Commission's water irrigation efforts.

3.1 Lyndale Avenue Retrofit Project Update

Julie Farnham, Senior Planner, provided an update on the Lyndale Avenue Retrofit Project. Barb Wolff, Special Projects and Initiatives Manager, was also available for questions.

Commission discussion:

- Commissioner Strommen asked about the parking as shown. Would each place have their own dedicated parking and then share some?
 - Farnham replied yes, but that the examples provided show areas that could be used for shared parking. Parking is a barrier and sometimes it is hard to redevelop as developers cannot meet the parking standards.
- Commissioner Drummond noted the hazardous waste site and concerns of putting the park there. Also the bike path that jogs is a serious auto/bike issue. Needs to be some distinction between commuters.
 - Farnham responded that the consultants are still working on this. Staff is compiling comments as well. Public Works is keen on making sure whatever happens here is safe.
- Commissioner Strommen talked about the development occurring further out from the city, air pollution, and conversion of natural space. Need opportunities for people to live and do what they need to do without cars. This shows a lot of roads. Lyndale today is 0% unwalkable. The roads are enormous and have a lot of cars. People do not want to walk by six lanes of traffic no matter how many trees there are. Does not see the walkability showing up in this.

- Farnham shared that they are also looking at where there are excess lanes and space on Lyndale. Consultant is working with Public Works regarding car movement. People still drive quite a bit, and there needs to be a balance of providing for traffic and working towards more walkability and multi-modal transportation. Turn lanes may not be warranted, and currently there are a lot of pork-chops at corners that could be removed to shorten the crossing distance. Taking out a full lane at this point is not something that would be supported by Public Works staff.
- Strommen said that traffic isn't going to go away as long as it is easy to drive in these areas, and as a result, walking will not be enjoyable.
- Farnham discussed tactical urbanism and how pilot projects can be effective tool of testing that – gather data and see what is happen. Sometimes we have to test before a more permanent change can be made. Strommen is supportive of that.
- Commissioner Strommen displayed disappointment with the housing proposed of 200 units per year when 400 units went up in South Loop. Seems like the plan should be driving some housing demand. Curious why the housing number is so low.
 - Farnham responded that the plan calls for 3,000 units in total. That is proposed to be zoned to B4, which allows for residential and much higher density, but it does become a market issue. It is expensive for developers to create housing. It is important to the City to be realistic. Regulations won't hinder the development of housing, the market will.
- Commissioner Strommen inquired as to what percentage of a project comes down to a city with regards to the funding aspect.
 - Farnham said that earlier stuff is going to require more subsidy from the City because the market isn't there yet. The City will have to try to incentivize. Developers cannot get high enough rents to justify higher density, steel construction, etc. The City could do some of the public infrastructure things to set the table and get the zoning in place. In addition, some of the uses now may become non-conforming, which is a challenge. These are decisions for the City Council.
- Flagg did not see bike lanes shown and this is a difficult area to bike to. What are the plans for that?
 - Farnham replied that the drawings are very conceptual. The multi-modal part is planned on Lyndale. There are challenges with openings, traffic, and getting across the railroad. The Planning Commission said they preferred to see bike infrastructure on Lyndale. This concept is not going to show what the street will look like with a bike path on it. The next phase might have more images/cross sections. Design of something like this would fall to our Public Works Department to lay out.
- Commissioner Bouta, after reviewing the information, has concerns about the area appearing to be about 80% impervious. The green spine is really just the trees along the street. Thinks there needs to be more space for runoff and stormwater treatment and green space.
 - Farnham responded that staff will be making some suggestions and design guidance for the next round with the consultant. Stormwater staff are going to take a combo of increasing impervious, underground storage, conveyance to somewhere else, etc. Staff is also exploring regional stormwater treatment/management of some sort.
- Commissioner Bouta asked about a graduated transition to fewer cars related to automated vehicles.
 - Farnham said that the consultant is doing research related to this.

- Commissioner Lowman commented his appreciation of changing from the big areas like Penn and American to smaller nodes. He cautions Commissioners that the City ran into issues with the current folks in the areas redeveloped before. Remember these are conceptual ideas. Be cognizant of what the current use and demands are, but it shouldn't impede us though.
 - Farnham added that it depends how proactive the Council wants to be with zoning. Staff met one on one with owners to get them comfortable with plans that may affect their properties and the City Council as well. There are a lot of good business here that we don't want to lose. In the implementation strategy, there is allowance for existing tenants to remain in the area, working to find places to relocate temporarily. That could be a possible role of the City. Staff sensitivity to existing businesses is really important.
- Struss asked about the consultant's experience with sustainable building designs. The energy code is very important, and Struss is happy to provide guidance.
 - Farnham replied that Stantec may not be a specialists in sustainable design, but they are a national planning firm, have expertise, and are very aware. We can provide them some of our thoughts on what can work and what cannot.
 - Wolff added that the consultant is working with a lot of large cities that have their pulse on what is happening.
 - Commissioner Strommen is supportive, but sustainable building codes should apply across the whole city. He views this as a separate concept from the Lyndale Plan.
 - Chair Sandry included that it is more than just energy building codes from a sustainability standpoint. It is a strategic priority of the City.
- Any further comments will be routed through Struss.

3.3 Guests at Sustainability Commission Meetings

Chair Sandry led a conversation about how the Sustainability Commission will provide space for public engagement during virtually-attended Sustainability Commission meetings.

Commission discussion:

- Chair Sandry expressed the need for a way for guests to address the commission and suggests that we set up a process that we would incorporate a time in our meetings for residents to address the commission. He offered up three options for discussion:
 - Don't allow public comments.
 - Have a public comment period at the beginning of the meeting.
 - Meet with residents prior to or after meetings.
- Commissioner Bouta said that having a means to communicate seems to be more of an issue electronically than in person.
- Commissioner Lowman inquired as to why the public comment is beneficial. From a strategic standpoint, he is less supportive of a general comment period, and more supportive of comments specific to an item. This would be more along the lines of public comment period for specific items, but not on every single thing.
- Commissioner Drummond likes the idea of comments on issues that are on the agenda. It would give some perspective from others, but put time limits on those.
- Commissioner White proposes a hybrid solution: standard at beginning of meeting with limits as a separate issue to what Commissioner Lowman was saying. Also, need to explore inviting the public for specific item/public hearing/info process on bigger items.

- Commissioner Jaimez is thinking along lines of Commissioner White’s direction – allow more of an open time in the beginning to discuss topics on the agenda. If there is a critical decision, we have the option to seek comments.
- Struss shared that there are new public engagement tools on the horizon for the City, including Bang the Table.
- Commissioner Lowman is supportive of what Commissioner White put forward, but expressed caution on an open public comment, as residents can then comment on anything—even if not part of the agenda. He is open to trying it, but his preference is to have it be related to a specific item.
- Chair Sandry and Struss will talk about this a bit more and bring back a specific options at the next meeting.

3.4 Rules of Procedure Reminders

Chair Sandry provided a reminder and clarification regarding the Commission’s annual work plan and the difference between informal working groups and subcommittees.

Commission discussion:

- Commissioner Jaimez asked if there are certain activities that we would be undertaking that really require them to be a subcommittee.
 - Struss recommends a subcommittee for work really being done separately, with only updates to the Commission.

3.5 Climate Crisis Declaration

A draft resolution was presented for discussion.

Commission discussion:

- Commissioner Strommen received comments from two of the public attendees from the June meeting:
 - The group considered some changes to the document related to the proposed actions that would be required by the resolution.
 - They also included a request to send a certified copy to the organizations that have requested the resolution
- Struss shared the following thoughts from a staff perspective:
 - Carrying out the activities as expressed in the resolution would require an exceptional amount of staff time and would require that time to be diverted from other Commission activities.
 - Timelines would require meetings; be aware of the effort, content, and timing.
 - Be aware in order to a greenhouse gas reductions by 2030, there is only one on staff with experience. Needs to be training, time, resources to complete. That work is starting to happen.
- Sandry: How would this impact our current work plan progress if the City Council approves this?
 - Struss does not have the time to carry out the policy work and this proposal. The Commission would have to decide what would be put on hold to carry out these items.
- Sandry asked to what extent some of this is already underway but not at the pace this calls out.
 - Struss responses:
 - Scheduling a lunch and learn; could possibly do this monthly.

- Do not have reduction goals by City department right now—as that level of detail has not been necessary.
 - Need to check in with Planning.
 - Working on policy work.
 - Having greenhouse gas impact statements included in Council motions is mostly not being done.
 - Other items need more time.
 - Legislation is not in the works.
 - Resolution not being done.
- Commissioner Lowman referenced the goal in the second paragraph. Issue we run into is that we don't really have a way to focus of driving us towards that goal, and hearing we are not really there. What changes or adjustments will staff make to this to ensure we get to this goal? Do we have a crisis? What are we doing to meet this? Doing a lot of great things that are not focused to that goal like this is. This is really important. What changes does Struss recommend to still meet the goal and not get lost in the minutia of all that is going on?
 - Struss requests time (three months) to research what peers are doing, reach out to departments, and prioritize staff time to scope out a plan for review. Spend more time thinking about how we are going about that.
- Commissioner Drummond said that all the ideas are good, but thinks the timing is wrong, particularly in light of the pandemic.
- Commissioner Strommen stated that the word emergency was removed from the title. The word crisis is more relevant to what climate change really is.
- Commissioner Strommen said that the logistics of this are challenging, but the whole spirit of this resolution is not that we're going to undertake a lot of analysis and find the best solution and implement; it's that we need to step on the gas and move forward.
- Commissioner Bouta recommended changing the heading to make it less wordy (resolution endorsing the declaration of a climate crisis). The right time for this was about 10-20 years ago. It is logistically more implementable, but maybe revise the last part on the commitments to make it more feasible/aspirational.
- Commissioner Jaimez agreed with the overall theme of the resolution. Although, it seems prescriptive but doesn't offer flexibility, and it doesn't seem to reflect staff resources. He is in favor of granting staff some additional time to change the last part of the resolution for more realistic time or less prescriptive.
- Commissioner White agrees 100% that there is a climate crisis and we need to be aggressive. She is concerned with list of activities at the end as a combo of aspirational and prescriptive. She agreed to need of giving staff more time and is not convinced it's ready as written.
- Commissioner Bouta likes that the bullets at the end make it a serious priority. It's a lot bigger than one person's job. Requires high priority investment from the top to make this work.
- Commissioner Lowman: Keep pressure on to get this done. Smooth it out and roll it out and get direction around getting this done. Makes him nervous to push it off. Recommend postpone to next month for staff to look at.

Commissioner Lowman motioned for staff to review this over the next two months and come back with a plan that meets 75% by 2035 with speed and import to achieve. Commissioner White seconded.

Commission discussion:

- Commissioner Strommen is not in favor. Already pushed along and doing it again is against the spirit of this. Referred to us from City Council. Propose sending this Council as is with the note that the logistics of the first two bullet points are ill defined and we'd like their feedback.

Motion carried 9-1, opposed by Commissioner Strommen.

3.6 Environmental Justice Subcommittee Resolution

A draft resolution to form an environmental justice subcommittee was presented for comment.

Commission discussion:

- Commissioner White: Does a temporary committee need to be a subcommittee approved by the City Council?
 - Chair Sandry said that the Commission could reverse last month's motion and make it a work group. From there, the work group could decide if a subcommittee is warranted.
 - Commissioner Lowman recommends getting started with work group, but thinks we need a long term committee. He does not want to delay the work.
- Chair Sandry clarified with the group that there is a need to get going on this work, but not a perceived need to make it a subcommittee at this time. He proposes setting up a work group to accomplish the items. The work group could then decide to recommend creating a subcommittee.
- Commissioner Zeng asked if it would be possible to change it to be a subcommittee right away.
 - Commissioner White: Do we have to spell out the scope? We should wait if so.
 - Commissioner Lowman said that the scope can change and shift. The main concern he has is if Council has to vote, is when we can get it on the agenda.
 - Struss and Larson discussed that the Legal Department needs to review the resolution so it will not be on the City Council agenda next Monday.
 - Lowman: Do we want to wait to get a work group started and formalize later?
 - Zeng agreed that it makes sense and was concerned it would take a long time.
- Struss: In thinking about making sure we have the right voices, move forward with an informal work group to get started with training. If it becomes an ongoing subcommittee, we will need to determine how to get other voices there to inform this work.
- Commissioner White added that long term this needs to reflect the community it is working in. She suggest hanging onto this draft resolution, but not submit at this time. Allow the working group to do its work as outlined here and put together new language form a long-term subcommittee.

Commissioner White motioned to allow the working group to do its work as outline here and put together new language to form a long-term group. Commissioner Drummond seconded.

Commission discussion:

- Commissioner Lowman wanted to get Commissioner Zeng's feeling on this direction as she initiated this item.
 - Zeng is comfortable with this as long as it the work gets done soon and can become a subcommittee.
 - Lowman would like this incorporated into the motion.

Commissioner White motioned to allow the working group to begin work as outlined and then put forth new language to form the subcommittee. Commissioner Drummond second. Motion passed unanimously.

Commissioner White, Lowman, Drummond, Jaimez, and Zeng were identified at last month's meeting for this group. Zeng will take the lead to organize the work group together. Zeng will work with Struss to work out logistics.

3.7 Amplifying Community Outreach

Chair Sandry started a conversation about social media outreach opportunities. Does it make sense for Commissioners to become more active on social media platforms? Chair requested Commissioners to raise hand via electronic WebEx feature if it should be discussed further. More than half did so Sandry will come back with more suggestions and information at the next meeting.

4. STRATEGIC ITEMS UPDATE

4.1 Policy Development Updates

Vice Chair Strommen provided an update on the Large Building Benchmarking. The challenge right now is logistics of enforcement when companies do not report. Struss added that the first meeting to set-up the online platform Bang the Table was held today. Struss is working on drafting a document outline and staff meeting for logistics.

Struss is working with staff on the Time of Sale Energy Disclosure, and working with Center for Energy and Environment. August 6th is the next scheduled planning meeting.

4.2 2020 Work Plan

Struss asked Commissioners to review the notes in the interest of time.

Regarding what is being removed/postponed from the work plan to allow for the climate crisis initiative, Chair Sandry and Struss will discuss. Changes can be made next month if needed.

5. OTHER BUSINESS AND ANNOUNCEMENTS

Commissioner Marohn will not be returning after term expires in August. Applications are now open for a new youth commissioner.

6. NEXT MEETING

The next Commission meeting is scheduled for Tuesday, August 18, 2020.

7. ADJOURNMENT

Commissioner Bouta moved to adjourn the July 21, 2020 Sustainability Commission meeting; Commissioner White seconded. Motion passed unanimously. The meeting adjourned at 9:38 p.m.



Commission Agenda Item

Originator Public Works	Item Time of Sale Energy Disclosure Presentation
Agenda Section ORGANIZATIONAL BUSINESS	Date August 18, 2020

Requested Action:

No formal action required, for informational purposes only.

Description:

[Isaac Smith](#), Residential Program Development Manager at the Center for Energy and Environment, will provide a presentation on Time of Sale Energy Disclosure.

Attachments:

[Time of Sale Energy Disclosure PowerPoint](#)



BLOOMINGTON ENERGY DISCLOSURE

Time-of-Sale Home Energy Disclosure

Isaac Smith

• Intro to time-of-sale energy disclosure

Agenda

- Background and context for energy disclosure
- Program design – How it works
- Energy disclosure report
- Bloomington savings opportunity
- Questions

Center for Energy and Environment

PROGRAMS



We cut energy waste while improving comfort in homes, commercial buildings, and communities.

RESEARCH



We identify and explore cost-effective, efficient technologies and ideas through field analysis, modeling, and stakeholder engagement.

CONSULTING



We help building owners and entire communities achieve long-term, energy-saving solutions.

POLICY



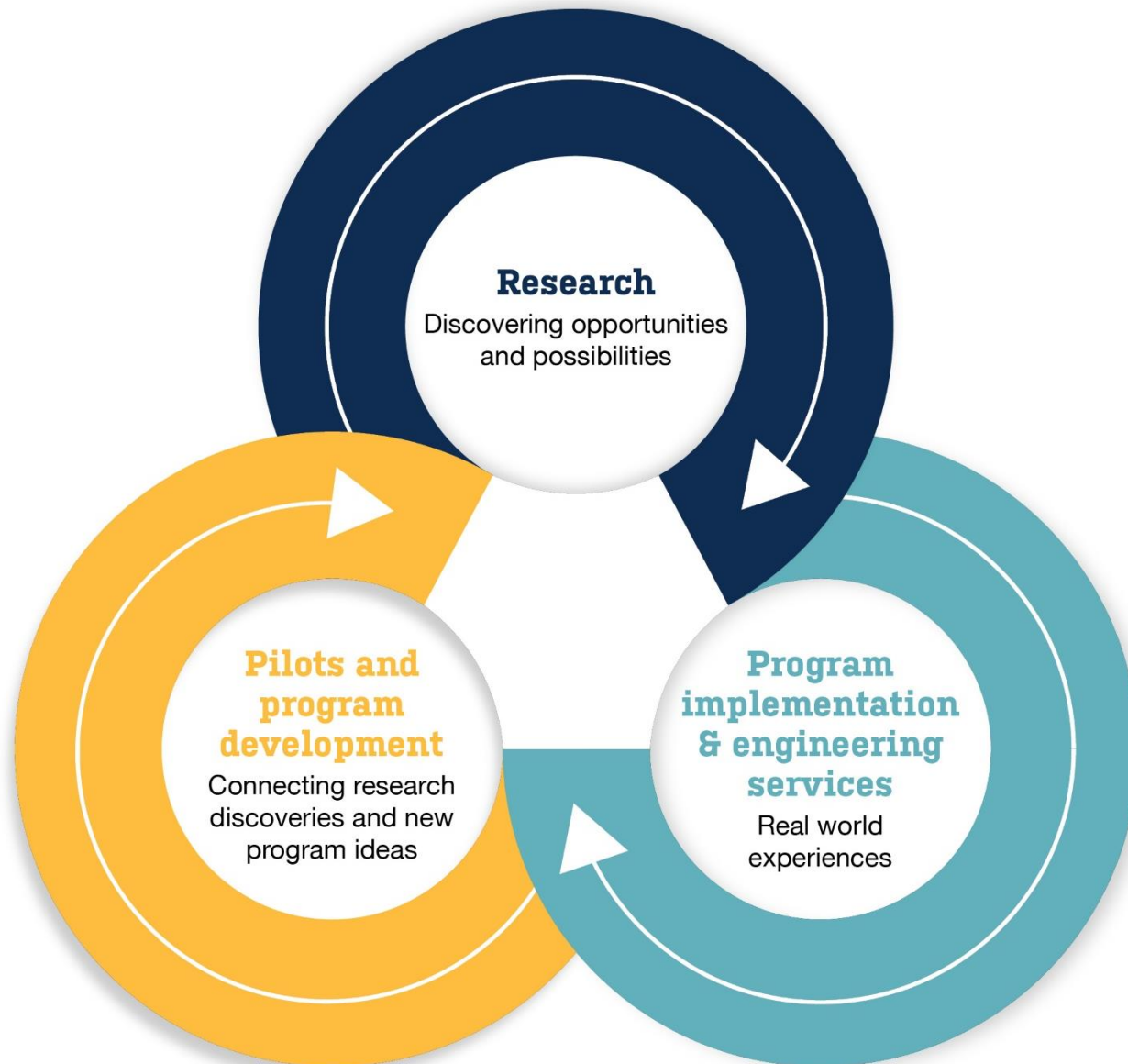
We strive for high-impact, pragmatic solutions guided by a public interest ethic.

LENDING



We empower people to make upgrades on energy efficiency and comfort in homes or businesses.

CEE – at our core





BACKGROUND ON ENERGY DISCLOSURE



What is Disclosure? Examples...



Energy Disclosure Report

Home Profile

Location:
1234 Sample Street
Minneapolis, MN 55409

Year built: 1920

House sq. ft.: 2,000

Number of stories: 2

Visit Date: 7/3/19

How It Works

The **energy score for your home** is similar to MPG for a car, but it evaluates the energy performance of the home. The higher the home scores, the lower your energy bills will be.

Improve your score by completing the energy improvements below. The improvements are prioritized by utility bill savings and project cost.

When you are ready to begin, contact an Energy Advisor at 612-244-2484. They can answer questions and connect you to helpful resources.

Financing and rebates are available from the City of Minneapolis and CenterPoint Energy to help you complete these energy improvements.

Energy Score



Home Energy Summary

The chart below prioritizes your energy improvements by utility bill savings and project cost. The points below show how much your score will improve by completing the project. Homes with the highest scores typically sell for 2-6% more.* Visit HomeEnergyHub.org.

	Energy Improvements <i>(by priority)</i>	Improvement Points	Typical Cost	Rebate	Yearly Bill Savings
Wall Insulation	Insulate your exterior walls	22	\$3,000– \$3,500	Up to \$500	\$200–\$400
Attic Insulation	Air seal and insulate your attic	19	\$2,250– \$2,750	Up to \$500	\$150–\$300
Heating System	Upgrade your furnace	10	\$3,000– \$6,000	Up to \$400	\$150–\$300
Windows	Add a storm window to your single-pane windows	6	\$50–\$60 per window	n/a	\$6–\$8 per window



Contact an Energy Advisor: 612-244-2484 or energyadvisor@mncee.org



Next Step:

Contact an Energy Advisor



Mike



Kat

612-244-2484 or energyadvisor@mncee.org

An Energy Advisor can help:



Answer your questions



Connect you to financing and utility rebates



Refer you to trusted contractors

The energy advisor service is provided by CEE with funding from CenterPoint Energy.

Energy Improvements (by priority)

Current wall
R-Value: R-4
Recommended
R-Value: R-11

Wall Insulation

Insulate your walls. Walls with little insulation are cold and drafty. Dense packing your walls with insulation will reduce home drafts and improve home comfort. This will also reduce energy waste and save money. Contact an Energy Advisor to learn more and get help with next steps.

22 improvement points

Typical Cost:
\$3,000–\$3,500

Yearly Bill Savings:
\$200–\$400

Rebate Available:
Up to \$500

Current attic
R-Value: R-20
Recommended
R-Value: R-50

Attic Insulation

Air seal and insulate your attic to improve the comfort of your home. Air leaks allow air from inside your house to enter the attic, causing ice dams and moisture issues. Sealing these leaks and adding insulation will improve your home's durability and save energy. Contact an Energy Advisor to learn more and get help with next steps.

19 improvement points

Typical Cost:
\$2,250–\$2,750

Yearly Bill Savings:
\$150–\$250

Rebate Available:
Up to \$500

Type:
Furnace
Venting:
Natural Draft
Age:
> 20 years old

Heating System

Upgrade your furnace. Your furnace is near the end of its useful life. Additionally, its basic natural draft system makes it possible for gases like carbon monoxide to spill back into your home, posing a potential risk to your indoor air quality and health. The best solution is to replace your furnace with a model that has an efficiency (AFUE) of at least 96% and an electronically commutated motor (ECM). This upgrade will modernize your heating system, properly remove combusted gases from your home, and maximize your energy savings.

10 improvement points

Typical Cost:
\$3,000–\$6,000

Yearly Bill Savings:
\$150–\$300

Rebate Available:
Up to \$400

of single pane windows: 2

Windows

Install a storm window on the exterior of single-pane windows to cost-effectively reduce your energy usage. Although generally not justified by the energy savings alone, you may also consider replacing single-pane windows with double-paned, high efficiency, ENERGY STAR rated windows.

6 improvement points

Typical Cost:
\$50–\$60 per window

Yearly Bill Savings:
\$6–\$8/window

Rebate Available:
n/a

XXXXXXXXXXXXXXXXXXXX

* The typical cost for each project is calculated by taking the average of thousands of homes of a similar age and construction. The estimated savings is the average reported savings for homes that received a utility rebate. Actual cost and savings may vary. Please contact an Energy Advisor if you have questions.

** 2013 EU Study showed an appreciation of 2%-6% for homes that scored higher through their disclosure policy.

• For more information, visit www.ftc.gov/appliances.



•• Goals of Energy Disclosure

- **A more informed market – make energy visible!**
 - Education - create awareness about home energy performance
 - Outline path towards home energy improvement
- **Reward homeowners that have completed energy improvements**
 - These upgrades are currently ‘hidden’ from the market
- **Spur investment in energy improvements**
 - Provide resources for homeowners to make improvements

• Why energy disclosure in Bloomington?

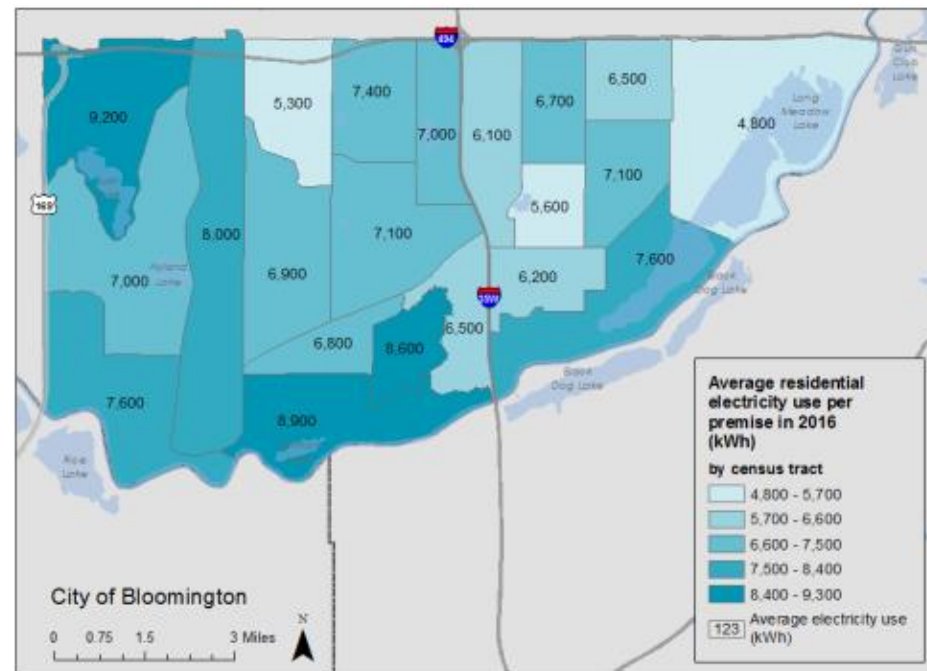
- Climate goals - 75% reduction in GHG by 2035
- Residential units contribute to 30% of Bloomington's GHG emissions
 - 44% of community-wide natural gas consumption
 - 20% of community-wide electricity consumption

An Energy Action Plan for **Bloomington, MN**



• Housing Affordability and Resiliency

- Understanding the total cost of ownership
- Average MN household spends ~\$1,800 per year on energy
 - Can be reduced by 30% through cost-effective energy upgrades
- Building envelope upgrades equate to more resilient homes
 - Comfortable and affordable during polar vortexes, extreme heat events, and severe weather





MINNEAPOLIS EXAMPLE - TISH ENERGY DISCLOSURE

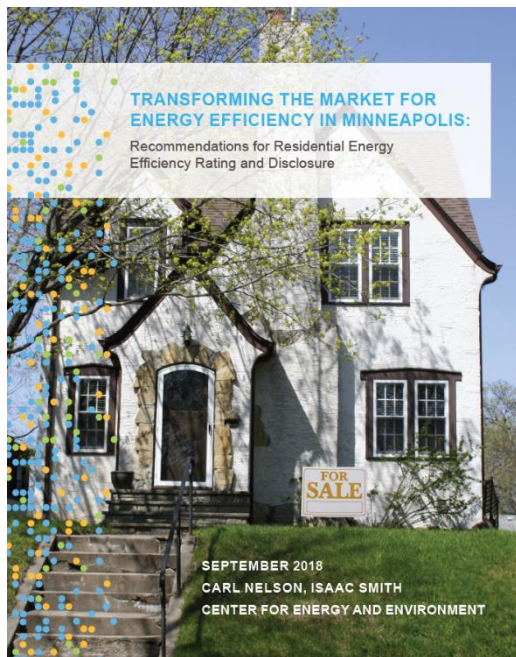
Program Design and How it Works



• Home Energy Disclosure Research

Report

- Evaluated disclosure options
 - Reviewed similar policies



Finding

- Asset rating grounded in cost-effective upgrades
- Highly visible to market
- Link to utility programs, City resources and financing
- Incorporate into existing time of sale inspection

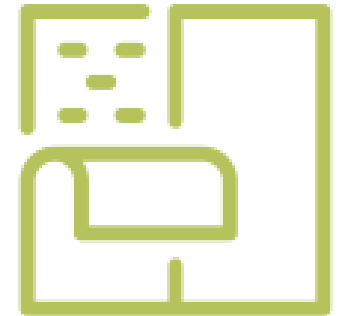
• Program Design

- Energy score is designed for existing housing stock
 - Motivate homeowner to make improvements
 - Every home can achieve the top score of 100
- Provide recommendations and resources for improving home efficiency
 - Prioritizes recommendations, outlines project cost, utility rebates

Focused on 4 areas with highest energy savings



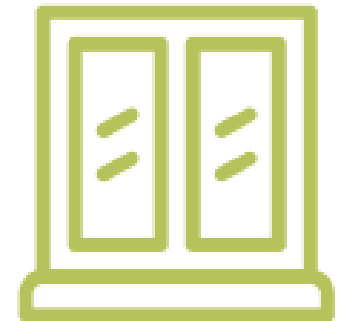
Attic Insulation



Wall Insulation



Heating System



Storm Windows

•• How It Works

- Incorporate into TISH program
 - Low-cost implementation – for City and home-sellers
 - Leverages existing City processes and staff

Collect additional energy data during TISH inspection

Generate Energy Disclosure Report

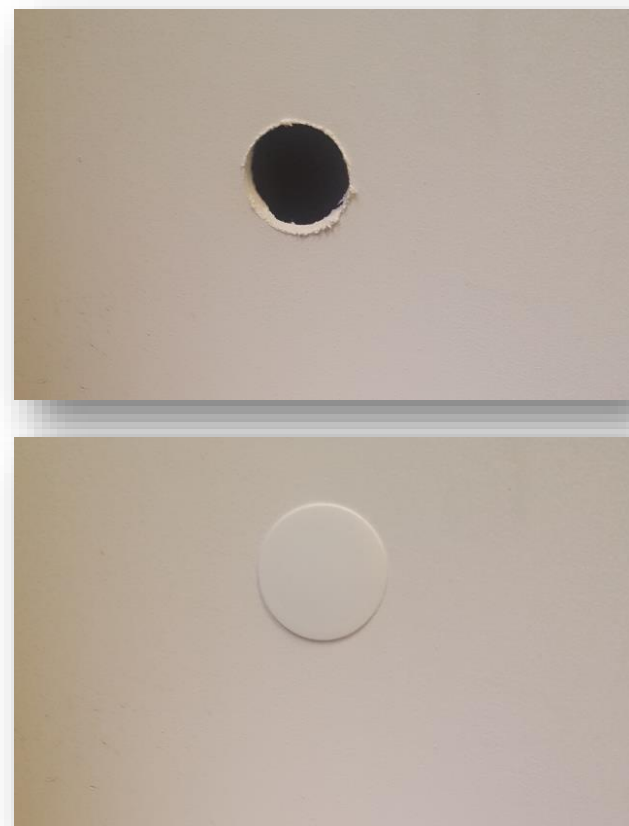
Follow TOS requirements -
Disclose info to buyers

•• TOS Energy Data Collection

Category	Bloomington Currently Requires	Additional Data Collection
Attic Insulation	<ul style="list-style-type: none">- Evaluate rafters, moisture issues, electrical	<ul style="list-style-type: none">- Attic Type- Insulation Type- Inches
Heating System	<ul style="list-style-type: none">- Heating system Type- Evaluate venting system	<ul style="list-style-type: none">- Record venting type: natural draft, induced draft, or sealed- Age: over/under 20 years old
Windows	<ul style="list-style-type: none">- Evaluate frame, screen, glass	<ul style="list-style-type: none">- Number of single-pane windows w/out storm windows
Walls	<ul style="list-style-type: none">- Evaluate structural condition	<ul style="list-style-type: none">- Drill hole to record insulation type and number of inches- Required for pre-1980's homes

•• Wall Insulation Inspection

- Biggest change to TISH evaluation
 - Adds ~15 minutes to inspection
- Small 2" hole drilled
 - Standard energy audit procedure
 - Completed in 8,000 homes per year
 - Identify insulation type and inches
 - Hole capped
- Discrete location with exterior facing wall
 - Typically a closet



❖ Wall Insulation – Energy Savings

- Wall insulation is the largest energy savings opportunity
- 25% of metro-area homes don't have any wall insulation



- Densepack insulation lowers overall air leakage of home, making it quieter and more comfortable.



ENERGY DISCLOSURE REPORT



•• Energy Disclosure Report



Energy Disclosure Report

Home Profile

Location:
1234 Sample Street
Minneapolis, MN 55409

Year built: 1920

House sq. ft.: 2,000

Number of stories: 2

Visit Date: 7/3/19

How It Works

The energy score for your home is similar to MPG for a car, but it evaluates the energy performance of the home. The higher the home scores, the lower your energy bills will be.

Improve your score by completing the energy improvements below. The improvements are prioritized by utility bill savings and project cost.

When you are ready to begin, contact an Energy Advisor at 612-244-2484. They can answer questions and connect you to helpful resources.

Financing and rebates are available from the City of Minneapolis and CenterPoint Energy to help you complete these energy improvements.

Energy Score



Home Energy Summary

The chart below prioritizes your energy improvements by utility bill savings and project cost. The points below show how much your score will improve by completing the project. Homes with the highest scores typically sell for 2-6% more. Want to learn more about these projects? Visit HomeEnergyHub.org.

	Energy Improvements (by priority)	Improvement Points	Typical Cost	Rebate	Yearly Bill Savings
Wall Insulation	Insulate your exterior walls	22	\$3,000–\$3,500	Up to \$500	\$200–\$400
Attic Insulation	Air seal and insulate your attic	19	\$2,250–\$2,750	Up to \$500	\$150–\$300
Heating System	Upgrade your furnace	10	\$3,000–\$6,000	Up to \$400	\$150–\$300
Windows	Add a storm window to your single-pane windows	6	\$50–\$60 per window	n/a	\$6–\$8 per window



Contact an Energy Advisor: **612-244-2484** or energyadvisor@mncee.org



- Energy Score
 - Understand energy performance and compare homes
- Recommendations
 - Outline energy saving opportunities
- Resources
 - Energy Advisors
 - Utility rebates
 - Low-interest financing

•• Energy Report – Home Summary

Recommendations



**Simple and prioritized
next steps**



**Information on cost
and energy savings**

Resources



**Utility programs
and rebates**



**City financing
and resources**

• Energy Report – Home Summary

Home Energy Summary

The energy improvements below are prioritized by utility bill savings and project cost. The points below show how much your score will improve by completing the project. Visit [HomeEnergyHub.org](https://www.HomeEnergyHub.org) to learn more about these projects.

	Energy Improvements (by priority)	Improvement Points	Typical Cost	Rebate	Yearly Bill Savings
Wall Insulation	Insulate your exterior walls	20	\$2,100– \$2,300	Up to \$500	\$200–\$400
Attic Insulation	Air seal and insulate your attic	16	\$1,900– \$2,200	Up to \$500	\$150–\$300
Heating System	Upgrade your furnace when it's 20 years old	13	\$3,500– \$6,000	Up to \$500	\$150–\$300
Windows	Add a storm window to your single-pane windows	2	\$50–\$60 per window	————	\$6–\$8 per window

•• Recommendation Detail

Energy Improvements *(by priority)*

Current Wall

R-Value: R-3

Recommended

R-Value: R-11

Wall Insulation

20 improvement points

Insulate your walls. Walls with little insulation are cold and drafty. Dense packing your walls with insulation will reduce home drafts and improve home comfort. This will also reduce energy waste and save money. Contact an Energy Advisor to learn more and get help with next steps.

Typical Cost:*

\$2,100–\$2,300

Yearly Bill Savings:*

\$200–\$400

Rebate Available:

Up to \$500

Current Attic

R-Value: R-15

Recommended

R-Value: R-50

Attic Insulation

16 improvement points

Air seal and insulate your attic to improve the comfort of your home. Air leaks allow air from inside your house to enter the attic, potentially causing comfort issues, ice dams and moisture issues. Sealing these leaks and adding insulation will improve your home's durability and save energy. Contact an Energy Advisor to learn more and get help with next steps.

Typical Cost:*

\$1,900–\$2,200

Yearly Bill Savings:*

\$150–\$300

Rebate Available:

Up to \$500

•• Energy Report Resources

- Simplified next step
 - Only 1 person to contact
- Resource for realtors, homeowners, TOS evaluators

Next Step:

Contact an Energy Advisor



Mike



Kat

651-328-6225 or
energyadvisor@mncee.org

An Energy Advisor can help:



Answer your
questions



Connect you to financing
and utility rebates



Refer you to
trusted contractors

The energy advisor service is provided by CEE with funding from CenterPoint Energy.

• Energy Advisor Service

- Connection between information and action



Energy Disclosure Report Example



Home Profile

Location:
1234 Sample Street
Minneapolis, MN 55409

Year built: 1920

House sq. ft.: 2,000

Number of stories: 2

Visit Date: 7/3/19

Energy Disclosure Report

How It Works

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cee
CenterPoint Energy

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Answer your questions



Connect you to financing and utility rebates



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Energy Improvements (by priority)

Current wall
R-Value: R-4
Recommended
R-Value: R-11

Wall Insulation

Insulate your walls. Walls with little insulation are cold and drafty. Dense packing your walls with insulation will reduce home drafts and improve home comfort. This will also reduce energy waste and save money. Contact an Energy Advisor to learn more and get help with next steps.

22 improvement points

Typical Cost:†
\$3,000–\$3,500

Yearly Bill Savings:†
\$200–\$400

Rebate Available:
Up to \$500

Current attic
R-Value: R-20
Recommended
R-Value: R-50

Attic Insulation

Air seal and insulate your attic to improve the comfort of your home. Air leaks allow air from inside your house to enter the attic, causing ice dams and moisture issues. Sealing these leaks and adding insulation will improve your home's durability and save energy. Contact an Energy Advisor to learn more and get help with next steps.

19 improvement points

Typical Cost:†
\$2,250–\$2,750

Yearly Bill Savings:†
\$150–\$250

Rebate Available:
Up to \$500

Type:
Furnace
Venting:
Natural Draft
Age:
> 20 years old

Heating System

Upgrade your furnace. Your furnace is near the end of its useful life. Additionally, its basic natural draft system makes it possible for gases like carbon monoxide to spill back into your home, posing a potential risk to your indoor air quality and health. The best solution is to replace your furnace with a model that has an efficiency (AFUE) of at least 96% and an electronically commutated motor (ECM). This upgrade will modernize your heating system, properly remove combusted gases from your home, and maximize your energy savings.

10 improvement points

Typical Cost:†
\$3,000–\$6,000

Yearly Bill Savings:†
\$150–\$300

Rebate Available:
Up to \$400

of single pane
windows: 2

Windows

Install a storm window on the exterior of single-pane windows to cost-effectively reduce your energy usage. Although generally not justified by the energy savings alone, you may also consider replacing single-pane windows with double-paned, high efficiency, ENERGY STAR rated windows.

6 improvement points

Typical Cost:†
\$50–\$60 per window

Yearly Bill Savings:†
\$6–\$8/window

Rebate Available:
n/a

XXXXXXXXXXXXXXXXXXXX

* The typical cost for each project is calculated by taking the average of thousands of homes of a similar age and construction. The estimated savings is the average reported savings for homes that received a utility rebate. Actual cost and savings may vary. Please contact an Energy Advisor if you have questions.

** 2013 EU Study showed an appreciation of 2%-6% for homes that scored higher through their disclosure policy.



THE OPPORTUNITY IN BLOOMINGTON



•• Achieving City Goals

Energy Disclosure Market

- 23,468 single family homes
 - 44% of community-wide natural gas use
- 2018 – 226 HES visits
- 2018 – 1,275 home sales

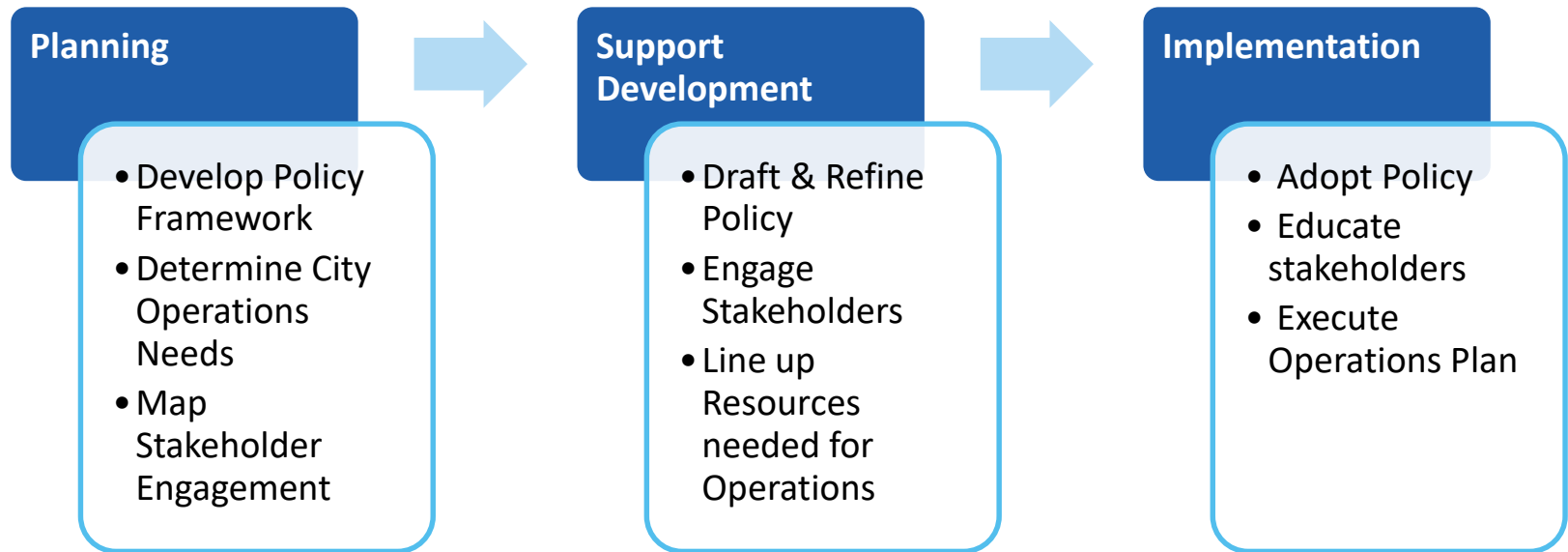
Benefits

- Education and community awareness
- Spur investment in energy improvements
- Reduce residential natural gas use
- Reduce energy cost for residents
- Improve existing housing stock

•• How to get started

CEE can help:

- Guide a planning process with a city-defined planning team for the three major components





QUESTIONS?

Isaac Smith – ismith@mncee.org – 612-335-3483

The Research Says: Homebuyers Value Energy Efficiency

Studies Show a Sales Premium of:



2% to 6% for designated energy efficient homes ^{1, 2, 3, 7, 12}



\$2.99 to \$13.82 per square foot for every dollar saved on annual electricity bills from efficiency investments ^{1, 5, 10, 15}



\$3,416 to \$8,882 for designated energy efficient homes ^{4, 8, 9, 12, 13, 14, 15}



Designated energy efficient

VS.



Comparable home

Sources: ¹Argeris, 2010; ²Brown & Watkins, 2016; ³Cadena & Thomson, 2015; ⁴Carson Matthews, 2009; ⁵Dinan & Miranowski, 1989; ⁶Elevate Energy, 2015; ⁷Griffin, 2009; ⁸Goodman & Zhu, 2016; ⁹Halvorsen & Pollakowski 1981; ¹⁰Horowitz & Haeri, 1990; ¹¹Institute for Market Transformation, 2015; ¹²Kahn & Kok, 2013; ¹³Laquatra, 1986; ¹⁴Longstreth, 1986; ¹⁵Pfleger et al., 2011.

Studies Nationwide Show Energy Efficient Homes Sell for More, Faster

Certified homes sell for 9.6% more⁶

Certified homes sell for 4.2% more & 18 days faster⁶

Certified homes sell for 2.1 to 5.3% more⁹

PACE homes delivered \$199 to \$8,882 in savings above cost of improvements⁷

Homes that disclose energy costs sold 20 days faster⁵

Homes that use "green" fields consistently perform better on market indicators⁸

ENERGY STAR homes sold at \$5,566 premium at \$2.99 per ft² more, & 89 days faster¹⁰

New certified homes sold for 12.9% more, \$13.82 per ft² more, & 42 days faster¹

Homes designated relatively energy efficient sold for an average \$3,416 premium⁴

Certified homes sold for a higher percentage of their asking price & 31 days faster²

Houses with one or more green element sell for 5.9% more³

Sources: ¹Argeris, 2010; ²Cadena & Thomson, 2015; ³Carson Matthews, 2009; ⁴Corgel, Goebel, & Wade, 1982; ⁵Elevate Energy, 2015;

⁶Griffin, 2009; ⁷Goodman & Zhu, 2016; ⁸Institute for Market Transformation, 2015; ⁹Kahn & Kok, 2013; ¹⁰Pflegler et al., 2011.

7



Commission Agenda Item

Originator Public Works	Item Climate Crisis Resolution
Agenda Section ORGANIZATIONAL BUSINESS	Date August 18, 2020

Requested Action:

Provide feedback on draft resolution.

Description:

Chair Sandry provides updates on draft climate crisis resolution.

Attachments:

[Approved Bloomington Energy Action Plan](#)
[Draft Climate Crisis Resolution v2](#)
[Draft Climate Crisis Resolution v1](#)

An Energy Action Plan for **Bloomington, MN**



May 7, 2018

Acknowledgements

Thanks to the following organizations and individuals for participating in developing this Energy Action Plan.

Bloomington's Energy Action Planning Team

The planning team represented various stakeholder groups, including City staff, Bloomington Sustainability Commission members, local organizations and businesses, committed community members, and energy utilities.

City Staff

- **Dave Hanson**, Parks Department
- **Jason Schmidt**, Economic Development Analyst, Bloomington Port Authority
- **Jen Desrude**, Development Coordinator
- **Mary Hurliman**, Deputy Director, Public Works
- **Scott Anderson**, Facilities and Maintenance Supervisor

Sustainability Commission Members

- **Joe Strommen**, Commissioner
- **Rob Bouta**, Commissioner
- **Sherie Bartsh**, Commissioner
- **Steve Flagg**, Commissioner

Bloomington Residents

- **Don Bailey**, Bloomington Resident
- **Mark Rader**, Bloomington Resident
- **Monica Bence**, Bloomington Resident

Business Representatives

- **Bill Coldwell**, Facility Development and Asset Manager, Donaldson
- **Dana Slade**, Director, Sustainability Programs, HealthPartners
- **Dave Smith**, Quality Bike Products
- **Narvel Brooks**, Account Executive, OATI
- **Melissa Madison**, Executive Director, Commuter Services, 494 Corridor Initiative
- **Steve Zeller**, Director of Global Real Estate, Donaldson
- **Tom Rabiola**, Director of Operations, Mall of America

Education Representatives

- **Jon Hanson**, State Program Supervisor, Normandale Community College
- **Tim Rybak**, Director of Operations, ISD 271

Energy Utility Representatives

- **Emma Struss**, Partners in Energy Lead Facilitator
- **Jamie Johnson**, Partners in Energy Facilitator
- **Tami Gunderzik**, Partners in Energy Program Manager
- **Yvonne Pfeifer**, Community Energy Efficiency Manager, Xcel Energy
- **Nick Mark**, CenterPoint Energy

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Executive Summary

This plan, developed by and for the community, supports One Bloomington and its strategic priorities by outlining how the City can responsibly address climate change through energy efficiency and renewable energy. Successful implementation will result in improved public health, a stronger economy, increased resiliency, and less pollution. The plan proposes a number of goals and strategies. Specific budget items will be brought forward annually for Council consideration, during the budget process.

Our Goals

Community Energy Goal

75% reduction in city-wide energy-related greenhouse gas emissions by 2035, relative to 2016 levels

Electricity Goal

95% reduction in city-wide electricity-related greenhouse gas emissions by 2035, relative to 2016 levels

Natural Gas

33% reduction in city-wide natural gas-related greenhouse gas emissions by 2035, relative to 2016 levels

Transportation

Pursue all viable opportunities for promoting the elimination of vehicle emissions, including support for electric vehicles, increased public transportation, higher-density and mixed-use zoning, additional biking and pedestrian infrastructure, and telecommuting

Focus Areas

Near-term Energy Focus Areas (Begin in the next 2 years)

- Business energy efficiency and renewable energy
- Electric vehicles (EVs)
- Municipal energy – City of Bloomington SolSmart participation and public building efficiency
- Residential energy efficiency and renewable energy

Long-term Energy Focus Areas (Begin after 2 years)

- Continue the implementation and momentum of successful residential, business, and municipal and electric vehicle initiatives launched prior to 2020
- Explore and promote onsite renewable energy opportunities
- Identify energy efficiency and renewable energy opportunities in new construction
- Increase bicycle use and safety
- Increase the use of mass transit and shift away from single-occupancy vehicles

Near-term Priorities and Goals

Business

By 2020:

- Have 70 businesses participate in an energy audit or recommissioning study
- Double baseline energy efficiency program participation
- Sign up an additional 10 businesses in Bloomington for Xcel Energy's Windsource[®] program, Renewable Connect[®] program, or a community solar garden subscription

Municipal

- Hire a full-time sustainability professional, responsible for reducing both municipal and city-wide greenhouse gas emissions
- Benchmark city facility energy use and develop a strategic plan for identifying savings opportunities and begin plan implementation
- Join SolSmart and review city practices around solar

Residential

- Sign up 850 households for Home Energy Squad[®] visits in Bloomington – 350 in 2018 and 500 in 2019
- Sign up an additional 850 households in Bloomington for Xcel Energy's Windsource or Renewable Connect programs – 350 in (2018) and 500 in (2019)
- Have at least four Bloomington multifamily buildings engage in energy efficiency programs annually, during 2018 and 2019

Electric Vehicles

- Aid in the acceleration of electric vehicle (EV) adoption by installing two-five EV chargers at popular municipal locations (e.g. parks) throughout the city

Xcel Energy's Partners in Energy

Xcel Energy is the electric utility serving the City of Bloomington. In the summer of 2014, Xcel Energy launched Partners in Energy to support communities like Bloomington in developing and implementing energy action plans that supplement existing sustainability plans, strategies, and tools. The content of this plan is derived from a series of planning workshops held in the community with a planning team committed to representing local energy priorities and advising Bloomington's Sustainability Commission on energy matters.

Figure 1. Partners in Energy Process for Success



Application

The City of Bloomington applied to participate in Xcel Energy's Partners in Energy offering in 2016 and was accepted into the spring 2017 round of participants. The memorandum of understanding between Xcel Energy and the City of Bloomington for the planning phase of Partners in Energy support can be found in Appendix 2.

Figure 2. Partners in Energy Application

APPLICATION
COLORADO | MINNESOTA

Xcel Energy
PARTNERS IN ENERGY
AN XCEL ENERGY COMMUNITY PARTNERSHIP

Partners in Energy

Partners in Energy offers tools and expertise to support communities as they develop and implement Energy Action Plans. These Energy Action Plans belong to the communities and describe roadmaps for successfully achieving their energy goals, including reducing greenhouse gas emissions and the impacts of climate change. As with other planning documents in a community, the Energy Action Plans and associated work products will be public and can be shared with community members and other communities who may be participating in or considering Partners in Energy.

Partners in Energy is offered at no cost to participating communities, with the expectation that both the Xcel Energy and the community will invest in the process. The investment includes staff and financial resources for Xcel Energy to help with the planning and implementation phases, as well as the community providing staff time during both the planning and implementation phases and financial support for the implementation of the plan.

Xcel Energy wants to work with motivated, engaged, and action-oriented communities and champions who are willing to commit to the process and the outcomes. This application will help us better determine good community alignment for our limited, but valuable, resources. While completing the application there are no guarantees of acceptance as a participant, your application will be evaluated against other applications using criteria that include, but may not be limited to, community size and structure, planning experience, stakeholder capacity, available resources (staff and otherwise), and willingness to share results publicly.

If you have questions about the application or the opportunity, please visit xcelenergy.com/partnersinenergy or email us at PartnersInEnergy@xcelenergy.com or call 1-800-360-4362.

SUBMIT COMPLETED APPLICATION VIA EMAIL TO: PartnersInEnergy@xcelenergy.com. Return this application by 5:00 p.m. CST on October 16, 2016.

Qualifying Customers
Communities in Colorado and Minnesota with retail energy services from Xcel Energy qualify to participate in Partners in Energy.

COMMUNITY CUSTOMER INFORMATION
Community name: City of Bloomington, Minnesota
Community jurisdiction (e.g., city, association, partnership, county): City
Contact name: Elizabeth Tolzmann
Title: Assistant City Manager Phone: 952-563-8780
Address: 1800 West Old Shakopee Road
City: Bloomington, MN 55431 Email: etolzmann@bloomingtonmn.gov

COMMUNITY PROFILE
Approximate business count: 3,881 (<http://www.mnstate.com/>) Approximate household count: 37,641
Approximate population: 86,435
Approximate area in square miles: 38.3

Would you be able to provide a GIS shapefile of your community that would define the geographic boundaries of the area?
() Yes () No

PAGE 1 OF 4

Energy Action Team

Bloomington's Sustainability Commission recruited the Energy Action Team that developed this plan's content. The core team was made up of twenty-five members with connections to Bloomington business groups and associations, City departments, congregations, energy utilities, local clubs and community groups, industrial businesses, institutions and corporations, neighborhoods, the school district, and small and medium-sized businesses. Most Energy Action Team members self-identified their energy literacy to be intermediate or advanced. Energy Action Team members attended five planning workshops over the course of six months.

The team's role was to advise Bloomington's Sustainability Commission on the goals, focus areas, and strategies found in this plan. Team members were also encouraged to think about how they could assist with plan implementation. In addition to the core Energy Action Team, local subject experts and City staff members were invited to join the final two workshops to help with the action planning process.

Figure 3. Energy Action Team at Workshop 1



Planning Workshops

Figure 4. Energy Action Team at first planning workshop



Partners in Energy Workshop Process

Workshop 1 August 22, 2017	<ul style="list-style-type: none">• Team introductions and Partners in Energy process overview• Reviewed baseline energy data and past city and community energy initiatives.• Discussed One Bloomington, goals, and a vision for the Energy Action Plan.
Workshop 2 October 4, 2017	<ul style="list-style-type: none">• Discussed background information, opportunities, and prioritization of the focus areas that emerged from workshop 1 and the pre-workshop 2 survey.• Introduced the group to the goal setting process and sample community goals.
Workshop 3 November 7, 2017	<ul style="list-style-type: none">• Examined the Sustainability Commission's greenhouse gas emission goals and feasibility for Bloomington. Were introduced to additional data on electric vehicles and greenhouse gas emissions.• Broke into focus area groups and began discussing strategies for the focus areas.
Workshop 4 December 12, 2017	<ul style="list-style-type: none">• Brainstormed strategies for each near-term focus area.• Completed an impact and feasibility assessment for proposed focus area strategies.• Discussed implementation resource requirements.
Workshop 5 January 23, 2017	<ul style="list-style-type: none">• Broke into focus area groups, refined focus area goals and strategies, and highlighted implementers and timelines for each focus area strategy.• Assessed necessary City, Partners in Energy, and community resources for implementation of plan strategies.• Completed a SWOT (strengths, weakness, opportunities, threats) analysis of the Energy Action Plan.

Energy Data

An integral part of the energy planning workshops was the energy and program participation data provided by Xcel Energy and CenterPoint Energy. These data enabled the Energy Action Team to decide where to focus Bloomington's energy efforts and allowed the team to forecast the impact of proposed energy goals.

Energy Data Sources

Energy data specific to the City of Bloomington documented in this plan comes from two sources. As Bloomington's sole natural gas utility provider, CenterPoint Energy provided natural gas Conservation Improvement Program participation and consumption data. As Bloomington's sole electricity utility provider, Xcel Energy provided electricity consumption and energy program participation data. Baseline data was sourced from three years (2014-2016).

15x15 Rule

The electricity data in this plan complies with Xcel Energy's 15 x15 privacy rules, which require all data summary statistics to contain at least 15 entities, with no single entity responsible for more than 15% of the total. Following these rules, if an entity is responsible for more than 15% of the total for that data set, they are removed from the summary.

Plan Implementation Support

Partners in Energy will work with the City of Bloomington to coordinate support for implementing the plan. A Memorandum of Understanding will be developed that outlines specific support Xcel Energy will provide to help the City of Bloomington deploy its strategies and achieve its goals during the first 18 months of plan implementation.

Figure 5. Resources from Xcel Energy for plan implementation



Energy Action Plan

This plan, developed by and for the community, supports One Bloomington and its strategic priorities by outlining how the city can responsibly address climate change through energy efficiency and renewable energy. Successful implementation will result in improved public health, a stronger economy, increased resiliency, and less pollution.



Why an Energy Action Plan?

The City of Bloomington has a responsibility to proactively address climate change to prevent undue harm toward future generations. Decreasing greenhouse gas (GHG) emissions related to the energy sector will have a significant impact — both now and in the future.

The energy actions outlined in this plan should help the City:

- Move Bloomington towards a low-carbon economy
- Increase the city's resiliency
- Improve the health and well-being of those who live and work in Bloomington (increase livability)
- Bring awareness about easy ways residents and businesses can take energy actions

The Energy Action Team also felt it was important that the content of this plan:

- Tie back to the City's One Bloomington six strategic priorities
- Be developed in a collaborative, grassroots way; created by and for the community
- Prioritize innovation and explore new technology

One Bloomington Vision Statement

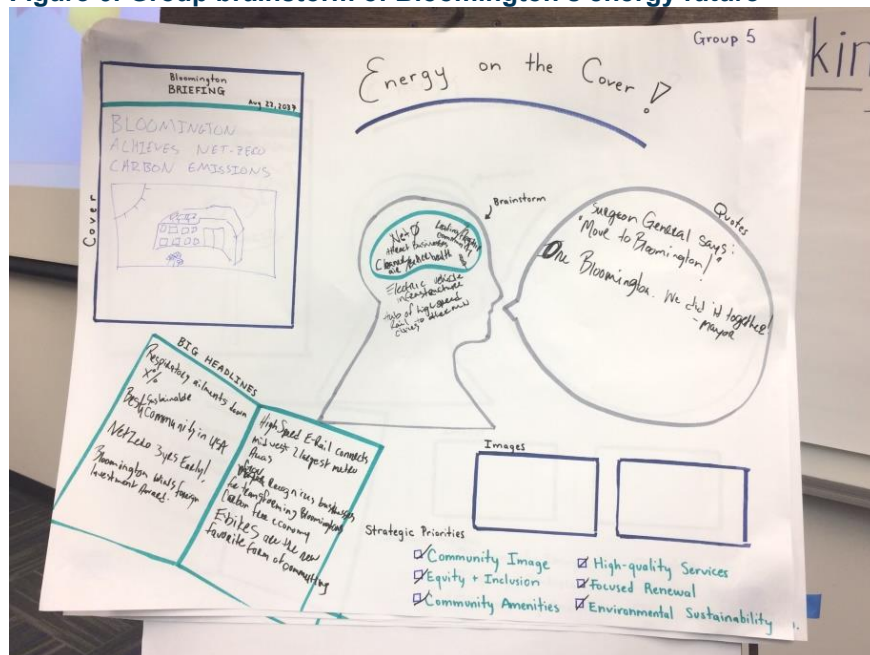
We are a community that includes all residents, working together to accomplish the same goals. We live in different neighborhoods, but we're not defined by boundaries. We are united, not by sameness, but by our desire to build a strong community that we can all enjoy. We are One Bloomington.

Where is Bloomington Going? – Energy Vision, Energy Goals, and Strategic Priorities

Energy Vision

During the first workshop, Bloomington's Energy Action Team took time to brainstorm snapshots of what their ideal energy future looks like. The themes that surfaced from that discussion included transportation, renewable energy, commercial energy efficiency, and benchmarking. These themes inspired the development of the focus areas and strategies outlined later in the plan.

Figure 6: Group brainstorm of Bloomington's energy future



Energy Goals

How is Bloomington Using Energy?

Gas and Electric Premises

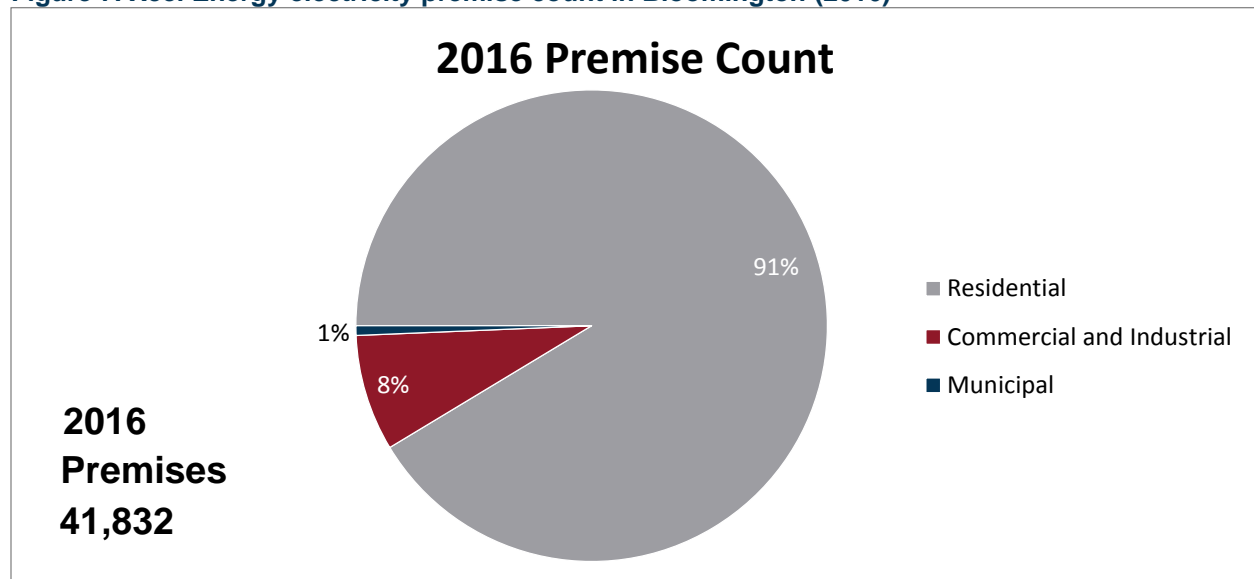
In 2016, Bloomington had nearly 42,000 electric premises and over 30,000 natural gas premises within the city limits.¹ A breakdown of the city's electric premises by sector is shown in Figure 7 below. Municipal premises from city operations are separated from commercial and industrial premises in the data shown.

The premise distribution for gas premises in 2016 was similar to that of electric premises. In 2016, there were 30,295 natural gas premises served by CenterPoint Energy in the City of Bloomington. Of those, 8% were commercial and industrial premises, and the remaining 92% were residential premises.

It is important to note that multifamily buildings can be represented as either residential or commercial premises, or a combination of both, depending on how they are metered. If units are individually metered, those units would be counted as residential premises. If buildings have a common meter, or a separate meter for common areas, that would be counted as a commercial premise. For example, a 20-unit building that is metered individually for electric service, but has one common meter for natural gas service, would count as 20 residential electric premises and one commercial natural gas premise.

¹ A premise is a unique identifier for the location of an energy service.

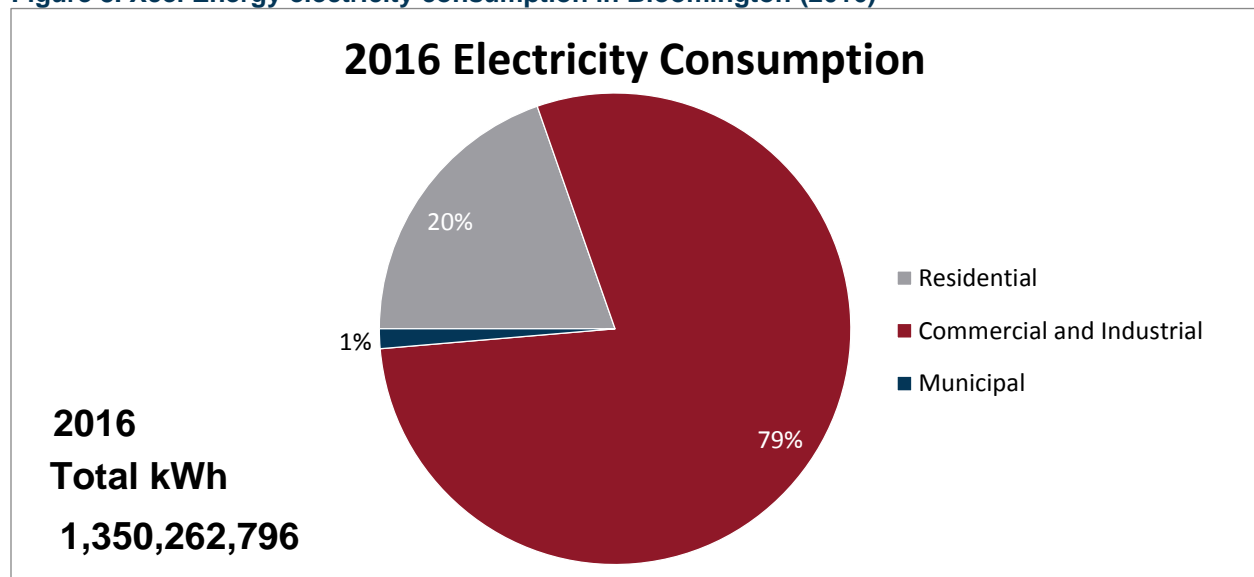
Figure 7. Xcel Energy electricity premise count in Bloomington (2016)



Electricity Consumption by Sector

While commercial and industrial premises make up only 8% of electric premises, they consume nearly 80% of the city's total electricity consumption. This is outlined in Figure 8 (below).

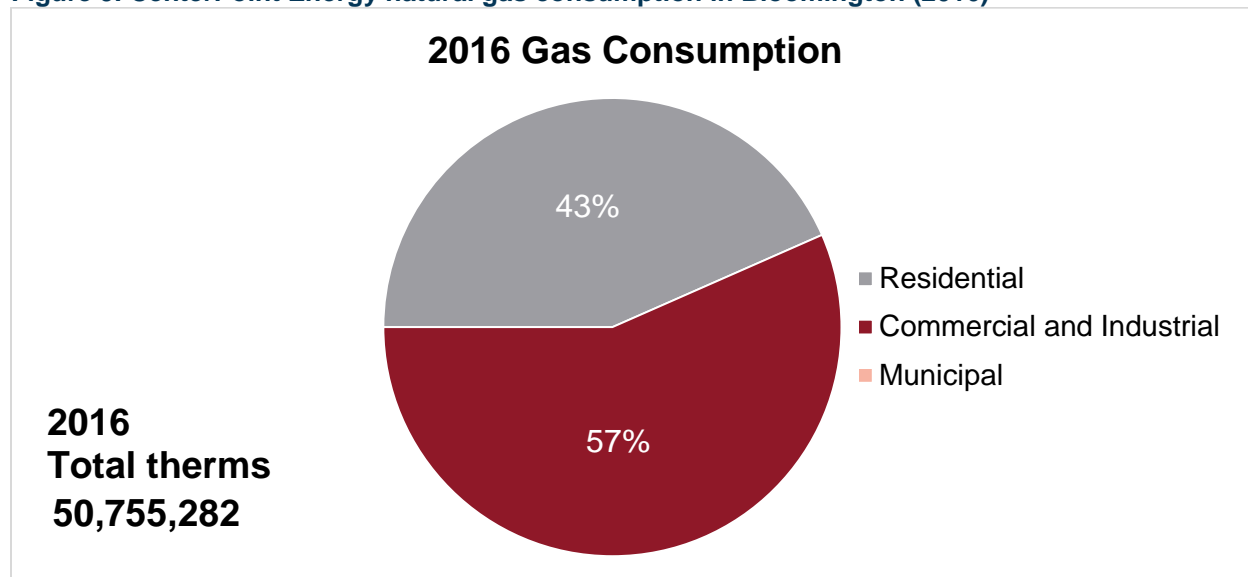
Figure 8. Xcel Energy electricity consumption in Bloomington (2016)



Natural Gas Consumption by Sector

In 2016, Bloomington residents consumed 22,029,489 therms of natural gas and commercial/industrial users consumed 28,725,793 therms. This natural gas consumption breakdown is shown in Figure 9 (below).

Figure 9. CenterPoint Energy natural gas consumption in Bloomington (2016)



Greenhouse Gas Emissions and Trends (2014-2016)

The Bloomington Energy Action Team decided to structure many of their goals in terms of reductions in greenhouse gas emissions. Baseline greenhouse gas emissions data and trends are shown below. “Municipal” on the greenhouse gas charts includes only emissions from electricity.² Figure 10 demonstrates that a majority – over 70% – of greenhouse gas emissions from electricity and natural gas came from the commercial and industrial sector in 2016.

² An emissions factor, as used in this plan, is a measure of the average amount of a greenhouse gas released into the atmosphere by the specific fuel or source (natural gas and electricity). Greenhouse gas emissions are measured in metric tons of carbon dioxide equivalent (MTCO₂e).

Figure 10. Greenhouse gas emissions from natural gas and electricity (2016)

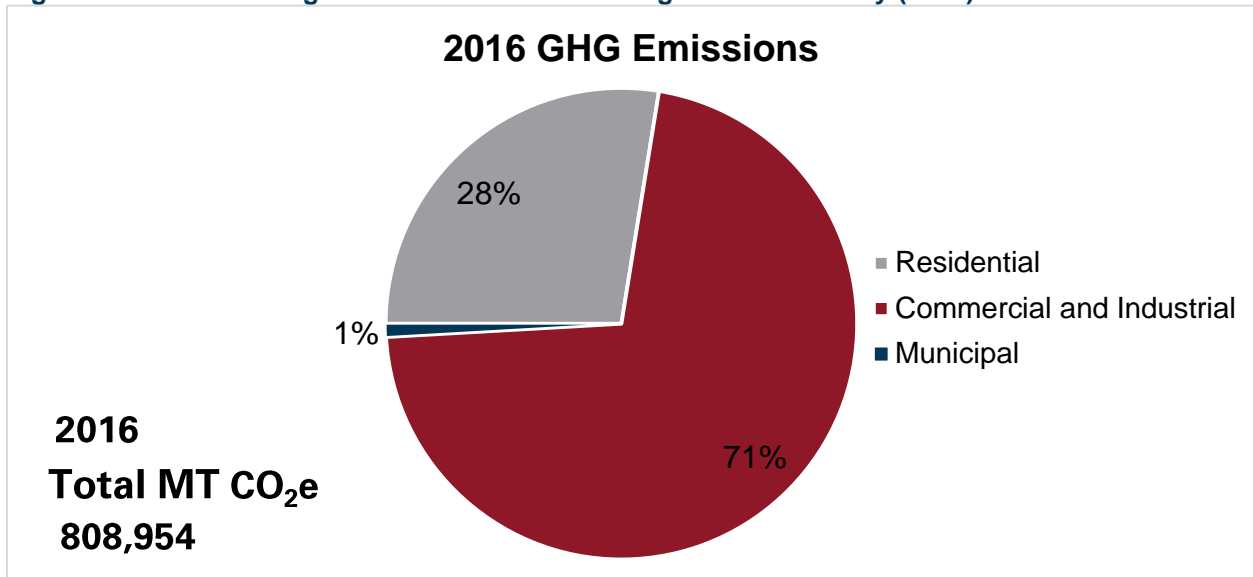
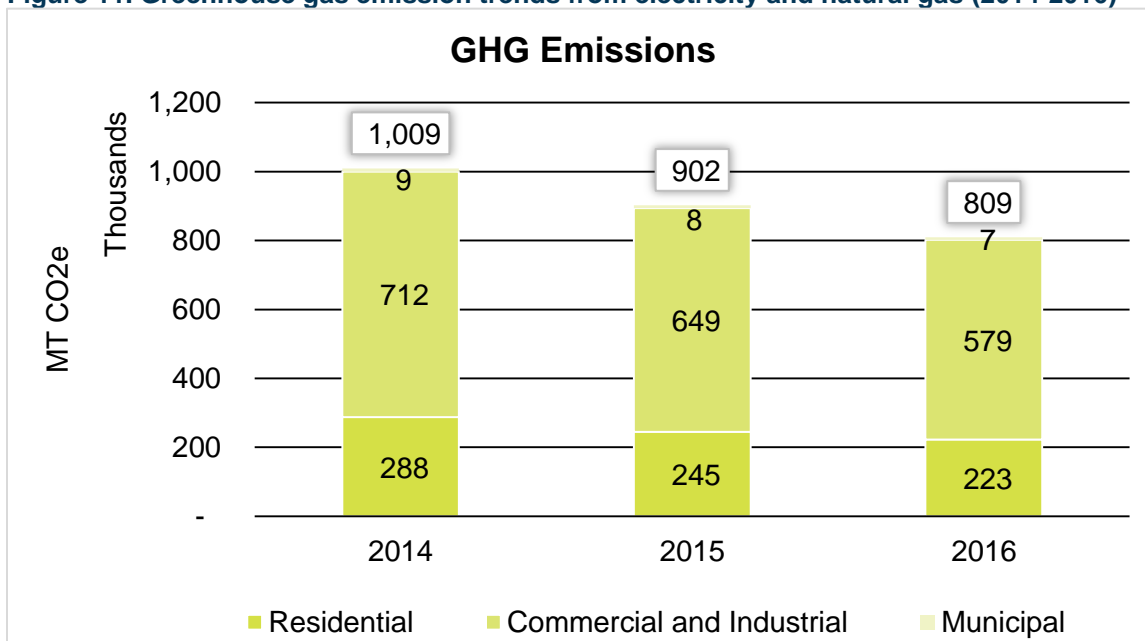


Figure 11 displays trends in greenhouse gas emissions for the City of Bloomington from 2014 to 2015. A clear downward trend is visible. Many factors can contribute to decreasing emissions, including energy conservation, trends in weather affecting heating and cooling needs, and a reduction in the emission factors for electricity. Emissions factors for natural gas have remained consistent in Minnesota.

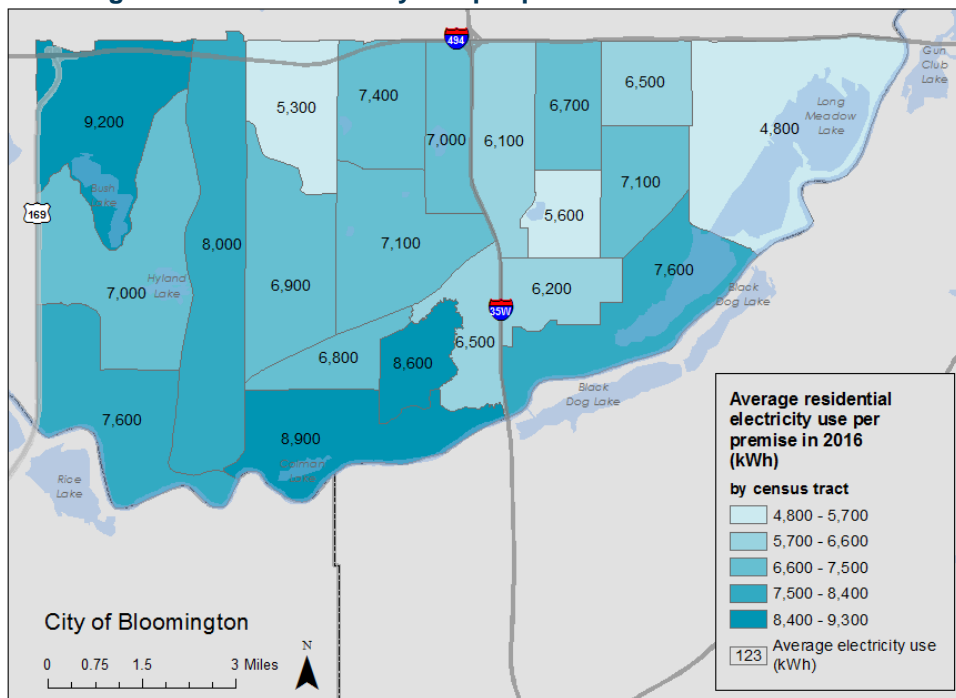
Figure 11. Greenhouse gas emission trends from electricity and natural gas (2014-2016)



Bloomington Residential Electricity Use by Census Tract

Bloomington residential electricity consumption varies for different areas of the city. Figure 12 shows 2016 average annual residential electricity use per premise by census tract. The census tract with the highest average electricity consumption per premise can be found in the northwest corner of the city, and the lowest consumption can be found in the northeast corner.

Figure 12. Average residential electricity use per premise in 2016



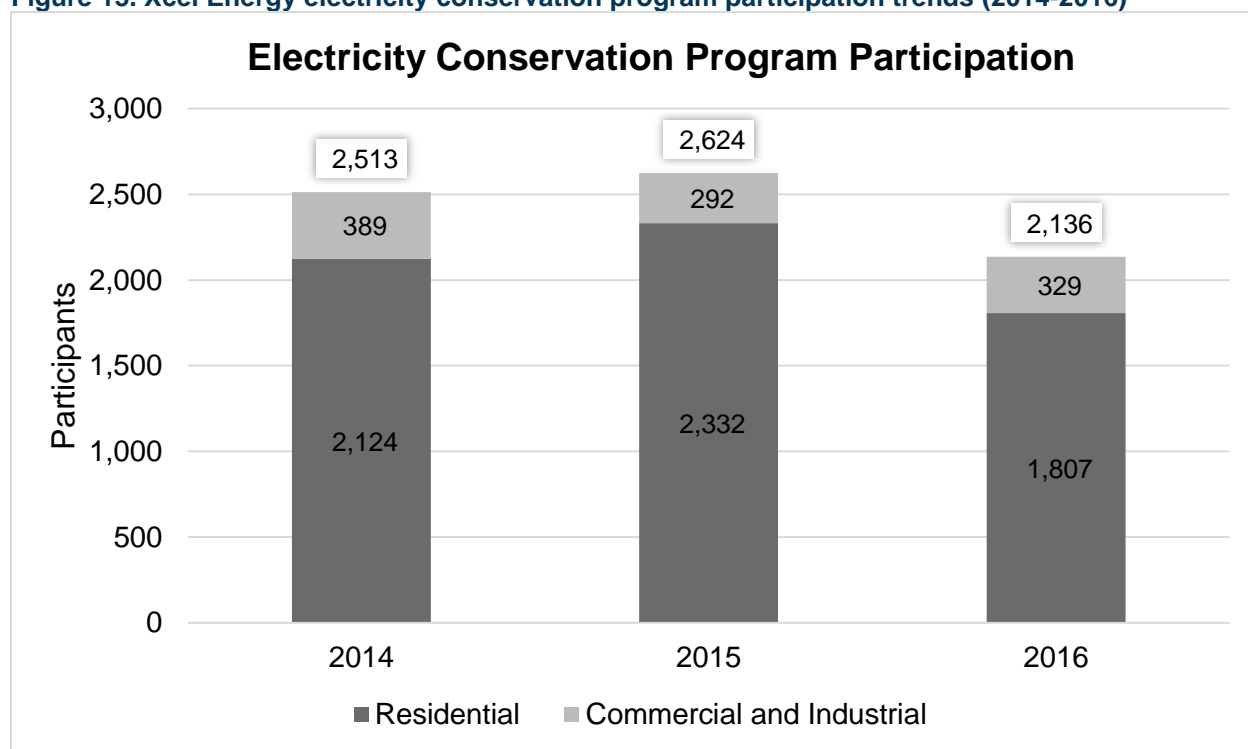
How is Bloomington Saving Energy?

Conservation Program Participation

Bloomington's participation in residential and commercial electricity conservation programs is displayed in Figure 13. Figure 14 shows a breakdown by program, showing historic participation for 2014-2016.³ Some programs, such as Home Energy Squad, are jointly offered, meaning they are represented in the residential counts for both Xcel Energy and CenterPoint Energy.

Figure 13 shows participation trends in Xcel Energy programs.

Figure 13. Xcel Energy electricity conservation program participation trends (2014-2016)



³ Historic participation represents an average of the baseline years. For Xcel Energy, baseline participation years are 2014-2016. For CenterPoint Energy, baseline participation years are 2015-2016.

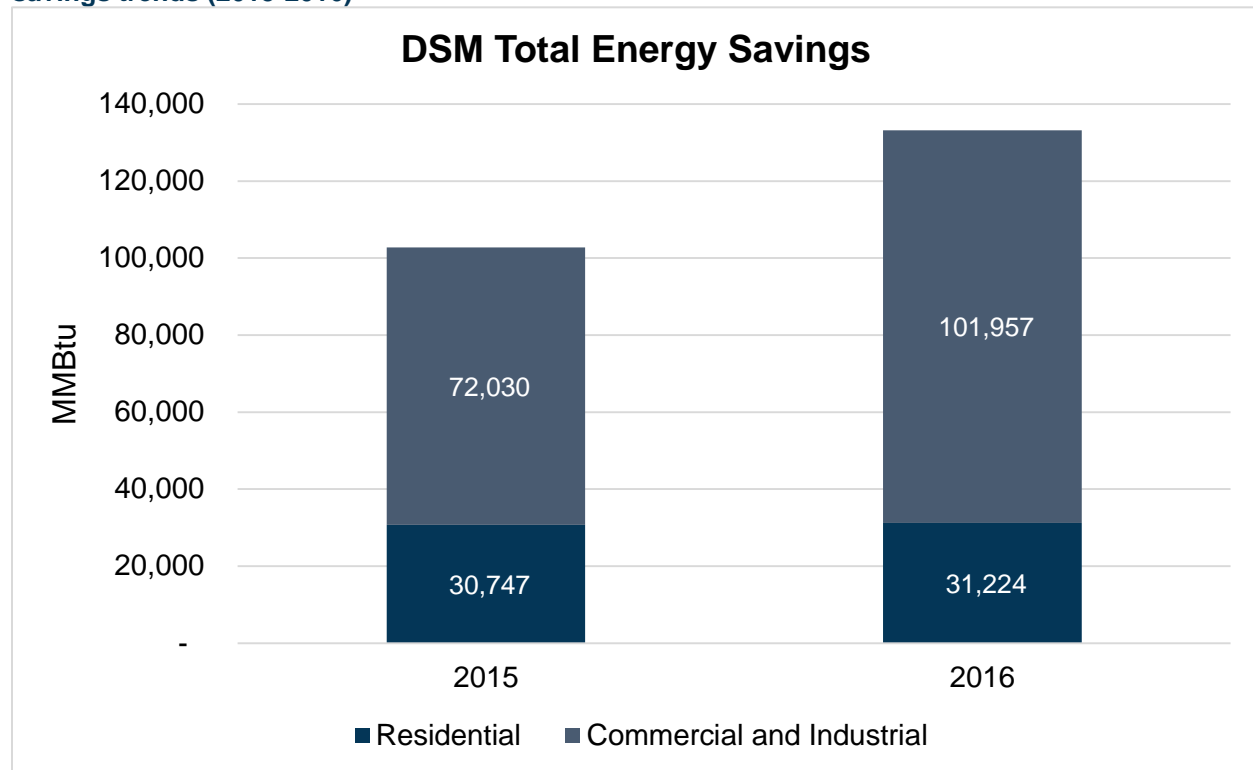
Figure 14. Historic conservation program participation in Bloomington (2014-2016 combined)

	Program	Historic Participation
Residential	Efficient New Home Construction	5
	Home Energy Audit	13
	Home Energy Savings Program	80
	Home Energy Squad	227
	Insulation Rebate	1
	Multifamily Energy Savings Program	80
	Refrigerator Recycling	202
	Residential Cooling	491
	Residential Heating	350
	CenterPoint Energy programs (includes Xcel Energy co-branded programs)	2,095
	Total Residential Participation	3,544
Commercial	Computer Efficiency	2
	Cooling Efficiency	50
	Custom Efficiency	4
	Data Center Efficiency	2
	Efficiency Controls	4
	Electric Rate Savings	11
	Energy Design Assistance	4
	Energy Efficient Buildings	1
	Fluid System Optimization	10
	Foodservice Equipment	1
	Lighting Efficiency	107
	Motor Efficiency	16
	Multifamily Building Efficiency	1
	Process Efficiency	1
	Recommissioning	12
	Turn Key Services	3
	Small Business Lighting	77
	CenterPoint Energy programs	103
	Total Commercial Participation	408

Conservation Program Savings

Figure 15 shows combined energy savings from Xcel Energy and CenterPoint Energy programs for 2015 and 2016 in MMBtu. The commercial sector saw the greatest savings for both years shown. In 2016, savings from Xcel Energy electricity conservation programs represented about 1.3% of community-wide electricity use, while savings from CenterPoint Energy gas programs represented about 1.4% of community-wide gas use.

Figure 15. Xcel Energy and CenterPoint Energy combined natural gas and electricity energy savings trends (2015-2016)



How is Bloomington Investing in Renewable Energy?

Wind Energy

As of 2016, there were 1,291 subscribers in Bloomington to Xcel Energy's Windsource[®] program, an offering that allows residents and businesses to pay a slight premium to source a portion (or all) of their electricity use from Minnesota wind power. Of those 1,291 subscribers, 1,281 were residential subscribers, and 10 were commercial subscribers. Figure 16 (below) shows Windsource subscription trends.

Figure 16. Windsource subscription trends for Bloomington (2014-2016)

	2014		2015		2016	
	Subscribers	kWh Subscribed	Subscribers	kWh Subscribed	Subscribers	kWh Subscribed
Residential Subscribers	1,020	2,868,278	1,173	3,052,475	1,281	3,493,973
Commercial Subscribers	6	1,178,134	7	1,518,196	10	1,612,677

Solar Energy

Xcel Energy's Solar*Rewards[®] is a program that helps residents and businesses install onsite solar to produce their own energy. If they produce more than needed, the extra energy is added to the grid and they receive a credit on their Xcel Energy electricity bill. According to Bloomington's 2016 Community Energy Report, as of 2016, there were 7 businesses and 24 residents participating in Solar*Rewards. This is summarized in Figure 17 (below). One residential customer subscribed to 9 kW of capacity from a solar garden in 2016.

Figure 17. Xcel Energy's Solar*Rewards program participation (2016)

Solar*Rewards	Installations	Total Capacity (kW)	Total Energy Produced (kWh)
Residential	24	143	52,811
Commercial	7	151	26,049

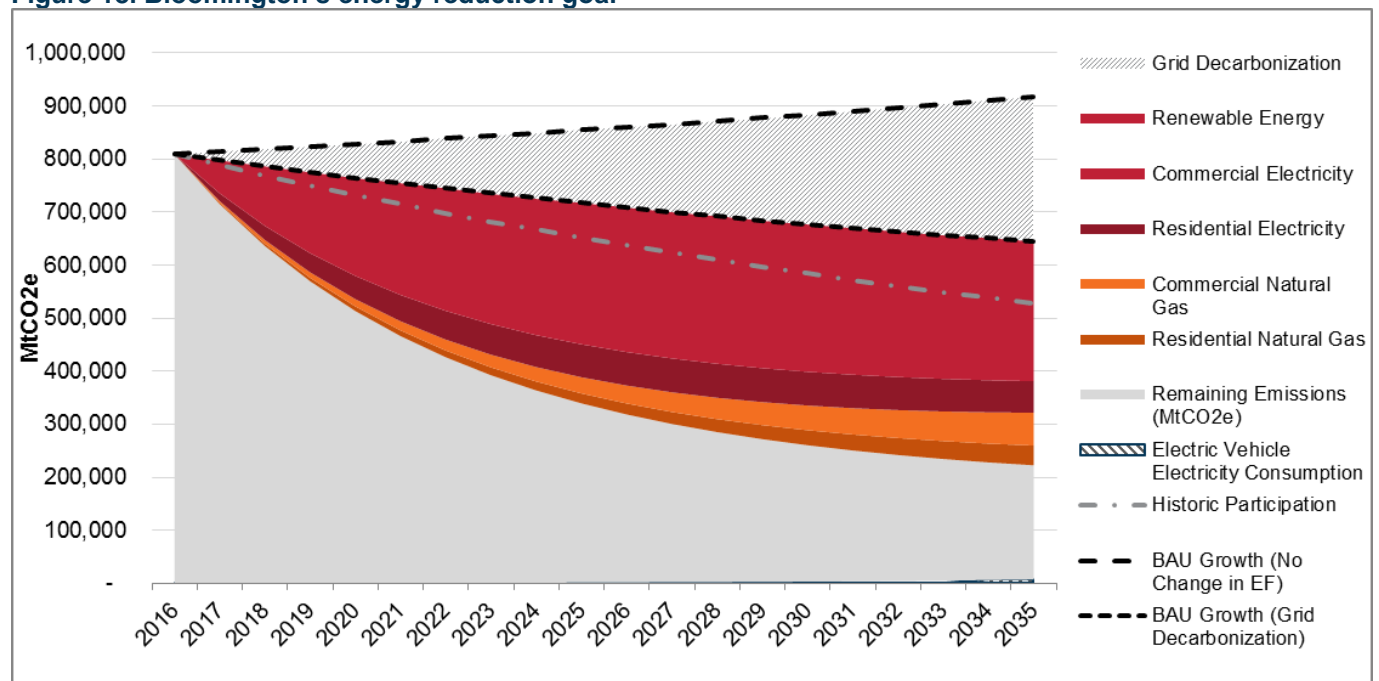
Bloomington's Energy Goals

The Energy Action Team, informed by the data above, developed the following goals for the City of Bloomington. These goals reflect the team's objective to responsibly address climate change.

Emissions Reduction Goals

The City of Bloomington will complete a 75% reduction in city-wide energy-related greenhouse gas emissions by 2035 (relative to 2016 levels). This will be achieved through a 95% reduction in city-wide electricity-related emissions and 33% reduction in city-wide natural gas-related emissions.

Figure 18. Bloomington's energy reduction goal



Transportation Goal

Pursue all viable opportunities for promoting the elimination of vehicle emissions, including support for electric vehicles, increased public transportation, higher-density and mixed-use zoning, additional biking and pedestrian infrastructure, and telecommuting.

For transportation energy, there are many ways to incrementally lower emissions while saving money and improving quality of life in our city. However, the only foreseeable way to reduce emissions on a large scale is by widespread conversion to electric vehicles (EVs) powered by renewable electricity. The speed of this transition will depend heavily on the overall market, and the City of Bloomington will have only a limited influence. This makes it impossible to set a realistic, quantitative goal for transportation emissions.

What are Bloomington's Energy Priorities?

In order to achieve Bloomington's energy goals, the Energy Action Team identified four areas to focus initial efforts. The priority sectors of focus between 2018 and 2020 include businesses, electric vehicles, the City of Bloomington (municipal energy), and residents. Between 2020 and 2035 these sectors will continue to be engaged, but four more long-term priorities will be added:

- Explore and promote onsite renewable energy opportunities
- Identify energy efficiency and renewable energy opportunities in new construction
- Increase bicycle use and safety
- Increase the use of mass transit and shift away from single-occupancy vehicles

Each of the four near-term focus areas are summarized on the following pages. Their strategies and goals are listed on the next page.

Business

GOALS by 2020

- Have 70 businesses participate in an energy audit or recommissioning study
- Double baseline energy efficiency program participation
- Sign up an additional 10 businesses in Bloomington for Xcel Energy's Windsource® program, Renewable* Connect® program, or a community solar garden subscription

STRATEGIES

- Work with the Chamber of Commerce to develop points of contact at local businesses and a sustainability recognition program
- Host event to educate businesses on Bloomington's Energy Action Plan, financing and incentives available for renewable energy and efficiency, and communicate opportunities and roles
- Develop at least three local case studies to give recognition to business energy champions
- Have the City buy down the cost of energy audits and recommissioning studies, and communicate the discount to businesses
- Create a sustainability consortium of Bloomington businesses. Hold a series of 3-4 site-hosted events to facilitate peer sharing
- Become a pilot community in Hennepin County's Building Energy Benchmarking Collaborative

Electric Vehicles

GOAL

- Increase use of electric vehicles (EVs) by installing 2-5 EV chargers at popular municipal locations (e.g. parks) throughout the city

STRATEGIES

- Pilot program to install 2-5 EV chargers at popular municipal locations (e.g. parks) throughout the city
- Provide free electric vehicle test rides at community events

Municipal

STRATEGIES

- Dedicate full-time staff hours to sustainability initiatives, including reducing both municipal and city-wide emissions
- Benchmark city facility energy use and develop a strategic plan for identifying savings opportunities and implementing cost
- Join SolSmart and review the City's planning, permitting, inspection, and other solar related processes to ensure the City of Bloomington is working towards achieving silver or gold status

Residential

GOALS

- Sign up 850 households for Home Energy Squad visits in Bloomington — 350 in 2018 and 500 in 2019
- Sign up an additional 850 households in Bloomington for Xcel Energy's Windsource or Renewable Connect programs — 350 in 2018 and 500 in 2019
- At least four Bloomington multifamily housing buildings engage in energy efficiency programs each year

STRATEGIES

- Home Energy Squad Social media outreach
- Continue to host Home Energy Squad workshops for residents
- Home Energy Squad and renewable energy testimonials
- Continue to offer buy-downs on the cost of a Home Energy Squad visit
- Targeted outreach to income-qualified homes to receive free Home Energy Squad visits
- Sponsor a renewable energy subscription contest
- Continue to connect with the Minnesota Housing Authority and create a relationship with the Minnesota Multifamily Affordable Housing Energy Network to promote energy efficiency in multifamily buildings
- Market energy efficiency to the Bloomington Rental Housing Collaborative
- Create energy efficiency handouts to accompany license renewals for multifamily properties

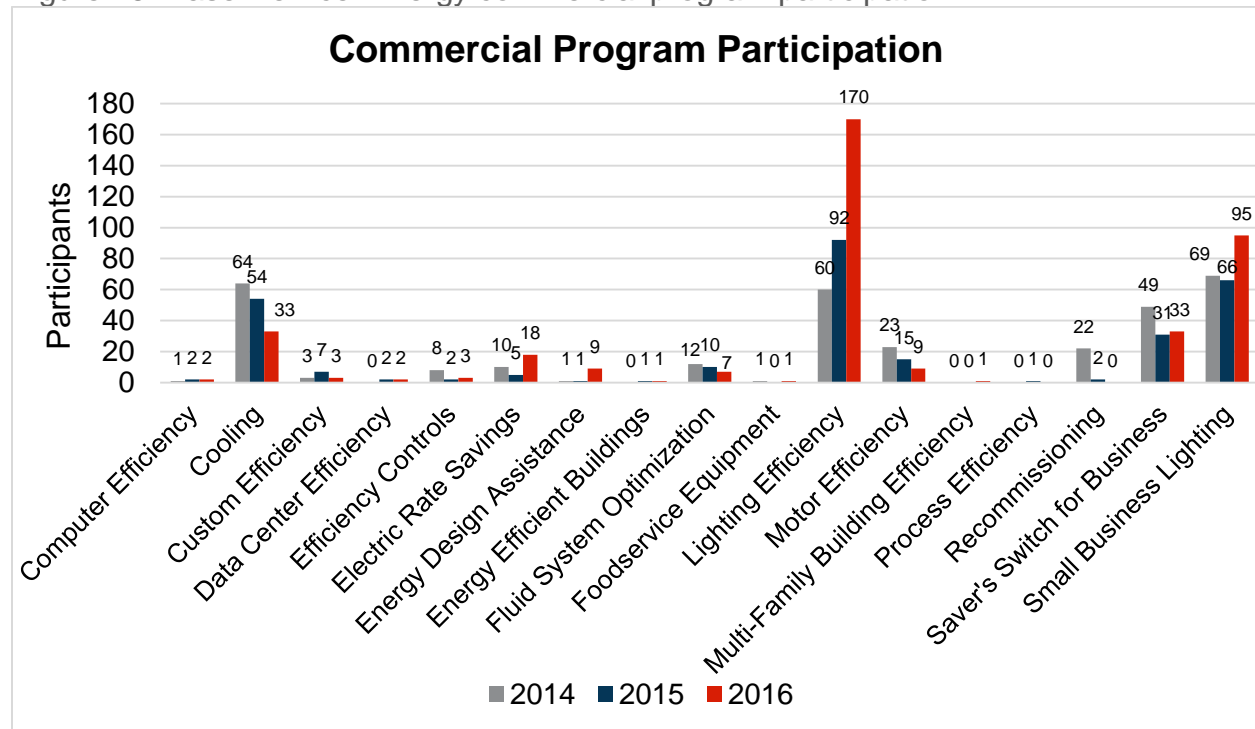
Business Energy Efficiency and Renewable Energy

Why is this sector a priority?

Bloomington's businesses are a priority for the City's near-term energy efforts because they account for 79% of the city's electricity use and 59% of its natural gas use.⁴

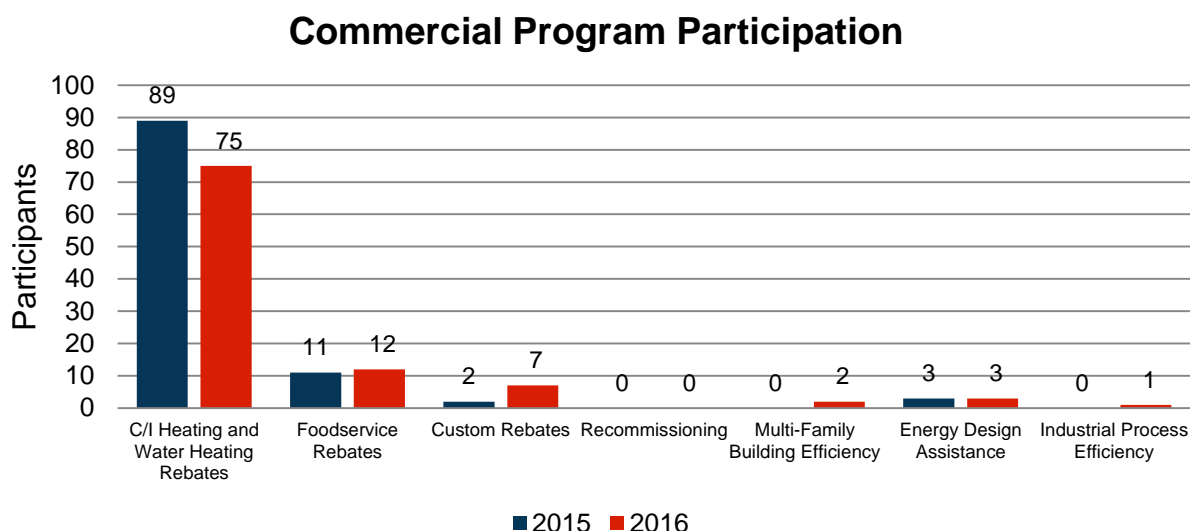
This energy consumption presents a significant opportunity to both save energy and source more energy from renewable sources. Baseline program participation rates also fell under 5%, demonstrating that there is ample opportunity to engage businesses in conservation and renewable energy programs.

Figure 19. Baseline Xcel Energy commercial program participation



⁴ Source: 2016 baseline data

Figure 20. Baseline CenterPoint Energy commercial program participation



Near-term Goals

By 2020:

- Have 70 businesses participate in an energy audit or recommissioning study
- Double baseline energy efficiency program participation (see Figure 19 and Figure 20 for program baseline participation counts)
- Sign up an additional 10 businesses in Bloomington for Xcel Energy's Windsoruce program, Renewable* Connect program, or a community solar garden subscription

Strategies

The Energy Action Team recommends seven strategies to achieve the business sector's near-term goals:

- Work with the Chamber of Commerce to develop points of contact at local businesses and a sustainability recognition program.
- Host event to educate businesses on Bloomington's Energy Action Plan, financing and incentives available for renewable energy and efficiency, and communicate opportunities and roles
- Develop at least three local case studies to give recognition to business energy champions
- Have the City buy down the cost of energy audits and recommissioning studies, and communicate the discount to businesses

- Create a sustainability consortium of Bloomington businesses. Hold a series of 3-4 site-hosted events to facilitate peer sharing
- Become a pilot community in Hennepin County's Building Energy Benchmarking Collaborative

The following tables outline the tasks, responsibilities, timeline, and purpose of each strategy. An implementation chart summarizing all of this information can be found in Appendix 3. The primary implementers of these strategies are City of Bloomington staff, Xcel Energy's Partners in Energy staff, and business representatives that served on Bloomington's Energy Action Team.

Strategy A) Work with the Chamber of Commerce to develop points of contact at local businesses and a sustainability recognition program.

Purpose	Identify communication pathways between the City and relevant business contacts (facility managers, sustainability professionals, operations staff, etc.) to distribute energy resource information and networking opportunities, and to develop a sustainability recognition program.
Tasks	<ul style="list-style-type: none"> • Contact Chamber of Commerce to ask for assistance in developing business contact list • Use Chamber of Commerce's knowledge to develop contact list • Prioritize outreach to businesses with local leadership and decision makers • Work with the Chamber of Commerce to develop a recognition program for businesses that are managing their energy use and taking other sustainable actions.
Timeline	Q2 2018 (April-June)
Lead	<ul style="list-style-type: none"> • City of Bloomington
Implementation Team	<ul style="list-style-type: none"> • City of Bloomington staff • Chamber of Commerce
Resources	<ul style="list-style-type: none"> • City of Bloomington staff hours (estimated 40 hours)

Strategy B) Host event to educate businesses on Bloomington's Energy Action Plan and communicate opportunities and roles.

Purpose	Inform the business community about near-term energy goals and strategies, the benefits of participating, and the financing and incentives available. This event will also provide an opportunity to start building a local network of businesses actively thinking about energy initiatives.
Tasks	<ul style="list-style-type: none"> • Develop event agenda and scope • Find host site • Select date and create promotional materials • Identify speakers from Energy Action Team • Order refreshments • Print copies of the plan • Develop Energy Action Plan PowerPoint summary for business audience
Timeline	Q3 (July-Sept 2018)
Lead	<ul style="list-style-type: none"> • Sustainability Commission
Implementation Team	<ul style="list-style-type: none"> • Sustainability Commission • City of Bloomington staff • Bloomington Energy Action Team members • Xcel Energy's Partners in Energy staff
Resources	<ul style="list-style-type: none"> • Xcel Energy Partners in Energy staff support for event planning, coordination, and development of event materials (e.g. PowerPoint) • City of Bloomington staff hours (estimated 20 hours) • \$150 for event refreshments provided by Xcel Energy. • 20 printed and bound copies of the Energy Action Plan • \$1,000 for printing and mailing event postcards provided by Xcel Energy

Strategy C) Develop at least three local case studies to give recognition to business energy champions.

Purpose	Help local businesses share their energy conservation or renewable energy stories with their peers.
Tasks	<ul style="list-style-type: none"> • Identify businesses that have completed energy efficiency upgrades or renewable energy projects • Reach out to businesses and connect with interviewees • Conduct interviews and write case studies • Coordinate with businesses to get photo • Format case studies • Have pieces reviewed by city partners • Distribute case studies via City communication channels (website, social media, newsletter)
Timeline	Q3 2018 (July-Sept)
Lead	<ul style="list-style-type: none"> • Sustainability Commission
Implementation Team	<ul style="list-style-type: none"> • Sustainability Commission • City of Bloomington staff (estimated 20 hours) • Xcel Energy's Partners in Energy staff
Resources	<ul style="list-style-type: none"> • Xcel Energy Partners in Energy staff hours • City of Bloomington staff hours • \$50 printing budget for hard copies of case studies

Strategy D) Have the City buy down the cost of energy audits and recommissioning studies, and communicate the discount to businesses.

Purpose	Similar to Bloomington's Housing and Redevelopment Authority buying down the cost of Home Energy Squad visits for residents, this buy down would help minimize the financial barrier businesses face when identifying energy efficiency opportunities. This strategy directly relates to the goal of having 70 businesses participate in an energy audit or recommissioning study by 2020.
Tasks	<ul style="list-style-type: none"> • Identify what audit offerings exist for businesses • Determine what buy down is feasible and will incentivize businesses to get an audit • Identify source of funding for buy-downs • Coordinate with CenterPoint Energy and Xcel Energy regarding the special offering • Develop and distribute application and promotional materials around audit benefits and discount • Distribute materials • Select participants • Follow-up with businesses to capture outcomes, and to encourage businesses to follow the audit's recommendations.
Timeline	Organize: Q4 2018 (Oct-Dec), Implement: Q1-Q4 2019 (Jan-Dec)
Lead	<ul style="list-style-type: none"> • Sustainability Commission
Implementation Team	<ul style="list-style-type: none"> • Sustainability Commission • City of Bloomington staff (estimated 80 hours) • Xcel Energy's Partners in Energy staff
Resources	<ul style="list-style-type: none"> • \$10,500 to give the first 35 Bloomington businesses \$300 towards an audit or a recommissioning study. Small to medium-sized businesses will get priority for the funding based upon their larger cost burden • \$200 printing budget for promotional materials • Xcel Energy's Partners in Energy staff hours

Strategy E) Create a sustainability consortium of Bloomington businesses. Hold a series of 3-4 site-hosted events to facilitate peer sharing.

Purpose	Provide a space for businesses to learn from one another, have easy access to program information, and celebrate energy successes.
Tasks	<ul style="list-style-type: none"> • Identify host sites with energy stories • Identify local energy leaders • Reach out to local energy leaders and ask if they would speak at events • Determine event structure • Select dates for events • Promote events using city and partner communication channels. • Order refreshments • Invite rebate program specialists to events • Develop materials to make it easy for businesses to schedule audits or learn more about rebates at event • Follow-up with businesses after events
Timeline	Hold first event in Q4 (Oct-Dec 2018). Hold 2-3 events in 2019.
Lead	<ul style="list-style-type: none"> • Sustainability Commission
Implementation Team	<ul style="list-style-type: none"> • Sustainability Commission • City of Bloomington staff (estimated 30 hours) • Bloomington Energy Action Team – business representatives • Xcel Energy’s Partners in Energy staff
Resources	<ul style="list-style-type: none"> • Refreshment budget, \$100 per event • Donated business event space • \$1,000 printing and mailing budget • Xcel Energy’s Partners in Energy staff hours • CenterPoint Energy program resources

Strategy F) Become a pilot community in Hennepin County's Building Energy Benchmarking Collaborative

Purpose	Given that it is difficult to manage what you can't measure, the Energy Action Team saw benchmarking as a helpful tool to increase businesses' awareness of their baseline energy use and encourage energy efficiency action.
Tasks	<ul style="list-style-type: none"> • Get City Council approval to apply to participate in Hennepin County's Building Energy Benchmarking Collaborative (launched in 2017) • Express interest to Hennepin County to participate • Pass a benchmarking ordinance • Implement benchmarking program • Leverage Building Owners and Managers Association (BOMA) to help educate how benchmarking benefits businesses and the tools available
Timeline	Q2 2018 (April-June) – Ongoing
Lead	<ul style="list-style-type: none"> • City of Bloomington staff
Implementation Team	<ul style="list-style-type: none"> • Hennepin County's Building Energy Benchmarking Collaborative staff
Resources	<ul style="list-style-type: none"> • City of Bloomington staff hours

Estimated Impact of Business Goals

Bloomington must save an average of approximately 80 million kWh and 1 million therms annually to achieve its goal of a 75% reduction in city-wide energy-related greenhouse gas emissions by 2035. In 2016, Bloomington businesses saved 16.7 million kWh and 447,700 therms. The business energy conservation goals listed in this plan are expected to save 17.7 million kWh and 445,221 therms in 2018 and 17.7 million kWh and 445,221 therms in 2019, totaling 35.4 million kWh and 890,442 therms. This will get the city approximately 22% of the way towards its electricity goal and 43% of the way to its natural gas goal by the end of 2019. After 2020, the City plans to increase business engagement to achieve higher annual savings.

By 2020, all of the strategies⁵ outlined in this plan, are expected to get Bloomington 60% of the way towards the annual average emissions savings needed to meet the City's 2035 goal of a 75% reduction in city-wide energy-related greenhouse gas emissions.

⁵ Strategies include residential and commercial energy conservation program participation, estimated carbon savings from renewable energy program participation, and carbon savings from grid decarbonization.

Electric Vehicles

Why is this sector a priority?

Transportation Habits

Ninety-three percent of Bloomington households own a vehicle and single occupancy vehicles are the primary way Bloomington residents get to work⁶

National Trends

It is estimated that electric vehicle sales will surpass internal combustion engine sales by 2038 — only 20 years away⁷

Emission Reduction Opportunity

Electric vehicles in Minnesota provide a GHG reduction of at least 61% in most cases (based on Xcel Energy's electricity resource mix) and 95% in many cases (for vehicles charging on renewable energy subscription programs like Windsource)⁸

Goal

- Increase use of electric vehicles (EVs) by installing 2-5 EV chargers at popular municipal locations (e.g. parks) throughout the city

Near-term Strategies

- Pilot program to install 2-5 EV chargers at popular municipal locations (e.g. parks) throughout the city
- Provide free electric vehicle test rides at community events

⁶ Metropolitan Council Community Profile for Bloomington and Commuting and American Community Survey 2017

⁷ Bloomberg Businessweek

⁸ Drive Electric Minnesota

Strategy A) Pilot program to install 2-5 EV chargers at popular municipal locations (e.g. parks) throughout the city.

Purpose	<p>Develop infrastructure that promotes EVs in Bloomington. The largest barrier to EV adoption at this time is public uncertainty about the technology.⁹ A municipal investment in charging stations will increase public confidence about EVs, and provide an opportunity for education.</p> <p>This strategy ties into the transportation goal that is part of reducing the City's overall energy emissions by 75% by 2035.</p>
Tasks	<ul style="list-style-type: none"> • Identify high-impact, low-cost locations for EV chargers • Research charger options • Develop project proposal • Get project approved by City Council • Apply for funding • Install chargers • Promote new infrastructure using City communication channels
Timeline	Begin planning steps Q3 2018 (July-Sept)
Lead	<ul style="list-style-type: none"> • Sustainability Commission
Implementation Team	<ul style="list-style-type: none"> • City of Bloomington staff
Resources	<ul style="list-style-type: none"> • EV Peer Cohort program run by the League of Minnesota Cities, Great Plains Institute and Clean Energy Resource Teams • Funding for 2-5 chargers, approx. \$3,000 each

⁹ MIT Sloan School of Management

Strategy B) Free electric vehicle test rides at community events

Purpose Provide an opportunity for residents to experience EVs first hand.

- Tasks**
- Sustainability Commission can organize test rides with other EV advocacy groups and car dealerships
 - Outreach to local car dealerships that sell EVs and assess interest in partnering to host free EV test rides
 - Identify a preexisting community event, such as the Bloomington Farmers Market or Heritage Days, to host the test rides
 - Market and communicate the event to residents through the City's communication channels
 - Invite a city council member or the mayor to kick off the test rides (or another "local celebrity")
 - Table at the event to share utility information about EVs (e.g. the EV rate plan structure or any incentives and services Xcel provides for EV owners)
 - After pilot chargers are installed, the City could promote their locations to residents

Timeline After the City's pilot chargers are installed

Lead • Sustainability Commission (estimated 60 hours)

Implementation Team

- Sustainability Commission (estimated 60 hours)
- City of Bloomington staff (estimated 40 hours)

- Resources**
- Outdoor, public space to host the event (e.g. a park)
 - Participation from at least one elected official
 - Time/materials for marketing communications
 - Would be great to have an Xcel Energy rep to educate about rate options for charging, etc.

Municipal Energy

Why is this a priority?

Focusing on municipal buildings and processes is a near-term priority, given the pre-existing commitments the City has made with programs such as GreenStep Cities. Prioritizing municipal energy actions also demonstrates a desire to be a leader in the community when it comes to conservation.

Proposed Strategies

- Dedicate full-time staff hours to sustainability initiatives, including reducing both municipal and city-wide emissions
- Benchmark city facility energy use and develop a strategic plan for identifying savings opportunities and implementing cost
- Join SolSmart and review the City's planning, permitting, inspection, and other solar related processes to ensure the City of Bloomington is working towards achieving silver or gold status

Strategy A) Dedicate full-time staff hours to sustainability initiatives, including reducing both municipal and city-wide emissions.

Purpose	Recognizing a need for plan implementation support and other sustainability initiatives, the Energy Action Team recommends a full-time permanent position at the City to build capacity for this type of work.
Tasks	<ul style="list-style-type: none"> • Develop position description • Get approval and funding for position from City Council • Post position and conduct interviews • Complete hire
Timeline	Request to City Council in 2018. Position posted Q1 2019 (Jan-March)
Lead	<ul style="list-style-type: none"> • City of Bloomington staff
Implementation Team	<ul style="list-style-type: none"> • City of Bloomington staff
Resources	<ul style="list-style-type: none"> • Salary and benefits for full-time sustainability professional

Strategy B) Begin recording metrics on city facility energy use and develop a strategic plan for identifying savings opportunities and implementing cost-effective energy and sustainability improvements.

Purpose This strategy will help the City effectively manage its properties and be a community leader in implementing energy efficiency practices.

- City staff will develop a five-year strategic plan for updating energy efficiency in city buildings; review and update every 3 years
- Tasks**
- Identify system/process for maintaining up-to-date benchmarking data and analyze data to identify best opportunities for conservation
 - Begin plan implementation in 2019

Timeline Q2 2018 (April-June) – Ongoing

Lead • City of Bloomington staff

Implementation Team • City of Bloomington staff (estimated 120 hours for strategic plan development; estimated 120 hours annually to implement)

Resources • Budget will be recommended in Strategic Plan

Strategy C) Join SolSmart and do the associated work.

Purpose	Participate in the SolSmart program, a national designation program recognizing cities, counties, and towns that foster the development of mature local solar markets. This will help reach the City's overall energy-related emissions reduction goal of 75% by 2035.
Tasks	<ul style="list-style-type: none">• Review and update zoning ordinances to eliminate any roadblocks to rooftop solar; market accordingly• Review and update zoning ordinances to ensure that new and re-developed buildings are "solar-ready" in terms of roof load, shading, etc.• Review and update ordinances, permitting, etc. that affect soft costs of solar and electric vehicle infrastructure
Timeline	SolSmart support is provided through 2018.
Lead	<ul style="list-style-type: none">• City of Bloomington staff
Resources	<ul style="list-style-type: none">• SolSmart program support• Estimated 60 hours of City of Bloomington staff time in 2018 and 60 hours in 2019

Residents

Why is this sector a priority?

Bloomington residents are a priority audience for energy efficiency and renewable energy adoption for three reasons:

Existing Partnerships and Program Participation

Bloomington's Housing and Redevelopment Authority has partnered with the Home Energy Squad program since 2013, and had great participation success. The Energy Action Team is interested in leveraging this partnership to drive even greater impact over the next two years.

Community Buy-in

Although the residential sector uses far less electricity and slightly less natural gas than commercial buildings (See Figure 8 and Figure 9), there are many more individuals responsible for making residential energy decisions than commercial ones. The quantity of residential decision makers provides an opportunity to create a cultural shift in Bloomington.

Improve Health and Well-being

Energy programs like Home Energy Squad can help residents have more comfortable homes by improving living spaces through energy efficiency measures like weather-stripping doors, doing safety checks on equipment, and identifying ways to save money.

Near-term Goals

- Sign up 850 households for Home Energy Squad visits in Bloomington – 350 in 2018 and 500 in 2019
- Sign up an additional 850 households in Bloomington for Xcel Energy's Windsource or Renewable Connect programs – 350 in 2018 and 500 in 2019
- At least four Bloomington multifamily housing buildings engage in energy efficiency programs each year

Strategies

Bloomington's Energy Action Team proposed nine strategies for City and community partners to focus on between 2018 and 2020. The strategies are outlined in the charts below and also included in the implementation chart in Appendix 3.

- Home Energy Squad Social media outreach
- Continue to host Home Energy Squad workshops for residents
- Home Energy Squad and renewable energy testimonials
- Continue to offer buy-downs on the cost of a Home Energy Squad visit

- Targeted outreach to income-qualified homes to receive free Home Energy Squad visits
- Sponsor a renewable energy subscription contest
- Continue to connect with the Minnesota Housing Authority and create a relationship with the Minnesota Multifamily Affordable Housing Energy Network to promote energy efficiency in multifamily buildings
- Market energy efficiency to the Bloomington Rental Housing Collaborative
- Create energy efficiency handouts to accompany license renewals for multifamily properties

Strategy A) Home Energy Squad Social Media Outreach

Purpose

Connect with Bloomington residents online to meet the goal of signing up 850 households for Home Energy Squad visits in Bloomington – 350 in 2018 and 500 in 2019.

Tasks

- Develop emails along with Facebook and Nextdoor posts that highlight the City's buy-down to residents, as well as other program offerings (including access to loans and rebate information)
- Distribute the materials through their appropriate channels
- Follow up with participants to encourage them to use the audit's recommendations for energy-efficiency upgrades.

Timeline

Q3 2018 (July-Aug) – Ongoing

Lead

- Sustainability Commission

Implementation Team

- Sustainability Commission
- City of Bloomington staff (estimated 20 hours)
- Xcel Energy's Partners in Energy staff

Resources

- City of Bloomington staff hours
- Xcel Energy Partners in Energy staff hours
- \$500 budget for social media ads

Strategy B) Continue to lead Home Energy Squad workshops for residents

Purpose Educate Bloomington residents about energy efficiency opportunities in their home and encourage participation in the Home Energy Squad program.

- Tasks**
- Identify audience and workshop needs
 - Select locations for workshops
 - Identify and coordinate with speaker(s)
 - Promote workshops using various communication channels
 - Identify and work with local businesses to host lunch & learns where Center for Energy and Environment (CEE) will present. Aim for hosting these events at 4 businesses annually

Timeline Q3 2018 (July-Aug) – Ongoing

Leads CEE and City of Bloomington

- Implementation Team**
- Sustainability Commission
 - City of Bloomington HRA staff (estimated 40 hours)
 - Center for Energy and Environment
 - Xcel Energy's Partners in Energy staff

- Resources**
- Xcel Energy Partners in Energy staff
 - Home Energy Squad staff hours

Strategy C) Home Energy Squad and Renewable Energy Testimonials

Leverage powerful peer-to-peer persuasion to meet the goals of:

- Purpose**
- Signing up 850 households for Home Energy Squad visits in Bloomington – 350 in 2018 and 500 in 2019.
 - Signing an additional 850 households in Bloomington for Xcel Energy's Windsource or Renewable Connect programs – 350 in 2018 and 500 in 2019.

- Tasks**
- Identify Bloomington residents who have received a Home Energy Squad visit or subscribe to Windsource or Renewable Connect
 - Email participants to request testimonials and pictures
 - Format testimonials for various outreach channels (social media posts on Nextdoor and Facebook, City website, Bloomington Briefing, and Sun Current)
 - Post testimonials on social media and pitch testimonials to newspapers

Timeline Q3 2018 (July-Aug) – Ongoing

Lead • Sustainability Commission

- Implementation Team**
- Sustainability Commission
 - City of Bloomington staff (estimated 40 hours)
 - Community volunteers – Home Energy Squad, Windsource, and Renewable Connect participants
 - Xcel Energy's Partners in Energy staff

Resources • Xcel Energy Partners in Energy staff hours

Strategy D) Home Energy Squad Buy-downs

Purpose Have the City continue to buy down the cost of Home Energy Squad visits by \$50, and consider the benefits and feasibility of offering deeper buy-downs.

- Tasks**
- Bloomington's Housing and Redevelopment Authority (HRA) staff will act as a liaison to the HRA board to request additional funding, as needed, to meet the Energy Action Plan's Home Energy Squad goals (350 in 2018 and 500 in 2019)
 - Pending approval from the HRA board, Bryan Hartman from Bloomington's Housing and Redevelopment Authority will reach out to Stacy Boots Camp at the Center for Energy and Environment to coordinate the buy-down contract

Timeline Q4 2018 (Oct-Dec)

Lead • City of Bloomington

- Implementation Team**
- City of Bloomington staff (estimated 40 hours)
 - Center for Energy and Environment
 - Xcel Energy's Partners in Energy staff

Resources • \$7,500 to buy down visits in 2019¹⁰

¹⁰ Bloomington HRA has an annual budget of \$17,500 to discount Home Energy Squad visits by \$50 for residents in 2018 and 2019. This existing budget will cover the cost of discounting 350 visits in 2018 and 350 visits in 2019. The \$7,500 requested will cover the additional 150 visit discounts needed to reach the goal of 500 total visits in 2019. If goals are surpassed the City can allocate more funds to buy down visits at any time.

Strategy E) Income-Qualified Home Energy Squad Outreach

Purpose Connect Bloomington residents with lower incomes to resources that can help them save money on energy.

- Tasks**
- Identify communication channels that best reach Bloomington residents eligible for free Home Energy Squad visits
 - Develop outreach materials with targeted messaging for residents with lower incomes
 - Distribute materials using the identified communication channels (Bloomington Briefing and social media)

Timeline Q3 2018 (July-Aug) – Ongoing

Lead • Sustainability Commission

Implementation Team

- City of Bloomington staff
- Xcel Energy's Partners in Energy staff

Resources

- \$200 per campaign for Facebook ads
- Xcel Energy Partners in Energy staff

Strategy F) Renewable Energy Subscription Contest

Purpose Use a competition to work toward the goal of signing up an additional 850 households in Bloomington for Xcel Energy's Windsource or Renewable Connect programs – 350 in year one (2018) and 500 in year 2 (2019).

- Evaluate if residents will be motivated by a renewable energy competition with peer communities
 - Reach out to peer communities to evaluate interest in a competition
 - Collaborate with partner communities to design contest rules, management platform, and rewards
- Tasks**
- Develop contest materials (e.g. tracking images, website copy, completion instructions, flyers on Windsource, Renewable Connect, and Community Solar Gardens) that use relative cost messaging
 - Coordinate with peer cities to distribute contest materials and launch contest
 - Track campaign progress and communicate results to the community throughout the campaign

Timeline Q3 2018 (July-Aug) – Q4 2019

Lead • Sustainability Commission

Implementation Team

- City of Bloomington staff (estimated 80 hours)
- Sustainability Commission
- Xcel Energy's Partners in Energy staff

Resources

- City of Bloomington staff hours
- Xcel Energy Partners in Energy staff
- Staff hours of partner communities

Strategy G) Continue to connect with the Minnesota Housing Authority and create relationship with Minnesota Multifamily Affordable Housing Energy Network to promote energy efficiency in multifamily buildings.

Purpose The City of Bloomington already attends Minnesota Housing Authority meetings. This strategy would leverage the opportunity to promote energy efficiency information through existing networks.

- Tasks**
- Promote energy efficiency at meetings as opportunities arise
 - Coordinate with Minnesota Multifamily Affordable Housing Energy Network (MMAHEN) to promote energy efficiency in Bloomington multifamily affordable housing
 - Encourage Bloomington affordable housing businesses to join or coordinate with MMAHEN

Timeline Q3 2018 (July-Aug) – Ongoing

Lead • Bloomington Housing and Redevelopment Authority

Implementation Team

- Sustainability Commission
- Xcel Energy's Partners in Energy staff

Resources • Bloomington Housing and Redevelopment Authority staff time

Strategy H) Market energy efficiency to the Bloomington Rental Housing Collaborative

Purpose Bloomington's Housing and Redevelopment Authority facilitates the Bloomington Rental Housing Collaborative. This collaborative provides an audience of rental housing owners, managers, and leasing agents who may provide pathways to energy efficiency projects.

- Tasks**
- Present about energy efficiency programs and opportunities at Bloomington Rental Housing Collaborative meetings
 - Publish content about energy efficiency program offerings in the Rental Housing Collaborative newsletter and web page

Timeline Q3 2018 (July-Aug) – Ongoing

- Lead**
- Bloomington Housing and Redevelopment Authority staff

- Implementation Team**
- Sustainability Commission
 - Xcel Energy Partners in Energy staff

- Resources**
- Bloomington Housing and Redevelopment Authority staff hours
 - Xcel Energy Partners in Energy staff

Strategy I) Create energy efficiency handouts to accompany license renewals for multifamily properties

Purpose Leveraging existing communication touchpoints between the City of Bloomington and multifamily property owners to distribute targeted energy efficiency program information.

- Tasks**
- Create handouts
 - Work with City license staff to distribute

Timeline Q3 2018 (July-Aug) – Ongoing

- Lead**
- Bloomington Housing and Redevelopment Authority

- Implementation Team**
- Xcel Energy's Partners in Energy staff
 - Sustainability Commission

- Resources**
- Budget for printing handouts

Estimated Impact of Residential Strategies

In 2016 Bloomington's participation in residential energy conservation programs resulted in an estimated savings of 875,000 kWh and 282,000 therms. Residential energy conservation from the goals proposed in this Energy Action Plan is expected to achieve a savings of 279,375 kWh and 28,700 therms in 2018 and 399,108 kWh and 41,000 therms in 2019. These savings will contribute about half a percent towards the city's electricity savings goals and about four percent towards the city's natural gas goals for 2018 and 2019.

By 2020, all of the strategies¹¹ outlined in this plan, are expected to get Bloomington 60% of the way towards the annual average emissions savings needed to meet the City's 2035 goal of a 75% reduction in city-wide energy-related greenhouse gas emissions.

¹¹ Strategies include residential and commercial energy conservation program participation, estimated carbon savings from renewable energy program participation, and carbon savings from grid decarbonization.

After 2020

The first two years of plan implementation will require a lot of capacity building and problem solving. After implementation hits its stride, the Energy Action Team recommends the City consider the following energy strategies:

Overall

- Create a climate action plan. In August 2017 City Council committed to do this in their resolution in support of the Paris Climate Agreement.
- Continue to build capacity and support for initiatives started in the first two years of Energy Action Plan implementation and ramp up participation in existing programs

Business

- Explore incentives (e.g. property tax credits, utility franchise fee waivers, regulatory waivers) for choosing renewable energy sources
- To incentivize investments in energy efficiency, require landlords to disclose estimated energy costs for potential business tenants
- Start to explore and promote onsite renewable energy options for businesses

Municipal

- Develop a plan reducing fleet emissions by incorporating the following strategies when appropriate: downsizing/rightsizing, purchasing hybrid vehicles, purchasing electric vehicles. Consider lifetime carbon emissions when purchasing energy-intensive municipal equipment
- Commit to an emissions reduction goal for municipal operations, with the intention of setting one more aggressive than the city-wide goal
- Research and present to the Council for deliberation green building codes that would continuously promote higher building standards and performance for future building development

Residential

- To incentivize investments in energy efficiency, require an energy audit disclosure with estimated energy costs, as part of real estate transactions

Establish a financing program for greenhouse gas emission-reducing home improvements, similar to the existing Housing and Redevelopment Authority programs

Transportation

- Update zoning ordinances to ensure that new and redeveloped parking areas (e.g. lots, garages, street parking) are EV ready
- Develop a strategic plan for developing a more EV-friendly city

- Continue to support the Alternative Transportation Plan, which focuses on increasing opportunities for biking and walking within the city
- Continue supporting 494 Commuter Services, and provide additional assistance for their work to promote alternative transportation
- Conduct education to promote healthcare benefits associated with biking

How Are We Going to Stay On Course?

Hiring Additional Staff Support

Recognizing what it will take to achieve the goals outlined in this plan, the Energy Action Team strongly recommends hiring full-time staff to support implementation efforts. Similar to peer communities, the City of Bloomington could structure the position as a sustainability professional.

Operational Actions and Tracking

The Sustainability Commission and Community Lead will check in with Partners in Energy staff every month and hold bi-weekly calls as needed. Progress on plan implementation will be checked on a quarterly basis using an implementation tracking chart.

Communication and Reporting

The Sustainability Commission and City staff will provide an update to City Council a year into plan implementation, and when the Partners in Energy implementation phase is complete.

Appendix 1: Glossary of Terms

Use whichever appendices are appropriate. The following is a preliminary glossary.

Community Data Mapping: A baseline analysis of energy data in a geospatial (map) format across the community.

Demand Side Management (DSM): Modification of consumer demand for energy through various methods, including education and financial incentives. DSM aims to encourage consumers to decrease energy consumption, especially during peak hours or to shift time of energy use to off-peak periods, such as nighttime and weekend.

Energy Action Plan: A written plan that includes an integrated approach to all aspects of energy management and efficiency. This includes both short and long-term goals, strategies, and metrics to track performance.

Goals: The results toward which efforts and actions are directed. There can be a number of objectives and goals outlined in order to successfully implement a plan.

KWh (kilowatt-hour): A unit of electricity consumption.

MMBtu (million British thermal units): A unit of energy consumption that allows both electricity and natural gas consumption to be combined.

Premise: A unique identifier for the location of electricity or natural gas service. In most cases it is a facility location. There can be multiple premises per building, and multiple premises per individual debtor.

Recommissioning: An energy efficiency service focused on identifying ways that existing building systems can be tuned-up to run as efficiently as possible.

Therm: A unit of natural gas consumption.

Appendix 2: Planning Memorandum of Understanding



Memorandum of Understanding Phase 1 – Plan Development

Mary Hurliman
Deputy Director of Public Works
City of Bloomington
1800 West Old Shakopee Road
Bloomington, MN 55431-3027

Congratulations on being selected to participate in Xcel Energy's Partners in Energy. This offering is designed to provide your community with the tools and resources necessary to develop and implement an energy action plan that reflects the vision your community has for shaping energy use and supply in its future. Participation is intended to span 24 months with the initial 6-8 months dedicated to developing of a strategic energy action plan and the remaining time focused on the implementing that plan.

The intent of this Memorandum of Understanding (MOU) is to confirm the City of Bloomington's intent to participate in the initial plan development phase of the Partners in Energy program and outline the commitment that your community and Xcel Energy are making to this collaborative initiative. The primary objective of this phase of the program is to develop your energy action plan.

In order to achieve this Xcel Energy will provide:

- Consulting support to assist in identifying potential community stakeholders, and constructing or delivering an invitation or informational announcement regarding the planning process.
- Data analysis of community energy use and Xcel Energy program participation to the extent that it is legally and technically prudent and feasible. The results can be used to identify potential opportunities to implement plan strategies. Xcel Energy will attempt to integrate data provided by the City of Bloomington into the analysis if feasible.
- Professional facilitation of 3-5 plan development work sessions with the community stakeholder group to develop the energy action plan's vision, focus areas, goals and implementation strategies.

- Assistance as needed in synthesizing the community and program data collected with the vision of the community to identify attainable goals that align with suitable strategies and tactics.
- Development of the documented energy action plan that will incorporate inputs from the stakeholder planning team and will be accessible to the community.
- Commitment to delivering an actionable and complete draft energy action plan for review within seven months of the City of Bloomington and Xcel Energy signing this MOU.

Although participation in the Plan Development phase of Partners in Energy program requires no monetary contribution, the community, the City of Bloomington, does agree to provide:

- A single contact point to recruit active and engaged stakeholders, coordinate planning meeting logistics as well as distribution of deliverables, and lead participation of the community in the planning process.
 - Community staff engagement in developing workshop agendas, participating in post-workshop check-in meetings and follow-up work, and implementation planning.
- Commitment to ensuring community stakeholder engagement throughout the planning workshops. This could include consultation with key community stakeholders who may be relevant to the plan but not present on the energy action planning team, to gain input on proposed goals and strategies.
- Timely review of Energy Action Plan document, as well as shepherding the completed plan through stakeholder review process.
 - Good-faith evaluation of the recommendations and analysis provided, as well as fair consideration of the potential strategies and tactics identified to ensure alignment with the community's goals and priorities.
- Meeting facilities to host the stakeholder group during the development of the plan.
- Identification of existing community energy plans, programs, or initiatives that could be leveraged in successful development and delivery of this plan.

- Commitment to delivering an actionable and complete energy plan within a twelve month timeframe of the City of Bloomington and Xcel Energy signing this MOU. Within this period the City of Bloomington is committed to completing the formation of the energy action planning team and the development and approval of the energy action plan.
- Public distribution of the work products developed with the support of the Xcel Energy's Partners in Energy Program.

**Resource Commitment Summary
Plan Development Phase**

City of Bloomington	Xcel Energy
<ul style="list-style-type: none"> • Single point of contact • Support in maintaining community stakeholder engagement throughout the planning process. • Involvement in development and review of Energy Action Plan content. • Meeting facilities • Access to existing energy-related plans and programs • Commitment to completing the plan development and approval • Agreement that the energy plan resulting from this work will be available to the public 	<ul style="list-style-type: none"> • Assistance identifying and recruiting stakeholders • Analysis of community energy use and program participation • Facilitation of planning sessions • Training and guidance developing goals and strategies • Documentation and delivery of the energy action plan • Commitment to completing the plan development

The Memorandum of Understanding for the Implementation Phase of the Partners in Energy program will be developed upon completion of your energy action plan and will outline your goals and the resource commitment from Xcel Energy and the City of Bloomington.

All communications pertaining to this agreement shall be directed to Mary Hurliman, on behalf of the City of Bloomington, and Tami Gunderzik on behalf of Xcel Energy.

Thank you again for your continued interest in Xcel Energy's Partner in Energy program. We look forward to assisting the City of Bloomington in the development of an action energy plan.

For the City of Bloomington:

Mary Hurliman

Date: 8/17/17

For Xcel Energy:

Date: _____

RESOLUTION ENDORSING THE DECLARATION OF A CLIMATE CRISIS AND INITIATING A MOBILIZATION EFFORT TO RESTORE A SAFE CLIMATE

WHEREAS, human activities have increased concentrations of heat-trapping greenhouse gases in the global atmosphere, causing an increase in average global temperatures and widespread changes to local climates; and

WHEREAS, based on global temperature data, 2014-2019 were the six warmest years on record, and the 20 warmest years on record have occurred within the past 22 years; and

WHEREAS, the climatic changes resulting from global warming above 1.5°C above pre-industrial levels, are projected to result in irreversible, catastrophic disruptions to public health, livelihoods, quality of life, food security, water supplies, human security, and economic growth; and

WHEREAS, since April 2016, all 197 nations on Earth have recognized the urgent need to combat climate change by signing the Paris Climate Agreement, agreeing to keep global warming “well below 2°C above pre-industrial levels” and to “pursue efforts to limit the temperature increase to 1.5°C;” and

WHEREAS, in October 2018, the United Nations released a special report which projected that limiting warming to the 1.5°C target this century will require an unprecedented transformation of every sector of the global economy by 2030; and

WHEREAS, assessments on biodiversity show that nature is essential for high quality human life, that nearly a quarter of species in the Americas are at risk of extinction, and over half of Minnesota birds are threatened by climate change; and

WHEREAS, the United States of America, the State of Minnesota, and the City of Bloomington have contributed to the climate and ecological crises in measures disproportionately high compared to their shares of the global population, and thus bear an extraordinary responsibility to rapidly solve these crises; and

WHEREAS, the City of Bloomington has supported climate action and greenhouse emission reductions, including:

- (1) In 2016, designating Environmental Sustainability as one of six strategic priorities for the City;
 - (2) In August 2017, passing a resolution in support of the Paris Climate Agreement;
 - (3) In May 2018, approving a community-wide Energy Action Plan to reduce greenhouse emissions;
- and

WHEREAS, despite these priorities, resolutions, and plans, greenhouse emissions within the City are not significantly decreasing; and

WHEREAS, in July 2019, resolutions were introduced in both chambers of the United States Congress to declare a national climate emergency in the United States, calling for a “national, social, industrial, and economic mobilization of the resources and labor of the United States at a massive scale to halt, reverse, mitigate, and prepare for the consequences of the climate emergency and to restore the climate for future generations;” and

WHEREAS, vulnerable populations, who are the first to experience the impacts of climate change and are affected the most severely, deserve the opportunity to participate actively in the planning and implementation of this mobilization effort, and to benefit first from the transition to a climate-safe economy; and

WHEREAS, the massive scope and scale of action necessary to stabilize the climate and biosphere will require unprecedented levels of public awareness, engagement, and deliberation to develop and implement effective, just, and equitable policies to address the climate crisis; and

WHEREAS, climate change is a threat multiplier with the potential to:

- (1) exacerbate many of the challenges the United States already confronts, including conflicts over scarce resources, conditions conducive to violent extremism, and the spread of infectious diseases; and
- (2) produce new, unforeseeable challenges in the future; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BLOOMINGTON MINNESOTA that based on the foregoing:

The City declares that a climate and ecological crisis threatens our city, region, state, nation, civilization, humanity, and the natural world;

The City commits to an increasing mobilization effort to reverse global warming and the ecological crisis, which, with appropriate financial and regulatory assistance from State and Federal authorities, aims to reduce city-wide greenhouse emissions by 75% before 2035, while ensuring a just transition for residents;

The City commits to support this mobilization effort by continuing to build capacity and support for initiatives started in the first two years of Bloomington's Energy Action Plan implementation and ramp up implementation for Energy Action Plan recommendations.

These recommendations include:

Environmental Justice

- Use Bloomington's racial equity assessment to evaluate proposed sustainability initiatives.
- Provide environmental justice training opportunities for staff and elected officials.
- Develop a process to ensure Frontline Community members are included in the development of the City's sustainability goals and strategies.

Business

- Share energy data and goal progress with the public.
- Commercial benchmarking policy.
- Develop strategies to promote energy efficiency measures in multifamily buildings.
- Require developments to build to a higher green standard if they receive City funding.
- Start to explore and promote onsite renewable energy options for businesses.
- Explore incentives (e.g. property tax credits, utility franchise fee waivers, regulatory waivers) for choosing renewable energy sources.

Municipal

- Complete ENERGY STAR Portfolio Manager and B3 benchmarking automation for natural gas, electricity, and water use for city facilities.
- Commit to an emissions reduction goal for municipal operations, with the intention of setting one more aggressive than the city-wide goal
- Develop a plan for reducing fleet emissions by incorporating the following strategies when appropriate: downsizing/rightsizing, purchasing hybrid vehicles, purchasing electric vehicles.
- Develop a process to incorporate B3 data into City decision-making processes to reduce energy and water waste.

- Develop a process to consider lifetime carbon emissions when purchasing energy intensive municipal equipment.
- Research and present to the Council for deliberation green building codes that would continuously promote higher building standards and performance for future building development.

Residential

- Share residential 1-4 unit energy data and goal progress with the public.
- To incentivize investments in energy efficiency, require an energy audit disclosure with estimated energy costs, as part of real estate transactions.
- Establish a financing program for greenhouse gas emission-reducing home improvements, similar to the existing Housing and Redevelopment Authority programs.
- Develop partnerships to increase promotion of existing energy assistance and weatherization programs.
- Continue to promote and discount services like the Home Energy Squad program and Energy Advisor Service that provide discounted and free energy efficiency resources to residents.

Transportation

- Collect transportation data and use data to create greenhouse gas emission reduction goals from the transportation sector.
- Share transportation data and goal progress with the public.
- Continue to support the Alternative Transportation Plan, which focuses on increasing opportunities for biking and walking within the city.
- Conduct education to promote healthcare benefits associated with biking.
- Increase efficient, safe, and affordable access to Civic Plaza and essential services by public transportation, bicycle, walking, and scootering.
- Develop a strategic plan for developing a more EV-friendly city.

The City commits to engaging our residents in public deliberations on the climate emergency, which will directly inform the implementation of Bloomington's Energy Action Plan in order to accomplish this city-wide climate mobilization effort and to ensure a just transition with the full democratic participation of the residents of Bloomington;

The City recognizes that the full participation, inclusion, support, and leadership of community organizations, especially those representing vulnerable populations within the City, are integral to the climate crisis response and mobilization efforts, and commits to invite and encourage such organizations and populations to actively participate in the development and implementation of the Energy Action Plan, and all associated efforts, in ways that are safe and accessible for them.

Passed and adopted this ____ day of _____, 2020.

Mayor

Attest:

Secretary to the Council

RESOLUTION ENDORSING THE DECLARATION OF A CLIMATE CRISIS AND INITIATING A MOBILIZATION EFFORT TO RESTORE A SAFE CLIMATE

WHEREAS, human activities have increased concentrations of heat-trapping greenhouse gases in the global atmosphere, causing an increase in average global temperatures and widespread changes to local climates; and

WHEREAS, based on global temperature data, 2014-2019 were the six warmest years on record, and the 20 warmest years on record have occurred within the past 22 years; and

WHEREAS, the climatic changes resulting from global warming above 1.5°C above pre-industrial levels, are projected to result in irreversible, catastrophic disruptions to public health, livelihoods, quality of life, food security, water supplies, human security, and economic growth; and

WHEREAS, since April 2016, all 197 nations on Earth have recognized the urgent need to combat climate change by signing the Paris Climate Agreement, agreeing to keep global warming “well below 2°C above pre-industrial levels” and to “pursue efforts to limit the temperature increase to 1.5°C;” and

WHEREAS, in October 2018, the United Nations released a special report which projected that limiting warming to the 1.5°C target this century will require an unprecedented transformation of every sector of the global economy by 2030; and

WHEREAS, assessments on biodiversity show that nature is essential for high quality human life, that nearly a quarter of species in the Americas are at risk of extinction, and over half of Minnesota birds are threatened by climate change; and

WHEREAS, the United States of America, the State of Minnesota, and the City of Bloomington have contributed to the climate and ecological crises in measures disproportionately high compared to their shares of the global population, and thus bear an extraordinary responsibility to rapidly solve these crises; and

WHEREAS, the City of Bloomington has supported climate action and greenhouse emission reductions, including:

- (1) In 2016, designating Environmental Sustainability as one of six strategic priorities for the City;
 - (2) In August 2017, passing a resolution in support of the Paris Climate Agreement;
 - (3) In May 2018, approving a community-wide Energy Action Plan to reduce greenhouse emissions;
- and

WHEREAS, despite these priorities, resolutions, and plans, greenhouse emissions within the City are not significantly decreasing; and

WHEREAS, in July 2019, resolutions were introduced in both chambers of the United States Congress to declare a national climate emergency in the United States, calling for a “national, social, industrial, and economic mobilization of the resources and labor of the United States at a massive scale to halt, reverse, mitigate, and prepare for the consequences of the climate emergency and to restore the climate for future generations;” and

WHEREAS, vulnerable populations, who are the first to experience the impacts of climate change and are affected the most severely, deserve the opportunity to participate actively in the planning

and implementation of this mobilization effort, and to benefit first from the transition to a climate-safe economy; and

WHEREAS, the massive scope and scale of action necessary to stabilize the climate and biosphere will require unprecedented levels of public awareness, engagement, and deliberation to develop and implement effective, just, and equitable policies to address the climate crisis; and

WHEREAS, climate change is a threat multiplier with the potential to:

- (1) exacerbate many of the challenges the United States already confronts, including conflicts over scarce resources, conditions conducive to violent extremism, and the spread of infectious diseases; and
- (2) produce new, unforeseeable challenges in the future; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BLOOMINGTON MINNESOTA that based on the foregoing:

The City declares that a climate and ecological crisis threatens our city, region, state, nation, civilization, humanity, and the natural world;

The City commits to a mobilization effort to reverse global warming and the ecological crisis, which, with appropriate financial and regulatory assistance from State and Federal authorities, aims to reduce city-wide greenhouse emissions by 75% before 2035, while ensuring a just transition for residents;

The City commits to support this mobilization effort by directing the following:

- That an all-staff meeting or series of meetings be held to educate city staff and commissioners on the latest climate science, and the mobilization of resources needed in response, within four weeks of the date of this resolution;
- That all City departments and commissions report back within 60 days of the date of the all-staff meeting or meetings referenced above, on maximum crisis-level reductions in greenhouse gas emissions from their operations feasible by the end of 2030;
- That the Planning Division reports back on opportunities for significant greenhouse gas emissions reductions and drawdown opportunities through updates to the Comprehensive Plan and District Development Plans, including metrics that prioritize decreasing per-capita fossil fuel consumption;
- That the City Clerk, in cooperation with relevant staff and Commissioners, shall include greenhouse gas impact statements in all relevant Council motions, similarly to how it currently includes fiscal impact statements;
- That the City Manager and Emergency Management Department report back on opportunities and funding to address the climate and ecological crises and its impacts through existing hazard mitigation programs;
- The establishment of a Climate Crisis Mobilization Task Force to oversee the city-wide mobilization effort, with all necessary powers to coordinate City climate programs including the development of a 10-year “Climate Mobilization Action Plan” to guide the climate crisis response;
- The prioritization of all existing climate-focused City initiatives, including the Organics Recycling, Sustainable Building Policy, Energy Benchmarking, and Time of Sale Energy Disclosure programs;
- The inclusion in its Federal and State Legislative Programs support for any legislation that would initiate an emergency-speed mobilization to reverse global warming and the ecological crisis, as described in the text of this Resolution, including US H.Con.Res.52 and S.Con.Res.22,

“Expressing the sense of Congress that there is a climate emergency which demands a massive-scale mobilization to halt, reverse, and address its consequences and causes;”

- That a certified copy of this resolution shall be sent to Hennepin County, the State of Minnesota, and all Special Districts encompassing all or a portion of the City, as well as to all elected officials representing the City or a portion thereof, including County Commissioners, State Representatives and Senators, US Representatives and Senators, and the State Governor, requesting that all relevant support and assistance in effectuating this resolution be provided.

The City commits to engaging our residents in public deliberations on the climate emergency, which will directly inform the creation of the City Climate Mobilization Action Plan in order to accomplish this city-wide climate mobilization effort and to ensure a just transition with the full democratic participation of the residents of Bloomington;

The City recognizes that the full participation, inclusion, support, and leadership of community organizations, especially those representing vulnerable populations within the City, are integral to the climate crisis response and mobilization efforts, and commits to invite and encourage such organizations and populations to actively participate in the development and implementation of the Climate Mobilization Action Plan, and all associated efforts, in ways that are safe and accessible for them.

Passed and adopted this ____ day of _____, 2020.

Mayor

Attest:

Secretary to the Council



Commission Agenda Item

Originator Public Works	Item Racial Equity Presentation Debrief
Agenda Section ORGANIZATIONAL BUSINESS	Date August 18, 2020

Requested Action:

Share reflections from the Sustainability Commission's August 5, 2020 Special Meeting.

Description:

Sustainability Commissioners debrief on Racial Equity Coordinator Jackson's presentation on August 5, 2020.



Commission Agenda Item

Originator Public Works	Item Guests at Sustainability Commission Meetings
Agenda Section ORGANIZATIONAL BUSINESS	Date August 18, 2020

Requested Action:

Determine how to engage with guest observers at Sustainability Commission meetings.

Description:

Chair Sandry and Coordinator Struss will provide specific options for discussion.



Commission Agenda Item

Originator Public Works	Item Amplifying Community Outreach
Agenda Section ORGANIZATIONAL BUSINESS	Date August 18, 2020

Requested Action:

Discuss opportunities for Commissioners to promote sustainability initiatives through social media platforms.

Description:

Chair Sandry will provide suggestions and additional information about social media outreach opportunities.



Commission Agenda Item

Originator Public Works	Item 2020 Work Plan Updates
Agenda Section STRATEGIC ITEMS	Date August 18, 2020

Requested Action:

Provide updates on 2020 work plan initiatives.

Description:

Provide updates on:

- Community Based Social Marketing Debrief Meeting
- Time of Sale Energy Disclosure Policy
- Benchmarking Efficiency Program
- Home Energy Squad Inter-City Competition
- Reducing Energy Burden
- Commercial Irrigation Pilot
- Curbside Organics
- Ecological Land Stewardship Initiatives
- Earth Day Event
- 2020-21 GreenCorps Member

Attachments:

[2020 Work Plan - August Update Summary](#)
[MN GreenCorps 2020-21 Bloomington Host Site Work Plan](#)
[2020 Earth Day 08-11-2020 Meeting Agenda](#)

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
PLANNING / ADMINISTRATION / OVERALL								
GreenStep Cities Step 4	<ul style="list-style-type: none"> Create process and platform for data collection Hold kick-off with staff City-wide data collection Submit metrics to GreenSteps Hold debrief meeting with staff Present findings to leadership <p><i>Goal: Achieve Step 4</i></p>	X		Currently Working On	Inform	Sustainability Coordinator	City Staff	<p>Achieved Step 4!</p> <p>Next Steps: Debrief about Step 4 reporting process. Discuss how data will be used. Schedule time to present award on City Council agenda when Step 4 blocks arrive.</p>
GreenStep Cities Best Practices Documentation	<ul style="list-style-type: none"> Update Bloomington's GreenSteps Cities reporting page to reflect completed best practices <p><i>Goal: Have at least 90% of completed sustainability best practices documented in GreenSteps by end of 2020</i></p>	NA		Not Started	Inform	Sustainability Coordinator	City Staff	<p>The City has not submitted sustainability best practice actions between 2018-2020 to GreenStep Cities.</p> <p>Next Steps: Review best practices and add action details as needed.</p>
Training on Community Based Social Marketing	<ul style="list-style-type: none"> Register Sustainability Commissioners for CBSM training workshops Attend trainings in June Discuss application of learnings <p><i>Goal: Training and Implementation of Community Based Social Marketing</i></p>			Currently Working On	Collaborate	Sustainability Coordinator	Chair Sandry Commissioner White Commissioner Erdmann	<p>Commissioner Erdmann, Chair Sandry, and Commissioner White attended the June 15-16 workshop along with Laura Horner, Public Works Project Coordinator and Jack Distel, Water Resources Specialist. They held a debrief meeting on</p> <p>Next Steps: Incorporate CBSM learnings into GreenCorps 2020-21 alternative transportation project, 2021 air sealing and insulation pilot, solid waste initiatives, and water quality initiatives.</p>
Community Based Social Marketing Pilot	Pilot to apply learnings from community-based social marketing training			Not Started				<p>At April Sustainability Commission Meeting the Commission decided to start this initiative after June CBSM workshop.</p> <p>Next Steps: Working to identify a good pilot on an initiative that is about to be started.</p>
GreenCorps Application (Sustainability Staffing)	<ul style="list-style-type: none"> Write application Coordinate with staff and community partners on application Apply for GreenCorps intern by March 18th <p><i>Goal: Continue to leverage interns and volunteers</i></p>	X		Currently Working On	Inform	Sustainability Coordinator		<p>Sent the MPCA finalized work plan.</p> <p>Next Steps: Complete paperwork.</p>
City Website Updates	<ul style="list-style-type: none"> Update the Sustainability Commission webpage with accurate 2020 information Improve the structure and content to make it easier for businesses and residents to find information 			Currently Working On	Collaborate	Sustainability Coordinator	Sustainability Commissioners MN GreenCorps Member	<p>Sustainability Coordinator Struss requested Sustainability Commissioner bios for the roster on the website. Heard from nine. Waiting on two.</p> <p>Next Steps: SC Struss updates Sustainability Commission webpage once commissioners send their bios.</p>

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
MUNICIPAL / POLICY								
Commercial Building Energy Disclosure	<ul style="list-style-type: none"> Participate in Hennepin County's Efficient Buildings Collaborative by attending three workshops Engage community stakeholders Draft benchmarking policy Get feedback on benchmarking policy from stakeholders Bring proposed policy to Council <p><i>Goal: Benchmarking / Disclosure ordinance passed by Council</i></p>			Currently Working On	Collaborate	Sustainability Coordinator	Chair Sandry Commissioner Flagg Commissioner Strommen City Staff	<p>The third Hennepin County Efficient Buildings Collaborative workshop was held on June 2nd. Sustainability Coordinator Struss has been meeting with staff to discuss logistics and coordinate next steps for community engagement.</p> <p>Next Steps: Complete 1 page overview sheet, hold Lunch & Learn for staff in August, complete Bang the Table training and get materials posted.</p>
Energy disclosure for renters	Goal: energy disclosure for renters			Not Started				<p>Next Steps: Explore what other communities have done for renter energy disclosure.</p>
1-4 Unit Residential Building Energy Disclosure (Time of Sale)	Goal: Residential Energy Disclosure ordinance passed by Council			Currently Working On		Sustainability Coordinator	Chair Sandry Commissioner Flagg Commissioner Strommen City Staff	<p>Sustainability Coordinator Struss has been in conversations staff. The Center for Energy and Environment offered free consulting services during the research phase of this initiative. The first planning session was held on 8/6.</p> <p>Next Steps: Hold send planning meeting for the initiative facilitated by CEE.</p>
Sustainability Standards for Development (Sustainable Building Policy)	Goal: Ordinance passed by Council requiring Planning & Port Authority to develop a set of sustainability standards for new commercial construction, to be required when possible/feasible. Work with Community Development to complete these.			Currently Working On	Consult	Sustainability Coordinator	Chair Sandry Commissioner Flagg Commissioner Strommen City Staff	<p>The Planning Commission is also exploring sustainability best practices in their 2020 work plan. Potential ACEEE support in 2021 through the Sustainable States Energy Challenge.</p> <p>Next Steps: Learn more about the Planning Commission's work plan and continue to line up 2021 support.</p>

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
ENERGY AND CARBON								
COMMERCIAL / INDUSTRIAL / INSTITUTIONAL								
RESIDENTIAL								
Residential Energy Efficiency and Renewable Programs Home Energy Squad Energy Kits Windsource Refrigerator Recycling	Goals: 500 Home Energy Audits -- including participating in the inter-city HESV challenge 30 New Wind Source Subscriptions 250 households participate in the Refrigerator Recycling program.			Currently Working On	Collaborate	HES Challenge: Chair Sandry Virtual HES/Energy Kits: Sustainability Coordinator Community Outreach Coordinator Smith		Home Energy Squad: In-person visits and virtual HES visits are an option. Information about the Inter City HES Challenge is being shared on the City's social media and website. www.mncee.org/home-energy-squad/intercity-challenge/ Next Steps: Continue to promote the Inter City HES Challenge. Energy Kits: Xcel Energy is doing a second round of free energy kit promotion and shared the results of the first round: 57 APS Kits, 437 LEDs & Showerheads. Next Steps: Complete Round 2 of the Pilot Refrigerator Recycling: Program still running during COIVD-19 with curbside pick-up. Chair Sandry researched fridge recycling- promote in Q3 & Q4. Next Steps: Promote program in Q3 & Q4.
Multi-family Energy Efficiency	Goal: 15 Multi-family buildings participate in an audit 10 make significant energy improvements			On Hold	Inform	Sustainability Coordinator		On hold due to COVID-19. Sustainability Coordinator Struss and Deputy Director Biales continue relationship building as able. Next Steps: Attend Bloomington Public Health Webinar on Renter-Centered Planning on July 21st
Reducing Residential Energy Burden in Bloomington	Use data from Bloomington's energy utilities, the City, and DOE's Low-Income Energy Affordability tool to identify residents with the highest energy burdens and work with the HRA and energy nonprofits like CEE to identify how to help residents complete energy-efficiency projects.			Currently Working On		Sustainability Coordinator		Sustainability Coordinator Struss has been working with Bloomington's energy utilities to disaggregate program participation data by Census Tract. Struss and Racial Equity Coordinator Jackson have been applying Bloomington's Racial Equity Inventory Assessment to an airsealing and insulation pilot Struss is working on. Targeting a presentation to Bloomington's HRA Commission on August 25th. Next Steps: Meeting with CenterPoint Energy about ASI pilot week of August 24th.
ELECTRIC VEHICLES								
Applying for VW Settlement Money and Participating in Cities Charging Ahead Phase 2				Not Started				At April Sustainability Commission Meeting the Commission decided to work on this initiative between July-Dec 2020.

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
SOLID WASTE								
Grow Participation in the Organics Drop off	Goal: 400 New Households sign up for the program Increase drop-off to 80 tons. July-Dec explore adding an additional drop off site.			Currently working on	Inform	Deputy Director of Public Works Public Works Project Coordinator	Chair Sandry City Councilmember Lowman Commissioner Jaimez Commissioner White	At April Sustainability Commission Meeting the Commission decided to continue to promote participation in Bloomington's organics drop-off program. Modify outreach to reflect COVID-19 needs. Next Steps: Update City website to allow residents to request a free, no-contact, bin drop-off. Promote program using City communication channels. Laura and Ellen discussing a 3rd site. Looking into a keypad entry for drop off sites. Investigating how to reduce contamination.
Virtual Composting Workshop	Meg Hannasch, GreenCorps Member, will develop and deliver a home composting webinar to provide educational support for the organics drop-off program outreach.			Complete		Minnesota GreenCorps Member	Deputy Director of Public Works Public Works Project Coordinator	On June 25, several residents joined Bloomington's GreenCorp Member, Meg Hannasch, for a virtual workshop on organics recycling. Participants learned about the process of turning organic material into compost, how Bloomington's organics drop-off program works, and the items that can be composted. They also had the opportunity to "tour" the kitchens of a few people who participate in home organics collection to get tips on how to make a home setup work. If you missed the virtual workshop, it's not too late to learn about home composting. A video of the workshop is now available. Check it out or look for more information on Bloomington's organics program at www.blm.mn/organics . Next Steps: Finish distributing compost bins.
City-wide Curbside Organics Pick-up				Currently Working On		Deputy Director of Public Works Public Works Project Coordinator		Now that the City-wide Garbage contract has been completed, staff began conversation with the hauling consortium this week related to implementation of a City-wide Curbside Organics program. The haulers are going to develop some recommendations for the City to consider. Those will likely be received later this fall. A citywide program will need to be in place by Jan. 1, 2020 Next Steps:
Increase Sustainability of Spring Curbside Clean-up Program. Continue to explore ways to improve the sustainability of the Spring Curbside Clean-up program.	Detailed proposal and implementation plan that is approved by Council. Implementation plan developed and approved	X		Currently Working On	Collaborate	Deputy Director of Public Works Public Works Project Coordinator	Commissioner Bouta Chair Sandry City Councilmember Lowman Commissioner	Decided to include an article about Curbside clean-up revisions in the September Briefing. Next Steps: Review draft Briefing article.

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
WATER RESOURCES								
Promote adopt a Storm Drain	80 Households adopt a drain	NA		Currently Working On		Water Resource Specialist Community Outreach Coordinator Brewster		No new updates. Next Steps:
Commercial / Industrial / Institutional Water Conservation	15 - 20 Businesses participate in a irrigation assessment and improvement program	X		Currently Working On	Collaborate	Deputy Director of Public Works Chair Sandry		Letter have been sent to the top 100 commercial water users and our parner Rain Dance has been doing phone follow ups. There are couple of sites that are interested and ready to participate in the assessment. The pandemic is proving to be a bit of a distraction. Next Steps:

INITIATIVE	Initiative Description	Kick off Meeting	Close Out Meeting	Status	Type of Engagement	Project Lead	Project Collaborators	Updates
ECOLOGICAL LAND STEWARDSHIP								
Restoration in the MNRV -- Parkers Picnic Ground	The restoration for phase I is completed and a grant for phase II is submitted			Currently Working On		Commissioner Bouta		Staff reached out to determine status of project. Next Steps: Receive status update.
Participate in the updating of the 20 year PARCs plan to help develop the strategies for preserving / restoring high value Natural Open Spaces including: -- Trail and Sign Plan strategy -- Develop outreach programs to educate and address invasive species	Pilot programs identified and implemented			Currently Working On	Consult	Sustainability Coordinator	Commissioner Bouta Chair Sandry Commissioner Erdmann	Commissioner Bouta, Commissioner Erdmann, and Chair Sandry worked with Sustainability Coordinator Struss to provide sustainability recommendations for the Parks System Master Plan. Next Steps:
Trail and Sign Plan strategy for ALL Natural Open Spaces.	Strategy / plan for trail and sign plans for all Natural Open Spaces. This may be incorporated into the overall PARCs plan			Not Started				Not Started. Next Steps:
Develop a restoration and maintenance strategy for all Natural Open Spaces Managed by CofB.	Strategies for restoring / maintaining natural open spaces developed and included in the PARCs master plan			Not Started				Not Started. Next Steps: Deputy Director Biales is working with PARCs staff to determine any next steps.
Collaborating with Parks and Recreation Communications staff to promote sustainability education in City parks	Incorporating sustainability education into Parks & Rec outreach pieces			Currently Working On				Deputy Director Biales reached out to Communications about developing an educational buckthorn video. Next Steps: Develop video.

Minnesota GreenCorps Member workplan

Program Year 2020-2021
Air Pollutant Reduction

Member Name:	Organization, City: City of Bloomington
Supervisor Name: Emma Struss	Date: 6/19/20
Supervisor Email: estruss@bloomingtonmn.gov	Supervisor Phone: Desk: 952-563-4862 Cell: 612-247-9781

Overview: The workplan outlines primary member activities, their projected results, and the approximate timeframe for each activity and serves as a guide for members and supervisors during the service term. The workplan is a working document and minor changes may arise during the year. Significant changes to the workplan must be discussed with program staff in advance and will require the submission of a revised workplan.

Instructions: Complete this workplan based on the work plan submitted in the host site application, incorporating any changes discussed with program staff during interview or selection. Reference the position description outlined below and relate the member activities to those goals and objectives. Include anticipated outputs/deliverables as applicable. In addition, to minimize service disruption due to COVID-19, please complete the COVID-19 contingency planning section.

- Members begin service at their host site on Monday, September 21.
- Members serve 1700 hours total and 300 training hours are already included in the template below. Please input site activities totaling 1400 hours.

Member Activities	Projected Results/Measures	Approximate hours allocated and timeline for each responsibility (ex: 300 hours, October – March or ongoing)
MN GreenCorps required orientation and quarterly trainings (approx. 100 hours) Other trainings, workshops, conferences (up to 170 hours) Civic engagement activities (up to 100 hours)	Members attend all required MN GreenCorps trainings, including the 3-day orientation in September and quarterly trainings. With approval from host supervisors and program staff, members participate in conferences, workshops and other site specific trainings. Members participate in civic engagement activities to broaden their experience and further engage in their community. Members gain technical and professional skills to apply to their service projects and grow their professional network.	300 hours September – August
Collaborating with Southgate Collective Impact community partners to develop a community-based alternative transportation campaign to minimize transportation barriers for residents renting in the Southgate community (244 units, ~1,000 residents). Southgate apartments are located in an Environmental Justice Area of Concern. (8100 12th Ave S, Bloomington, MN 55425). Depending on need and interest this may	September: Get acquainted to the City and Southgate community <ul style="list-style-type: none"> • Background research: <ul style="list-style-type: none"> ◦ Read through City transportation plans, 	~530 hours, September 2020- March 2021

<p>include, but is not limited to: organizing a "how to ride the bus" event, connecting residents with reduced-fare transit passes, working with residents to identify and address cycling barriers, exploring vanpool options, etc.</p>	<ul style="list-style-type: none"> ordinances, and policies <ul style="list-style-type: none"> ○ Member familiarizes themselves with Bloomington's existing alternative transportation support services ○ Attend Southgate Collective meetings ○ Learn about Bloomington's racial equity inventory assessment • Training: <ul style="list-style-type: none"> ○ Community engagement tools • Introductions: <ul style="list-style-type: none"> ○ Meet City staff, community partners, and Southgate residents October: Begin CBSM Camapign • Training: <ul style="list-style-type: none"> ○ Community-based social marketing training • (CBSM Step 1 & 2) 1 survey of the ~1,000 Southgate residents, 3-5 focus groups, and 2-3 observations to select end-state, non-divisible behaviors and identify barriers & benefits for pilot. The are 244 units in the Southgate apartment complex. • Identify baseline transportation habits • Identify perceived barriers and benefits to walking, biking, carpooling, telecommuting, and using public transit • Identify resident interest in pilot participation • Set VMT-reduction goals for pilot based upon baseline transportation data and participation interest • Community education about alternative transportation options November-March: • (CBSM Step 3) Work with City staff, Southgate Collective partners, Commuter Services, and residents to develop strategies that change 1-2 transportation behaviors using data from Steps 1 & 2. • Strategies apply CBSM best practices • Strategies will be implemented during a two-month pilot • Support from Communications, Community Outreach, and Engagement, Public Health, and Public Works staff to develop campaign • \$5,000 available for strategy implementation in addition to in-kind staff hours 	
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Implementing an alternative transportation commuting campaign for Southgate residents using community-based social marketing techniques.	<p>April-May: (CBSM Step 4) Launch and manage two-month pilot working with City staff, Commuter Services, residents, and Southgate community partners.</p> <p>June: (CBSM Step 4) Pilot debrief & lessons learned</p> <ul style="list-style-type: none"> • Develop, distribute, and analyze post-pilot survey to 244 Southgate apartment units • Hold focus groups to get feedback from pilot participants. 	~180 hours, April 2021-June 2021
Summarizing campaign results and proposing long-term alternative transportation investments to City leadership and staff.	<p>July-August: Final report to City Council, City staff, and the community summarizing pilot results and VMT reduction recommendations.</p> <ul style="list-style-type: none"> • Summarize lessons learned in PowerPoint presentation • Present pilot results and recommendations to City leadership, community partners, and staff • Organize meetings with City staff and community partners to discuss CBSM Step 5-Broad Scale Implementation, the sustainability of VMT-reduction, environmental justice work, and alternative transportation initiatives in Bloomington. 	~180 hours, July 2021-August 2021
Educating City staff and community members about alternative transportation options. Completing the first two steps of a community-based social marketing campaign for City staff.	<ul style="list-style-type: none"> • (CBSM Step 1 & 2) 1 survey of City staff, 3-5 focus groups, and 2-3 observations to recommend end-state, non-divisible behaviors and identify barriers & benefits for a future pilot. • Identify City staff baseline transportation habits <ul style="list-style-type: none"> ◦ VMT from at least 50% of City staff commutes for GreenStep Cities reporting • Identify City staff's perceived barriers and benefits to walking, biking, carpooling, telecommuting, and using public transit to get to and from work. • Summarize and communicate results to 600 City staff and distribute to community via the Bloomington Briefing. 	~200 hours, September 2020-August 2021
Assist with community-conversation events to get feedback on Bloomington's alternative transportation needs, and how to incorporate equity and inclusion into VMT-reduction strategies.	Work with Community Outreach and Engagement Staff, Sustainability Coordinator, and Racial Equity Coordinator to Complete 2-3 community conversations.	~100 hours, October 2020-August 2021

Promote and encourage the use of hybrid and electric vehicles through education and outreach in the community. Assist with developing infrastructure for electric vehicles, including charging stations and workplace charging. Attend alternative transportation workshops and events. Assist the City's fleet manager with EV education and research.	Educate City staff and community members about the two EV charging stations at Civic Plaza, the environmental benefits of EVs, and resources to learn more about hybrid and electric vehicles.	~70 hours, September 2020-July 2021
Chloride reduction- smart salting at City facilities.	Fall- Hold a Level 1 Smart Salting refresher course with staff responsible for sidewalk and road salting. Meet with managers to discuss chloride application tracking during winter of 2020-21 so the City has data to create a reduction goal for winter of 2021-22.	~70 hours, September 2020-July 2021
Attend Sustainability Commission monthly meetings and other City and events relevant to alternative transportation work.	Communicate status updates to the Sustainability Commission about alternative transportation work.	~30 hours, September 2020, July 2021
Assist with 2020 GreenStep Cities Step 4 Metrics Reporting.	Submit 2020 metrics to MN GreenStep Cities to compare progress to 2019 benchmarks.	~40 hours, January 2021-May 2021

COVID-19 Contingency Planning

Indicate how you will ensure that your organization has the technical ability and organizational capacity to enable the member to teleserve if required (i.e. laptop, VPN, Skype, alternative supervision, etc.)

We will be able to support teleserving by providing a computer with VPN connection and Webex video conferencing. Ellen Biales, Deputy Director of Public Works, will provide alternative supervision if needed.

If applicable, indicate what activities listed above could not be performed remotely and list replacement activities and corresponding hours.

The activities the member would not be able to perform remotely include:

- In-person engagement with Southgate residents including: focus groups, educational events, pilot planning meetings (100 hrs). Replacement activities could include using social distance engagement tools such as scheduling phone calls and depending more on paper surveys for engagement.
- Depending on the recommended pilot strategies, there might be strategies that cannot be accomplished remotely. If this is the case, a portion of the 180 hours dedicated to pilot implementation would be transferred to assist on activities such as: virtual alternative transportation education, reporting City benchmarking data from B3, encourage City staff and/or community members to use alternative transportation via online engagement, provide electric vehicle information to fleet manager, facilitate virtual focus groups to help identify transportation needs, strategies, and goals for the City.

Air pollutant reduction member position

Service position summary

Work with local government(s), school districts, nonprofit and community-based organizations, and their partners to decrease the overall energy use of buildings and vehicles through benchmarking/assessment, engagement, and implementation of conservation and efficiency measures (such as scheduling of HVAC/lighting systems or fleet reservations, equipment retrofits or replacement, expanded multimodal transportation to reduce vehicle miles traveled, employee engagement and behavior change campaigns). Encourage the transition to clean energy sources for building operations and vehicle refueling. Reduce emissions of air pollutants (e.g., fine particulates, toxics, GHGs) and strengthen the resilience of communities through greater preparedness for challenging circumstances, including adapting to Minnesota’s changing climate. Address the impacts of more frequent freeze-thaw cycles and ice formation by improving facilities and transportation management/application of chloride (road salt). Interact with applicable state agencies, utilities, community organizations, and non-profit green building, green fleet, and/or green transportation programs (through campaigns, workshops, events, media, etc.).

Essential functions

- Assist with the collection, benchmarking, and reporting of baseline and current data on energy and water use and GHG emissions for public buildings using existing databases and tools such as the state of Minnesota Buildings, Benchmarks and Beyond (B3), ICLEI and/or Energy Star.
- Retrofit public structures to improve energy efficiency, which includes implementing energy conservation measures to reduce operational energy consumption, upgrading thermal performance, or improving building maintenance. (Examples include aligning the operation of lighting and HVAC equipment with occupant schedules, upgrading to more efficient lighting or equipment, customizing facilities operations manuals, installing smart power strips/sensors/vending misers, exploring plug load/information technology power management strategies. A building is considered retrofitted if the combined energy savings total at least 10,000 kWh per year for structures 15,000 square feet or greater, and prorated for smaller structures.).
- Identify and facilitate state/local government opportunities to finance energy audits, retrofit projects and retro commissioning through the Guaranteed Energy Savings Program (GESp), Local Energy Efficiency Program (LEEP), Energy Savings Partnership, state master contracts, or opportunities as applicable.
- Engage employees to change commuting habits and to make energy and water saving behavioral changes at work and home.
- Encourage reduction of vehicle miles traveled and improved air quality through safe routes to school, biking and walking initiatives (active living), improved vehicle and fleet efficiency, complete streets planning and implementation, education about multi-modal transportation, and facilitation of safety and infrastructure improvements.
- Implement transportation projects with measurable outcomes that reduce vehicle miles traveled by substituting walking, biking, and public transit methods to reduce emissions and improve public health.
- Promote and encourage the use of hybrid and electric vehicles through education and outreach and assisting with developing infrastructure for electric vehicles, including charging stations and workplace charging.
- Provide electric vehicle information to fleet managers to encourage use in public fleets, including operation and maintenance cost savings.
- Promote emission reductions to community members through educational campaigns that target practices and behaviors that alleviate air pollution (i.e., air alert education, carpooling, public transit, biking, car sharing), and those that contribute to air pollution (i.e., burn barrels, gas-powered lawn equipment, backyard fires, vehicle idling, single occupancy vehicles, and low-efficiency wood-burning boilers/stoves/fireplaces).
- Assist facilities management and public works to incorporate best management practices for chloride (road salt) prevention (improved snow removal equipment), product storage, and application.
- Conduct surveys or collect pre/post information from participants in trainings, events, workshops, etc., on commitments to change and changes in behavior with energy conservation and transportation-related practices.
- As applicable, coordinate above activities with the implementation of buildings and lighting, transportation, renewable energy, and community resilience best practices, including those referenced in the Minnesota GreenStep Cities program.

- Assist local governments and their partners with planning on how to institutionalize ongoing savings in energy and water usage and reductions in vehicle miles traveled and vehicle emissions through tracking and follow-up, revised building and vehicle operations and maintenance practices, program marketing, and continued employee engagement.
- Identify, engage, and assist local governments in developing outreach on wood smoke reduction from recreational fires and/or wood heaters.

Marginal functions (not to exceed 340 hours)

- Mobilize volunteers to assist in the implementation of activities.
- Assist with additional sustainability-related projects as outlined in the green infrastructure improvements, waste reduction, recycling and organics management, and community readiness and outreach position descriptions within the host site community. **Host sites are required to outline these activities in the member's work plan.**

Inform and educate host site employees, community organizations, and citizens about member projects and accomplishments via media and public outreach efforts.

EARTHDAY 2020, 50th ANNIVERSARY CELEBRATION: BLOOMINGTON, MN

Theme: Earth Day, the next 50 years

Date / Time: Thursday, 10/22/2020 at 7 p.m. Event to last 90 minutes. Virtual doors (WebEx) open at 6:45 p.m. for participants interested in tech assistance (15 minutes).

Registration: Sustainability Commission Web Page. Will include name and contact information. A link to the page will be included in all promotion materials

Agenda: Opening has to appeal to the heart

Tentative Agenda

Tech tutorial 6:45 p.m. – 7:00 p.m.

Welcome / Greeting – 10 minutes

- Welcome: Youth Commissioners
- “Setting the stage”: Chris Heeter

Sustainable Bloomington: Mayor Busse – 10 minutes

- Sustainability – A Strategic Priority
- What the municipality doing

Poll – 5 minutes

Loss of Biodiversity: Rob Bouta – 10 minutes

- Examples / Case study
- What you can do

Poll – 5 minutes

Impacts of Climate Change: Joe Strommen – 10 minutes

- Locally and around the world and accelerating reference the IPCC Report.
- What you can do

Poll – 5 minutes

Wrap-up / Commitments: Chris Heeter / Youth Commissioners

- Commitments - Youth Commissioner: 20 minutes (75 total)
 - “What We Need From You: “Voices of those who are going to have to live with Consequences”
 - Examples of things you can do
 - Making a Commitment (polling?)
- Polling (evaluation)?
- Wrap Up / Send-off – Cris Heeter



Commission Agenda Item

Originator Public Works	Item Sustainability Coordinator Updates
Agenda Section OTHER BUSINESS AND ANNOUNCEMENTS	Date August 18, 2020

Requested Action:

No formal action needed, for informational purposes only.

Description:

Sustainability Coordinator Struss will provide sustainability updates and announcements.



Commission Agenda Item

Originator Public Works	Item 2019-2020 Minnesota GreenCorps Member Appreciation
Agenda Section OTHER BUSINESS AND ANNOUNCEMENTS	Date August 18, 2020

Requested Action:

No formal action needed, for informational purposes only.

Description:

Chair Sandry will thank 2019-2020 Minnesota GreenCorps Member Meg Hannasch for her service on behalf of the Sustainability Commission.