BURNSIDE

Community Energy Plan

Volume 4
Public Engagement & Consultation Report
Final

Township of Mulmur

June 2020

Community Energy Plan
CEP Volume 4: Public Engagement and Consultation Report

Volume 4

Township of Mulmur
758070 2 Line East
Mulmur, ON

R.J. Burnside & Associates Limited
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June 2020
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Revision	Date	Description
-	December 6, 2019	Initial Draft Submission to Township of Mulmur
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R.J. Burnside & Associates Limited

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Table of Contents

1.0 Introduction 1
1.1 Purpose of the Community Energy Plan (CEP) 1
1.2 Goals 1
1.3 Intended Outcome 2
2.0 Consultation Engagement Efforts and Results 2
2.1 Stakeholder Outreach & Mulmur Meetings 2
2.2 Newsletter and Notices Issued 3
2.3 Social Survey 3
2.4 Public Open House 3
2.4.1 Preparation for the Open House 4
2.4.2 Presentation Materials Provided 4
2.4.3 Presentations 5
2.4.4 Public Open house Findings 6
2.4.5 Final Town Hall Meeting 6
3.0 Conclusions 7

Tables

Table 1: Suggested Emissions Targets 6

Appendices

Appendix A Stakeholders Invitation Letter
Appendix B Meeting Minutes
Appendix C Newsletter
Appendix D Social Survey Response
Appendix E Display Boards and PowerPoint Presentation
Appendix F Handout
Appendix G Ballot Responses
Appendix H Survey Monkey Questionnaire

Disclaimer

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1.0 Introduction

1.1 Purpose of the Community Energy Plan (CEP)

The purpose of the Community Energy Plan is to develop a set of guidelines that will help the Mulmur community:

- Improve energy efficiency;
- Reduce energy consumption and greenhouse gas emissions;
- Study the impact of future growth on energy needs; and
- Foster renewable energy production and economic development.

The planning process evaluates a community's existing energy use and greenhouse gas (GHG) emissions in order to:

- Determine community-wide energy consumption and GHG emissions; and
- Identify and implement solutions to improve energy efficiency and conservation.

R.J. Burnside & Associates Limited (Burnside) in partnership with the Township of Mulmur (Mulmur) have created an Energy Conservation Plan. The plan will be used as a reference tool to track and compare Mulmur's energy consumption and emissions in future years and set goals for reduction of GHG emissions. This plan will also serve as a tool for educational purposes and the report will provide a place to obtain additional information. This report volume provides a summary of public engagement efforts by Mulmur and Burnside. The CEP goals cannot be achieved without the active participation of the Mulmur community as a whole. This is because reaching the goals will depend on each resident in Mulmur taking action at their property to make the changes needed to achieve these goals. This report summarizes the public and municipal engagement carried out to date to encourage resident participation.

Mulmur and Burnside wishes to acknowledge funding provided by the Federation of Canadian Municipalities and the Ontario Ministry of Energy without which this important work would not have been possible.

1.2 Goals

The Public Consultation Program is intended to engage the community and municipal Council and staff to provide feed back and suggestions for the future of Mulmur's energy management and climate change mitigation. We hope this study will inspire those who would like to achieve the general goals noted above and most importantly global efforts to prevent climate change. The CEP four volume report and executive summary identifies things that each resident and business property owner in Mulmur can do to make a difference.

1.3 Intended Outcome

Four main outcomes are intended from these public consultations:

1. Insight into Mulmur's residential and business owners' views on energy conservation and climate change.
2. Gain an understanding from the community on how the Township of Mulmur should tackle these issues on behalf of its residents.
3. Form a task force to facilitate the reports suggested solutions and keep up momentum to encourage engagement on energy reduction and GHG emissions reduction in Mulmur.
4. Finally – encourage the community to take action.

2.0 Consultation Engagement Efforts and Results

2.1 Stakeholder Outreach & Mulmur Meetings

Mulmur has made efforts to identify a stakeholders' group of potential community leaders who might help the municipality champion the CEP. From those identified it is hoped they will help guide CEP progress. Local champions are needed to help understand local challenges for business and residents when making decisions on energy conservation.

A list was created by Burnside comprising of local business, Council members and local government agencies. A total of 22 recipients were contacted on June 1, 2019 with a response rate of 9 percent (two respondents). A typical stakeholder invitation letter can be found in Appendix A.

The stakeholders' outreach efforts were undertaken by Mulmur staff (See Section 2.2 and 2.3 of Meeting Minutes No. 2, provided in Appendix B). It was decided that the Mulmur would contact the stakeholders list via email. The invitation was extended twice to the listed stakeholders.

Several meetings were held with Mulmur staff to provide status updates and obtain direction from the Township. Those meeting minutes can also be found in Appendix B.

As of October 16, 2019, only three contacted stakeholders had replied with interest in participating in Mulmur's CEP.

Stakeholders who initially indicated an interest in participating:

- Nottawasaga Valley Conservation Authority (NVCA);
- Dufferin County Museum; and
- Dufferin County – Climate Change representative.

Following these invitations other individuals have volunteered and now several people have confirmed their interest in the task group. Mulmur has also formally identified a Council member, Shirley Boxem who will Chair the task group committee. The CEP committee will need to establish its terms of reference and focus going forward.

2.2 Newsletter and Notices Issued

A newsletter was created by Burnside and provided with the tax notices issues to all Mulmur property owners. The newsletter was issued in late July 2019. A copy of the newsletter issued can be found in Appendix C. It included a notice of the online social survey and the upcoming public open house along with background information of the CEP study.

The newsletter was also provided to three local newspapers. The Creemore Echo, Shelburne Free Press and Alliston Herald.

2.3 Social Survey

As part of the CEP study Burnside conducted an online social survey to better understand community opinions on CEP related topics. The survey would provide an opportunity to obtain feed back from Mulmur's residents who participated.

The Survey consisted of 16 questions with the main topic on energy conservation. Other topics consisted of climate change, energy reduction solutions, methods for educational outreach regarding the CEP. Postal code confirmation was requested to confirm Mulmur residency and general location.

The survey was available for online use shortly after the CEP newsletter was released as part of Mulmur's tax notice. The CEP flyer contained a link to access the survey and an email address to forward any question, comments or concerns.

Initially there was a poor response to the Social Survey since it was difficult for residents to find on the Mulmur website. The CEP link was subsequently moved to the front page of the website for easier access. As a result, the opportunity to respond to the survey was extended and more responses were received. The survey was available from August 2, 2019 to October 13, 2019. A total of 24 people responded to the survey. This represents about 1% of the total population. The survey provides insight into the views of those who participated. Appendix D contains the analyzed responses from the social survey.

2.4 Public Open House

Mulmur's Economic Development Committee meeting took place on September 28, 2019. It was held at the Mulmur Townhall in Terra Nova. Burnside attended to provide information on Mulmur's CEP, receive feedback and record questions and comments.

2.4.1 Preparation for the Open House

In order to create interest in the event Burnside contacted a well-known personality who could help create interest in homes designed to include energy conservation and renewable energy.

Also, automotive manufactures, Volkswagen (VW), and General Motors (GM) were also contacted to see if there would be an interest in attending the event and bringing an Electric Vehicle (EV).

None of the above parties replied to our request.

The Plug'n Drive Electric Vehicle Discovery Centre was contacted and were interested but unfortunately had a previous engagement on the same day so could not attend.

Burnside will continue facilitate public interest for the next public open house and in the CEP. Other preparations and notices issued are discussed below.

2.4.2 Presentation Materials Provided

Fourteen display boards and a PowerPoint presentation were created by Burnside. The display boards provided results from the CEP study available to that date. The boards encouraged community members to get engaged. These display boards were placed around the meeting room, allowing the attendees to browse the displays at their own speed as they walked around the room. The display boards are shown in Appendix E.

The PowerPoint presentation was played on a loop for people to watch as they walked around the displays. The presentation focused on climate change facts in the form of charts and graphs. A few chairs were placed in front of the viewing screen to allow people to sit and follow the PowerPoint slides. The slides are shown in Appendix E.

2.4.3 Presentations

Photo 1: Economic Development Committee and CEP Public Open House

As the Economic Development Committee and CEP open house meeting commenced the room was grouped into tables consisting of 4 to 10 people. The format was for each group to move on a time schedule to different tables to obtain information from the groups attending. The total population of the room was estimated by Burnside to be around 50 to 60 people.

Lyle Parsons and Katie Carolan from Burnside hosted a table to specifically talk about the CEP. They explained the purpose of the CEP study, encouraged attendants to view the displays and PowerPoint presentation and provided additional information during discussions which followed. Attendants were encouraged to participate in CEP and offer their proposed energy goals for Mulmur. The average presentation lasted 8 minutes consisting of 5 minutes of presenting and 3 minutes for comments or questions to be expressed.

Burnside also provided a handout to each person attending at the table. The handout was titled, “You Can Make a Difference in Your Energy Consumption and Lower your Costs at Home”. This handout can be found in Appendix F.

Participants were urged to submit their comments in a ballot box supplied. Comments provided can be found in Appendix G. To encourage participants to offer their comments a prize was offered by Burnside. The prize winners were randomly selected and prizes mailed to the 3 winners.

2.4.4 Public Open house Findings

Twelve community members submitted ballots. The goal targets and any comments offered on the CEP are provided below.

Table 1: Suggested Emissions Targets

Percentage of Reduction by 2030	Percentage of Reduction by 2040
5%	10%
20%	40%
20%	40%
80%	100%
30%	45%
30%	80%
5%	50%

Other Solutions Suggested Comments

- Turn heat down in the winter and up in the summer;
- Lower hot water temperatures;
- Build/plan infrastructure for electric cars;
- Create more local employment, to reduce commuting;
- Municipal support for upgrades/ changes to lower emissions;
- Convert municipal equipment to electric vehicles;
- Public information campaign for the reduction of new developments; and
- Town Hall Meetings – Four meetings a year solely focused on climate change.

Other Comments

- I would like to be part of the leadership committee; and
- It is futile to look at this from a single, small township perspective. So many of the solutions require broader implementation.

2.4.5 Final Town Hall Meeting

A final public meeting was planned for the spring of 2020 and preparation of materials was underway when the COVID-19 outbreak made it apparent that the meeting should not be held. The draft reports were published for public comment on the Township web site. It is understood that some public comments were received. Staff and council prepared comments on the report and Burnside replied to all comments received. In lieu of the public meeting that was originally planned Burnside proposed an alternative to obtain additional public comments on the draft reports through use of a survey monkey on-line survey provided in Appendix H. Questions were prepared and the survey set up and provided to the Township. The Township determined not to proceed with the survey and asked that we finalize the reports based on the comments previously provided.

3.0 Conclusions

In general terms the overall response to the efforts to engage and consult with Mulmur residents was somewhat less than that we had hoped to achieve. However, it was advised by municipal staff that low turnouts and participation are not unusual. Burnside notes that the CEP efforts are at a very early stage and in our experience, there is usually greater interest generated following release of more information. Through all of the efforts, Burnside was able to gain an appreciation of the Mulmur residents' views on the CEP and on Climate change which were in large part very positive and encouraging. The results obtained with rare exception indicate strong support for action by Council.

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Appendix A

Stakeholders Invitation Letter

TOWNSHIP OF MULMUR

May 24, 2019

Via: Email (lmyers@brucetrail.org)

Ms. Leah Myers
Chief Executive Officer
Bruce Trial Conservancy
P.O. Box 698
Alliston ON L9R 1V9

Dear Ms. Myers:

Re: Township of Mulmur Community Energy Plan Stakeholder Invitation

The Township of Mulmur is creating a Community Energy Plan (CEP) in partnership with R.J. Burnside & Associated Limited. This Community energy program will cover all properties and activities that use various energy sources in the Township and result in a comprehensive long-term plan to improve Mulmur's energy efficiency, reduce energy consumption and greenhouse gas emissions. The work is being funded with an 80% contribution from the Federation of Canadian Municipalities and a 20% contribution from the Ontario Ministry of Energy.

During the plan's development we will be looking at residential, commercial, agriculture, and transportation, energy use across the entire municipality. This CEP will identify opportunities for energy conservation and energy solutions to help support the local economic development and cost savings associated with current energy use.

A key component of this study will be consulting with stakeholders (public and agencies). Input and comments received from public and agencies will be incorporated into the planning and design of this project. It is essential to the success of the CEP that your concerns and comments are identified early in the planning prosses.

The Township is inviting your organization as stakeholders to participate in development of the plan. If your organization is interested, please provide a contact person who we can communicate with directly and who would be available to participate in the planning process. The Township would strongly encourage your organization to become involved since we anticipate that future municipal planning controls may change to reflect the CEP findings. If you decide to directly participate it will potentially involve a teleconference and attendance at a maximum of one or two meetings

If you are interested in participating in the CEP's development, please return a copy of this letter to **lyle.parsons@rjburnside.com** (who is managing this project on behalf of Mulmur) and indicate your interest in this project. All stakeholders who wish to be engaged with the study will be kept up-to-date on project status by means of future mailings. If your organization does not wish to directly participate in the CEP but would like to be kept informed of the its progress, please advise by checking the appropriate box below. If your organization does not wish to be involved, please let us know by checking the box below and return this letter with your response. If we have not heard back from you within three weeks, we will assume that your organization if not interested in participating with the CEP's development.

If you know of others who you think might be interested in participating in this study, please let us know in the space provided below.

Yours truly,

Tracey Atkinson, BES MCIP RPP
CAO/Planner/Deputy Clerk
TA:sp

Enclosure(s) Response List

cc: Lyle Parsons, R.J. Burnside & Associates Limited (enc.) (Via: Email)

☐ **My organization plans to be a full participant**

Our representative will be:

First Name: _____

Last Name: _____

Company (If Applicable): _____

Email: _____

Phone: _____

☐ **I am only interested in receiving periodic information**

Information is to be sent to:

First Name: _____

Last Name: _____

Company (If Applicable): _____

Email: _____

Phone: _____

☐ **I am not interested in participating:**

Suggest others who might be interested in participating in the Community Energy Plan

First Name: _____

Last Name: _____

Company (If Applicable): _____

Email: _____

Phone: _____

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Appendix B

Meeting Minutes

Meeting Minutes No. 2

R.J. Burnside & Associates Limited 15 Townline Orangeville ON L9W 3R4 CANADA
telephone (519) 941-5331 **fax** (519) 941-8120 **web** www.rjburnside.com

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Minutes of Meeting

Meeting Date: April 16, 2019 **Project No.:** 300041822.0000

Project Name : Municipal Energy Plan Program Development

Meeting Subject: Kick-Off Meeting

Meeting Location: Mulmur Township Office

Date Prepared: April 18, 2019

Those in attendance were:

Tracey Atkinson, CAO/ Planner/Deputy Clerk	Township of Mulmur (Mulmur)	tatkinson@mulmur.ca
Heather Boston, Treasurer	Township of Mulmur	hboston@mulmur.ca
Sara Wicks, Climate Change Coordinator	County of Dufferin (County)	swicks@dufferincounty.ca
Lyle Parsons, CEP - PM	R.J. Burnside & Associates Limited (Burnside)	lyle.parsons@rjburnside.com

	The following items were discussed	**Action by**
1.	The primary purpose of the meeting was to review the proposed work program and obtain any preliminary direction from the Township. The three stages of the work program referenced in the meeting agenda were reviewed based on the Burnside proposal, dated March 13, 2018. Both MEP and FCM applications based on the March proposal were briefly reviewed as well.	Burnside
1.1	There will be a considerable amount of stakeholder engagement encouraged during the study. Burnside advised that any material to be published to the public will be provided for approval by the Township. A number of proposed stakeholder contacts were provided in the MEP application form and briefly reviewed. Invitation letters will be sent to each of these tentative stakeholders to determine their interest in participating. As the Township knows, our team has already contacted Hydro One to obtain electrical consumption data. We are still awaiting the receipt of this information.	Burnside

The following items were discussed		Action by
1.2	The correspondence with others will typically be produced by Burnside but issued under Township letterhead with the CAO or the Mayor's signature as appropriate. The logo has already been provided to Burnside.	Burnside & Mulmur
1.3	Newspaper notices of the start of the Study and during Step 3 were planned for two local papers - Shelburne and Creemore. It was noted that the Alliston paper is very expensive for advertising and it was confirmed that we would not advertise the Study in that paper. Tracey suggested that some of the notices or other communication with residents could be provided via property tax mailouts. The mailouts would need to be one page or less and the next tax mailout is scheduled for July. Lyle mentioned final decisions on notice is yet to be determined, but it is critical to ensure Mulmur residents and businesses are informed and have the opportunity to participate. Lyle suggested setting up a web link on the municipal site for project related data – content to be discussed later. Heather confirmed this could be done.	Burnside & Mulmur
2.	The BLS energy mapping was discussed. The Hydro One data is key to development of the energy mapping, but we must try to obtain information on liquid and gas hydrocarbon fuels. This may be more difficult to obtain.	Burnside
	Information requested from the Township in the Agenda (Item 6) was discussed. There was considerable discussion during the review of the items. It was determined that the Township and the County has information that will be helpful in the production of the mapping. Response to Item 6 is noted as a higher priority due to the schedule for production of the BLS mapping. It was noted that the mapping information cannot show any information that would identify private information concerning individuals or businesses. For agricultural properties, if possible, we are trying to distinguish between cash crops and livestock operations and also between cultivated farm fields and forested areas. Each of these have implications for different energy use and GHG production and GHG carbon sinks.	Mulmur & County
3.	Energy Technology and Conservation Strategy Assessments were discussed.	
3.1	The Demonstration Energy Audit will review the Honeywood Arena and approval was provided to proceed with this work. Responses to the questions posed in the Agenda (Item 6) will be provided by the Township as soon as possible. It was confirmed that the lights in the	Mulmur

	The following items were discussed	Action by
	arena had been upgraded previously. There are two fuel tanks and one propane tank servicing the arena.	
3.2	For the demonstration Solar Feasibility Assessments (Specific Municipal & Conceptual or Participating Private Buildings) Burnside will utilize the existing solar system data on the municipal administration building as one example (performance data and revenue is available). Other examples will be found by Burnside.	Burnside & Mulmur
3.3	The Township administration building has geothermal heating and cooling so data from this system can be used as examples for the Feasibility Assessment (Single Residence, Residential and Industrial Development). Other sample data will be included in the study. NRCan and local geothermal contactors may provide information.	Burnside & Mulmur
3.4	It was noted that the net zero concept will be discussed in the draft and final plan.	
3.5	Burnside discussed plans for the transportation and electric vehicle assessment. Waste curbside collection and transport was discussed briefly with Sara since this is a County area of responsibility. Burnside mentioned that we may consider the change in waste collection that occurred several years ago for residents. This new waste collection system meant that residents no longer had to drive waste to the local landfill site which would likely reduce both costs to individuals and GHG. Methods and information to encourage transportation systems that do not use hydrocarbon fuels such as electric cars will be examined.	
3.6	Agricultural Strategies – Anaerobic Digestion This was not discussed in any detail at the meeting, but Burnside will provide information to determine the feasibility of using AD in local farm operations.	Burnside
4.	Budget & Invoicing	
4.1	The updated budget and schedule was reviewed. Burnside will provide invoices that show expenditures for each of the Steps (Phases) of the study. A breakdown by each of the tasks will also be provided to help with the Township's reporting to the FCM and MEP program administrators. The budgets allocated to the Township for	Burnside & Mulmur

The following items were discussed		Action by
	in-kind services was pointed out and these are shown under the ineligible expense column of the updated budget. The Township has committed to providing these budgeted in-kind amounts as per T. Horner's letter provided in the meeting materials. Ms. Wicks was not present during these specific discussions.	
5.	Review of FCM and MOE Applications	
5.1	As mentioned previously these were briefly reviewed.	
6.	Review of Municipal Reporting Requirements	
6.1	The Township was requested to supply the final signed contracts when completed. Reporting requirements are in the contract forms that will be signed. Burnside mentioned that there are different reporting requirements and schedules for each of the funding agencies involved.	Mulmur
7.	Current information needs by the Burnside Team were reviewed as noted below and documented in the Agenda. The Township will be hiring a student who will assist with the CEP work. Information requested below is a high priority for the Burnside team and the Township committed to supply of the data requested as soon as they reasonably can.	Mulmur
7.1	For Development of the GIS Energy Map: a. The MPAC website lists codes for fuel type used in structures. Q1: In the Mulmur Tax/MPAC database, is there a table with this information? b. There is some mention of solar in MPAC documents. Q2: In the Mulmur Tax/MPAC database, is there a table with this information? Roof mounted panels or presence of 2 axis solar trackers on property? c. The MPAC website lists codes for agricultural activity (e.g., livestock or crop type). Q3: In the Mulmur Tax/MPAC database, is there a table with this information? Note: this may be in a table called farm.	Mulmur

The following items were discussed		Action by
	d. A Soils table exists in the database it lists area and woodlot areas. Q4: Do these areas refer to fields under cultivation or used for grazing? It seems to be a one to many relationship with the property being the “one”.	
7.2	For Development of an Energy Audit at the Honeywood Arena: For the arena could Mulmur provide: a. Square footage of building b. Any major renovations? If so when was it and what was the scope? c. Age of Building d. Typical Occupancy schedule of building e. Uses of building f. Last 3 years of electricity data g. Last 3 years of heating fuel data h. Last 3 years water bills i. Drawings of the buildings (electrical, mechanical, architectural, floor plans) j. Any previous building condition assessment (BCA) reports k. Any previous energy auditing reports l. Description of mechanical/electrical systems in the building (age of equipment & specifications) If any of the above info is not available we will do our best to collect the necessary data through interviews with building operators and during the audit site investigation.	Mulmur

The preceding are the minutes of the meeting as observed by the undersigned. Should there be a need for revision, please advise Burnside within seven days of issuance. In the absence of notification to the contrary, these minutes will be deemed to be an accurate record of the meeting.

Minutes prepared by:

R.J. Burnside & Associates Limited

Lyle Parsons, B.E.S.
VP Environment
Team Leader Renewable Energy and Energy Conservation
LP:jh

Distribution:

All Attendees

Tracey Atkinson, CAO/ Planner/Deputy Clerk
Township of Mulmur tatkinson@mulmur.ca

Heather Boston, Treasurer
Township of Mulmur hboston@mulmur.ca

Sara Wicks, Climate Change Coordinator
County of Dufferin swicks@dufferincounty.ca

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Minutes of Meeting 1

Meeting Date: July 9, 2019 **Project No.:** 300041822.0000

Project Name: Mulmur Township Community Energy Plan

Meeting Subject: Status Report

Meeting Location: Mulmur Townhall

Date Prepared: July 18, 2019

Those in attendance were:

Heather Boston	Mulmur Township (Township)	hboston@mulmur.ca
Tracey Atkinson	Mulmur Township	tatkinson@mulmur.ca
John Willmetts	Mulmur Township	jwillmetts@mulmur.ca
Adam Hicks	Mulmur Township	ahicks@mulmur.ca
Lyle Parsons	R.J. Burnside & Associates Limited (Burnside)	Lyle.Parsons@rjburnside.com
Katie Carolan	R.J. Burnside & Associates Limited	Katie.carolan@rjburnside.com

The following items were discussed		**Action by**
1.	**Review Status Update Report**	
1.1	Overview of the status report. Burnside encouraged staff to provide the report to Council to update them on status of the work.	Burnside / Township
2.	**Stakeholders Outreach Efforts**	
2.1	Response to the Stakeholder's Letter	
2.1.1	It was stated that the response from the stakeholders was poor. Only two out of twenty-one responded. Out of the two respondents only one expressed interest in participating in the report (Dufferin museum). It is anticipated that the Dufferin Climate Change representative will also be involved base on earlier discussions.	

	The following items were discussed	Action by
2.2	The Township will resend the letter via email to the original stakeholders list and make some calls to encourage interest.	Township
2.3	It was agreed that Burnside would call the stakeholders that do not respond to the second letter and calls.	Burnside
2.3.1	A contact name for Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) was provided to have Burnside contact regarding stakeholder invitation letter (local rep. Carol Newman).	Burnside
2.4	Township to inquire if Nottawasaga Valley Conservation Authority (NVCA) should participate in the study.	Township
3.	**Tax Letter**	
3.1	The property tax mail out deadline will be July 22, 2019. The proposed newsletters will need to be printed and folded before this date.	Township
3.2	Burnside will investigate the logistics of printing and folding the tax letter.	Burnside
4.	**Newspaper Press Coverage**	
4.1	Creemore Newspaper	
4.1.1	Burnside reached out to the Creemore paper asking about the possibility of the Creemore paper writing an article about Mulmur's CEP. The Creemore paper said they would write a story about the community energy plan, free from charge.	Burnside
4.2	Shelburne Newspaper	
4.2.1	Township informed Burnside to reach out to the Shelburne paper and ask about the papers interest in covering the CEP, free of charge.	Burnside
4.3	Alliston Newspaper	
4.3.1	Township advised Burnside to reach out to the Alliston paper and ask about the papers interest in covering the CEP, free of charge.	Burnside

The following items were discussed		Action by
5.	**Upcoming Public Meeting**	
5.1	2nd week of August was the suggested meeting timeframe from Burnside.	
5.2	Burnside inquired if there were any conflicting events happening in August that might compete with the CEP open house.	
5.2.1	Township advised that there was the Authors Festival on August 11th.	
5.3	Burnside asked if the Township had any insight as to a preferred day to host the CEP open house.	
5.3.1	Township recommended having the presentation during the townhall meeting in September. Township to provide date. It was said the meeting may fall on the 14th of September. Burnside agreed to change the open house to take place during the Township meeting in September.	Township
6.	**CEP Website Launch**	
6.1	There was a discussion concerning proposed resources on the website.	
6.1.1	Mulmur would create page on their website that is dedicated to the Community Energy Plan (CEP).	Township
6.2	The energy survey needs to be accessible on the webpage. This survey will provide an opportunity for the Township to get information from the residents of Mulmur on their views about energy conservation and climate change. Burnside to prepare survey.	Burnside

The following items were discussed		Action by
6.2.1	Township informed us there would be a survey put out by the Township, this survey would include a question about electric cars. There was talk about added the CEP survey question to the town survey and what type of question would be on the survey. It was clear we would like the survey to give us a better understanding on how important climate change is to Mulmur residence. Burnside would prefer that our survey be separate from the one proposed by the Township. It was planned that our survey would ask a question concerning the interest in Electric Vehicles and potential charging stations.	
6.3	Copy of the proposed newsletter was provided for review and comments were provided by Township staff. A logo for the CEP program was suggested and samples were to be provided following the meeting. (Note: the ECP logo selected by Township staff is included in the attached final newsletter). Burnside to provide edits, web address and dates for meetings to be provided by Township.	Burnside / Township
6.3.1	Burnside will send a final digital copy of the final newsletter, so the Township can upload it to the CEP webpage.	Burnside
6.4	Burnside provided a PowerPoint presentation with some facts about climate change and Mulmur's energy use (graphs and figures).	
6.4.1	Burnside will supply some figures and resources on climate change (links to quotes from climate reports and relevant websites). Burnside will also create a symbol (international symbol for energy conservation) that the website, report and newsletter will use.	Burnside
7.	**Discussion and Question for the Township**	
7.1	What percentage of Mulmur's streetlights have been converted to LED's?	
7.1.1	Township informed that only 2 out of 97 have been replaced.	
7.2	Is the electrical usage for the municipal administrative building available?	
7.2.1	Township sent the accounts breakdown for the Township building during the meeting.	

The following items were discussed		Action by
7.3	Is there any more information on the contracted work in Mulmur? (i.e., fuel use, vehicles used, etc.)	
7.3.1	Township provided Burnside with fuel records from their grass cutting contract. Burnside to send Township a detailed list of information needed from the contracted jobs.	
7.4	How much solar does the Townhall produce?	
7.4.1	John directed us to the Township's website that breaks down the energy output from it's roof top solar.	
7.5	Possibility for a potential special meeting to present findings and inform the Council prior to the proposed August open house	
7.5.1	Tracey informed us that it costs money to meet with the council and it might be more efficient to meet during a council meeting. It was suggested Lyle could present during the August 7th meeting.	
8.	**Other Issues**	
8.1	Solutions to combat energy consumption where discussed.	
8.1.1	A loan program similar to the loan program for land drainage was suggested by Burnside to be managed by the Township.	
8.1.2	The installation of an electric charging station at and appropriate location.	
8.1.3	Next meeting date to be determined.	

The preceding are the minutes of the meeting as observed by the undersigned. Should there be a need for revision, please advise Burnside within seven days of issuance. In the absence of notification to the contrary, these minutes will be deemed to be an accurate record of the meeting.

Minutes prepared by:

R.J. Burnside & Associates Limited

Katie Carolan
Environmental Student
KC/LP:sp

Reviewed by: L. Parsons

Enclosure(s) Final Edited Newsletter (including Township comments)

Distribution:

All Attendees

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Mulmur's Community Energy Plan

A Road Map for Energy Conservation

Changing the Way We Look at Energy

It will take a community to tackle a challenge like energy reduction and carbon emissions. Mulmur's community energy plan is designed to be a critical tool.

The Importance of Community Energy Plans

"Community Energy Plans are gaining momentum in Ontario as a way for municipalities to build prosperous and livable communities."

- Advancing Integrated Community Energy Planning in Ontario: A Primer

What has Mulmur Done to Help?

Each year Mulmur has reported its energy use and GHG emissions. It has installed geothermal heating and cooling in its municipal building and a solar PV system on its roof. LED light replacement is ongoing to reduce energy use.

When it comes to energy usage, we usually only think about it when the bills come in. In our day to day lives we often don't track our total energy use or wonder where it comes from. Taking inventory of our energy use can have positive financial and environmental benefits, by discovering inefficiencies in our systems to changing some of our daily habits and switching our energy use to cleaner alternatives. Keep in mind that our energy use typically includes not only electricity, but gasoline, diesel, heating oils, propane and wood. A close examination of your systems and energy use can potentially mean big cost savings for you.

The Town of Mulmur has decided to take inventory of the community's total energy use and identify the associated greenhouse gas (GHG) emissions that are released in relation to the community's energy use. The goal of this study is not only to show residents and businesses how they can both save money, but also create a path for Mulmur's sustainable development. If our residents and businesses actively participate, we will show you how you can each contribute, save money and help to meet the Canada's GHG reduction targets.

Most communities across Ontario are taking it upon themselves to become more involved in tracking energy consumption and the impact their energy use makes. Creating a plan to act will provide a guideline or road map to help reduce energy use in Mulmur.

These plans, better known as Community Energy Plans (CEP), are created to help communities understand their energy consumption and foster local sustainable energy solutions. Here in Ontario, CEP's are popping up all over, most urban communities are ahead of rural communities. It is becoming a priority for every community to create a plan for the future of their energy use and promote long term sustainability.

Mulmur has decided to join this movement. Development of the CEP is 100% funded by the Federation of Canadian Municipalities, the Ontario Ministry of Energy and supported by Mulmur's Staff and Council. R.J. Burnside & Associates Limited is working with Mulmur to produce the CEP; help promote the community's energy efficiency and reduce GHG levels.

Mulmur's Community Energy Plan

A Road Map for Energy Conservation

Canada is One of the Highest Ranked Energy Consumer's

"Canada is a huge consumer of energy. In 2002, it ranked almost equal to the United States for first place among the G-8 nations. These are the eight most industrialized countries in the world, in terms of per capita energy consumption"

-Statistics Canada

Canadas Emission Ranking

On a per Capita basis Canada ranks within the top 10 countries that emitted the most carbon dioxide in 2015.

-Union of Concerned Scientists

To get a clear understanding of Mulmur's energy use this plan will cover all sectors including, residential, commercial, institutional, agriculture, and transportation. We will research not only the estimated energy use but also provide potential energy solutions to reduce use, in particular energy use that generates GHG. Mulmur's CEP will be an educational tool that will act as a catalyst to increase energy efficiency and reduce your costs; however, the CEP will only be successful if our residents and businesses actively participate and make changes. The CEP is designed to be created with extensive help from the community, gathering ideas and knowledge from the stakeholders of Mulmur.

We are inviting you to participate.

An online survey is now available at http://mulmur.ca/departments/public-works/energy-study. We encourage all residents to use it and make your views known. A public open house is planned for September, 28th 2019.

This work will not succeed without your participation.

If you have some time and want to contribute to your community, we want to identify some community leaders who will carry on with this important work. All age groups are welcome, and we want to encourage local high school and university age students to get involved. It's your future!

Many people feel helpless to contribute to stop climate change, but this CEP will present real things you can do to make a difference. Look to your local newspaper and Mulmur's CEP website http://mulmur.ca/departments/public-works/energy-study for further information.

Canada and three other countries have now declared that the rapid changes to the world's climate is a national emergency. Scientists have stated we have less than 10 years to dramatically reduce GHG levels to avoid irreversible damage with temperatures of 1.5°C. increase. Canada has already exceeded a 1.7°C average annual increase (over land) since 1948. Increases in the North, the Prairies and northern BC are higher. Average annual temperatures in northern Canada increased by 2.3°C. See https://changingclimate.ca/CCR2019.

It will take a community to tackle a challenge like energy reduction and GHG emissions, and this CEP is designed to be a critical tool to help achieve the reduction goals that will be set with this study.

If you are Interested in learning more, please see (http://mulmur.ca/departments/public-works/energy-study) or **would like to participate** contact (info@mulmur.ca).

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Appendix C

Newsletter

Mulmur's Community Energy Plan

A Road Map for Energy Conservation

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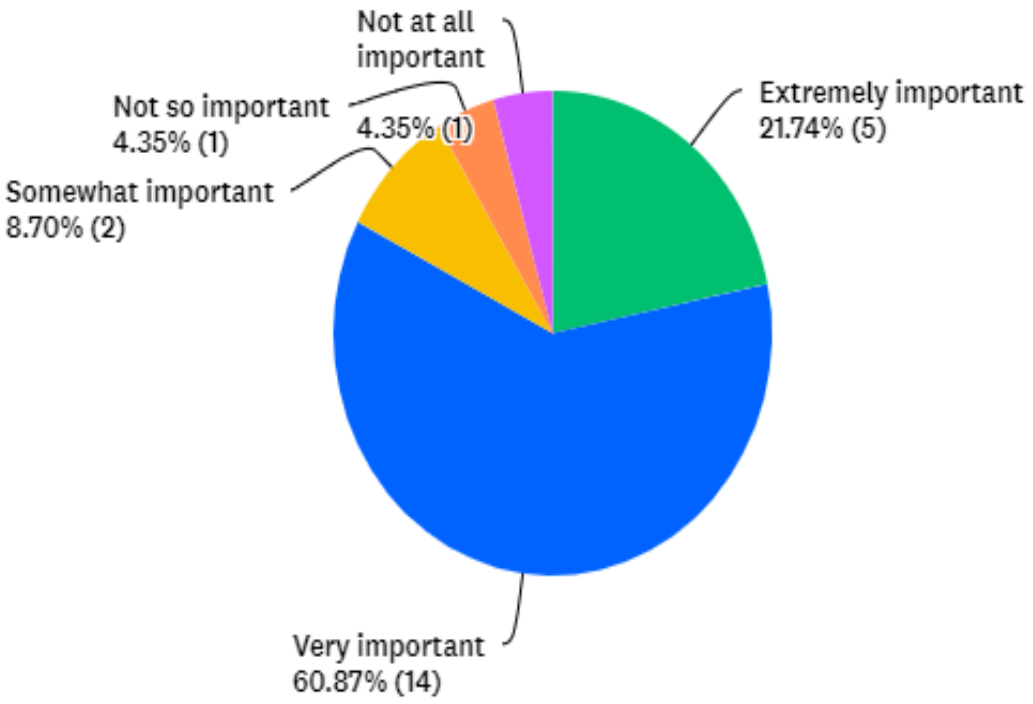
Appendix D

Social Survey Response

1. How important is reducing energy use at your residence or business in Mulmur?



2. Why is saving energy less important to you at your residence or business in Mulmur?

Have not thought about it previously		0.00%	0
Not interested		0.00%	0
Don't believe saving energy will directly benefit me		0.00%	0
Already practice energy efficiency		50.00%	1
Already installed energy efficiency measures		0.00%	0
Can't afford energy efficiency improvements		0.00%	0
Other (please specify)	Responses	50.00%	1

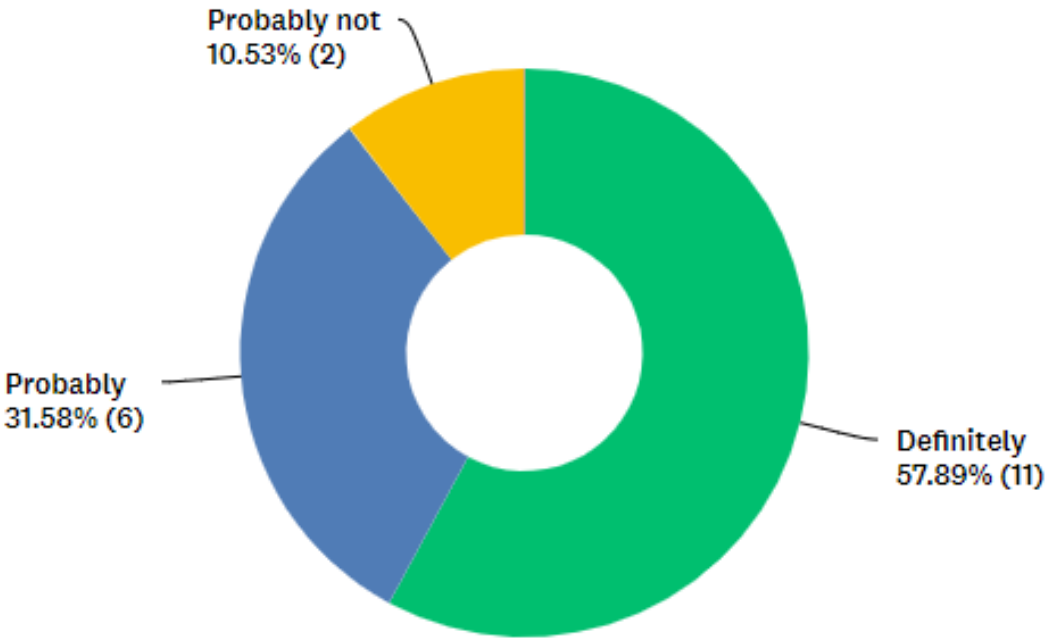
- The other (please specify) answer was "Energy should be less expensive"

3. Since it is somewhat to very important to you to conserve energy, what would be of most help to you to reduce your energy use?

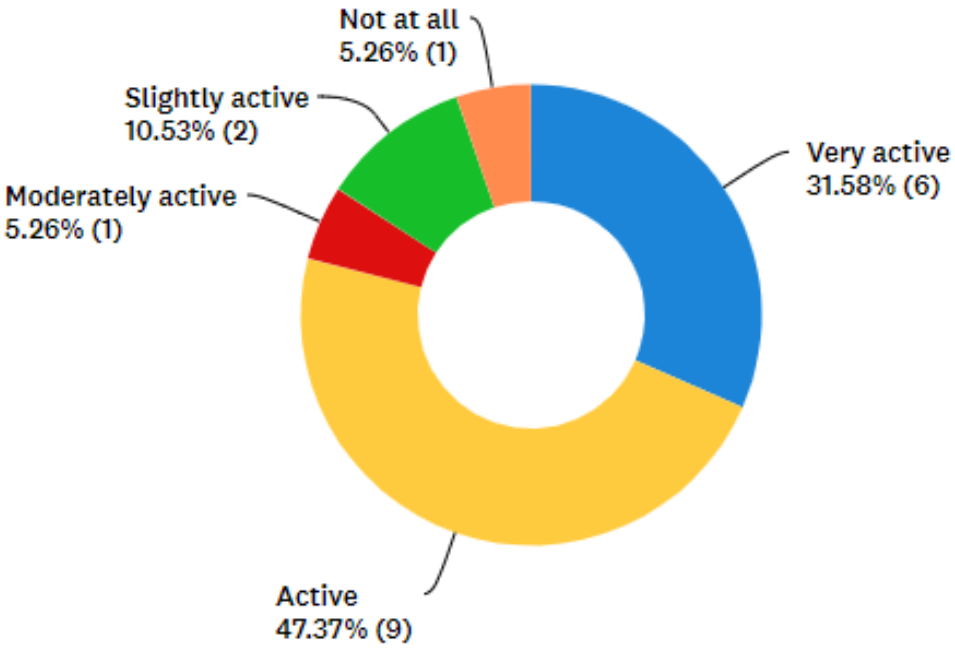
More education/advice on programs		22.22%	4
Example projects that show how to successfully reduce energy use		33.33%	6
Information on who can locally provide advice or assistance		22.22%	4
Financial support and/or grants		16.67%	3
Access to funding and loans		0.00%	0
Other (please specify)	Responses	5.56%	1

- The other (please specify) answer was “Government encouragement by subsidies for employers to have employees not commute and work instead from home (fuel commuting is our largest energy use)”

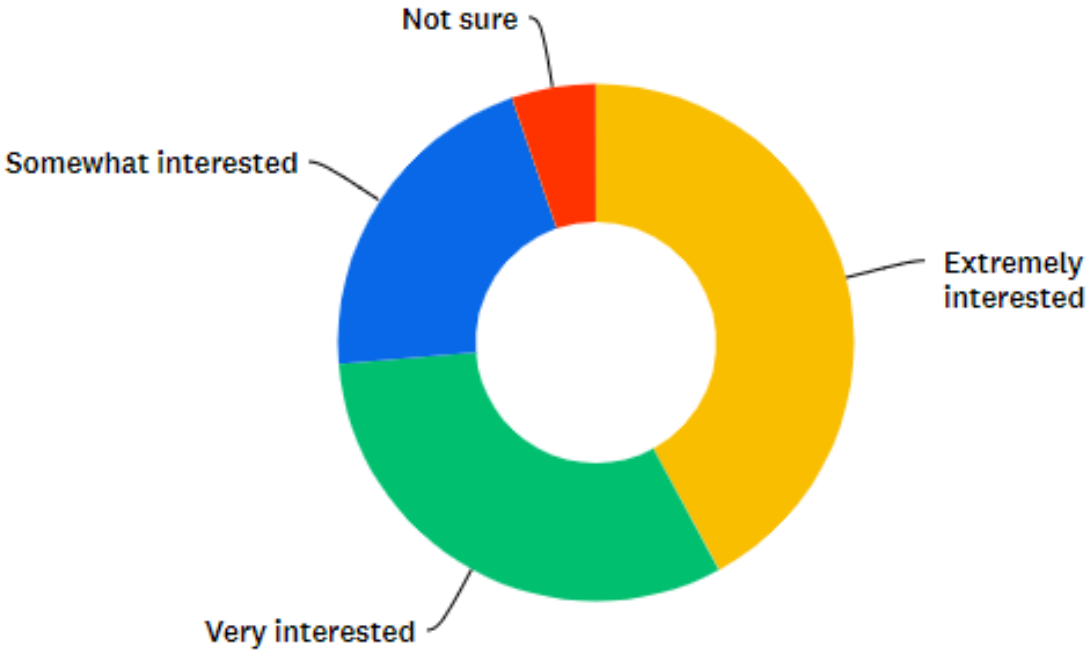
4. Do you believe there could be cost savings from reducing your energy use?



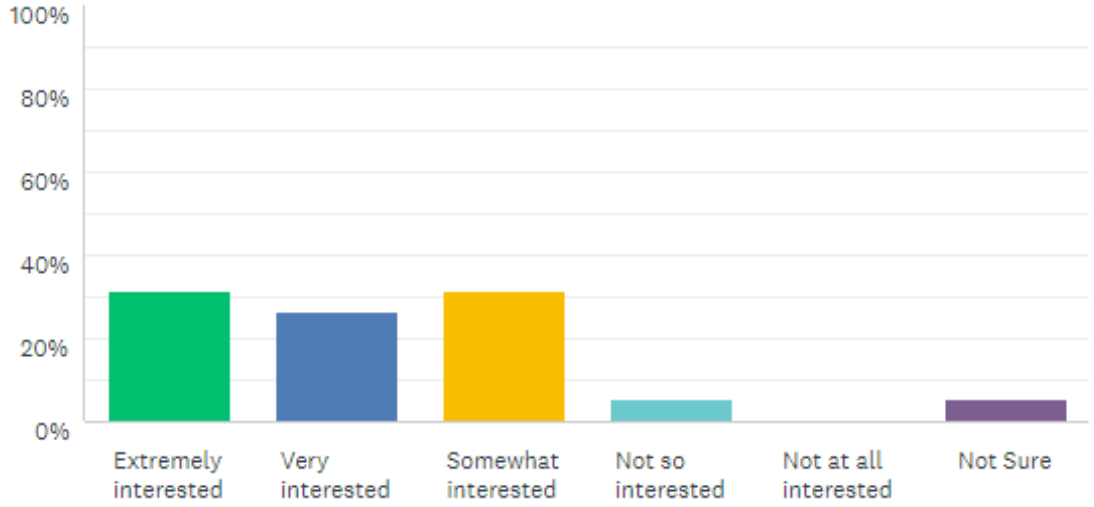
5. How active would you like to see the township of Mulmur with respects to community energy conservation?



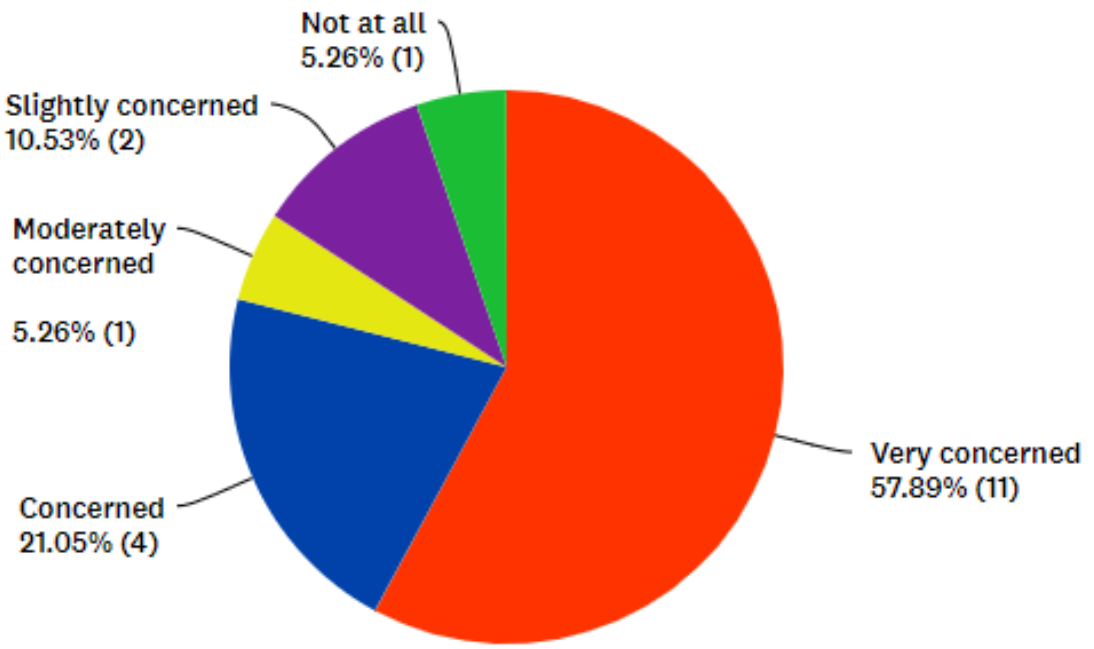
6. Would you be interested in investing in energy reduction measures if you knew they would provide a return on your investments and reduce your operational cost?



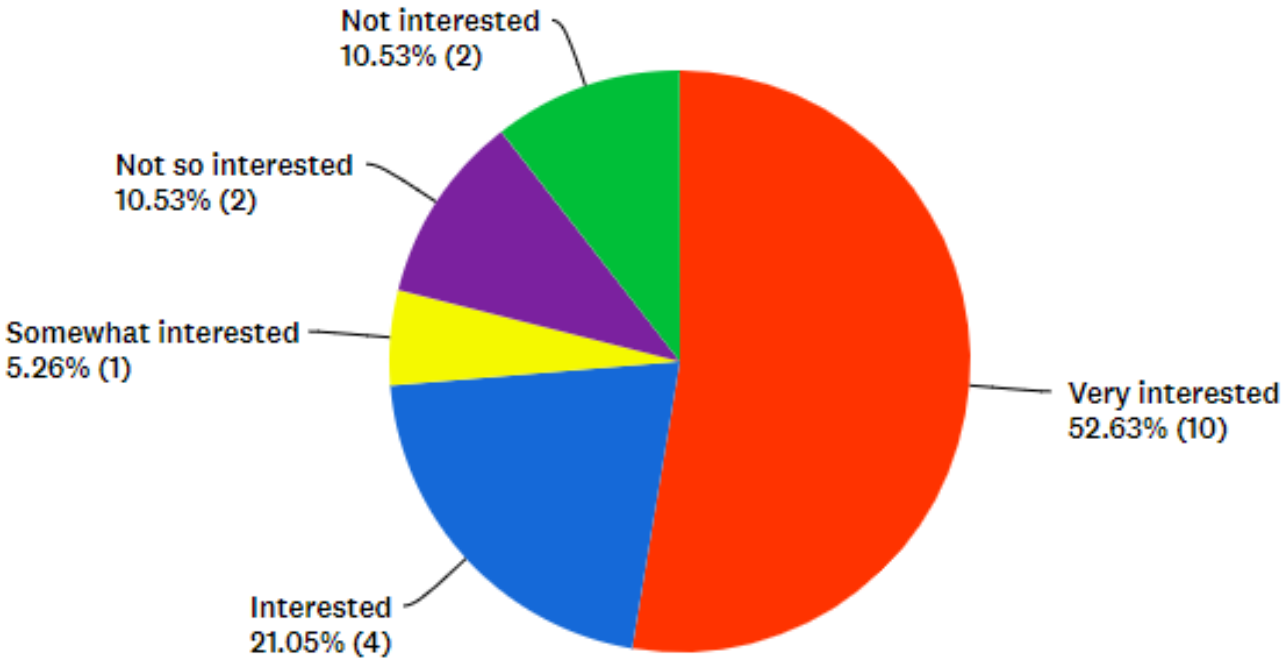
7. Would you be interested in investing in a renewable energy project if you knew it would provide a return on your investment and reduce your operational cost?



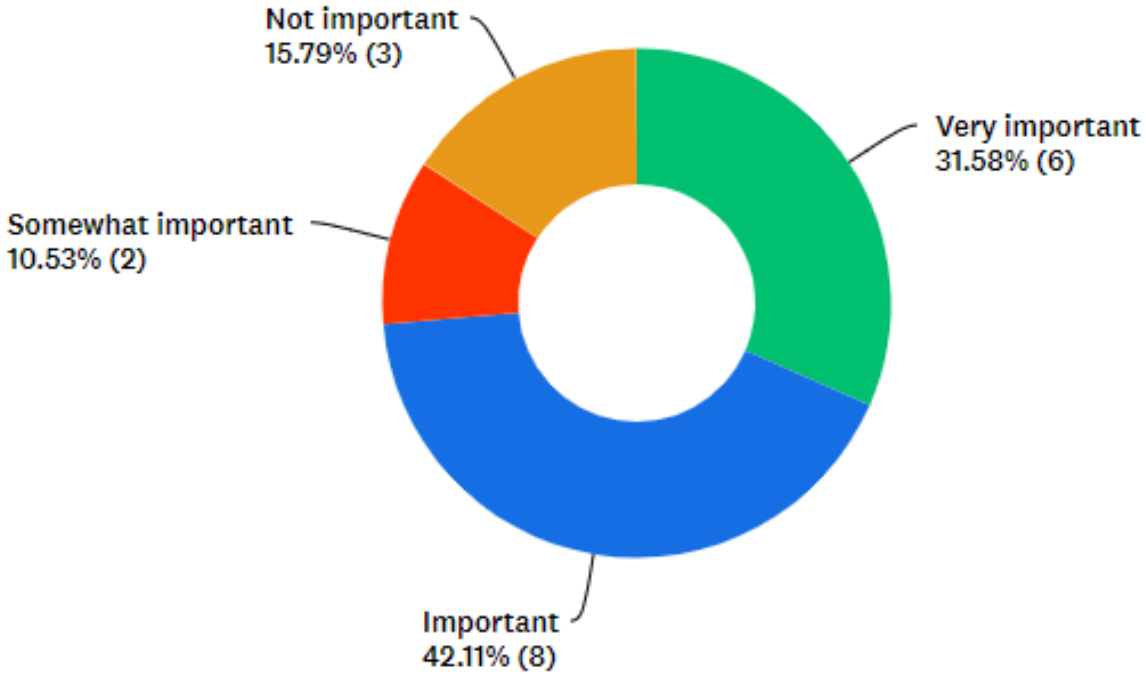
8. How concerned are you about the effects of climate change?



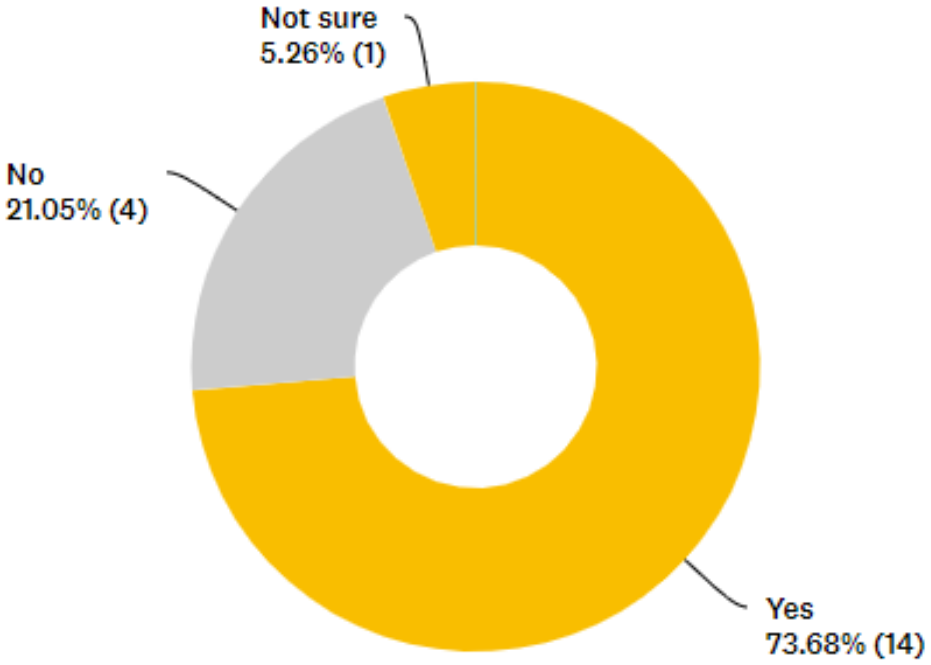
9. Would you be interested to have more science-based information about climate change?



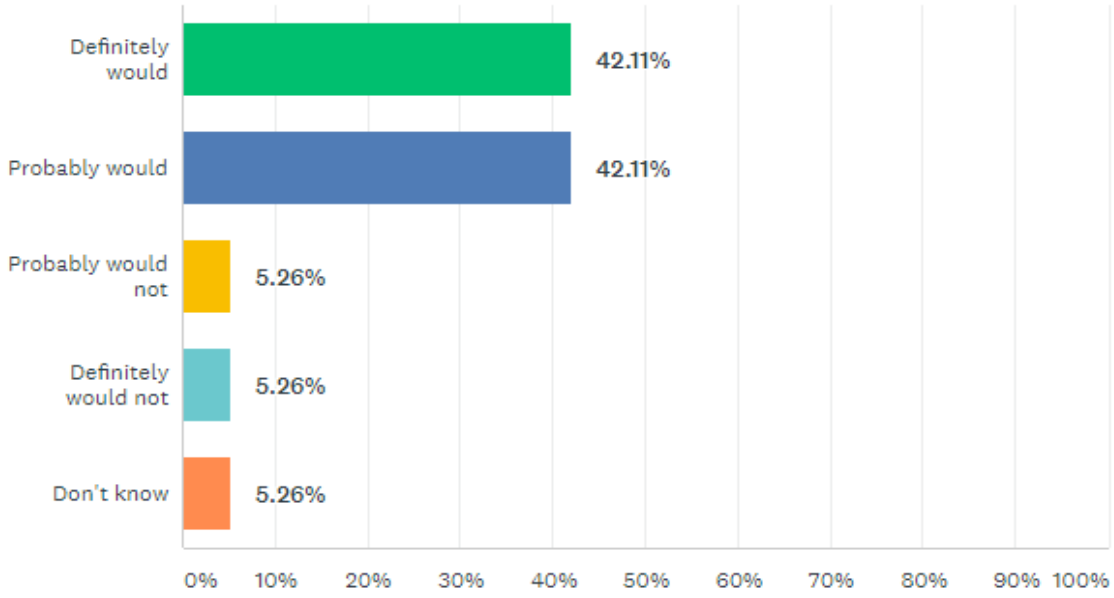
10. If you could reduce your use of energy, do you think this would be important to help avoid climate change?



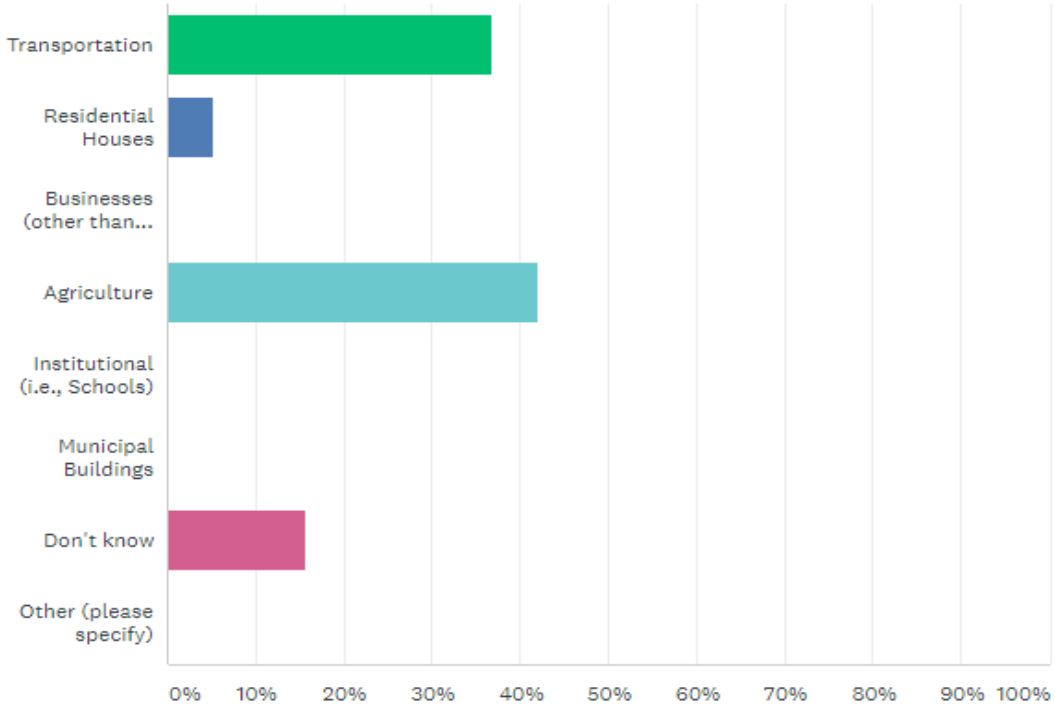
11. Have you ever considered purchasing or leasing a hybrid or electric vehicle?



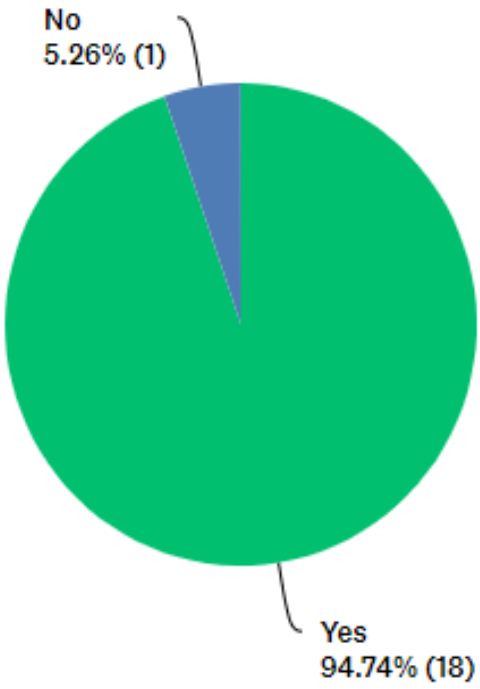
12. Would you be in favor of the installation of electric vehicles charging stations in Mulmur?



13. Considering energy use only which sector below generates the highest amount of Greenhouse Gases in Mulmur?



14. Are you a resident or business owner in Mulmur?



15. Please provide postal code – Answers will be keep undisclosed due to privacy.

16. Thank you for your participation in this survey. Do you have any other comments to offer Mulmur at this time concerning the energy conservation?

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Appendix E

Display Boards and PowerPoint Presentation

What is a Community Energy Plan?

Community Energy Plan (CEP) is a comprehensive, short and long-term plan to improve **energy efficiency**, **reduce greenhouse gas emissions** and foster local sustainable **energy solutions** in the community.

50% of Canada's population have a Community Energy Plan:

From Guelph's CEP report

The planning process evaluates a community's existing energy use and greenhouse gas (GHG) emissions in order to:

- Determine community-wide energy consumption and GHG emissions; and

- Identify and implement solutions to improve energy efficiency and conservation.

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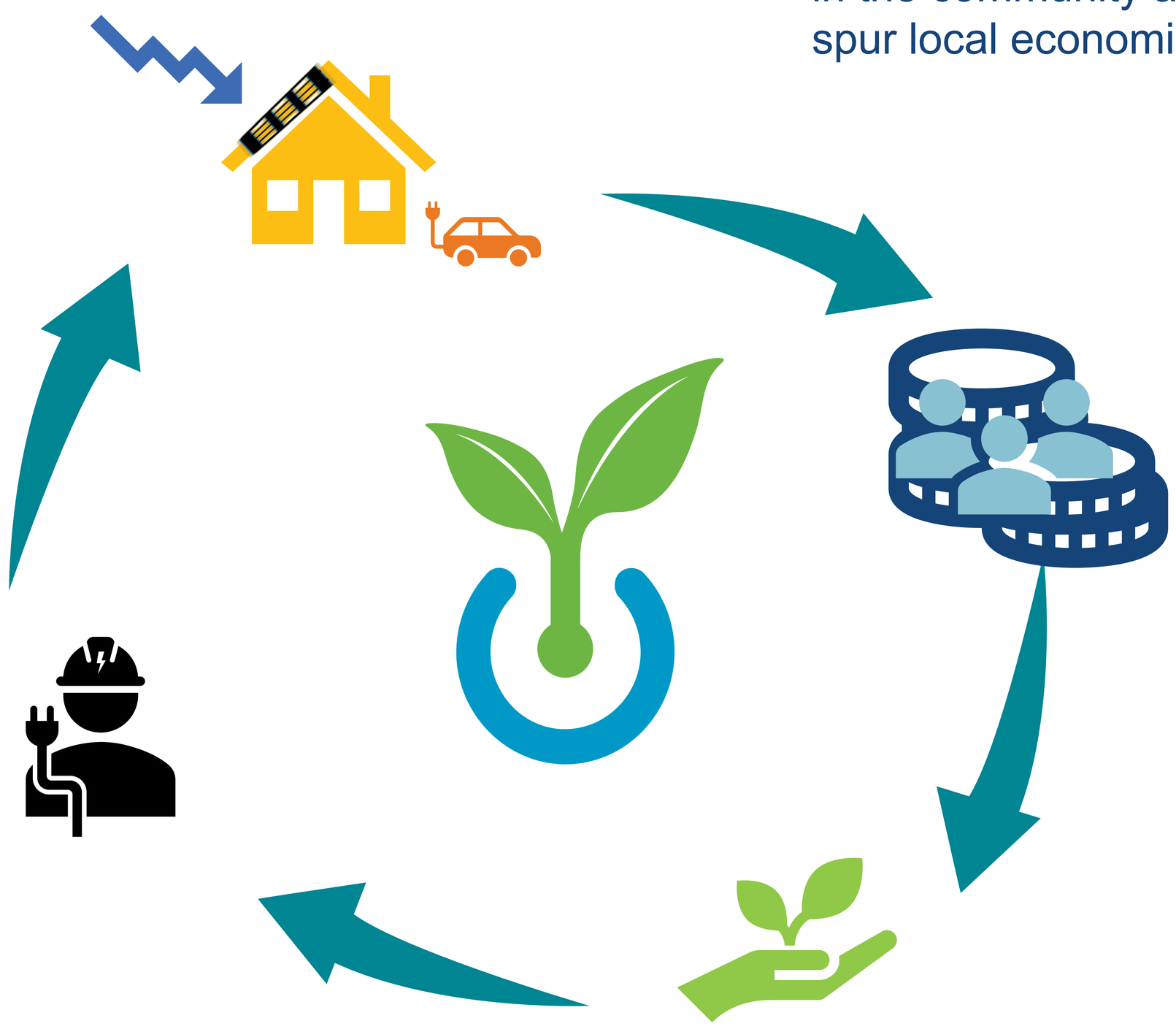
CEP Goals

✓**Cost Savings:** Through education and energy conservation measures we plan to demonstrate the benefits to reducing energy use.

✓**Economic Growth:** Mulmur's economic objective is to implement strategies that will keep more energy dollars in the community and thereby spur local economic activity.



✓**Energy Security:** Aligning the built environment, energy and land use growth planning. To help identify the best possible energy options to create a complete community and enhanced mobility.

✓**Protecting the Environment:** CEPs, and the associated energy conservation can consequently drive significant emissions reductions.

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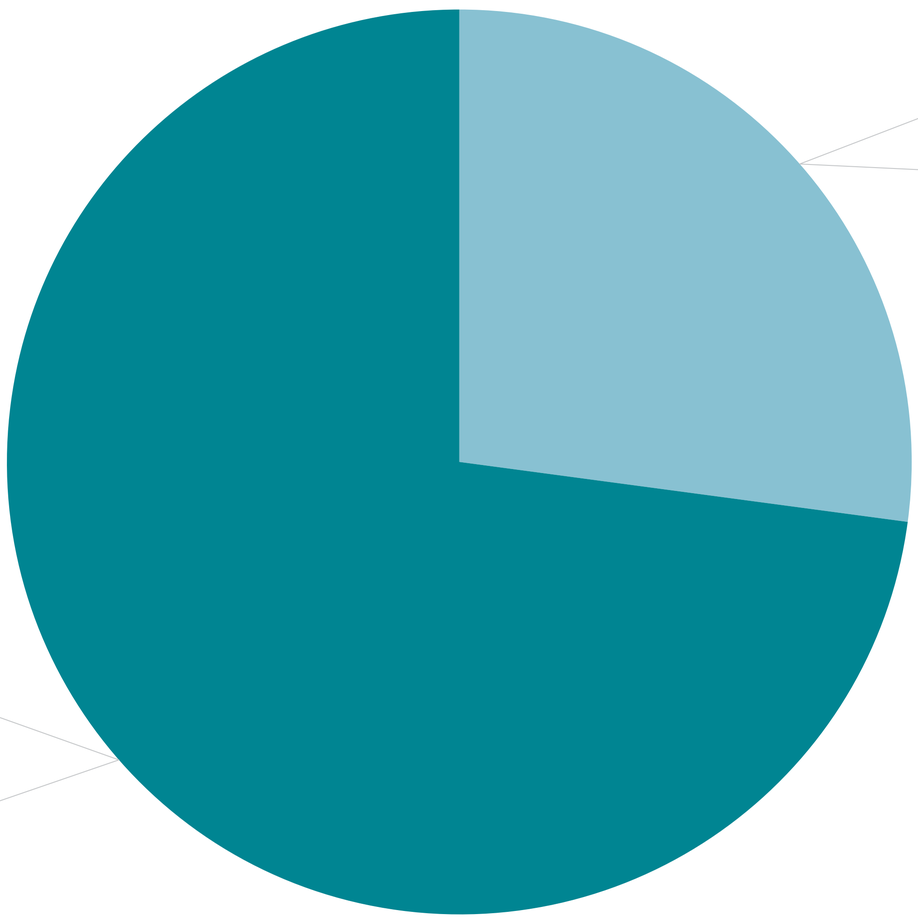
TOWNSHIP OF MULMUR

Where Does Your Money Spent on Energy Go?

Estimated Money Spent on Energy in Mulmur for 2018



Outside utilities benefit from your energy use.

Let's change by making energy reductions and by generating more of our own energy.

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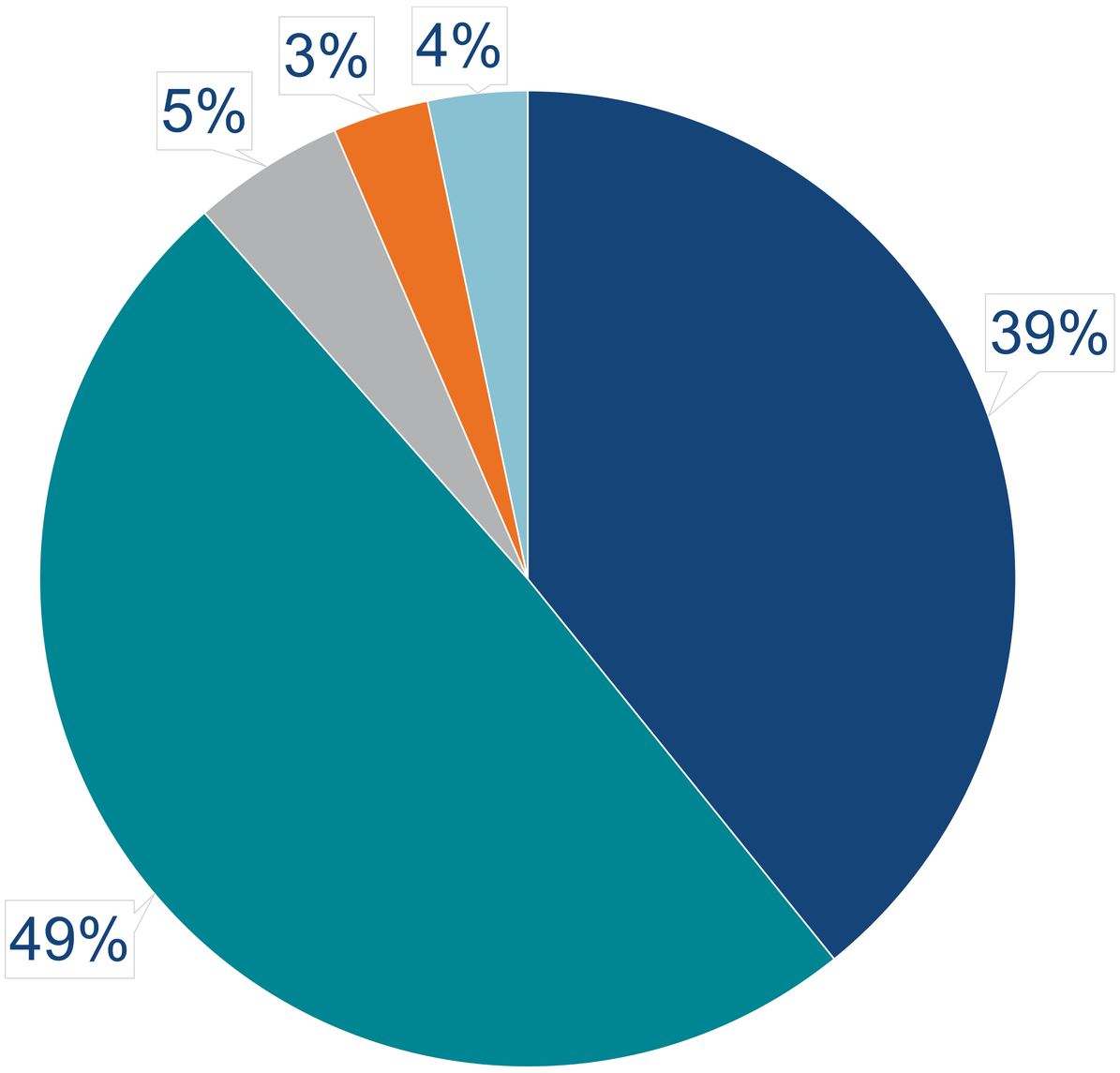
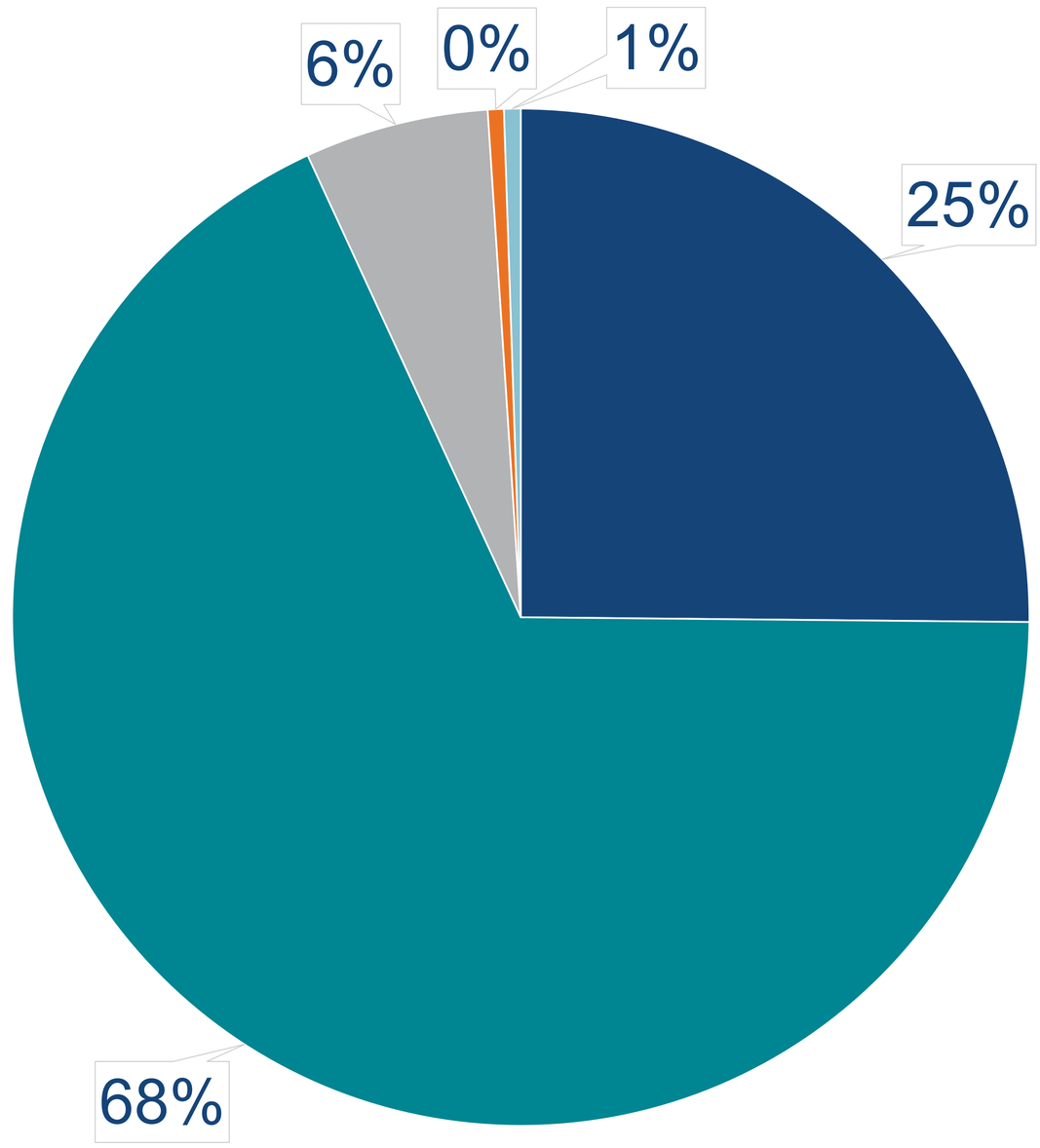
TOWNSHIP OF MULMUR

Municipal Energy Consumption and Emissions Released

Mulmur's Energy Consumed (Gigajoules) in 2018 by Source

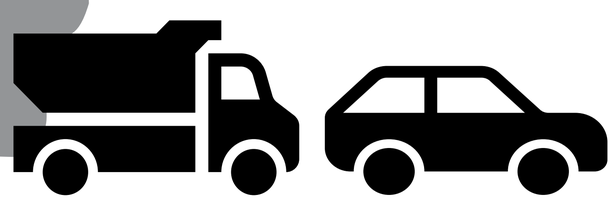


Mulmur's CO_2e Emissions Released (Tonnes) in 2018 by Source



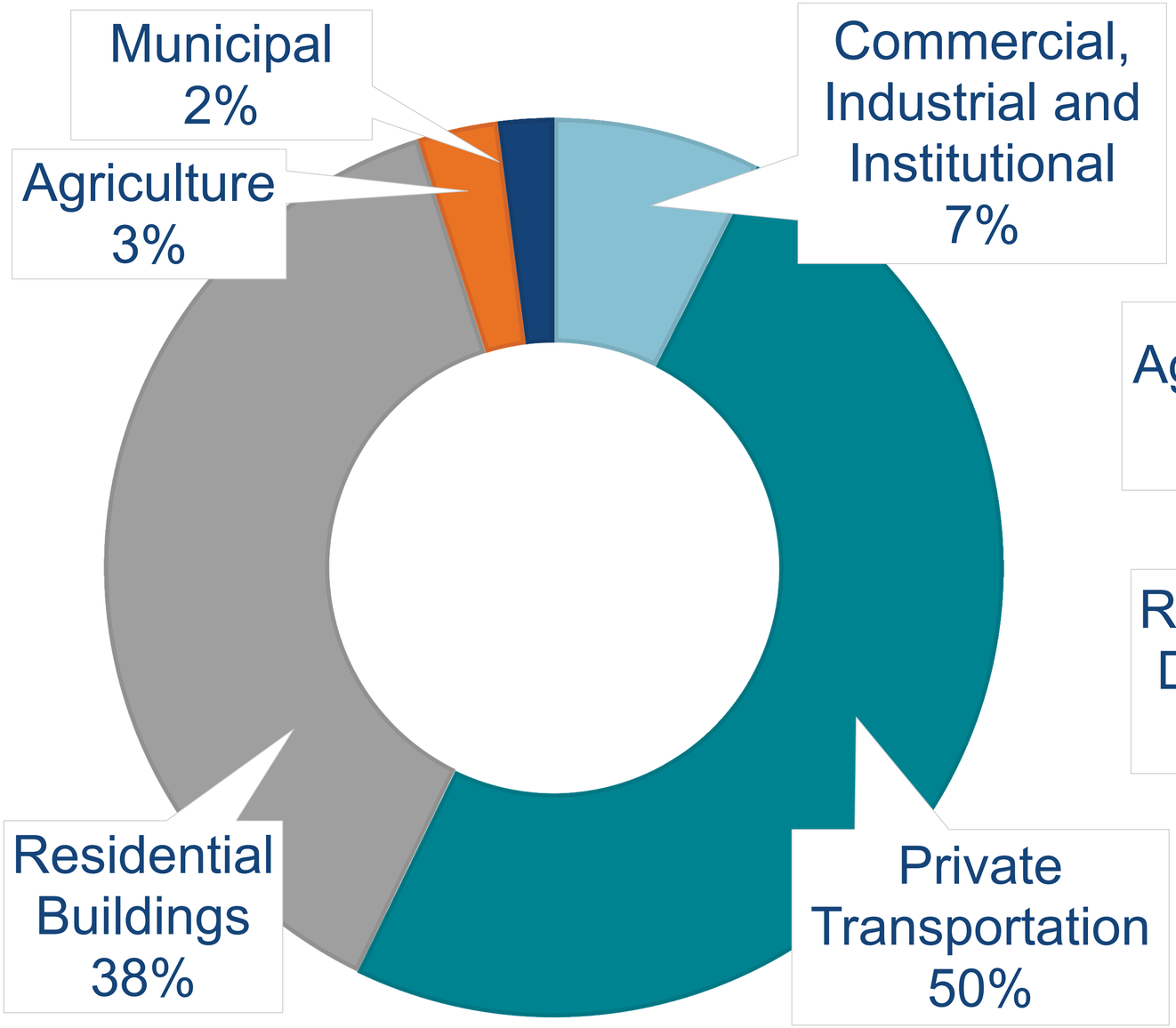
Other includes:
Streetlights; PublicWater Pumps; Parks; and Scale house.

68% of Municipal Emissions come from fleet vehicles

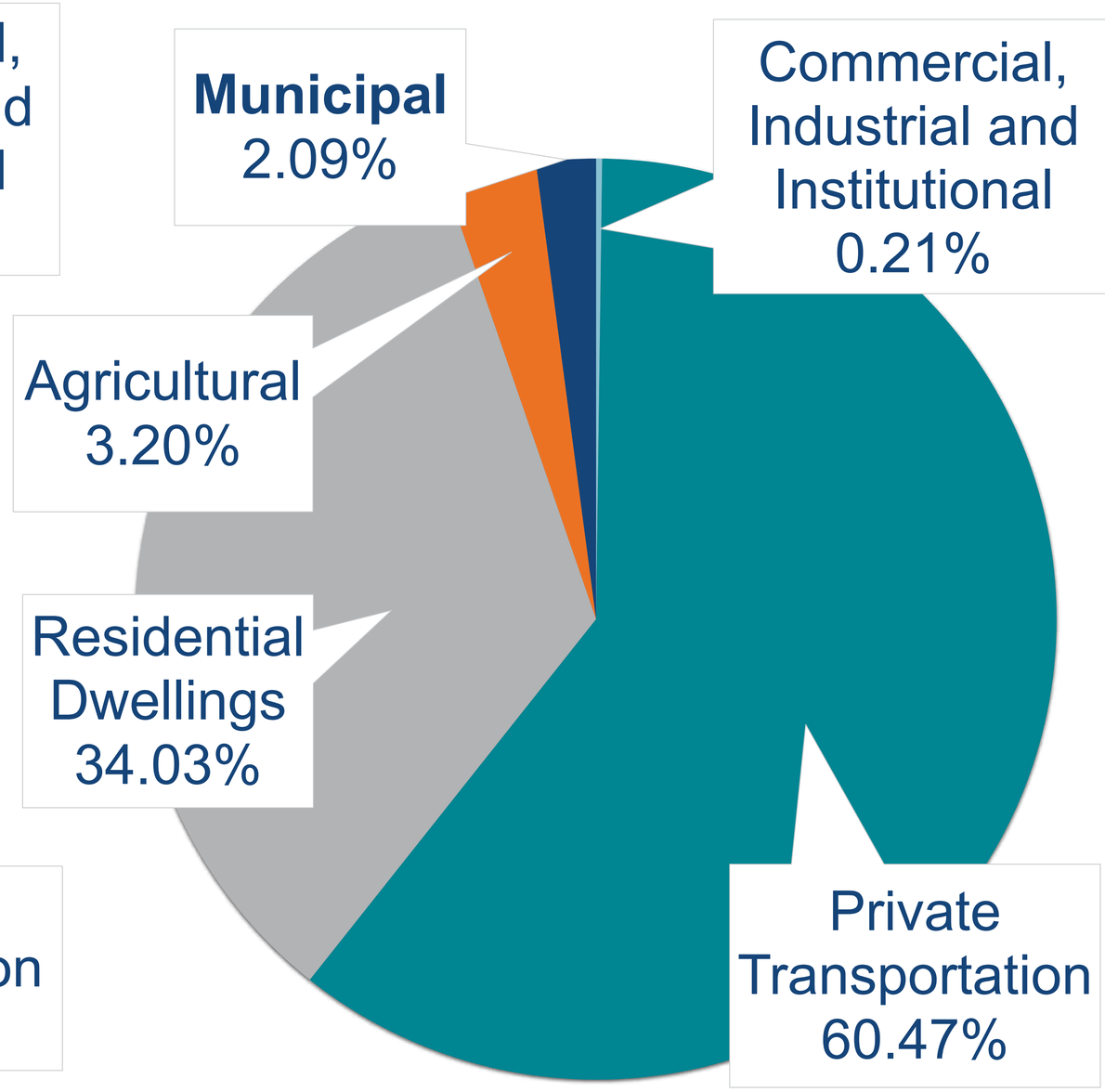


Mulmur's Totals

Total Energy by Sector

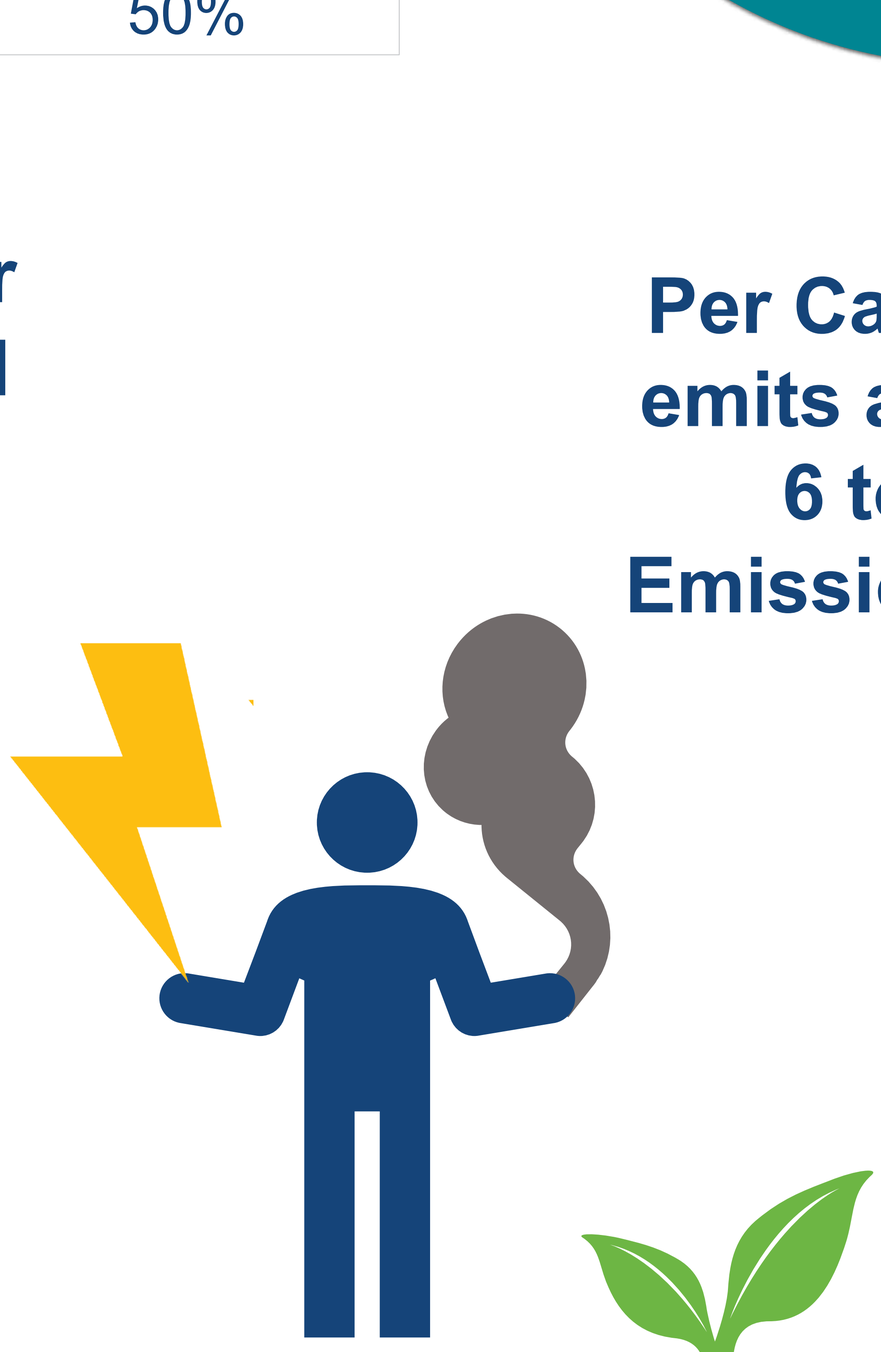


Total Emissions from Energy by Sector



Per Capita Mulmur uses an estimated 113 Gigajoules of energy per year.

Per Capita Mulmur emits an estimated 6 tonnes of Emissions per year.



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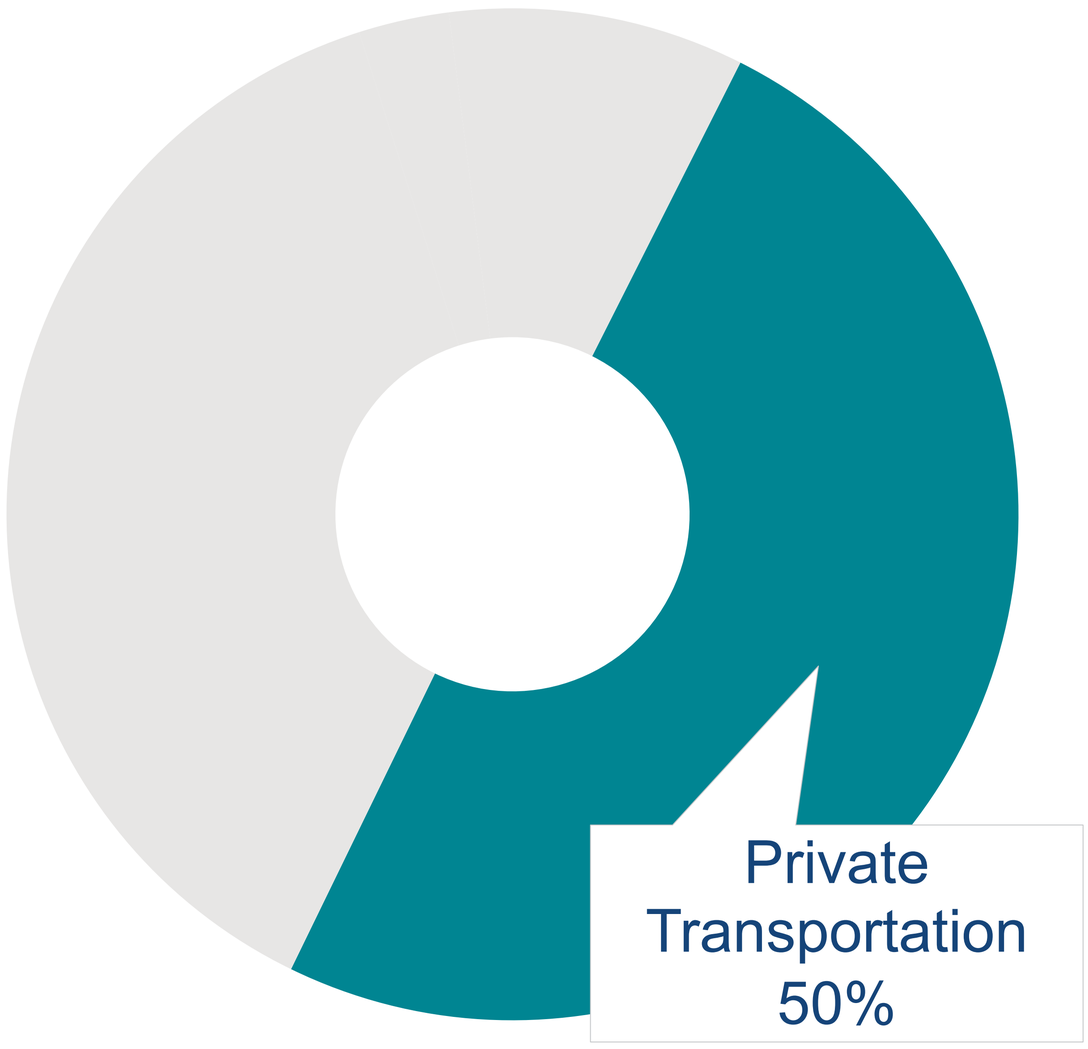
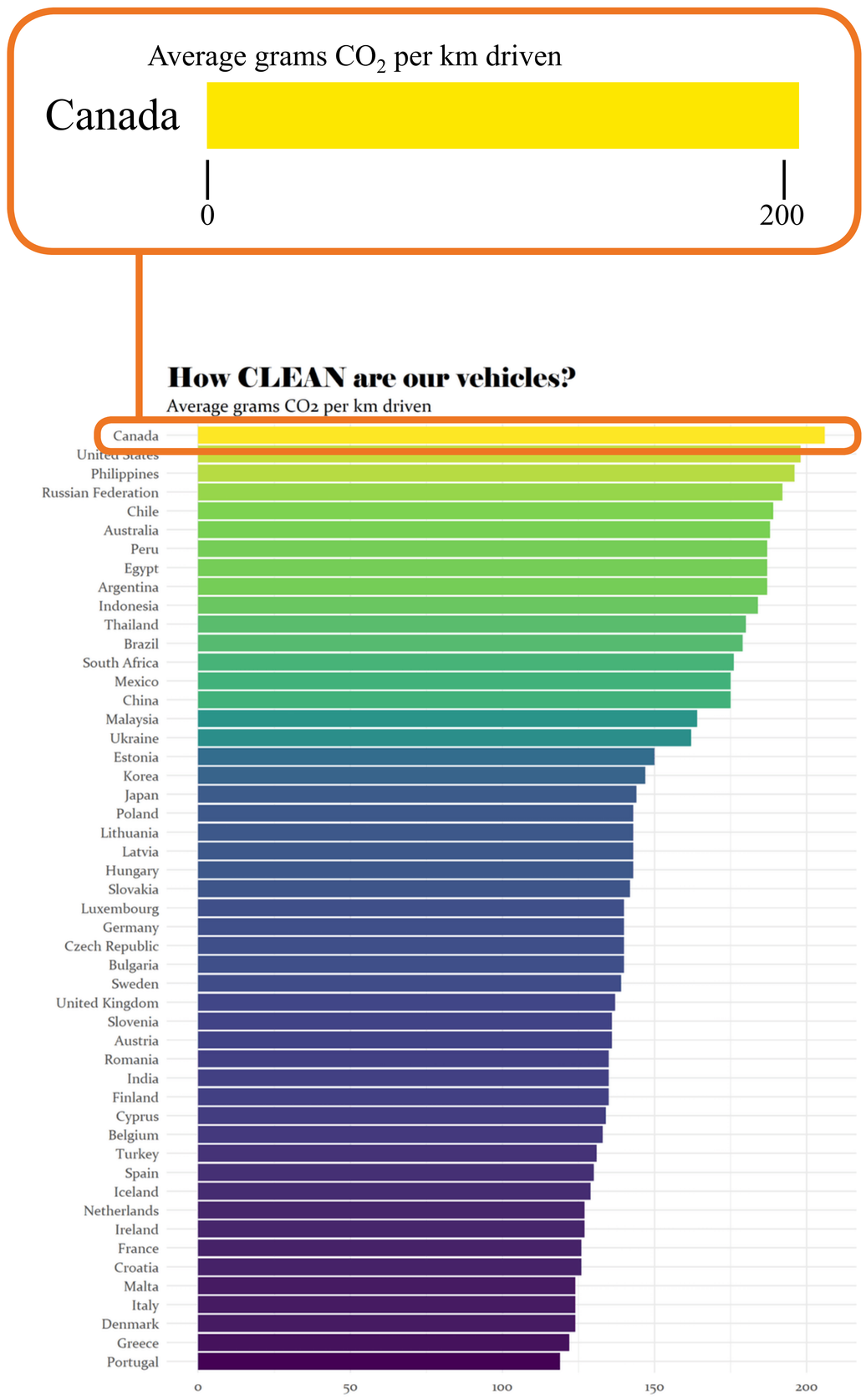
TOWNSHIP OF MULMUR

Mulmur's Estimated Private Transportation, 2018

Estimated Private Transportation Energy Consumption Compared to Mulmur's Total Energy Consumption for 2018



Canadian households, on average, spent $2,142 on gasoline and other fuels in 2017.
-Statistics Canada



Sourced from The Conversation

Fuel and Green House Gases

"The more fuel your vehicle burns, the more greenhouse gases it produces, mostly in the form of carbon dioxide, or CO_2. For every litre of gasoline your vehicle uses, it generates about 2.3 kilograms of CO_2. Although not directly harmful to our health, CO_2 emissions contribute to climate change."
-Natural Resources Canada

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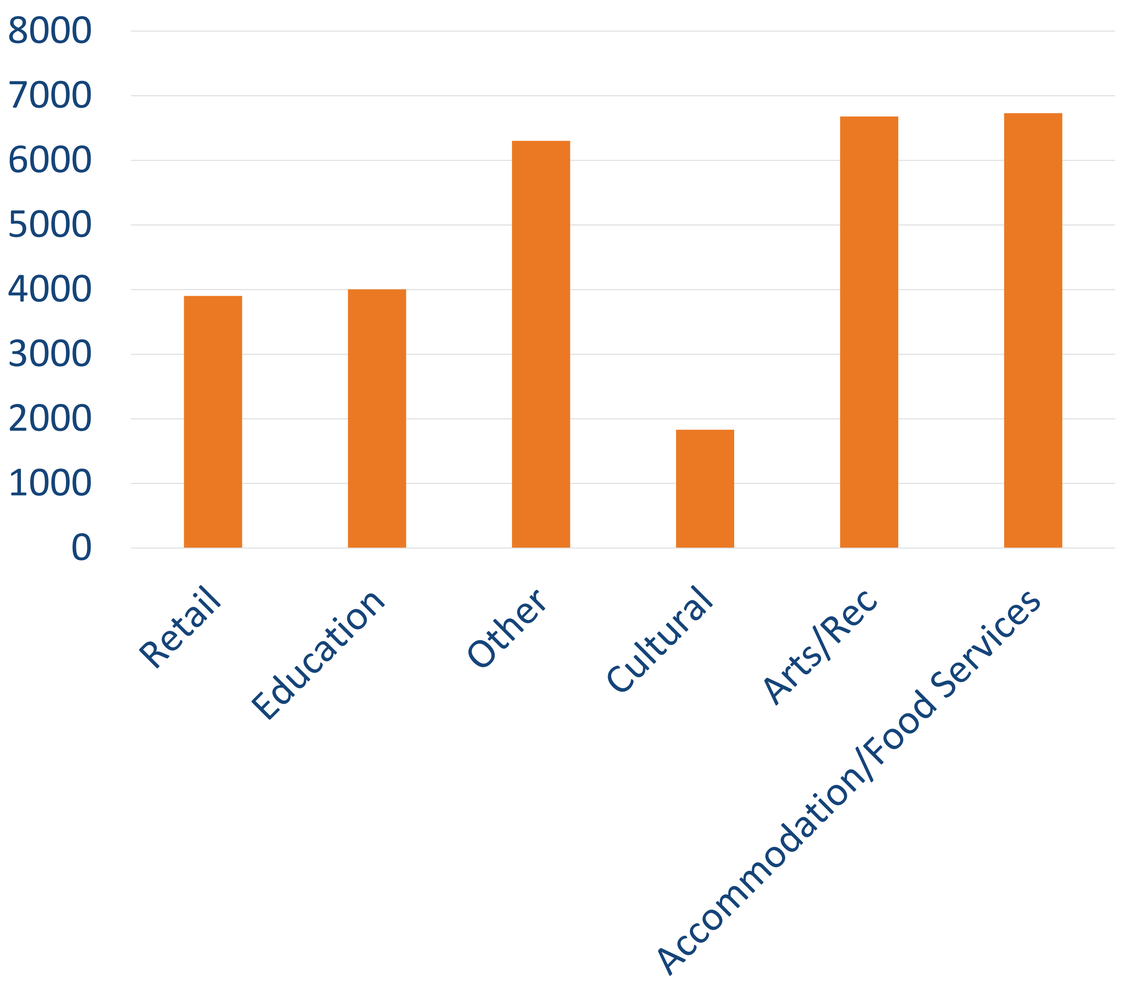
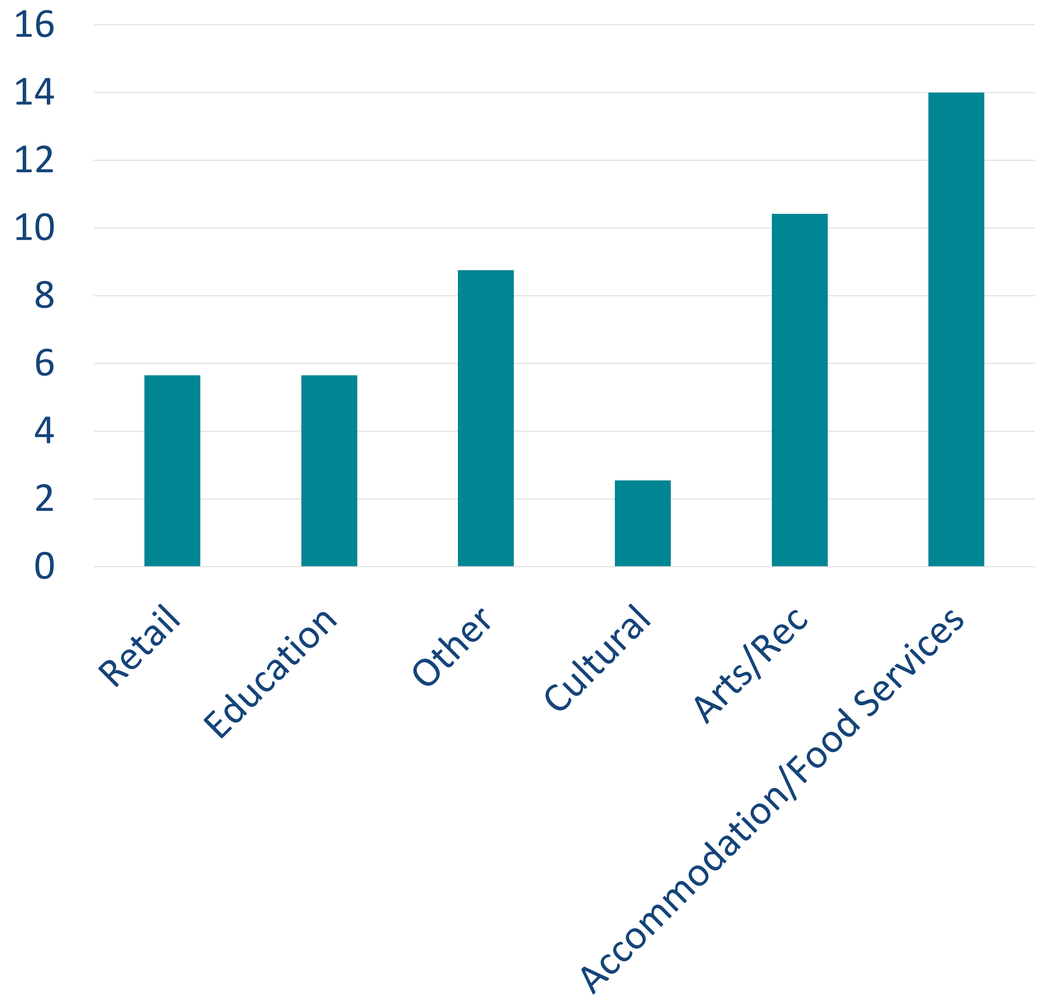
TOWNSHIP OF MULMUR

Estimated Industrial, Agricultural and Commercial Energy Consumption and Emissions Released (2018)

The Township of Mulmur's Commercial, Industrial and Institutional Energy (Gigajoules) Consumed (2018)

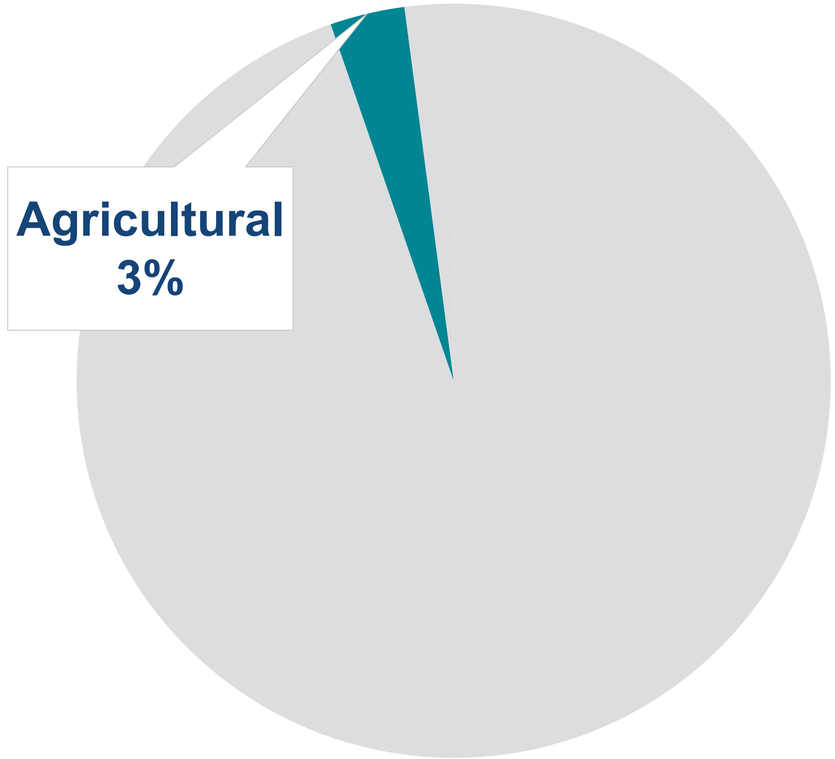


Greenhouse Gas (tonnes) Released from The Township of Mulmur's Energy Consumption (2018)



Agricultural Energy (gigajoules) Consumption in the Township of Mulmur (2018) – Estimates only include tractor fuel consumption.

Agricultural Emission (tonnes) from Energy Consumption in the Township of Mulmur. Since estimates only include fuel use, agriculture totals will be higher than shown.



Agricultural emissions (from energy consumption) and energy consumption is an estimation and does not cover all energy use and emissions released due to lack of data.

All Data presented is estimated.

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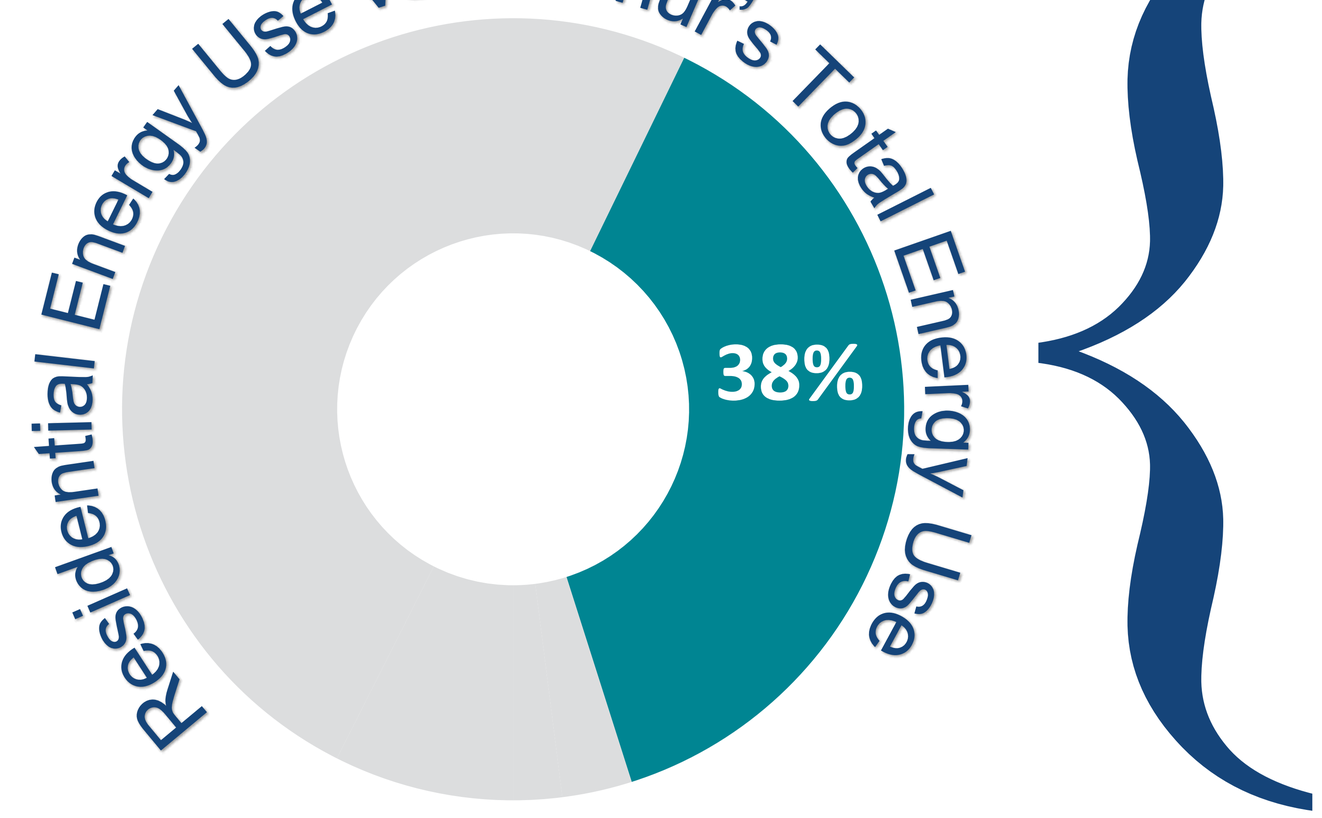
TOWNSHIP OF MULMUR

The Township of Mulmur - Residential (Estimated) Energy Consumption, 2018



Space Heating 64%

Water Heating 21%

Appliances 11%

Lighting 3%

Cooling 1%

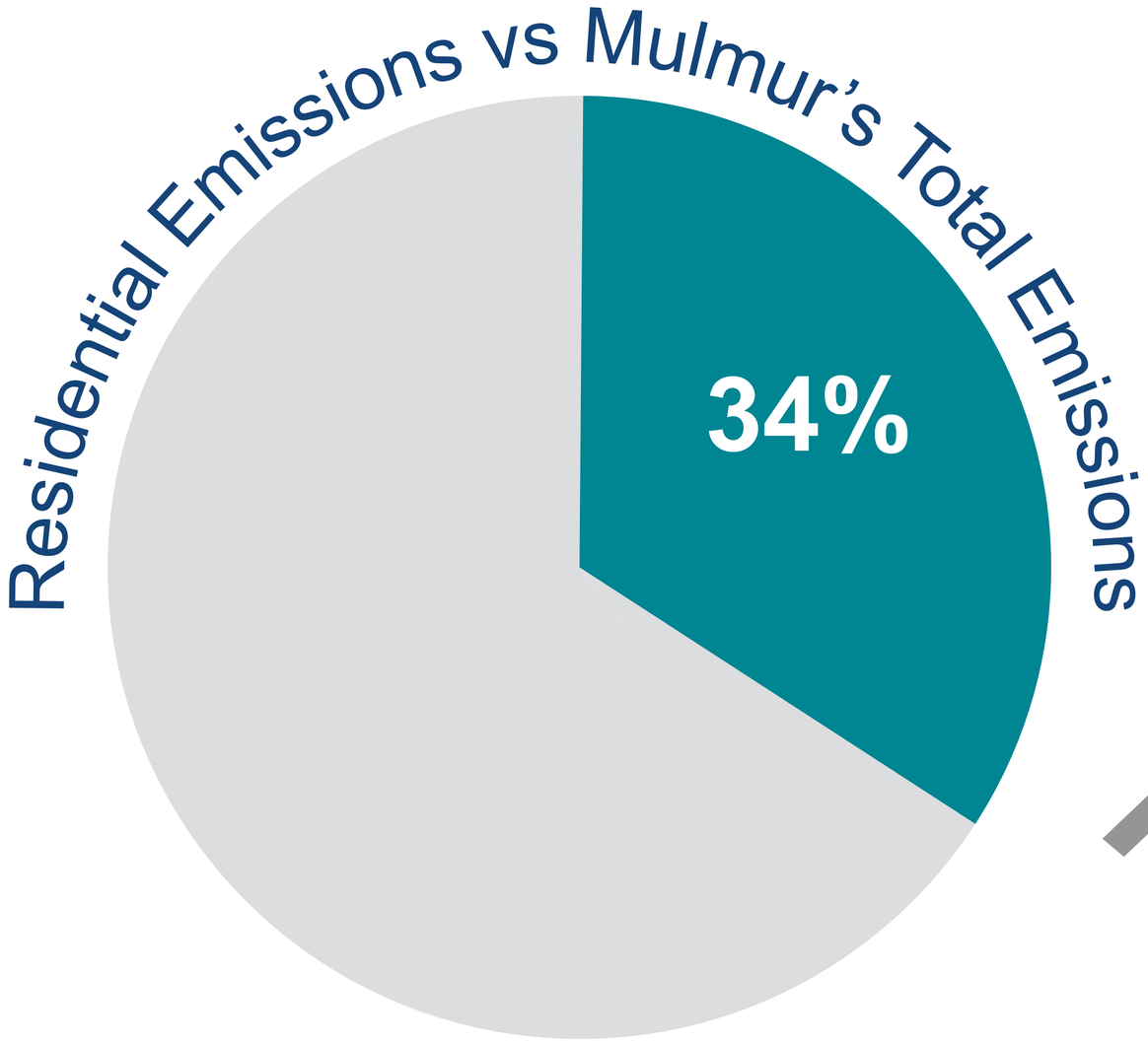
Residential Annual Energy Consumption is the equivalent to **132 tanker trucks** worth of gasoline! (Estimated)

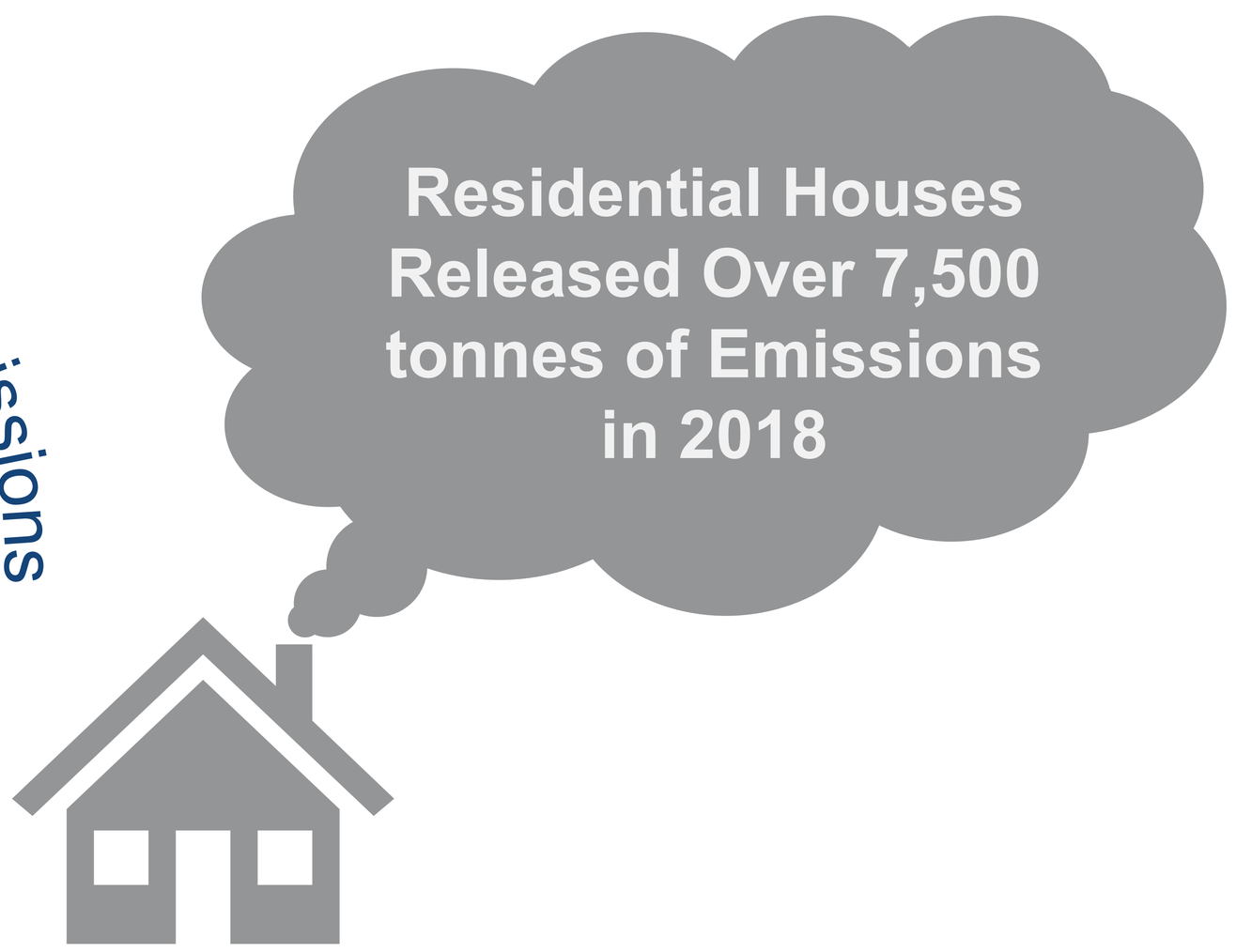
The average house in Mulmur uses **82 Gigajoules** yearly (the energy equivalent to **2,343 L.** of gasoline). (Estimated)

BURNSIDE

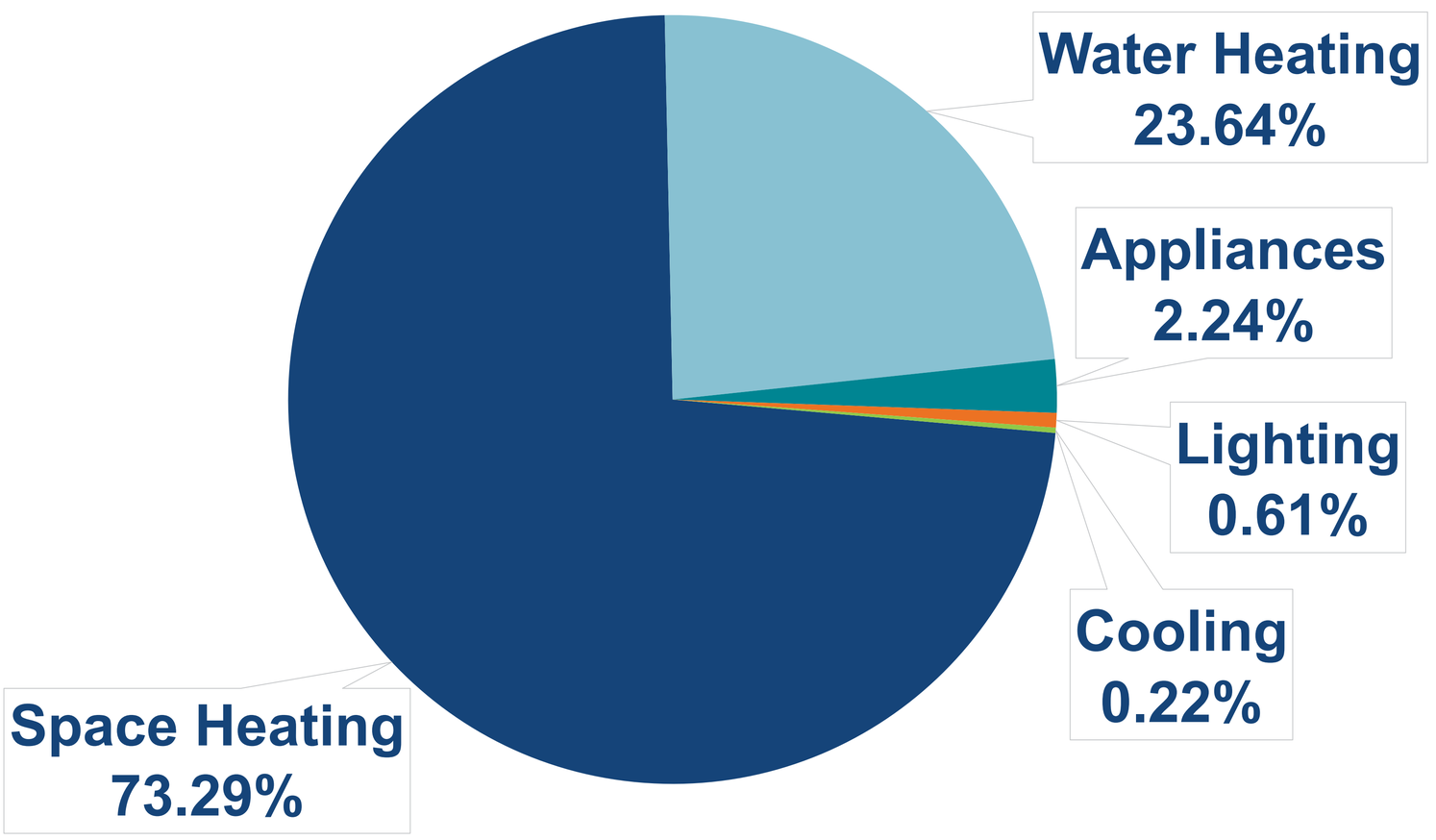
TOWNSHIP OF MULMUR

The Township of Mulmur's Residential (estimated) Emissions Released from Energy Consumption, 2018





Residential Emissions Released by Source (tonnes)



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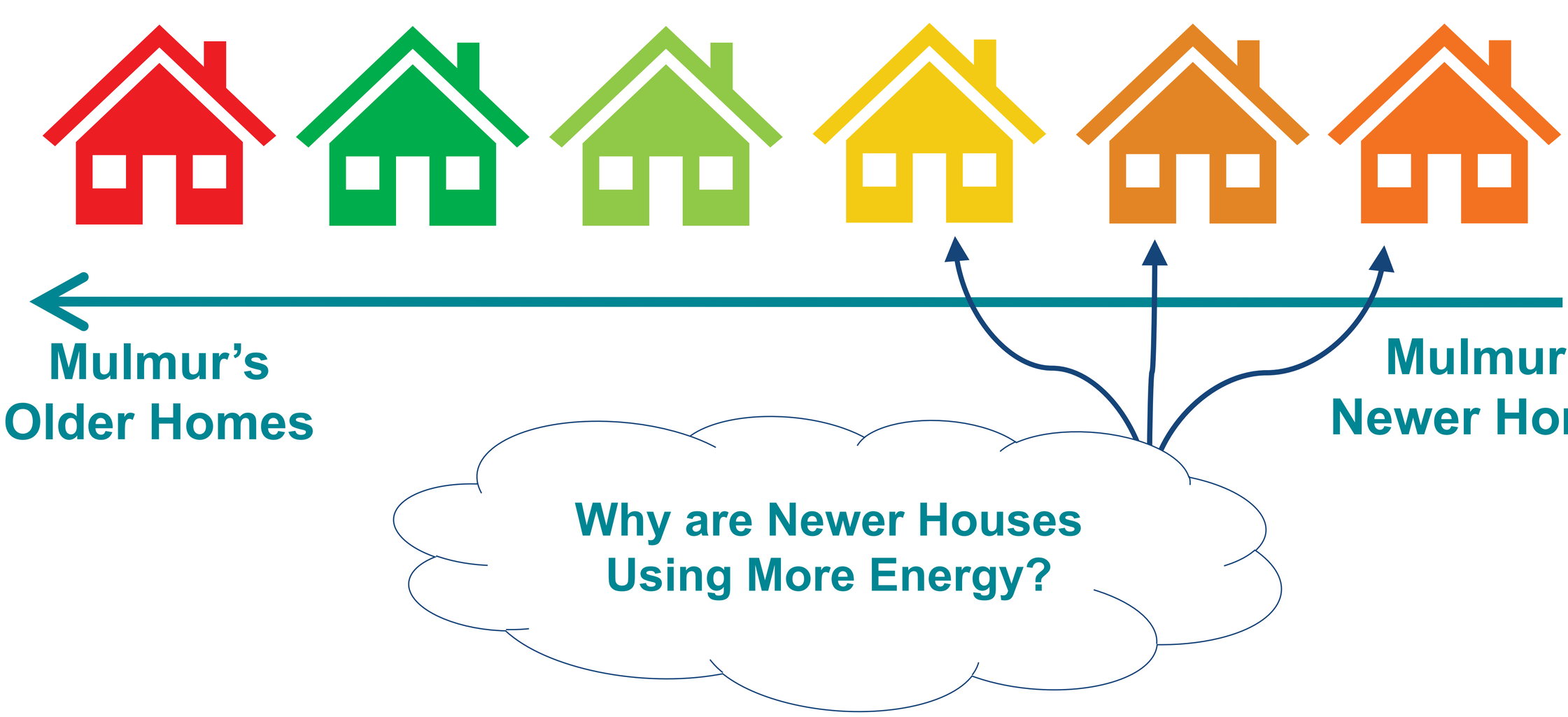
TOWNSHIP OF MULMUR

Insight on Residential Energy

High - Household Energy Consumption - Low



Despite increased energy efficiency in newer homes Mulmur's homes are growing in size so that they are consuming more energy then older (smaller) houses.

BURNSIDE

TOWNSHIP OF MULMUR

What Are the Changes You Would Like to See?

Where To Start?

Smart thermostats

LED’s

Renewables

Smart Faucets

Appliances with the best Energy Star Ratings

Please feel free to offer your suggestions on the comment sheets provided at the desk. Check out the list of possible actions you can take!

There will be a draw with three prizes for those who answer our questionnaire and submit ideas. Leave your name and address to enter in the draw.

BURNSIDE

TOWNSHIP OF MULMUR

Where Would You Like to See Mulmur's Emissions Targets Set?

Estimated Emission for 2018

Targets for 2030

Targets for 2040

Please provide your comments concerning what you would like to achieve and the year that you would expect to achieve these energy use savings on the comment sheet.

When would you like to see Mulmur achieve zero emissions?

Goals From Other CEPs

City Corporate Operations will be powered by 100% renewable energy by 2050.

Net Zero By 2050.

Reduce per capita primary energy use by 40% from 2014 baseline by 2041.

Reduce per capita GHG emissions by 40% from 2014 by 2041.

Reduce emissions by 80% below 2007 levels by 2040.

Achieve net zero or 100% emissions by 2050.

Cut emissions 50% by 2041.

50% gain in energy efficiency by 2041

Mulmur's CEP - Next Steps

How can we keep up momentum?

Take Action

Council Approves the Final CEP Plan

Participation of Mulmur residents & business is critical to meeting targets and goals.

Complete CEP Draft & Final Reports

Late 2019 early 2020.

Apply for Further Funding programs

Funding will help transition to a clean energy and energy conservation future.

Identify a Leadership Team

This team hopefully carry on helping residences and business undertake energy conservation activities

BURNSIDE

TOWNSHIP OF MULMUR

BURNSIDE

TOWNSHIP OF MULMUR

Mulmur's Community Energy Plan (CEP)

Why Is Mulmur Preparing a Community Energy Plan?

The energy we use in Mulmur is causing impacts on our atmosphere and natural environment ecosystems, but not all types of energy consumption has the same impact on the environment.

Emissions from hydrocarbon fuels such as: gasoline, diesel, fuel oil, propane, natural gas for transportation, heating, cooling, etc. are proven to be major contributors to climate change by producing greenhouse gases.

Climate Change is a fact and the scientific studies not only confirm it is happening right now, but that it is being caused by humans. Peer reviewed studies that confirm these findings can be found at:

IPCC, Environment Canada, see: https://www.ipcc.ch/sr15/ and http://www.changingclimate.ca/CCCR2019

The federal government recently declared a climate emergency.

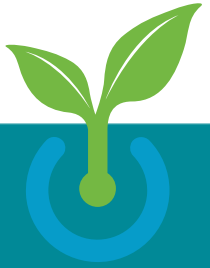
Why Is Mulmur Preparing a Community Energy Plan? (continued.)

So far Mulmur has largely been spared the effects of climate change on weather events happening around the world, but this is not expected to last.

We are only beginning to see the impact of the climate changes anticipated.

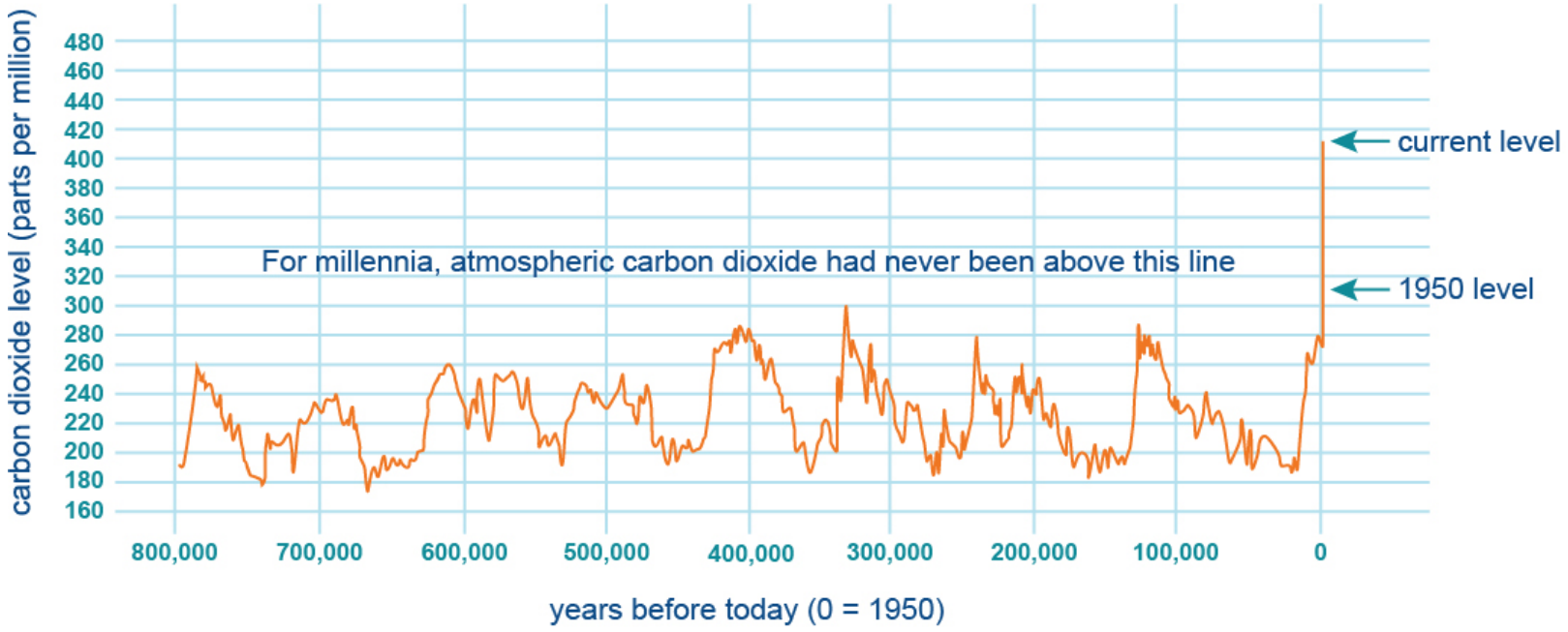
We must both mitigate the effects of climate change by dramatically reducing the use of hydrocarbon fuels

Adapt to prepare for the changes that are expected.



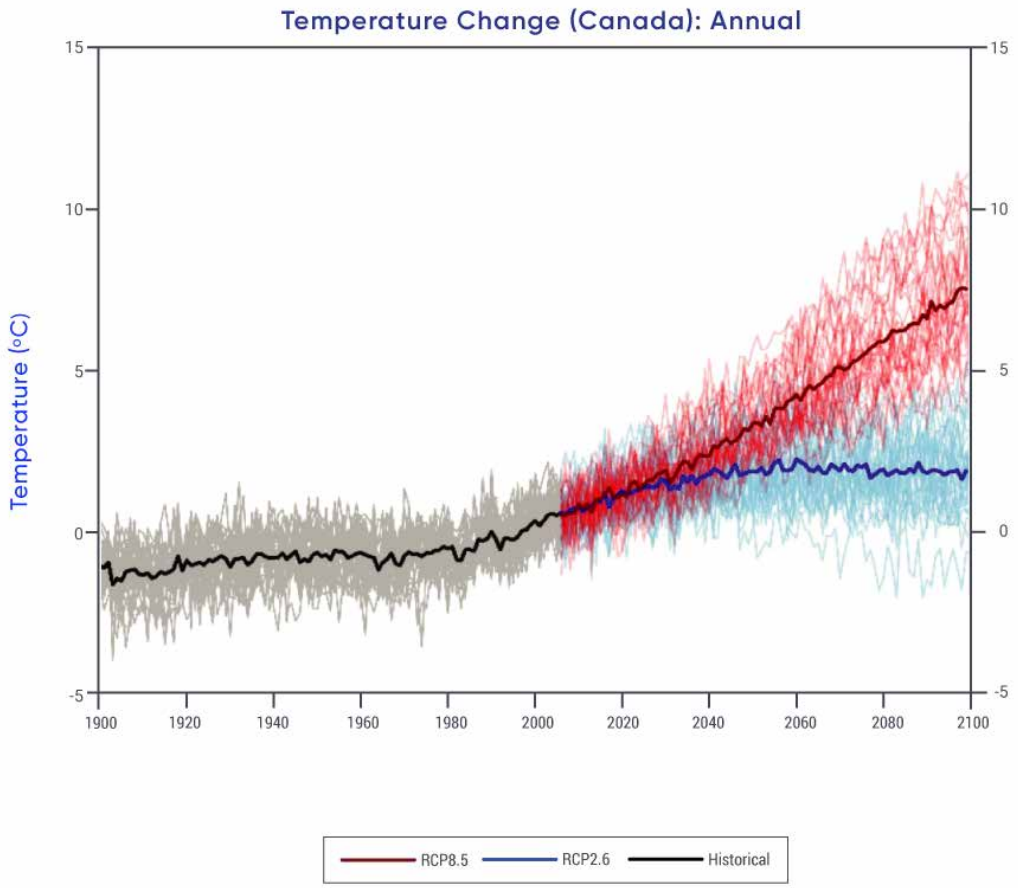
The slides which follow provide a snapshot of carbon dioxide increases that have occurred in the past 800 years in comparison with dramatic rises from 1950 to today. In the past temperatures and environmental impacts have mirrored these changes.

Rising CO_2e (Carbon Dioxide Equivalent) Levels



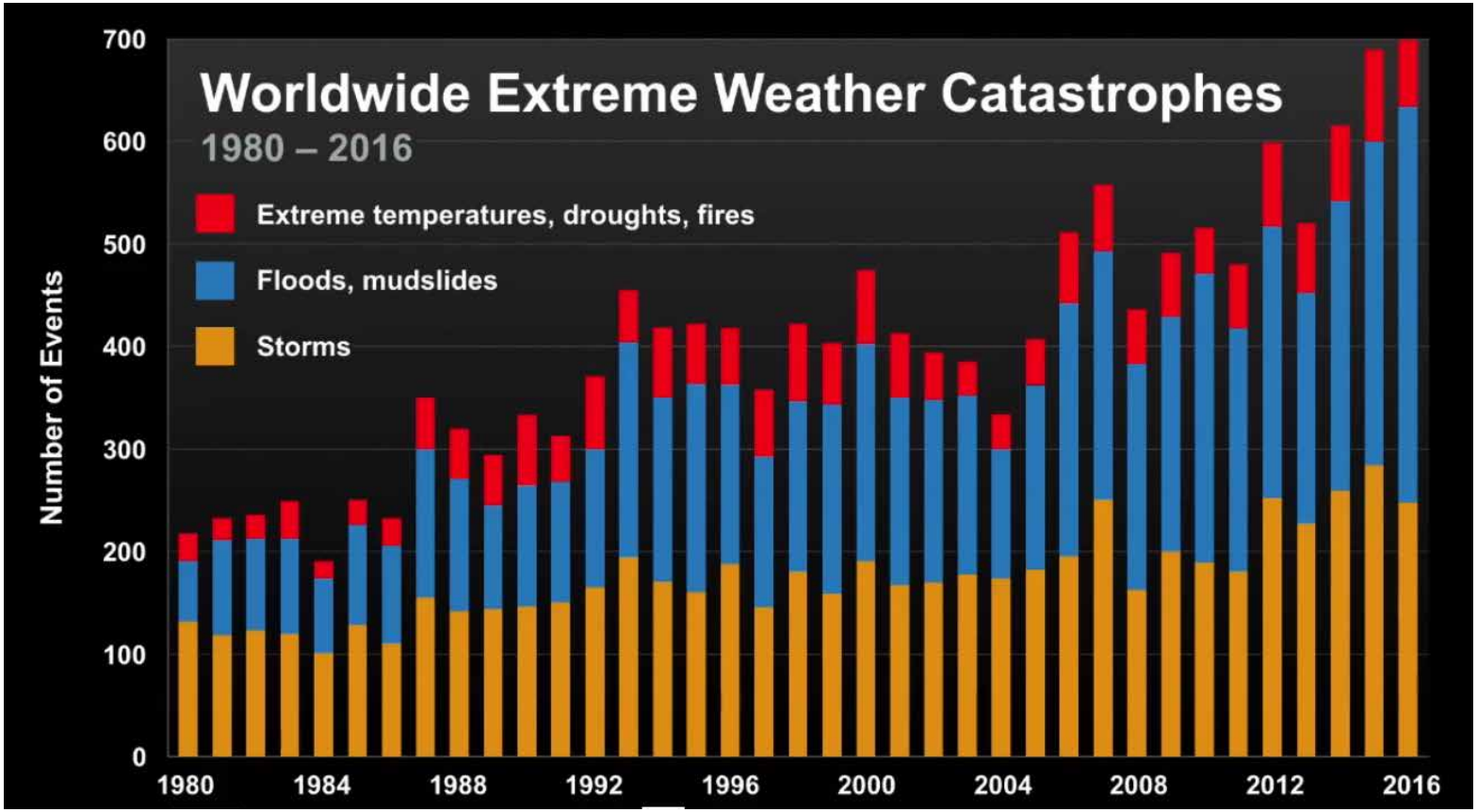
Credit: Luthi, D., et al.. 2008; Etheridge, D.M., et al. 2010; Vostok ice core data/J.R. Petit et al.; NOAA Mauna Loa CO_2 record/NASA

Canada's Projected Temperature Changes



Only the low emission scenario (RCP2.6) below is consistent with holding the increase in the global average temperature to below 2°C above pre-industrial levels. This scenario requires global emissions to peak almost immediately, with rapid and deep reductions thereafter. https://changingclimate.ca/CCCR2019/chapter/executive-summary/

The Impact of Climate Change



Al Gores- The Truth in 10

- Mulmur is focusing not only on actions that will help mitigate climate change effects, but development of a plan that will provide **economic benefits** to our residents and businesses. The following were identified as priority objectives of the community energy planning process.

- These objectives were approved by Mulmur and submitted as part of its funding applications to the Federation of Canadian Municipalities and Ontario Ministry of Energy.

What are the Objectives of this Community Energy Plan?

Economic Growth: While a significant portion of money is directed to paying energy costs in a community, few of the energy dollars spent by residents and businesses remain within that community. Mulmur's economic objective is to implement strategies that will keep more energy dollars in the community and thereby spur local economic activity.

Cost Savings: Through education and energy conservation measures we plan to demonstrate the benefits to reducing energy use.

What are the Objectives of this Community Energy Plan? (continued)

Energy Security: Rural living is generally more energy intensive than urban living and with fewer collective options to reduce carbon. Developing energy strategies which can buffer the community from uncertainty over evolving climate pricing and policies, and uncertain energy markets, both of which could impact local economies and are key objectives. Aligning the built environment, energy and land use growth planning: To help identify the best possible energy options to create a complete community and enhanced mobility.

Protecting the Environment: Canadian communities play a particularly important role in national and global efforts to address climate change as they have direct or indirect control of 60 percent of Canada's total GHG emissions. CEPs, and the associated energy conservation can consequently drive significant emissions reductions.

Setting Emission Targets

Ontario - Reducing its GHG emissions by 30% below 2005 levels by 2030- Made-in-Ontario Environment Plan

Canada - Reducing its GHG emissions by 30% below 2005 levels by 2030- Government of Canada.

International - Global temperature 1.5 below (1850-1900)- Intergovernmental Panel on Climate Change (IPCC)

The Cost of Carbon

Political Instability

Floods and Mudslides

Wildfires

Droughts

Storm Damage

Ocean Acidification

Climate Refugees

Species Extinction

Melting Glaciers

Famine

Water Scarcity

Ecosystem Loss

Infectious Disease's

Rising Sea Level

We Need Your Help!

- The Boards show the estimated consumption of energy by sector in Mulmur
- We have provided lists of potential solutions for each sector that will not only save you money, but help protect the environment
- Please join in the efforts to prevent Climate Change.

Thank you for attending!

Burnside and Mulmur Staff are available to help answer your questions

Mulmur's CEP Logo

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix F

Handout

You Can Make a Difference in Your Energy Consumption and Lower your Costs at Home

- **Lighting retrofits**
  -Changing your lights from Halogens to LEDs can improve your ambiance, increase your blubs longevity and can use up to 80% less energy and the lights have a long life.
- **Clotheslines**
  -Saves money, energy and is gentler on your clothes.
- **Updated Appliances (energy star)**
  -Look for the energy star rating when buying appliances to insure you are buying the most efficient appliances.
  -Did you now that the Federal Liberal government has an energy saving program that now offers 25% off the purchase price of new laundry and dish washing appliances.
- **Insulation; windows, doors and walls**
  -Consider weather stripping and upgrading insulation and vapor barriers - small air leakages in your home can add up to heating and cooling losses.
  -According to the Ontario Save on Energy web site your home could be losing up to a quarter of its heat through your windows.
- **Smart thermostats**
  -Even a few degrees can make a difference in comfort and in savings smart thermostats can streamline this prosses.
- **HRV Heat Recovery and Fresh Air Exchange**
  -If you don't have one already give it some thought, especially if you are increasing insulation and vapor barriers.

- **Energy audits**
  -Having a professional inspect your home can help better target in-efficiencies in your house.
- **Energy efficiency for weekend homes**
  -Leaving your cottage or house for the season or for a week, tips like turning off your appliances and reducing heating can save.
- **Smart faucets**
  -Using less hot water leads to heating less water, reduces overall water use and lowers pumping costs.
- **Renewables at home**
  -Why pay someone else for your electrical use when you could install a renewable energy system such as solar PV and in the medium to long term have free energy once the system is paid for. Be sure to ask any solar PV contractor for a feasibility and structural assessment before singing any contract.
- **Hot water tank insulation**
  Is a quick and inexpensive way to save water use and energy used for water heating, please consult with experts before insulating your tank
- **On demand heaters**
  Heat only the water you need

  Check out the Save On Energy Web site for more details at:
  https://saveonenergy.ca/For-Your-Home/Help-for-your-Home

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[THE DIFFERENCE IS OUR PEOPLE]

Appendix G

Ballot Responses

Name and Address	Percentage of Reduction by 2030	Percentage of Reduction by 2040	Comments Concerning the Energy Conservation Plan
Nicole Arrell 838452 4th Line of Mulmur Tel: 416-312-9630	No Comment.	No Comment.	No Comment.
(Illegible) Tel: 519-929-2843	No Comment.	No Comment.	Turn heat down- winter. Lower temp in hot water tank put up with heat in summer.
Mary Ann Lowry 798151 3rd Line E Mulmur ON L9V 0H7	5%	10%	It is futile to look at this from a single, small Township perspective. So many of the solutions require broader implementation.
Carmel Foster 757141 2nd Line East Mulmur ON L9V 0G7	No Comment.	No Comment.	No Comment.
Doug Chalmers 757142 2nd Line East Mulmur ON L9V 0G7	No Comment.	No Comment.	No Comment.
Lindsay Shaw 676523 Centre Road Mulmur ON L9V 0C8	20%	40%	Build/plan for infrastructure for electric vehicles. Create opportunities for local employment (to reduce commute travel). Municipal support for residential changes/upgrades to lower emissions.
Robert Wray 676523 Centre Road Mulmur ON L9V 0C8	20%	40%	Infrastructure for electric vehicles. Municipal support for residential changes to lower emissions. Create opportunities for local employment (to reduce travel/commute).
Marie Walsh mwalsh198@hotmail.com Tel: 416-704-9920	80%	100%	Electric car charger station.
Joanne Rovet 627162 15 Sideroad Mulmur ON L9V 0T5	No Comment.	No Comment.	I would like to be part of the leadership committee.
Ernest Rovet 627162 15 Sideroad Mulmur ON L9V 0T5 Tel:519-925-9021	30%	45%	Convert to electric vehicles (Municipal equipment). Public information campaign for new developments in reduction. Town Hall meetings – 4 year solely on climate change.
Flora Nadafi 936587 Airport Road Mulmur ON L9V 0L5 Tel: 647-500-1762	30%	80%	No Comment.
Patrick Fradley-Davis 796260 3rd Line EHS Mulmur ON L9V 0H2	5% per year	5% per year	No Comment.

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[THE DIFFERENCE IS OUR PEOPLE]

Appendix H

Survey Monkey Questionnaire

Spencer Brown

From: Lyle Parsons
Sent: Friday, April 10, 2020 10:29 AM
To: Tracey Atkinson; Heather Boston; Shirley Boxem
Cc: Jim Walls; Spencer Brown
Subject: FW: Survey Monkey Set up

Please see the following instructions and the proposed questions that will allow Mulmur to directly set up the survey monkey and obtain comments on the CEP reports back from its residents. We suggest that the Township run the survey for at least one month. As I recall the Township was going to send out an email to its residents concerning the survey. The results automatically compile and if the Township wishes we can include the compiled results in the public consultation report as an appendix when complete. The current set-up includes ten questions we suggest that some additional questions be considered and those are included at the end of this email. If the Township would like to include other questions, we leave this to you. A couple of the questions at the introduction are intended to confirm if respondents have read the reports. Please check the web references since I noticed that the front page reference to the energy study has been removed.

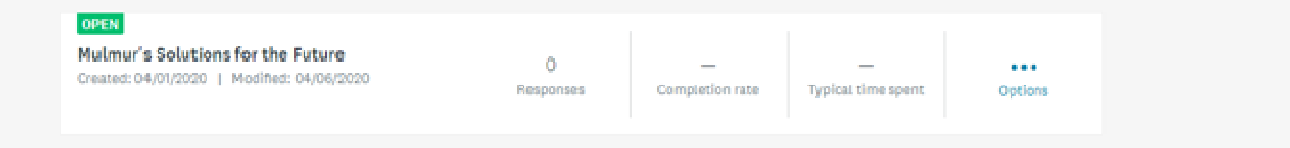
Best wishes
Lyle

Setting up the Survey Monkey

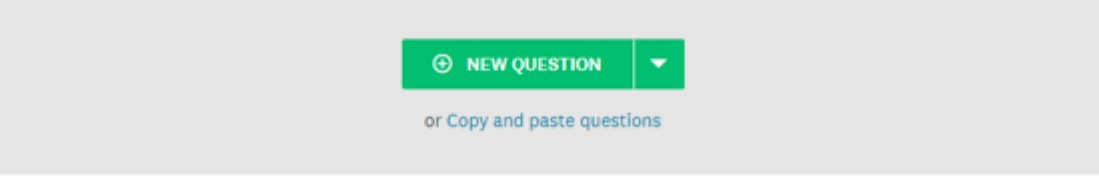
1. Sign in https://www.surveymonkey.com/?ut_source=smcsat_signout_survey/survey-thanks/?sm=3MgLKGOoAxx3jCjvF_2FYCvk8ImwBw_2BrbdORF5VRVXYmvM5HGPGO8i1eCsQu7RPhGPdjcPtbObXSOqEbGBSUYAkyIfiG_2BoBUfbrG3XtiJ8lGg_3D
   - User name : MulmurCEP
   - Password: MulmurC3P
2. Option to add more questions through surveys monkey's paid plans

Suggested plan would be *standard monthly* @ $99 per Month

3. The survey is name under Mulmur's Solutions for the Future



4. Please find 5 more optional questions at the bottom of this email.
   - To add questions go to survey design
   - Scroll to the bottom and add questions as shown below



Uploading the Survey

5. Continue to collect responses
6. Choose Weblink
7. Copy weblink to Mulmur's Website

Extra Questions

1. An energy audit of the North Dufferin Community Centre was completed and is summarized in section 6.0 of Volume 1. Details of this professional audit were provided in Volume 2. Both Mulmur and Melancthon provide funding for this arena. Do you think the Townships of Mulmur and Melancthon should invest the capital to implement the energy savings estimated?

   Strongly agree 5 4 3 2 1 strongly disagree

2. What is preventing you from switching to an electric car or SUV (EV). Please check and rank all that apply with the highest number being the most important to you.

   Cost to purchase
   Total mileage that they can achieve on a single charge
   Lack of charging infrastructure for trips away from home
   Cost of installing a charger on my property
   An EV would not work for me due to the requirements of my travel or business needs
   Other. Please briefly explain._____

3. The CEP Volume 1 makes a number of recommendations in section 9.0 and 10.0 starting on page 57. See http://mulmur.ca/content/departments/public-works/191206-cep-volume-1-comprehensive-report-041822.pdf
   Do you generally agree or disagree with the recommendations?

   Strongly agree 5 4 3 2 1 strongly disagree

4. Are there any recommendations in particular that you disagree with? Please specify the section number of the recommendation and explain why you disagree.

COVID 19: We remain open for business

The health and safety of our employees and clients is of paramount importance. Most of our staff are working remotely and continue to serve clients using our well established collaborative technology platforms. For our full COVID 19 response please click here.

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****

Maintenance reminder You won't be able to access your account on **May 23** starting at **9:00am PT (4pm UTC)** for approximately 8 hours. **Learn more »**

Mulmur's Solutions for the Future

Page Logic More Actions

UPGRADE TO ADD A LOGO

Mulmur's Solutions for the Future

PAGE TITLE

1. Are you aware of four purposes for undertaking Mulmur's Community Energy Plan?

- Yes
- No

2. What are the two largest consumers of energy and producers of

Education
Events
Healthcare
Human Resources

greenhouse gases in Mulmur? Please check to two highest.

- [ ] Agriculture
- [ ] Residential Buildings
- [ ] Municipal Government
- [ ] Private Transportation

New version available!
Saving changes...

3. Are you familiar with energy audits?

- ◯ Yes
- ◯ No

4. Do you believe that there would be some value in undertaking an energy audit of your residential or business buildings?

- ◯ Yes
- ◯ No

5. Do you believe that you could save money over the intermediate to lo term by making an investment into energy efficient changes to your

residence or business buildings?

1 Strongly Disagree 3 5 Strongly Agree

6. Are you familiar with renewable energy projects (such as solar pv systems)?

New version available!

Saving changes...

- Yes
- No

7. Do you believe that there would be some value in undertaking a renewable energy project at your residential or business buildings?

- Yes
- No

8. Do you believe that you could save money over the intermediate to long term by making an investment into a renewable energy project at your residence or business buildings?

1 Strongly Disagree 3 5 Strongly Agree

9. What is the most important reason why you would or would not make investments into renewable energy and/or energy efficient changes at your residential or business buildings. Please check all that apply.

- Not interested
- Not feasible
- Can't afford capital cost
- I have not completed an energy audit
- I plan to make energy reducing improvements
- Other (please specify)

New version available!

Saving changes...

10. Do you agree with the proposed CEP Goals proposed for Mulmur discussed in Volume 1, Section 5.1 as shown in Figure 5-3? See: **http://mulmur.ca/content/departments/public-works/191206-cep-volume-1-comprehensive-report-041822.pdf**

1 Strongly Agree 3 5 Strongly Disagree

NEW QUESTION

or Copy and paste questions

DONE

New version available!

Saving changes...

Powered by SurveyMonkey

See how easy it is to create a survey.

0 of 10 answered

NEW PAGE

ENGLISH

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McAfee SECURE

R.J. Burnside & Associates Limited