

# 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:

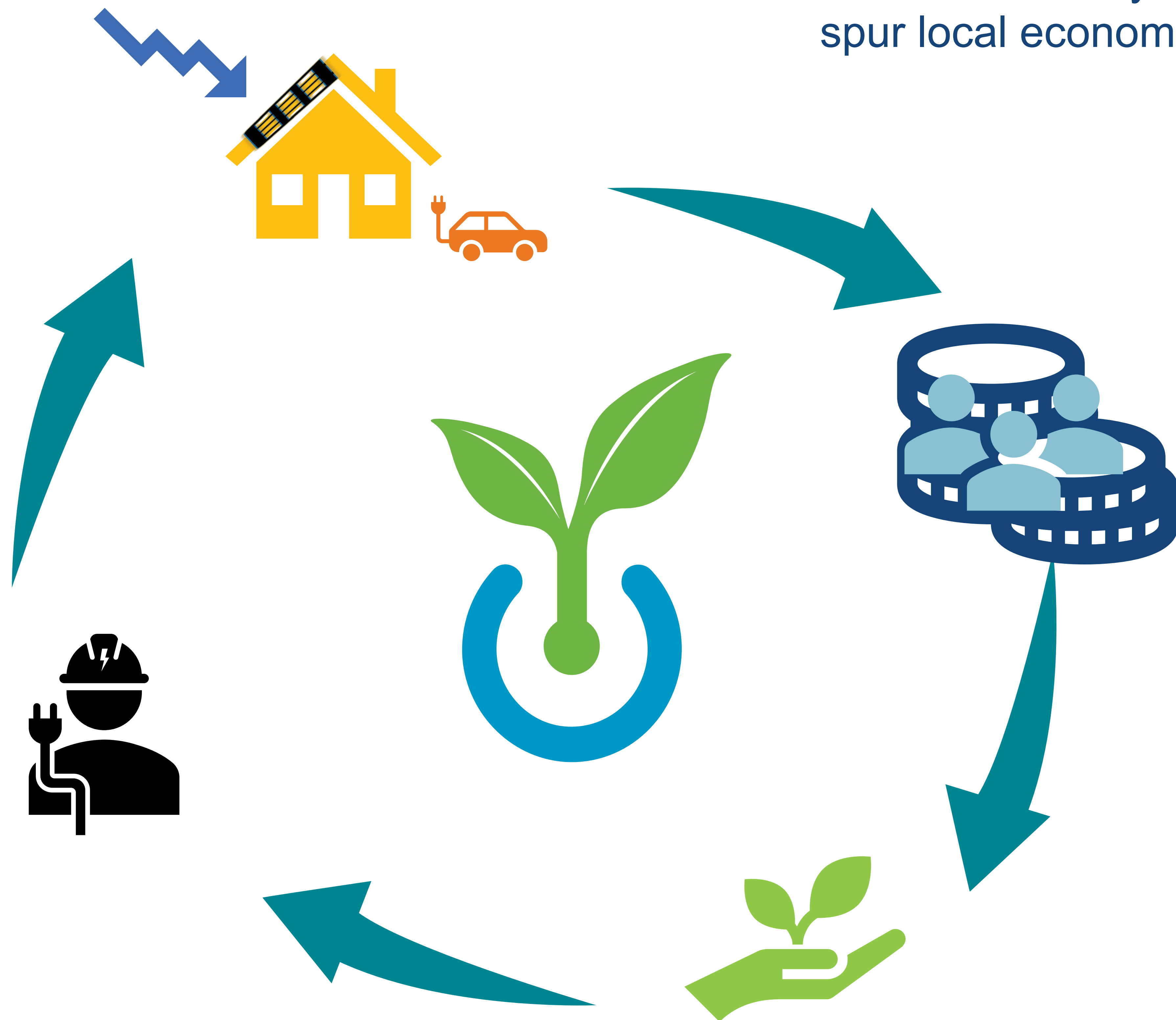
- Determine community-wide energy consumption and GHG emissions; and
- Identify and implement solutions to improve energy efficiency and conservation.



# 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.

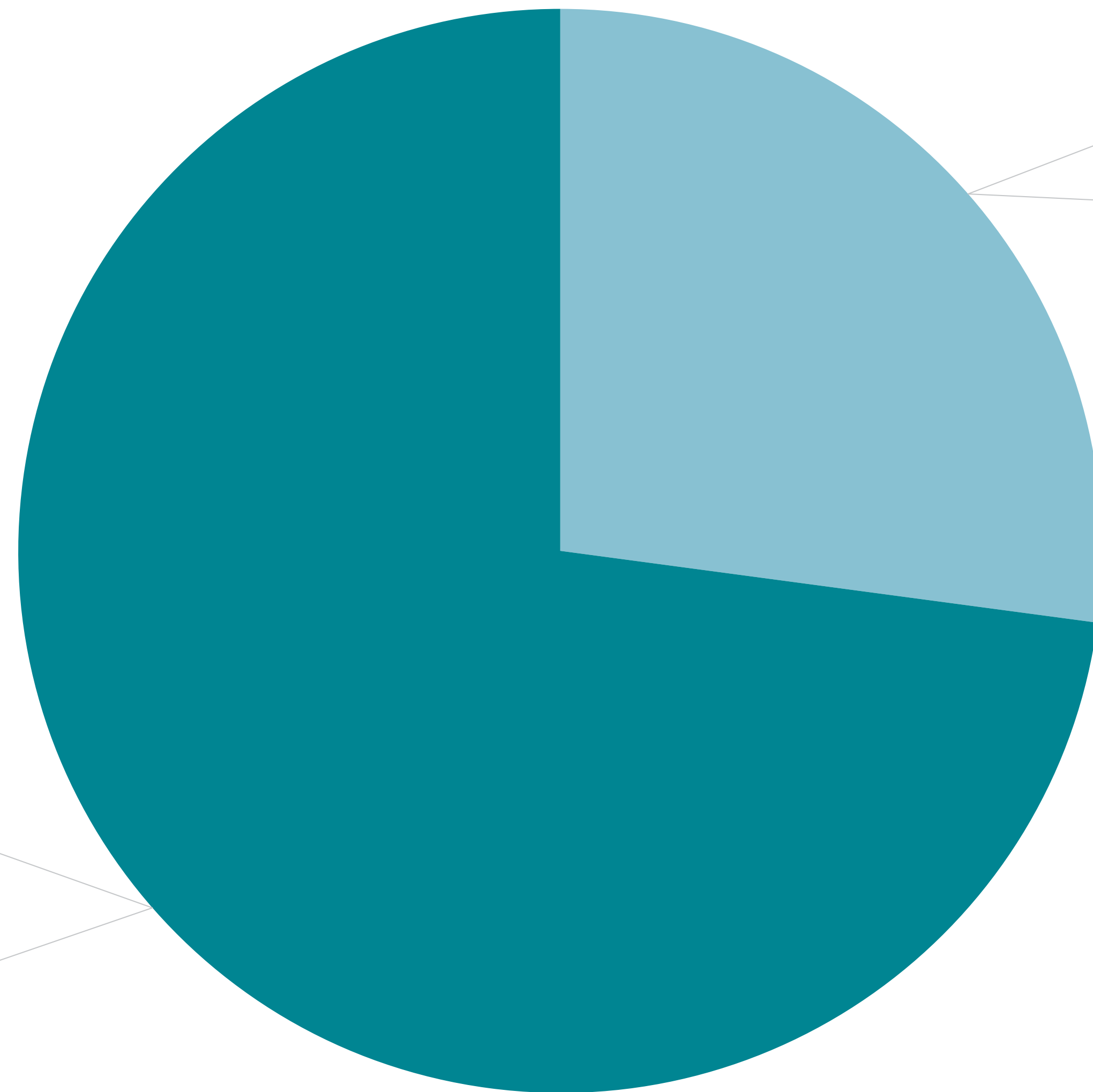
✓ **Protecting the Environment:** CEPs, and the associated energy conservation can consequently drive significant emissions reductions.





# Where Does Your Money Spent on Energy Go?

Estimated Money Spent on Energy in Mulmur for 2018



Revenue Stays in  
Mulmur  
27%

Revenue that  
Leaves Mulmur  
73%



Outside utilities  
benefit from your  
energy use.

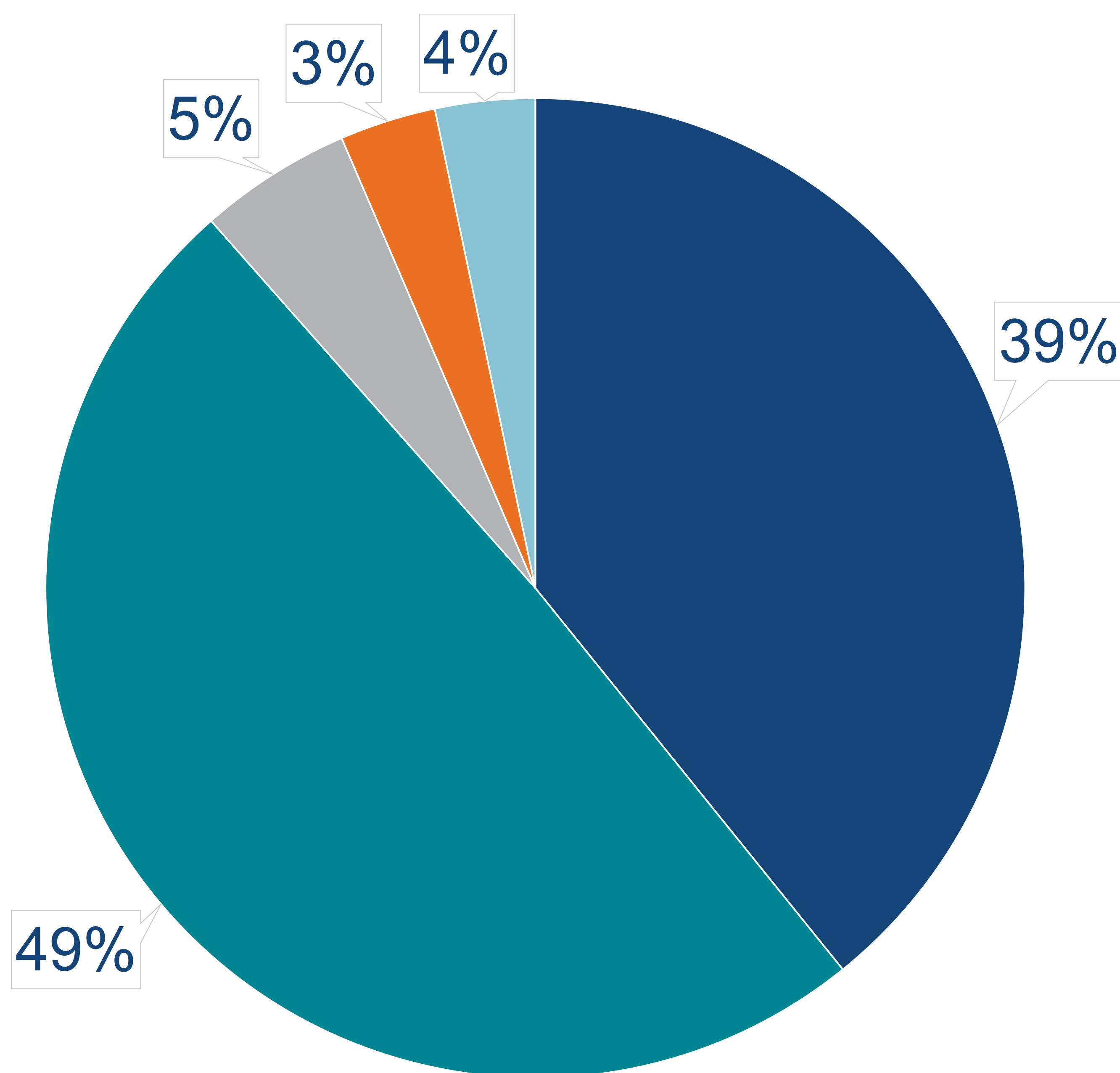


Let's change by making  
energy reductions and  
by generating more of  
our own energy.

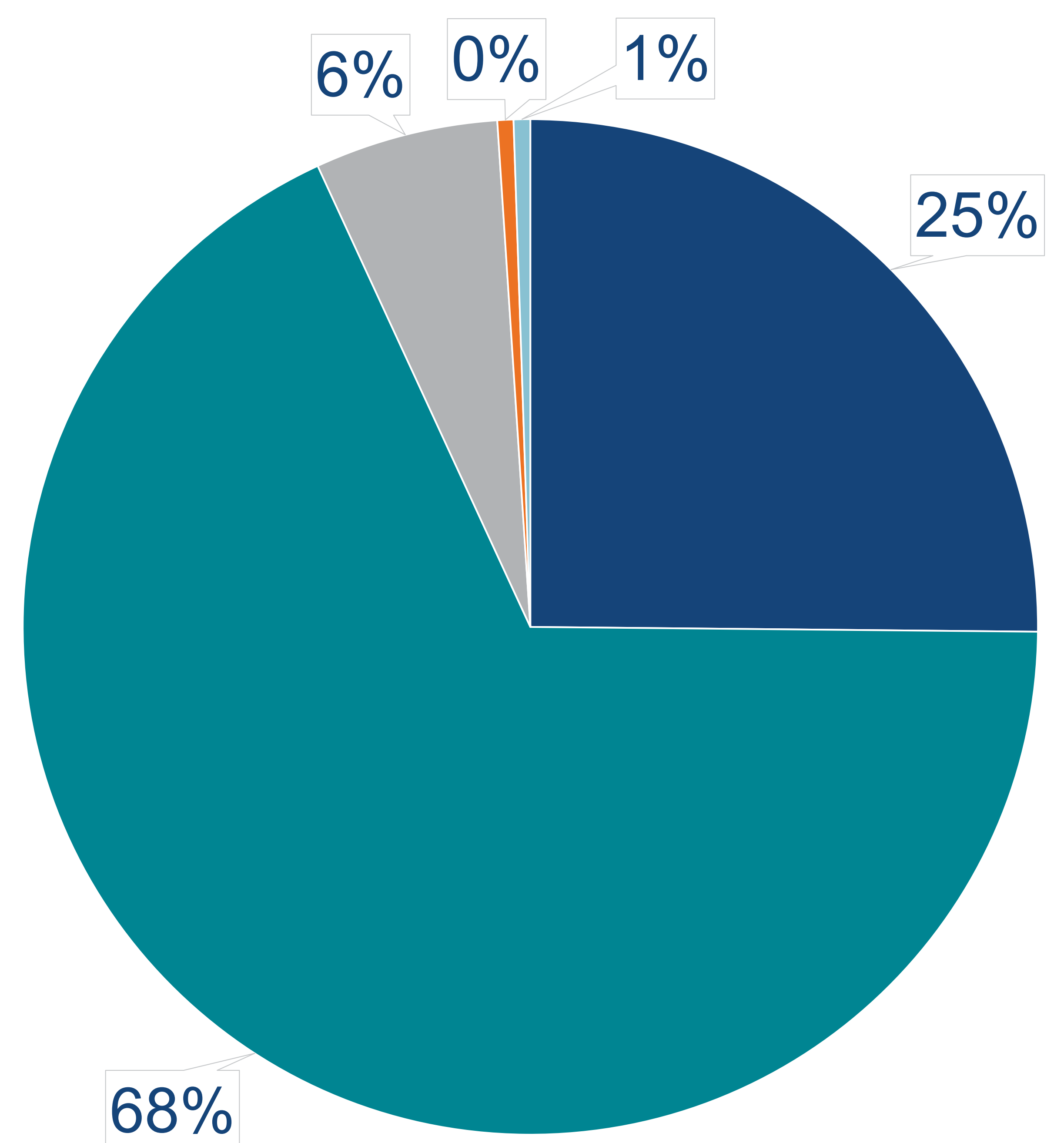


# Municipal Energy Consumption and Emissions Released

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



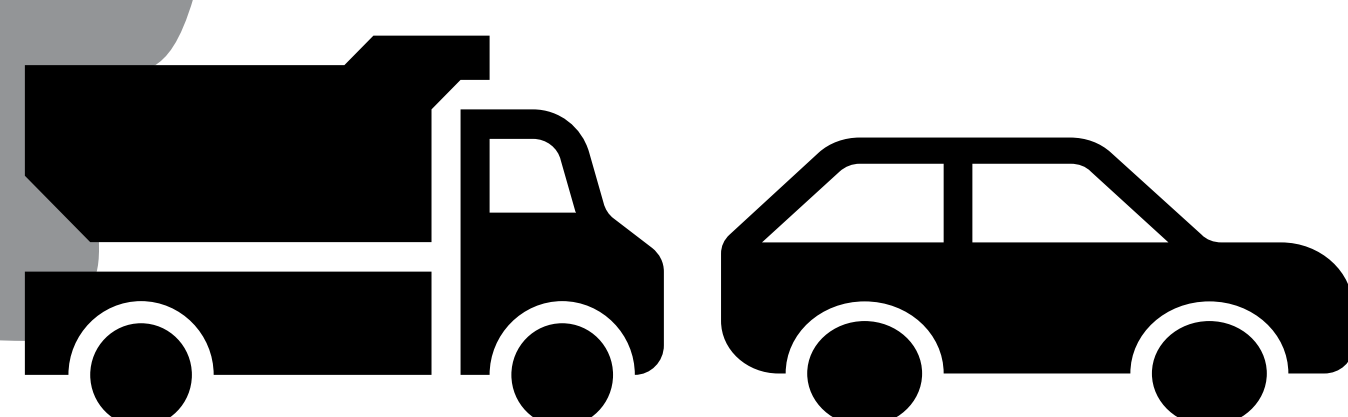
Mulmur's CO<sub>2</sub>e Emissions Released (Tonnes) in 2018 by Source



- Buildings
- Fleet Vehicles
- Contractors
- Streetlights
- Other

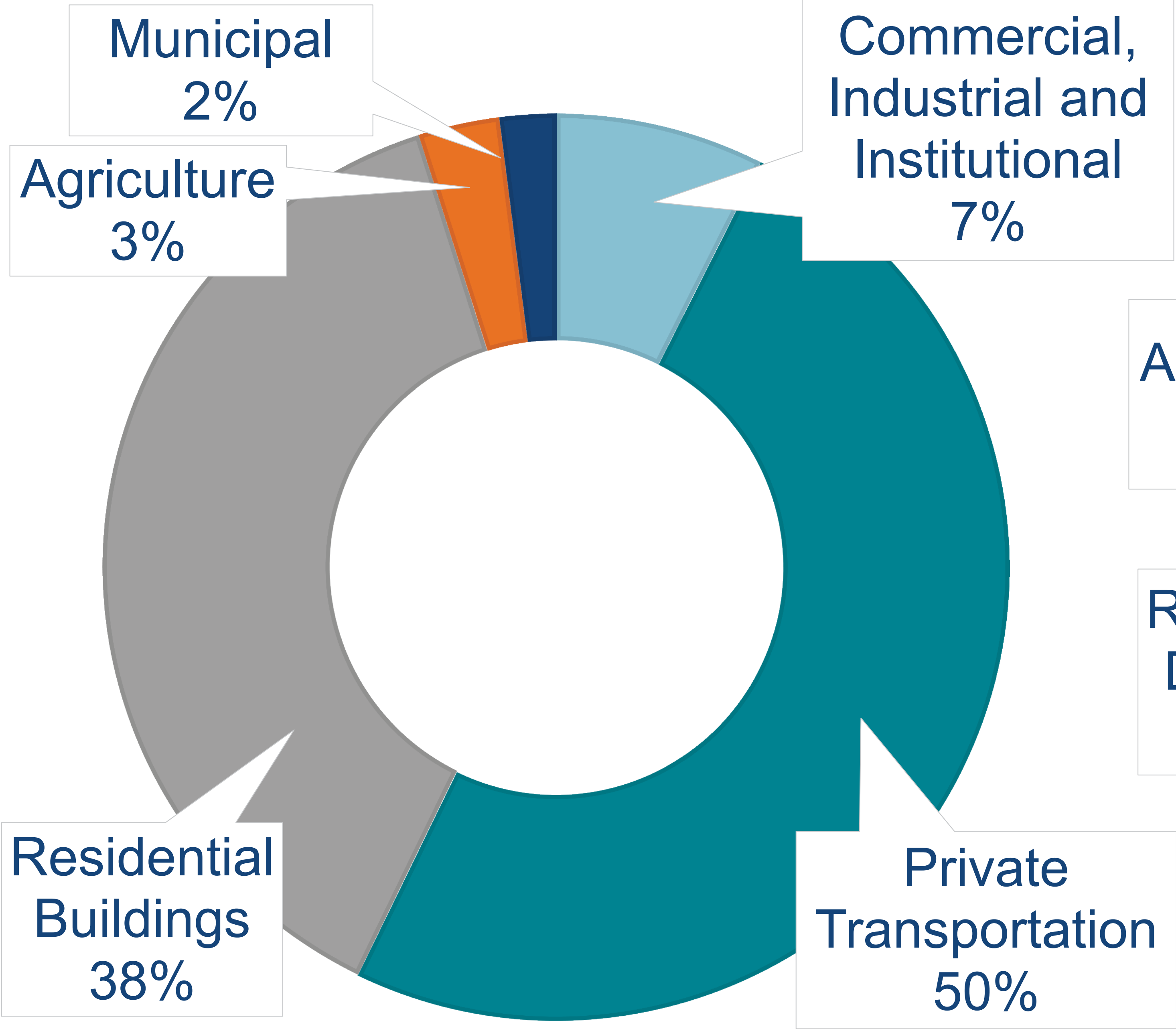
**Other includes:**  
Streetlights; PublicWater Pumps; Parks; and Scale house.

68% of  
Municipal  
Emissions come  
from fleet vehicles

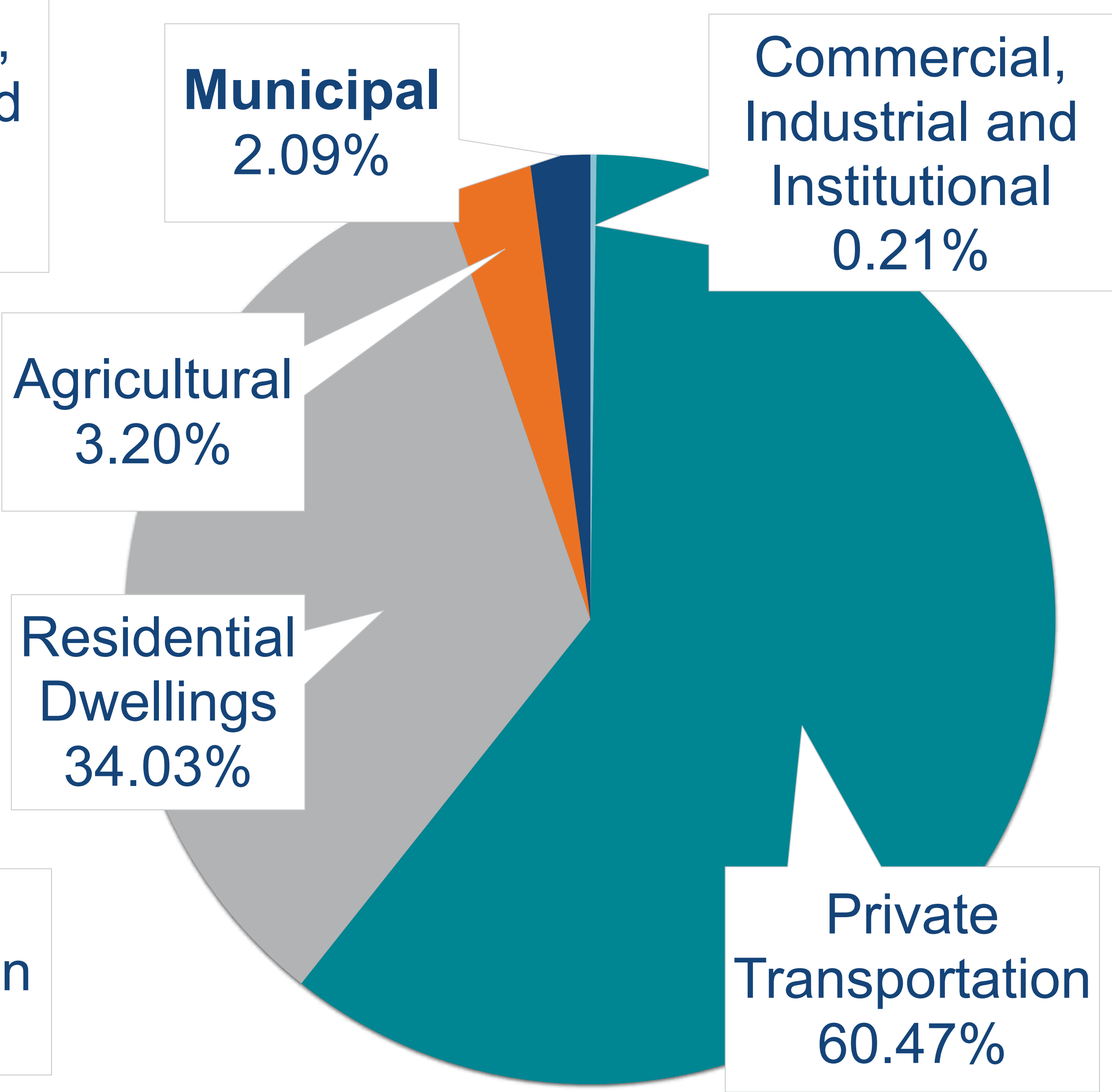


# Mulmur's Totals

## Total Energy by Sector

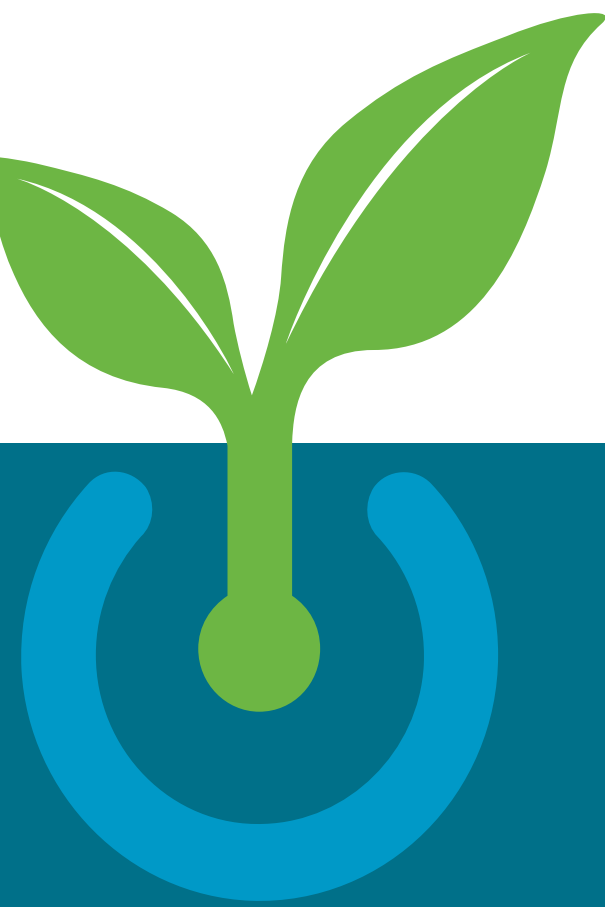


## Total Emissions from Energy by Sector



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

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



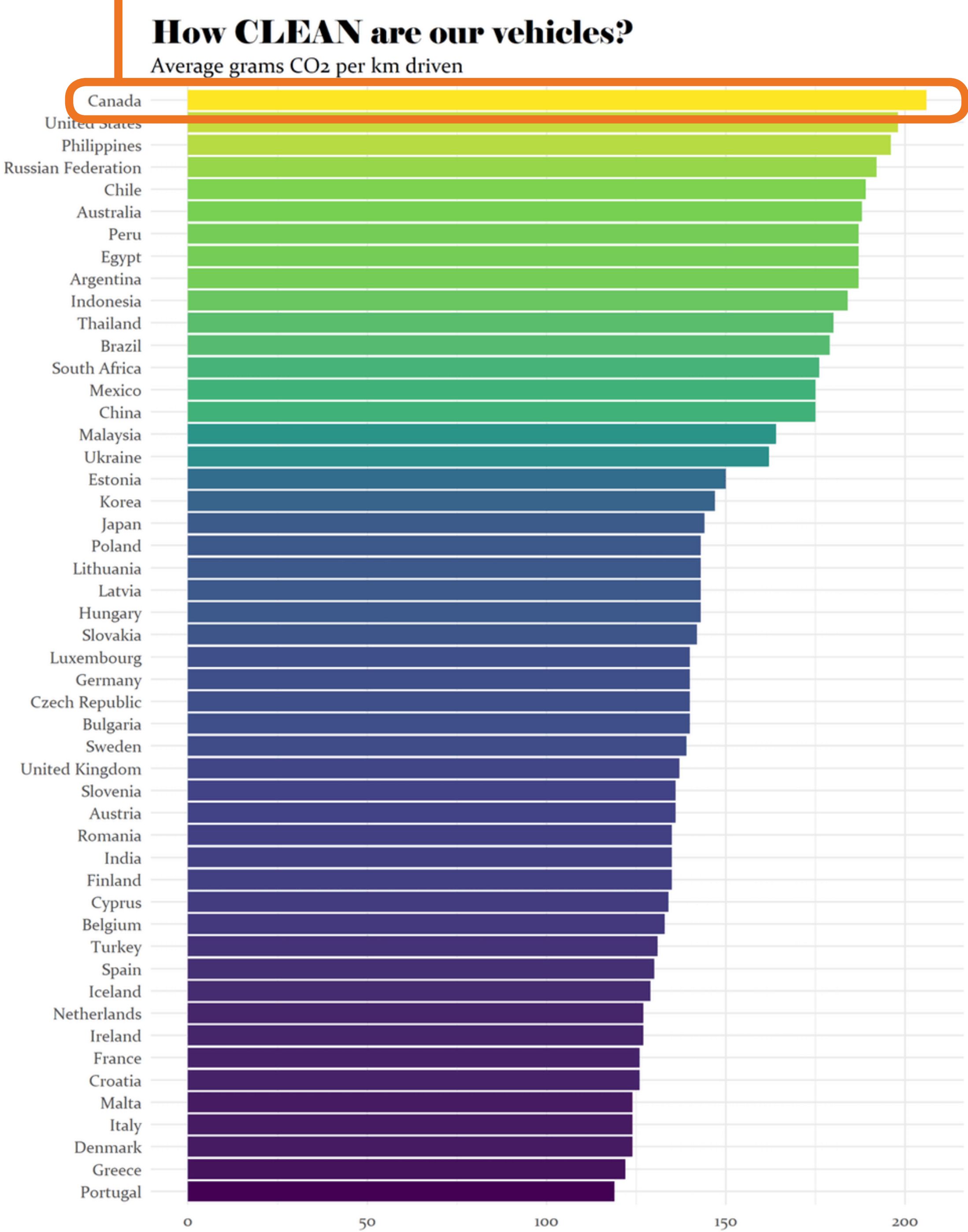
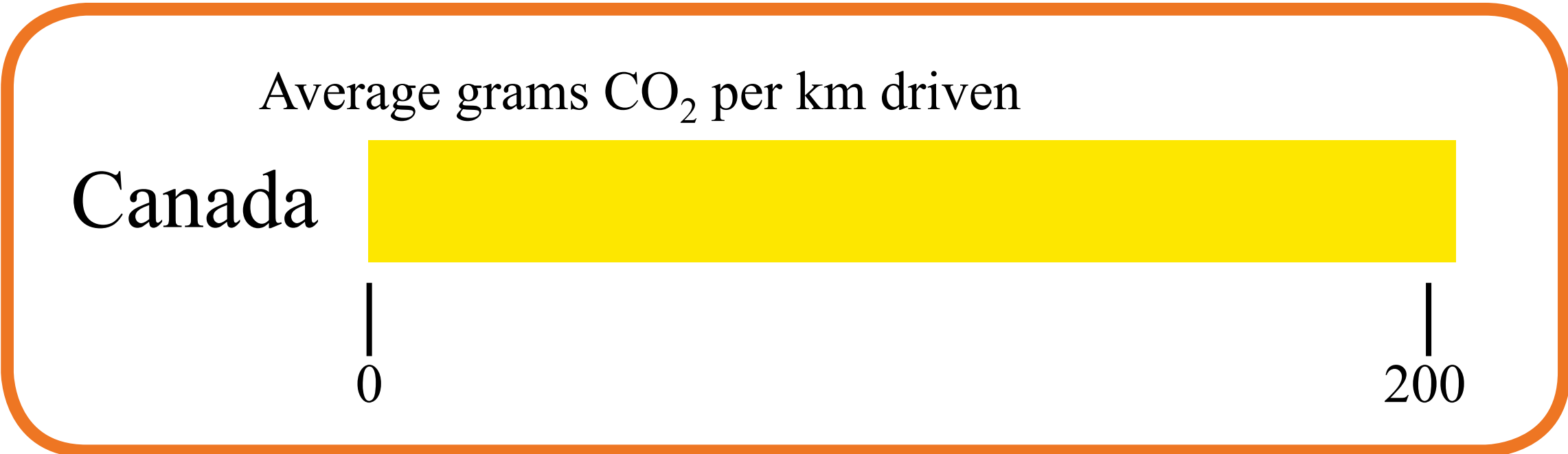


# Mulmur's Estimated Private Transportation, 2018

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

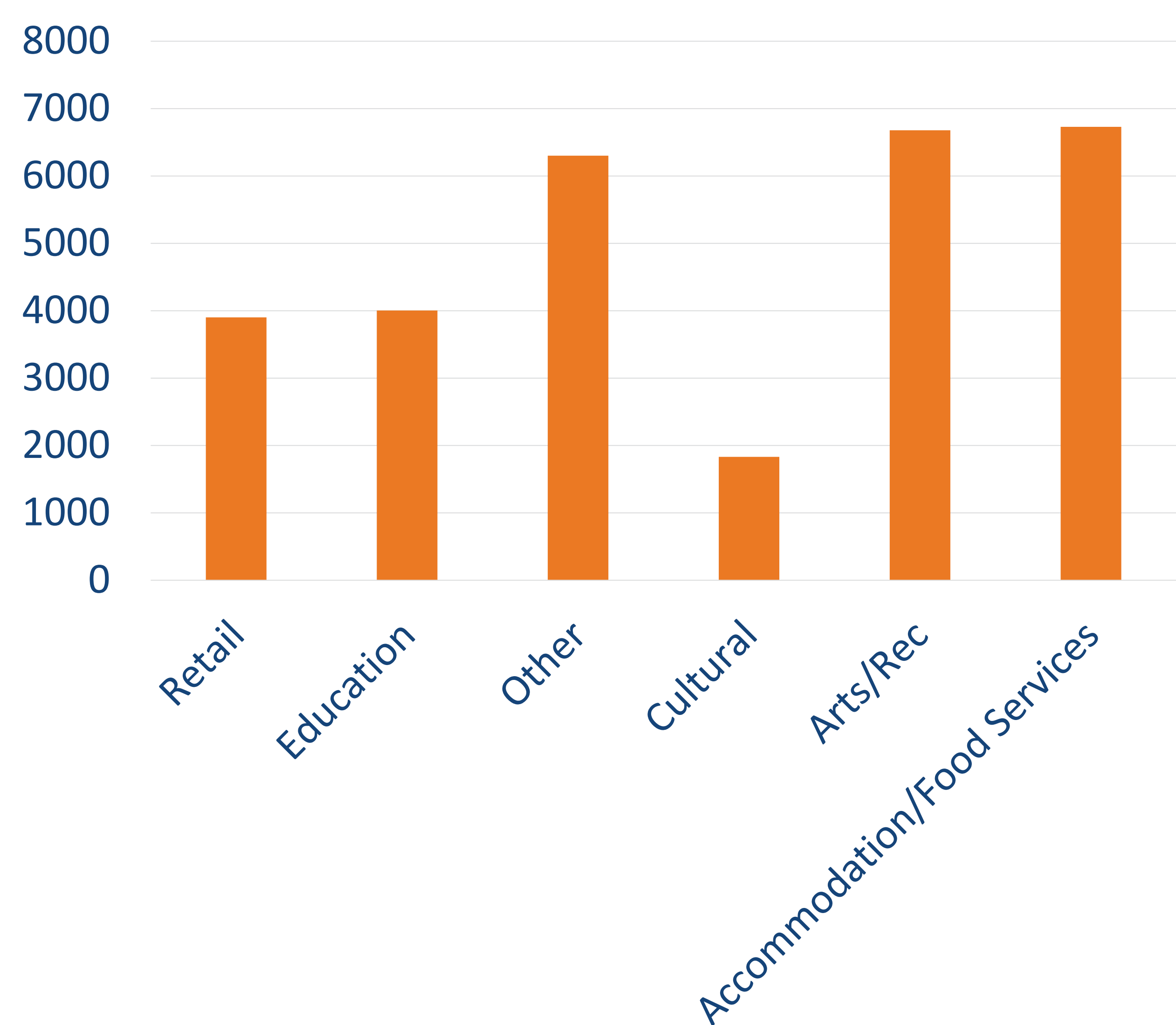


Sourced from The Conversation

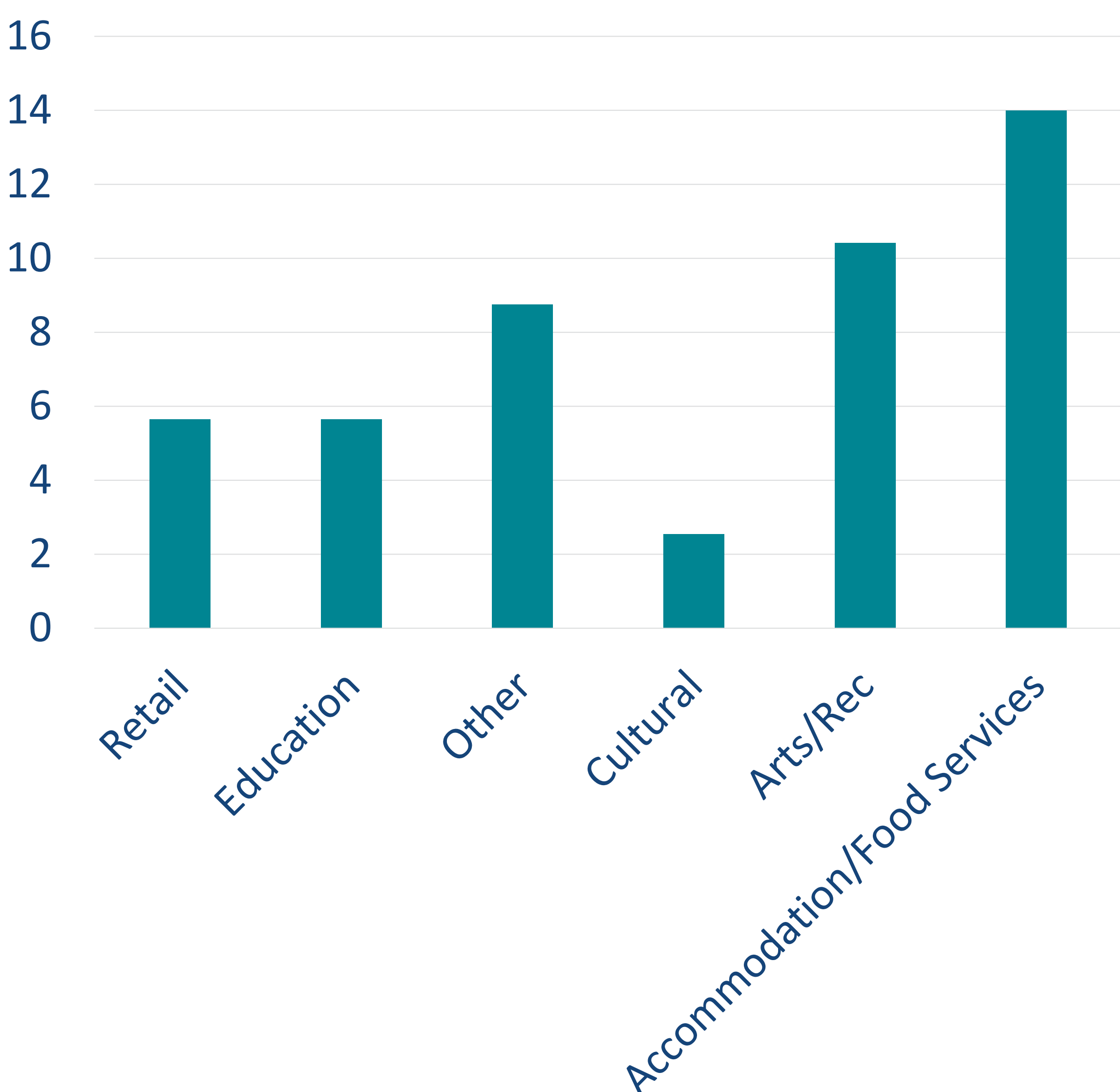


# Estimated Industrial, Agricultural and Commercial Energy Consumption and Emissions Released (2018)

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)

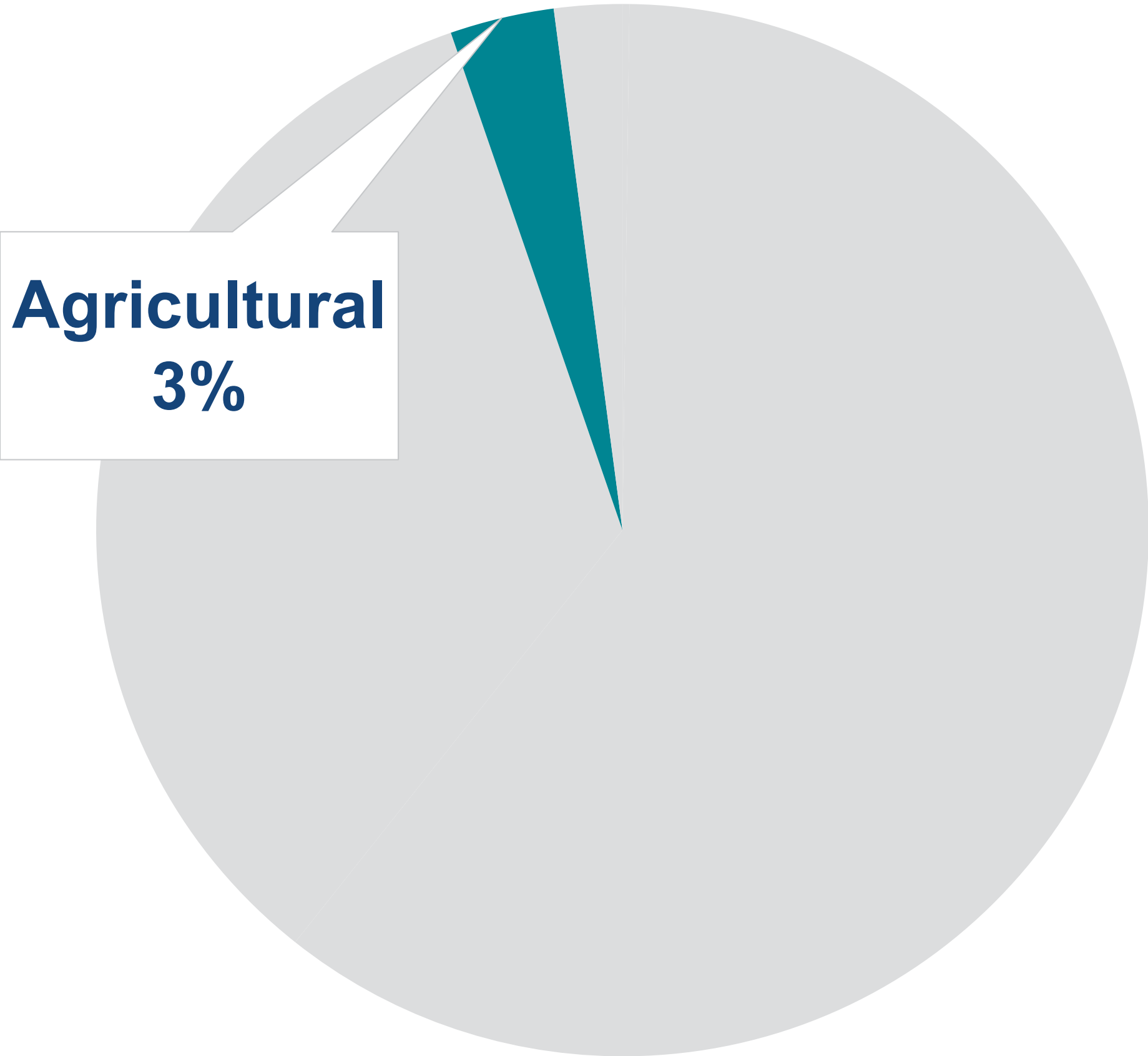


Agricultural Energy (gigajoules) Consumption in the Township of Mulmur (2018) – Estimates only include tractor fuel consumption.



Agricultural 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.

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

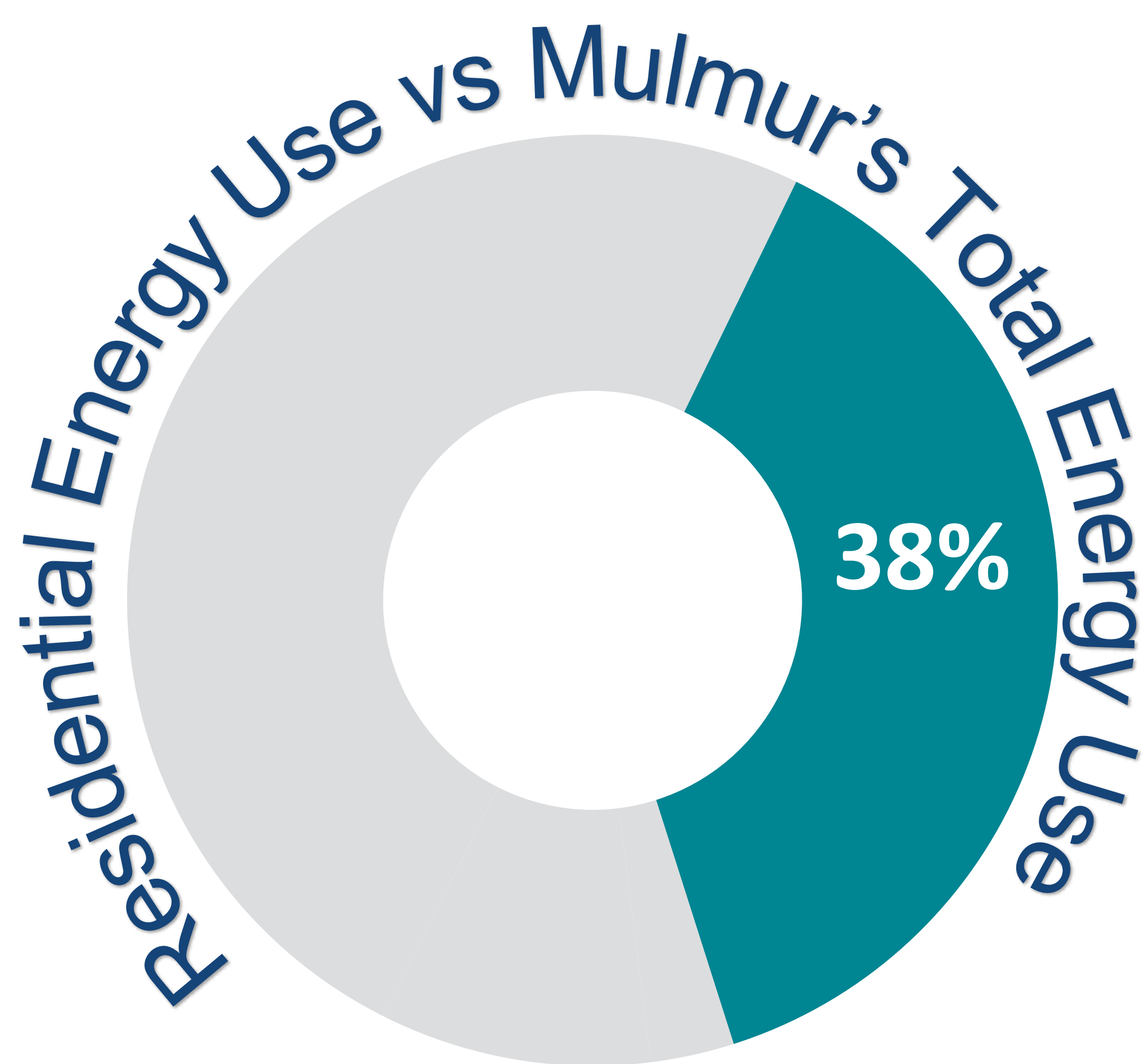


All Data presented is estimated.





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



Space Heating 64%



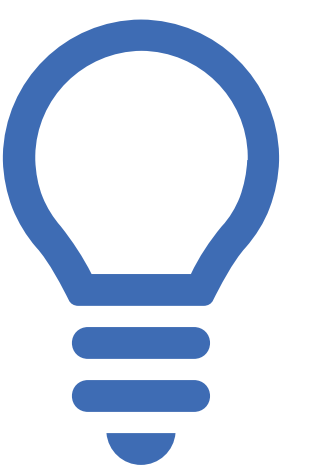
Water Heating 21%



Appliances 11%



Lighting 3%



Cooling 1%



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

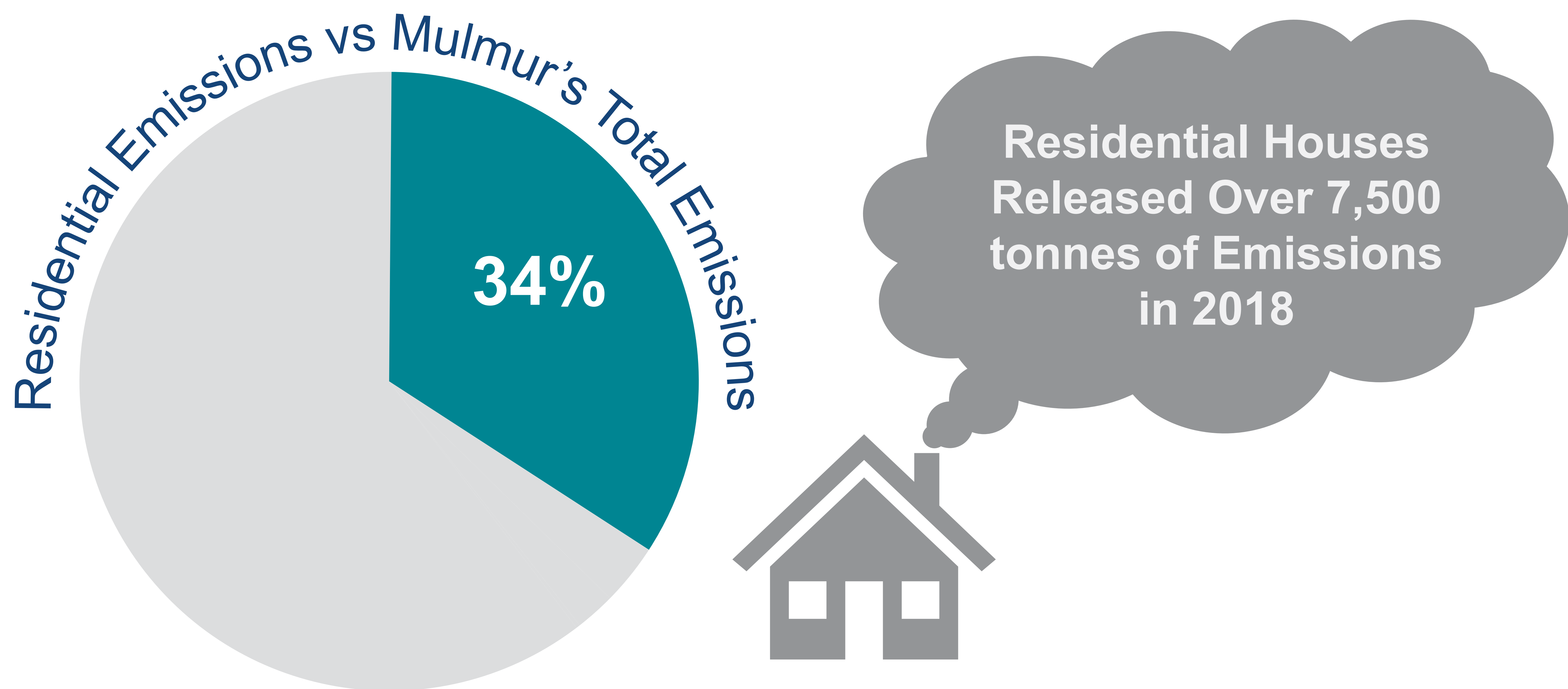


The average house in Mulmur uses **82 Gigajoules** yearly (the energy equivalent to **2,343 L.** of gasoline). (Estimated)

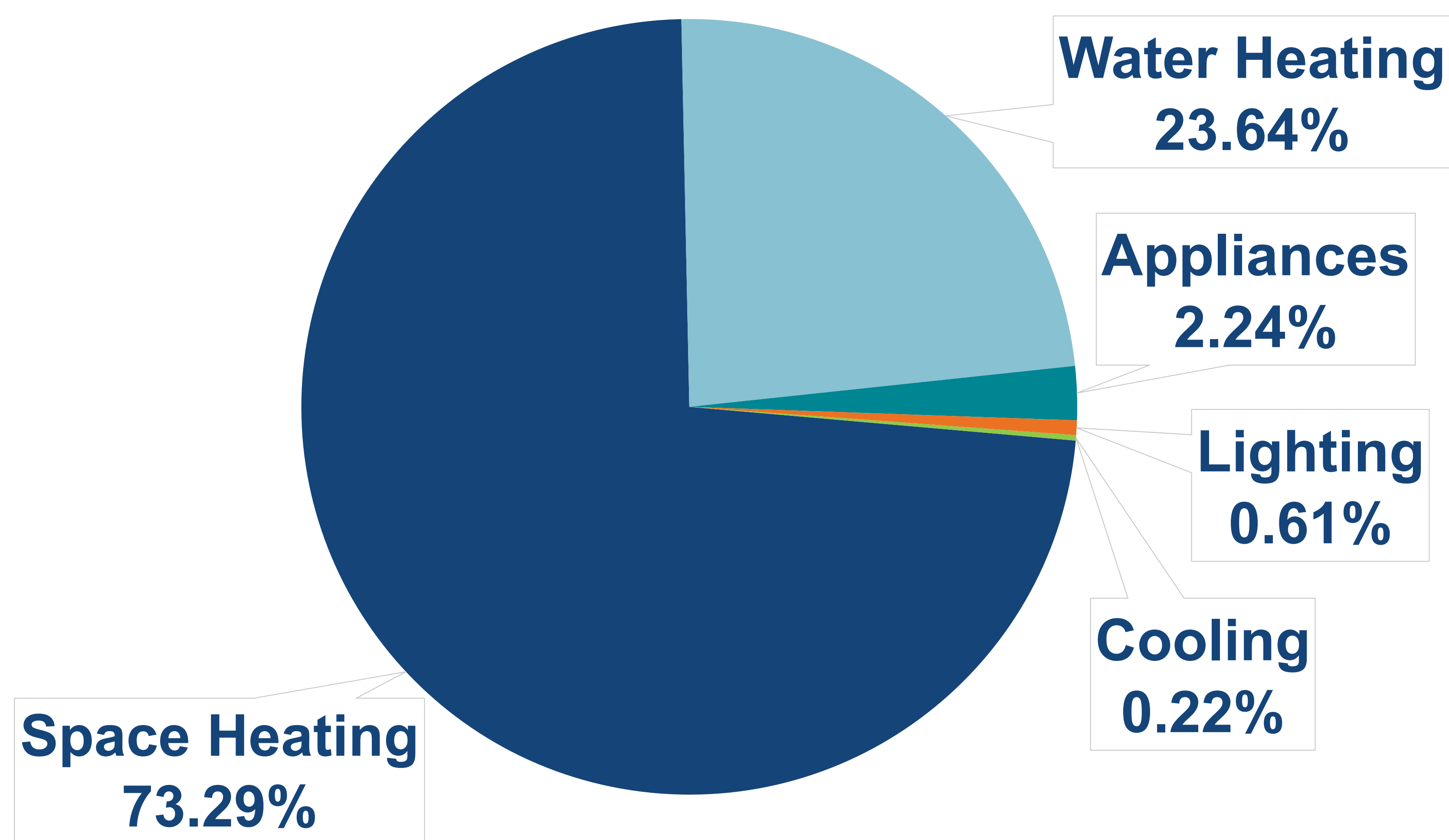




# The Township of Mulmur's Residential (estimated) Emissions Released from Energy Consumption, 2018

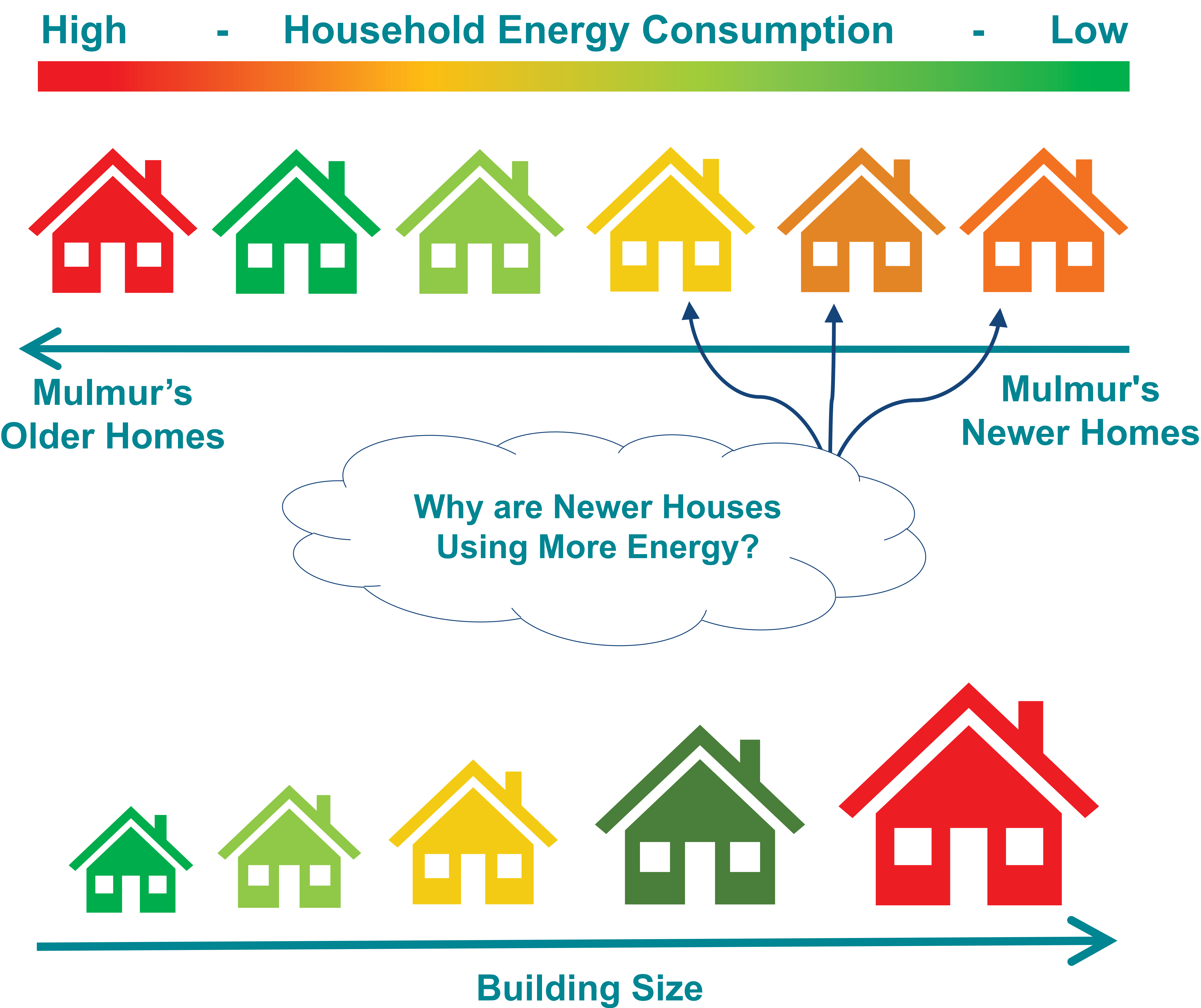


## Residential Emissions Released by Source (tonnes)





# Insight on Residential Energy



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





# 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

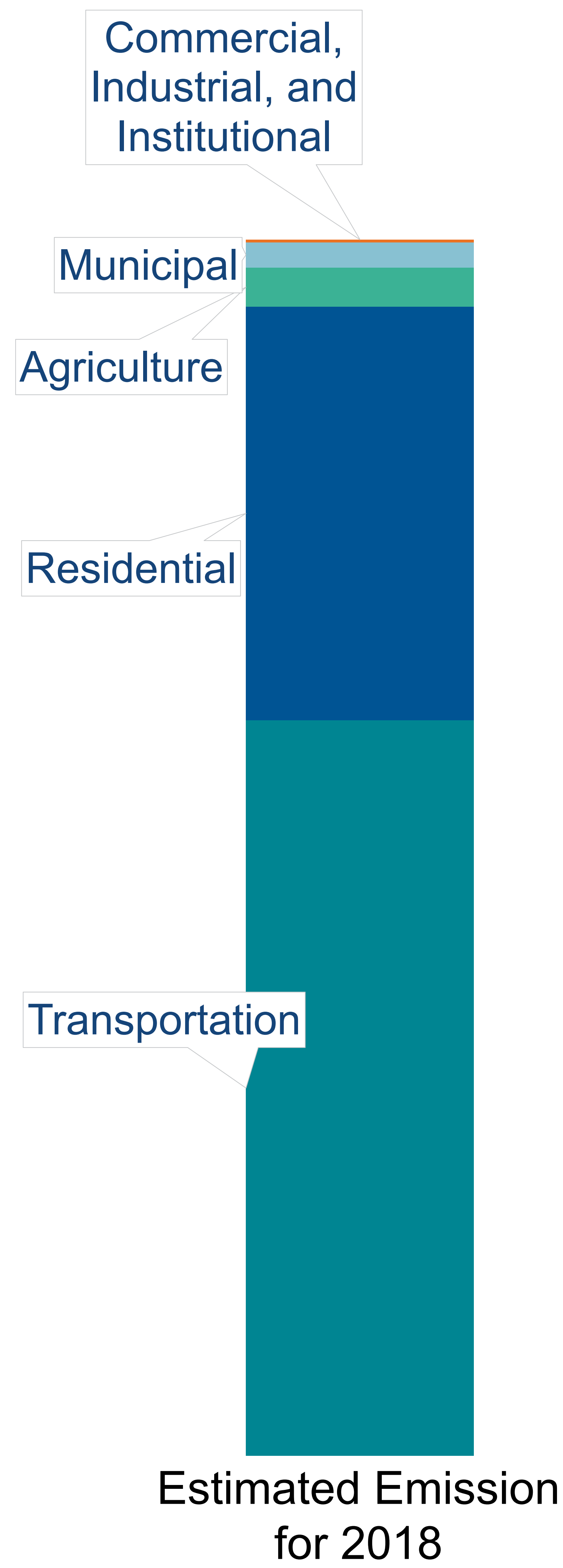
**Please feel free to offer your suggestions on the comment sheets provided at the desk. Check out the list of possible actions you can take!**

**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.**

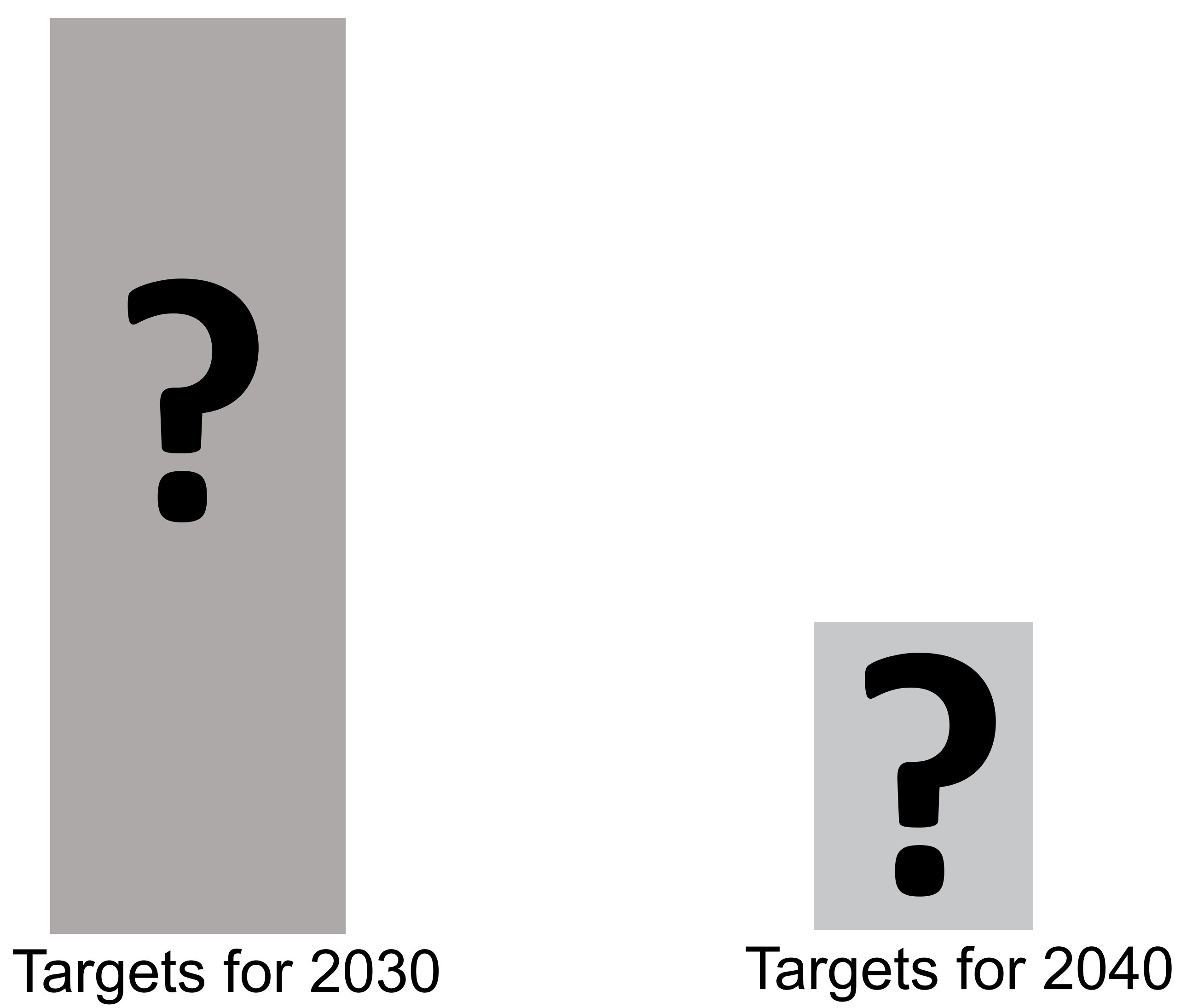




# Where Would You Like to See Mulmur's Emissions Targets Set?



**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.



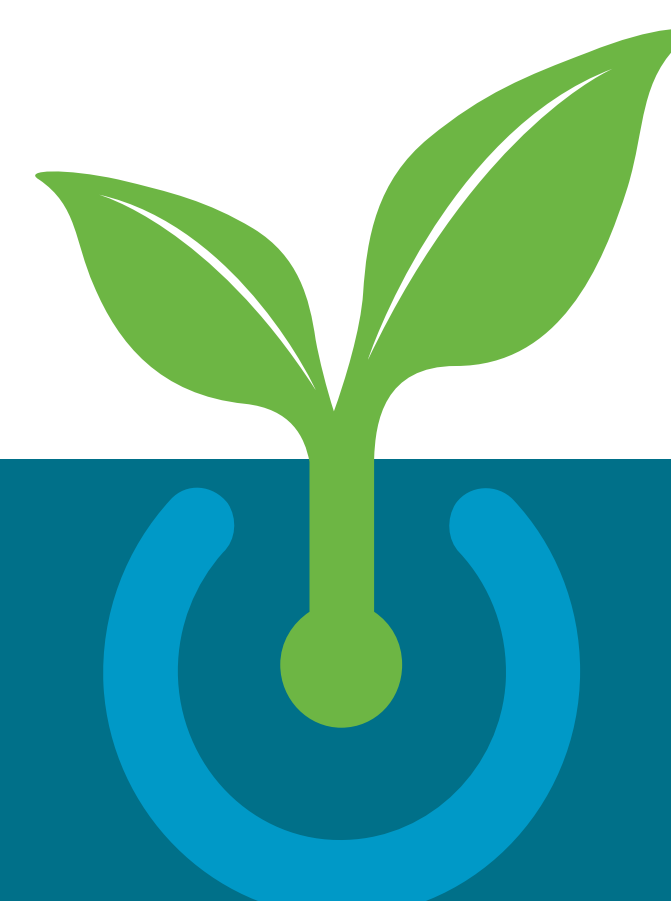
Reduce emissions by 80% below 2007 levels by 2040.

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

