

Taking action on climate change

Emma Langham



Agenda

- Ottawa's changing climate
- Climate Change Master Plan
- Ottawa's greenhouse gas emissions
- Energy Evolution
- How you can take action
- Stay informed

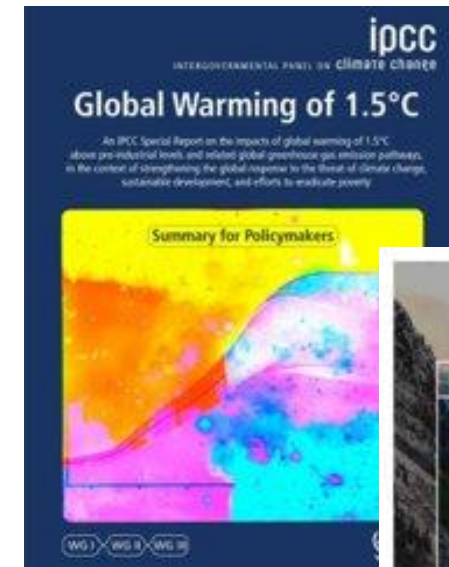


Climate Change Master Plan

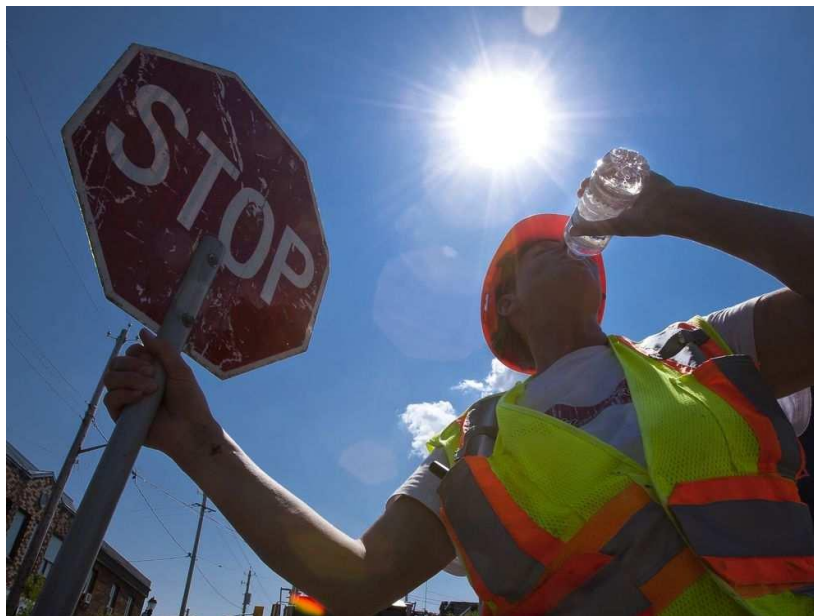


Climate Science

- Climate scientists predict impact will be worse at 2°C than previously projected
- Limiting warming to 1.5°C will avoid much of the risk
- Limiting to 1.5°C is possible with “rapid, far-reaching and unprecedented changes in all aspects of society”
- Canada is warming twice as fast as the rest of the world

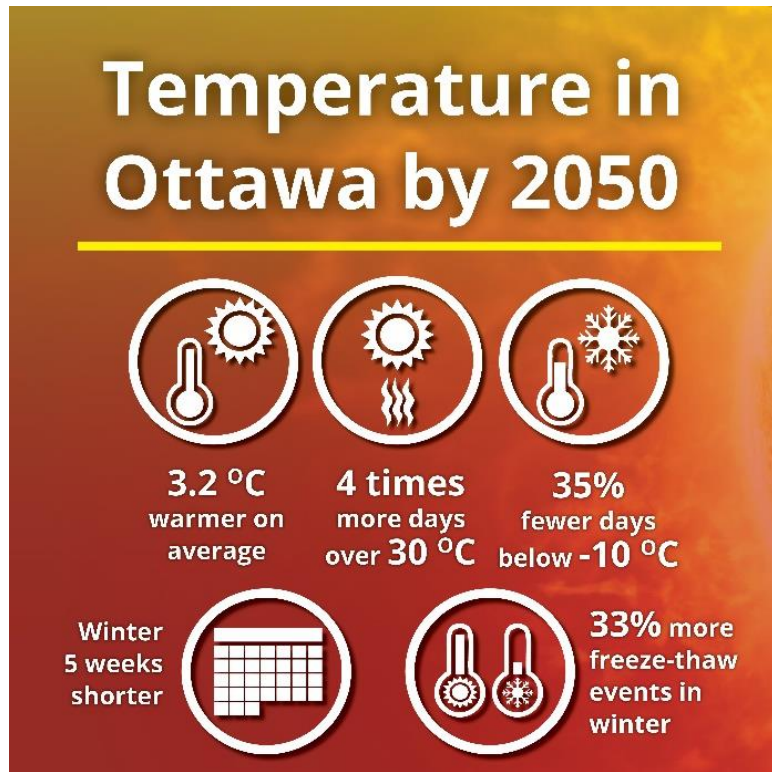


Climate Change in Ottawa



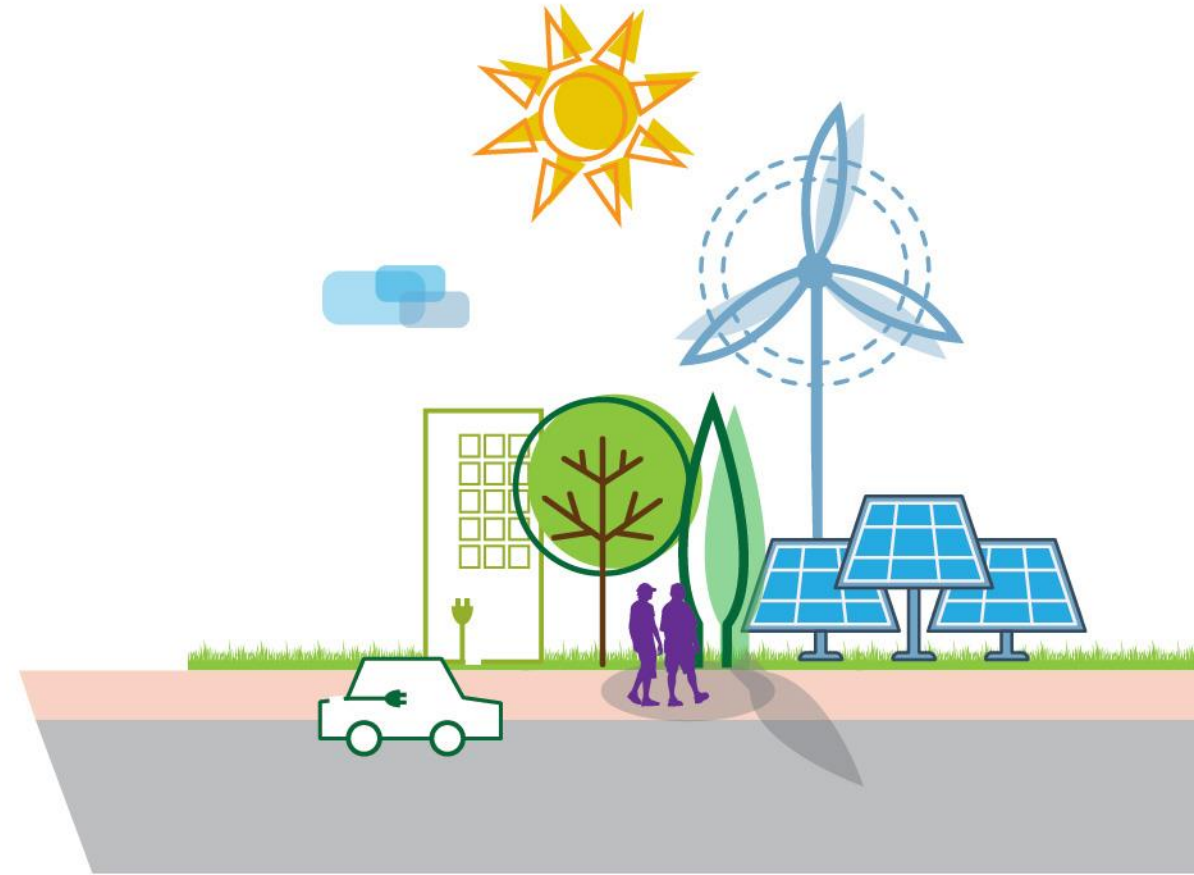
Climate Change Master Plan

Ottawa's future climate

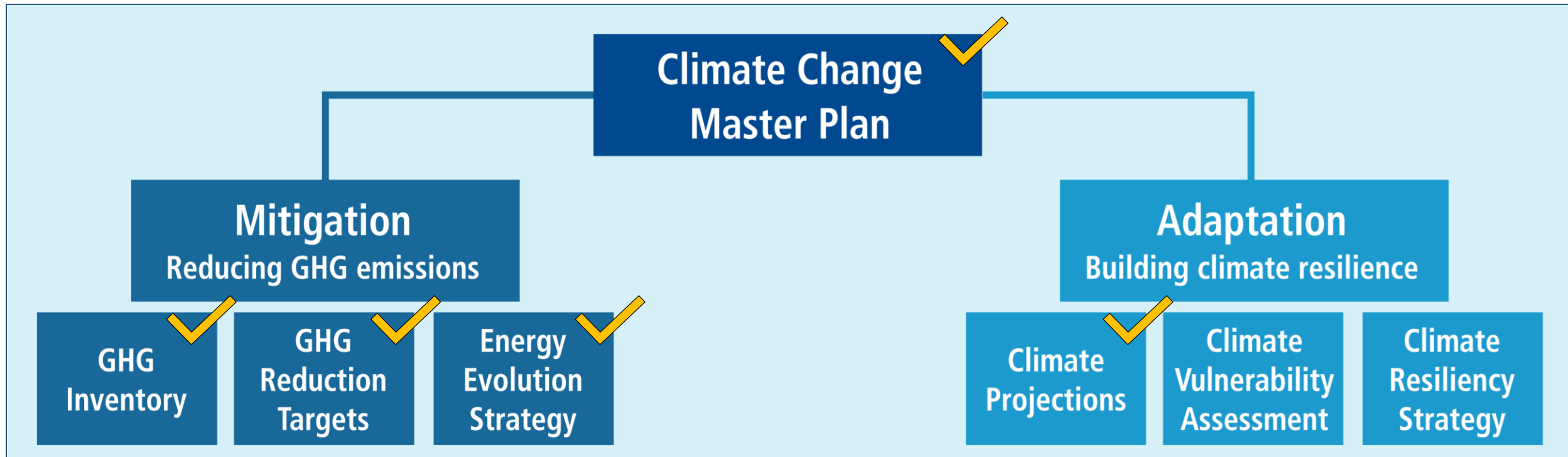


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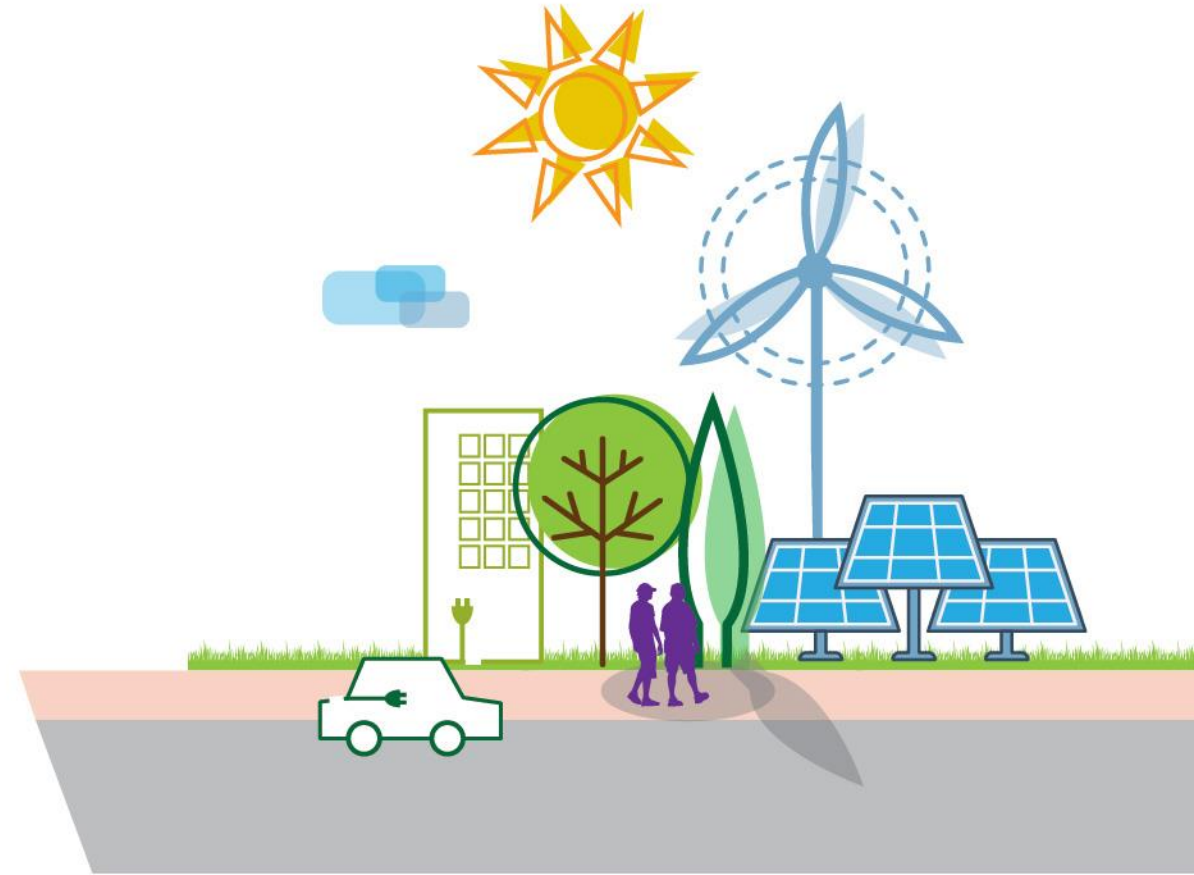
Climate Change Master Plan



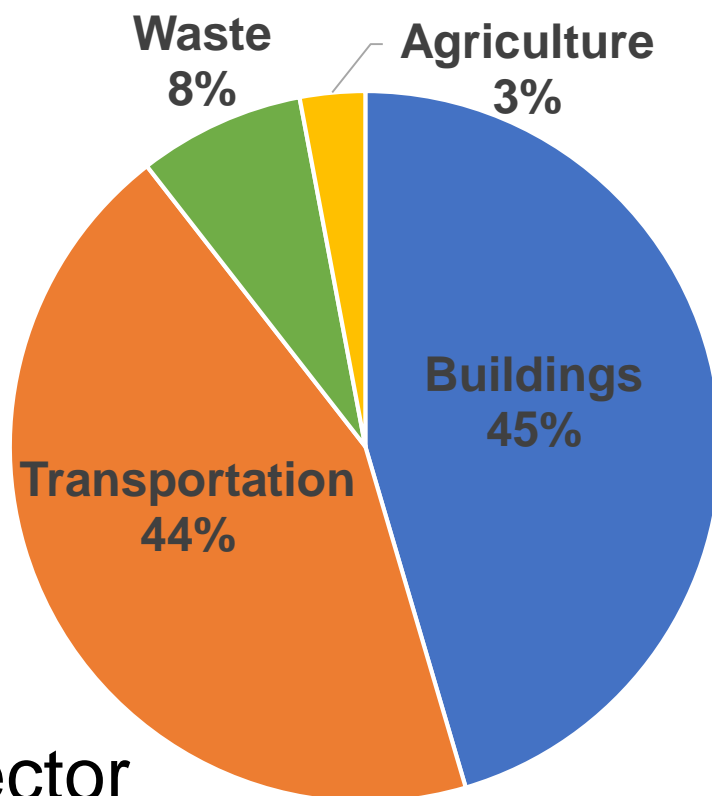
Climate Change Framework



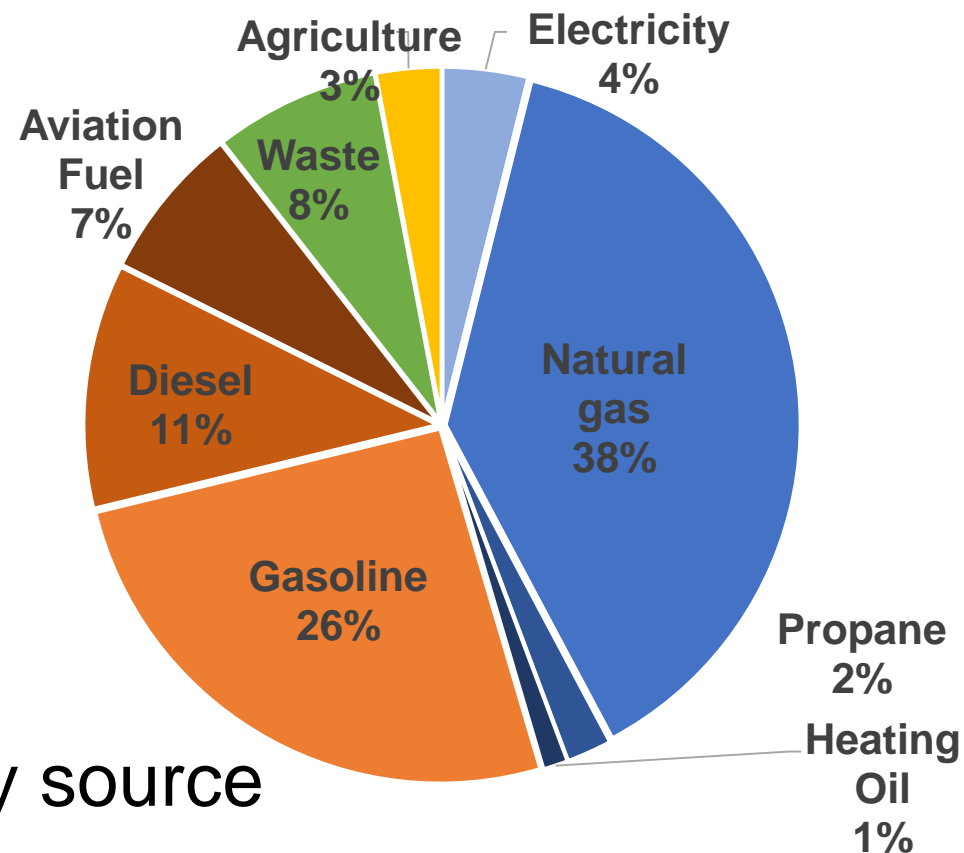
Ottawa's greenhouse gas emissions



Ottawa's greenhouse gas emissions (2019)



By sector



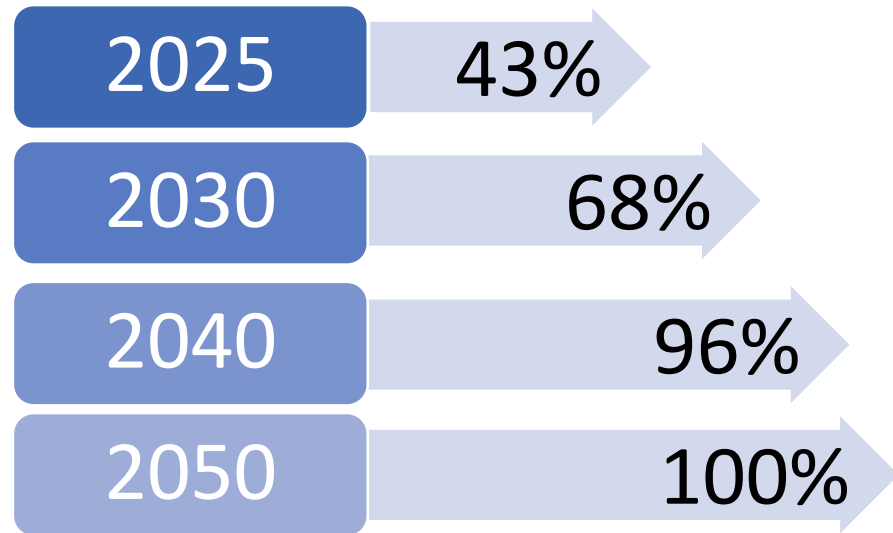
By source



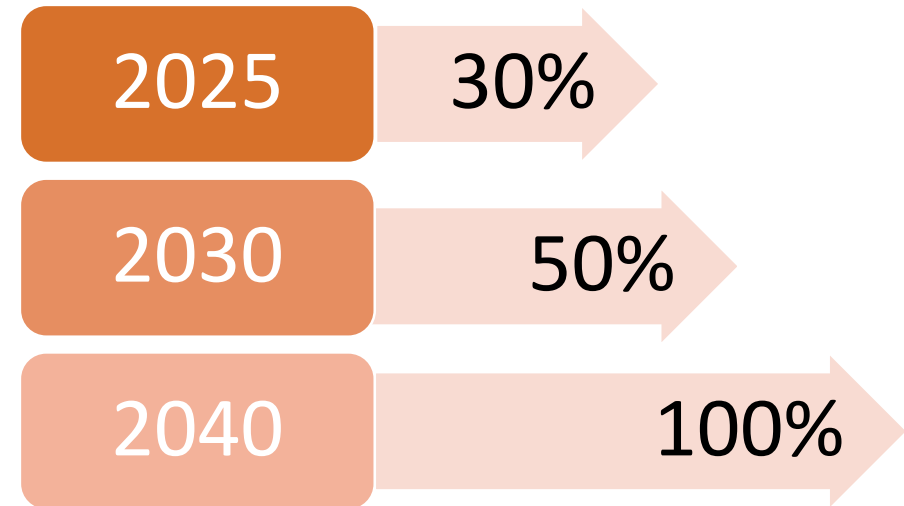
Total emissions: 6,140 kilotonnes of CO₂e

Ottawa's GHG emission reduction targets

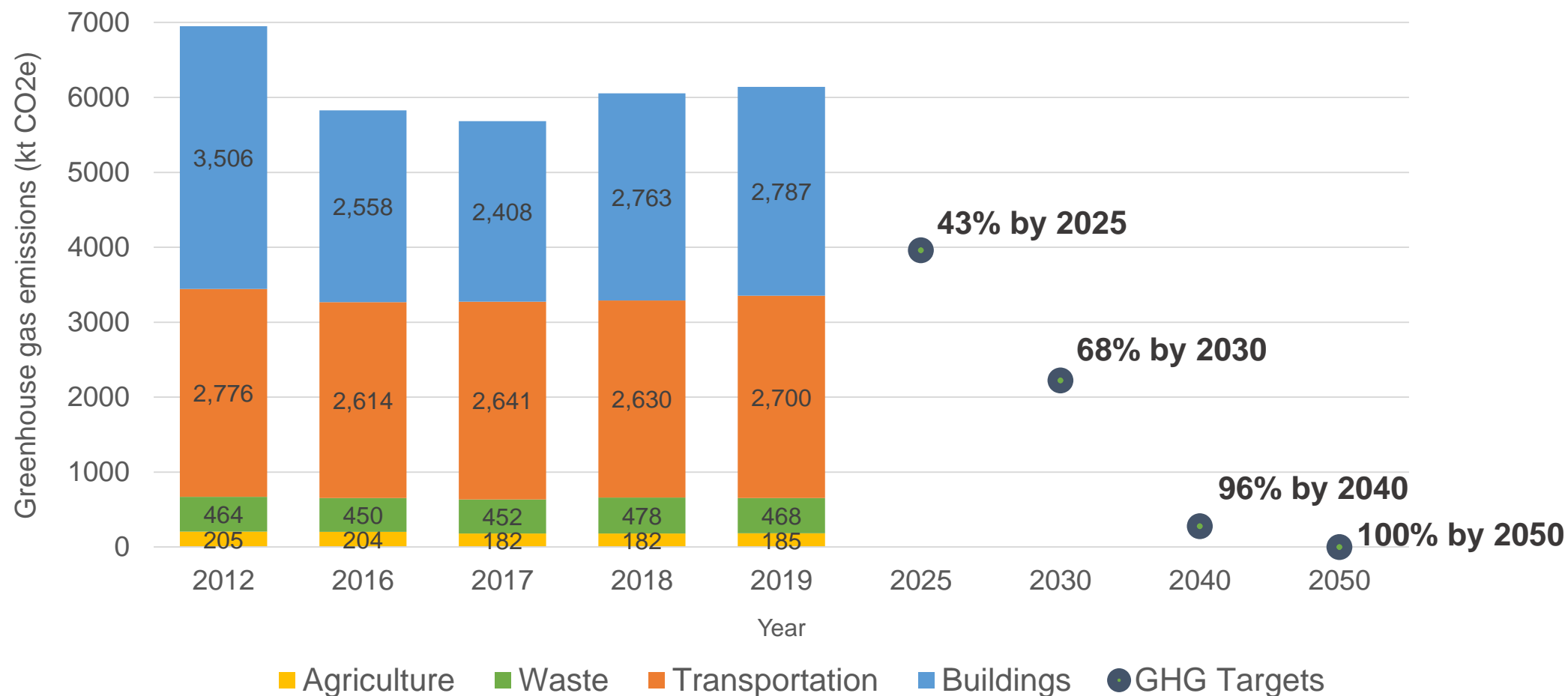
Community 2012 baseline



Corporate 2012 baseline

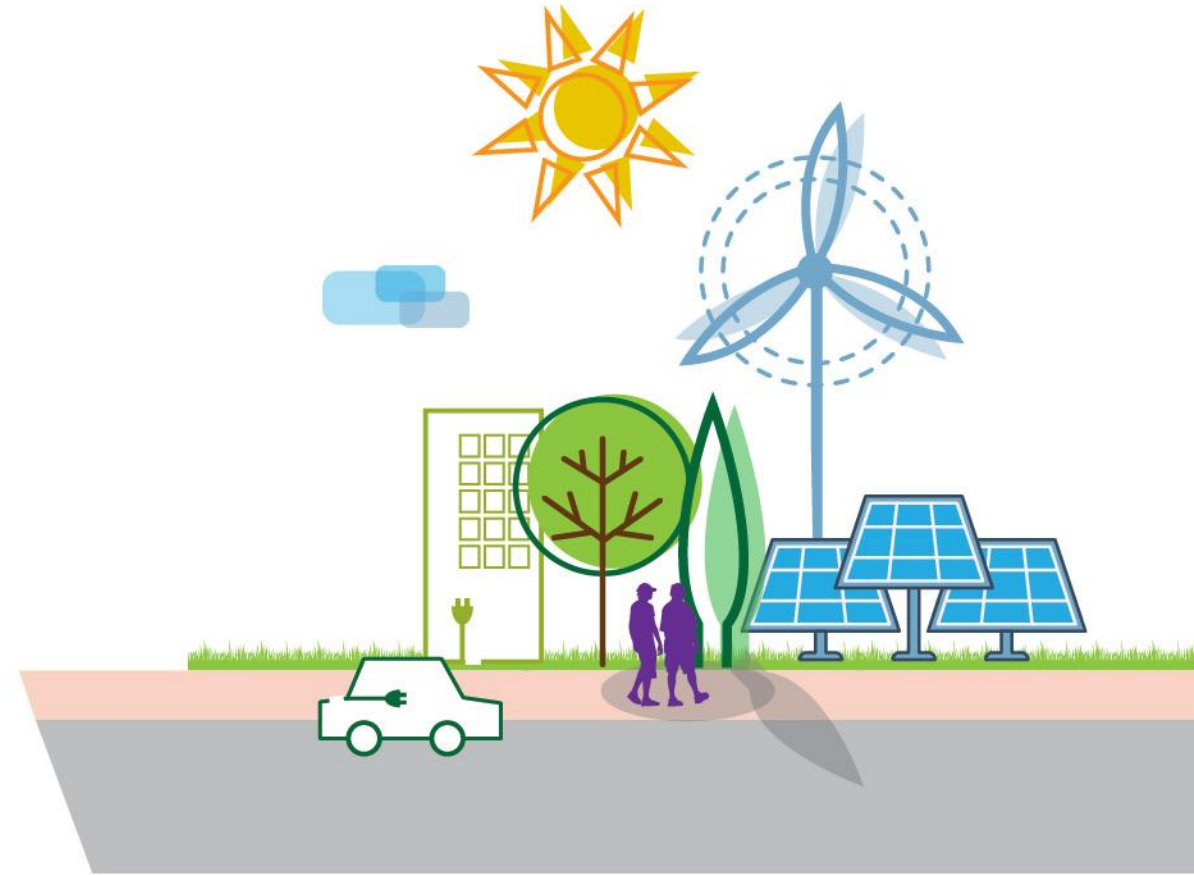


Ottawa's greenhouse gas emissions (2019)



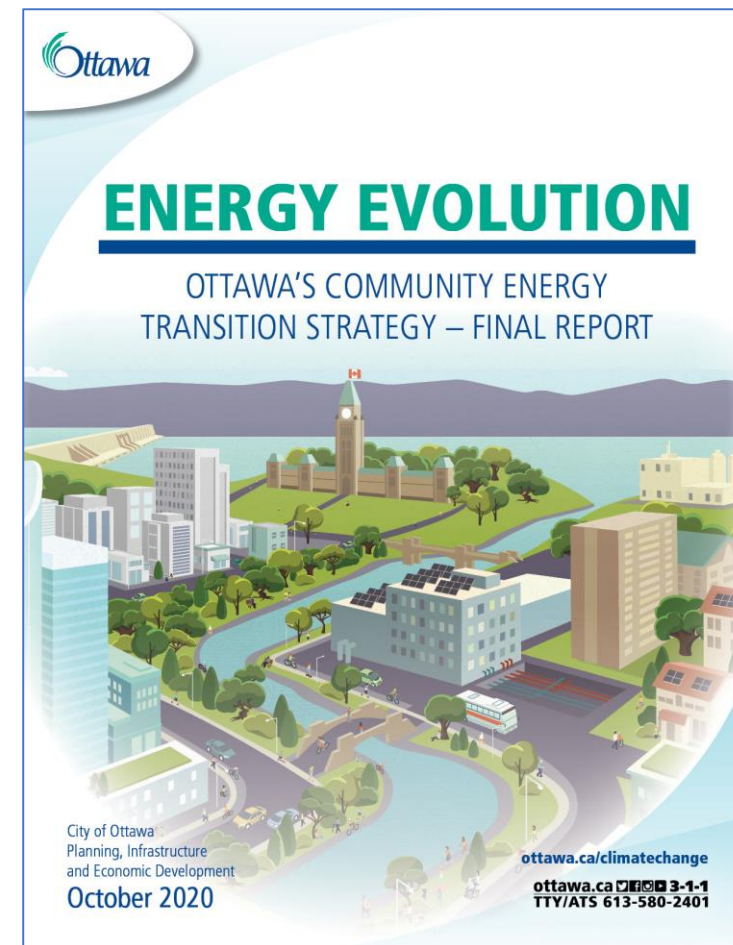
Emissions have decreased by 12% since 2012

What will it take to reach Ottawa's targets?



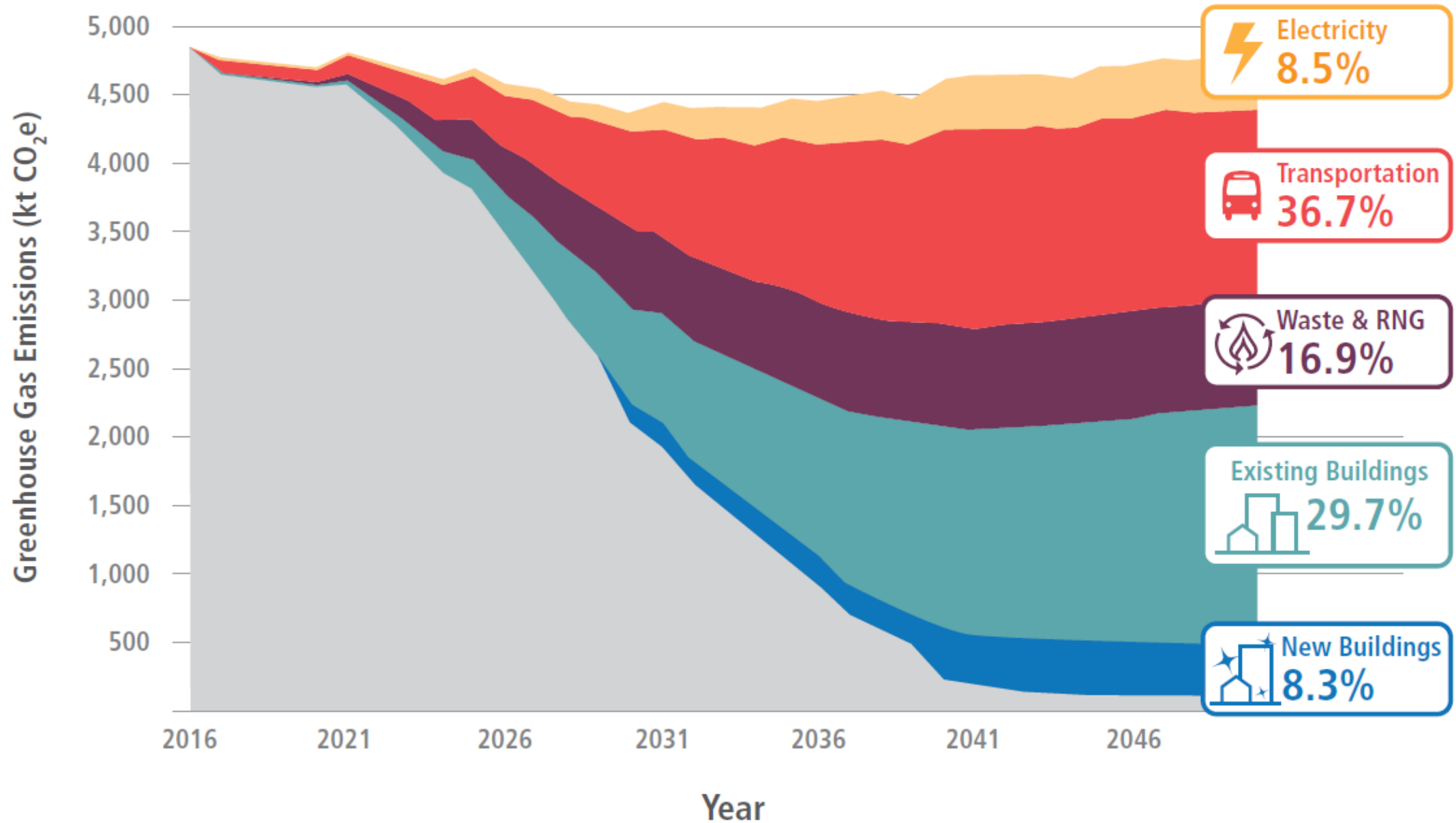
Energy Evolution

- Unanimously received by Council in October 2020
- Sets the framework for how Ottawa can achieve its GHG targets
- 20 projects are to be completed in the short-term (2020-2025) in five areas: Land Use, Buildings, Transportation, Waste and Renewable Natural Gas, and Electricity.



Climate Change Master Plan

What it will take to achieve the targets



Top five actions to reduce GHG emissions



1. Electrify personal vehicles



2. Retrofit existing residential buildings



3. Divert organics and create renewable natural gas



4. Retrofit existing commercial buildings



5. Transition to zero emission commercial fleets

The benefits of reducing GHG emissions



Reduce the impact of climate change



Improved local economy and job creation



Healthier public

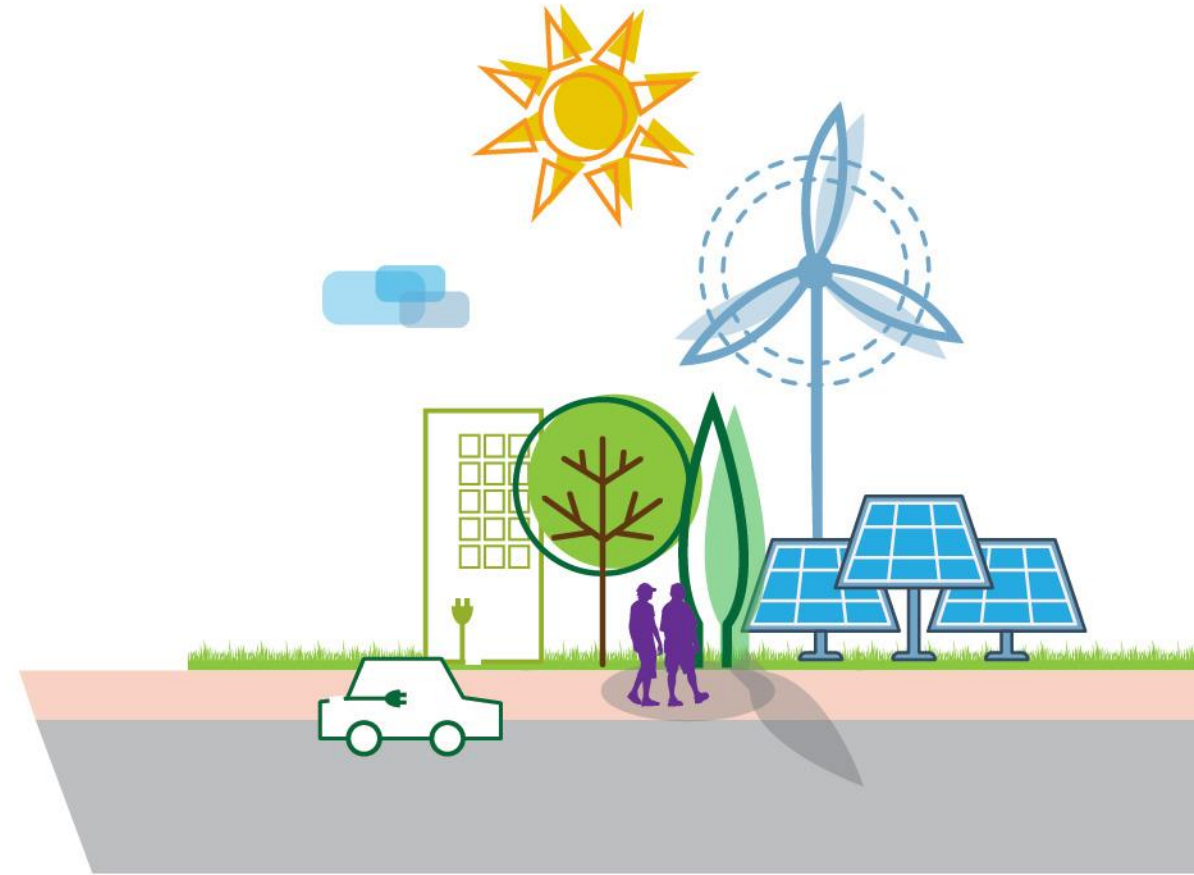


Energy security and resiliency



Equity and inclusion

How you can take action



Switch to an electric vehicle



By 2030, 90% of new vehicles purchased need to be electric



Climate Change Master Plan

Drive less



Walk or cycle short trips



Take transit



**Use carshare instead of
owning a vehicle**



Climate Change Master Plan

Make your home more energy efficient



Programable
thermostat



Attic insulation



Caulking and
weather stripping



Window plastic &
thermal curtains



Insulated
external doors



Low flow toilets,
shower, faucets



Water heater
blanket



Energy Star
appliances




LED lightbulbs



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Make your home more energy efficient – larger projects

- By 2040, 98% of homes need to use 70% less heat and 30% less electricity. That will require:
 - Wall and foundation insulation
 - Air sealing
 - Heat pumps (for heat and AC)
 - Electric hot water heaters
 - Solar rooftops
- 



Climate Change Master Plan



EnerGuide Home Energy Evaluation

- Customized action plan to improve energy efficiency in your home
- Registered energy advisor
- Pre-requisite for many rebate programs

nrcan.gc.ca/myenerguide



Climate Change Master Plan

Rebates and incentives for home energy efficiency



- \$75 towards a smart thermostat
- \$5,000 for energy-efficiency upgrades
- Free improvements for income-qualifying customers

enbridgesmartsavings.com



Home Assistance Program

- Free energy efficiency upgrades from LED light bulbs to insulation. For income-eligible electricity customers.

saveonenergy.ca



Greener Homes Program

- \$5,000 to improve home energy efficiency
- Free EnerGuide efficiency assessments

Full details yet to be announced



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City's Proposed Better Homes Loan Program

- Receive a loan of up to \$75,000 to make your home more energy efficient
- Eligible measures includes:
 - Insultation
 - Air sealing
 - Window and door replacements
 - Air and ground source heat pumps
 - Solar panels
 - Electric vehicle charging stations
- As you accrue savings, you pay off the loan through your property tax bill



Climate Change Master Plan



Use your green bin and reduce your waste



Use your green bin



**Choose less packaging and only
buy what you need**



**Repair, share, borrow and
donate as much as you can**



Climate Change Master Plan

Adapting to the impacts of climate change



**Protect your home from
flooding**



**Be safe during extreme
weather events**



**Be safe in the sun and
outdoors**




Climate Change Master Plan



Get involved



Climate Resiliency Strategy

[Menu](#)  [All Projects](#) [Sign In](#) | [Register](#) [FR](#)


Climate Resiliency Strategy




Sign up to engage

Who's Listening

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Program Planning and Evaluation Officer
Ottawa Public Health
Email climatechange@ottawa.ca



The City is developing a Climate Resiliency Strategy to assess how Ottawa is vulnerable to climate change and identify strategies to mitigate the greatest climate risks.

Climate change will impact us all in our daily lives. Heatwaves will increase heat related illnesses, shifting freeze-thaw cycles will cause more damage to roads and more intense rainfall will increase the risk of flooding. To develop a strategy that meets the needs of everyone in Ottawa we need your input on:

Complete the
survey at

[engage.ottawa.ca/
climate-resiliency](https://engage.ottawa.ca/climate-resiliency)



Climate Change Master Plan

Upcoming events

- May 27 – Home Energy Audits webinar

Register at bit.ly/EnergyAuditOttawa

- June 3 – Accelerating the transition to Electric vehicles

Register at earthday.ca/ecohack-a-city

A promotional banner for a Home Energy Audits Webinar. On the left, a hand holds a yellow thermal imaging device showing a house with a heat map overlay. To the right, three men are shown in individual portrait boxes. Below them, the event details and sponsors are listed.

Home Energy Audits Webinar
Webinaire : Vérifications Énergétiques Résidentielles

Marcus Hinds
EnerScope Energy

Scott Meyer
EnviroCentre

Stephan Magneron
Homesol Building Solutions

Sponsored by / Commandité par la

Ottawa & SMARTNet Alliance.ca
Accelerating Canada's Sustainable Economy

Thursday May 27th
630pm to 830pm
Le Jeudi 27 Mai 2021, de 18h30 à 20h30
RSVP: <http://bit.ly/EnergyAuditOttawa>

Stay informed

Sign up to our newsletter at ottawa.ca/climatechange



Climate Change Master Plan



Thank you

ottawa.ca/climatechange

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