

November 20, 2024

# Inside the Inventory



## Results & Recommendations

TRANSPORTATION

BUILDINGS

INDUSTRY

WASTE

AGRICULTURE





The Atmospheric Fund is a regional climate agency investing in low-carbon solutions for the Greater Toronto and Hamilton Area + illuminating paths to scale implementation.



# Meet the team



**Maryam Shekarzifard**  
Manager, Research and  
Innovation



**Ekaterina Tzekova**  
Director, Research &  
Innovation



**Patrick Ronan**  
Analyst, Research and  
Innovation



**Aakash Harpalani**  
Director, Clean Energy



**Bryan Purcell**  
VP, Policy & Programs



# Context

## Decision making

Understand where emissions come from to inform decision making

## Knowledge sharing

Share findings with broad group of stakeholders

## Policy making

Support the development of our policy recommendations





# Results

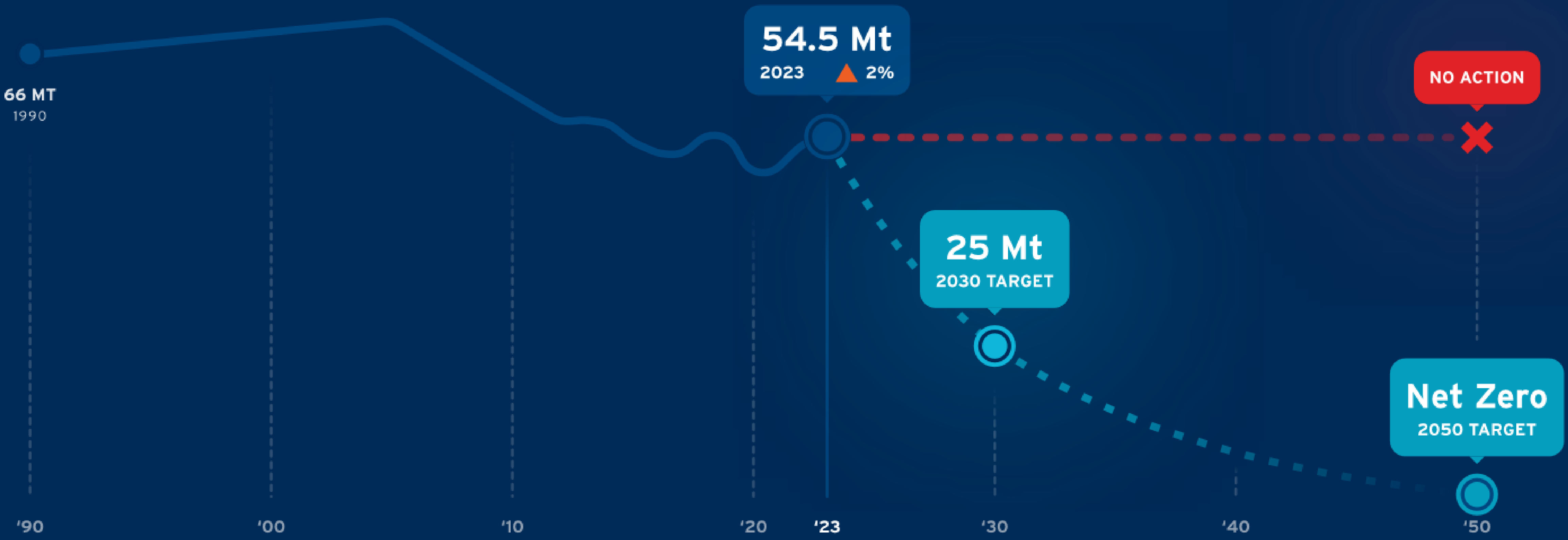
**54.5 million tonnes**

▲ 2% increase in 2023

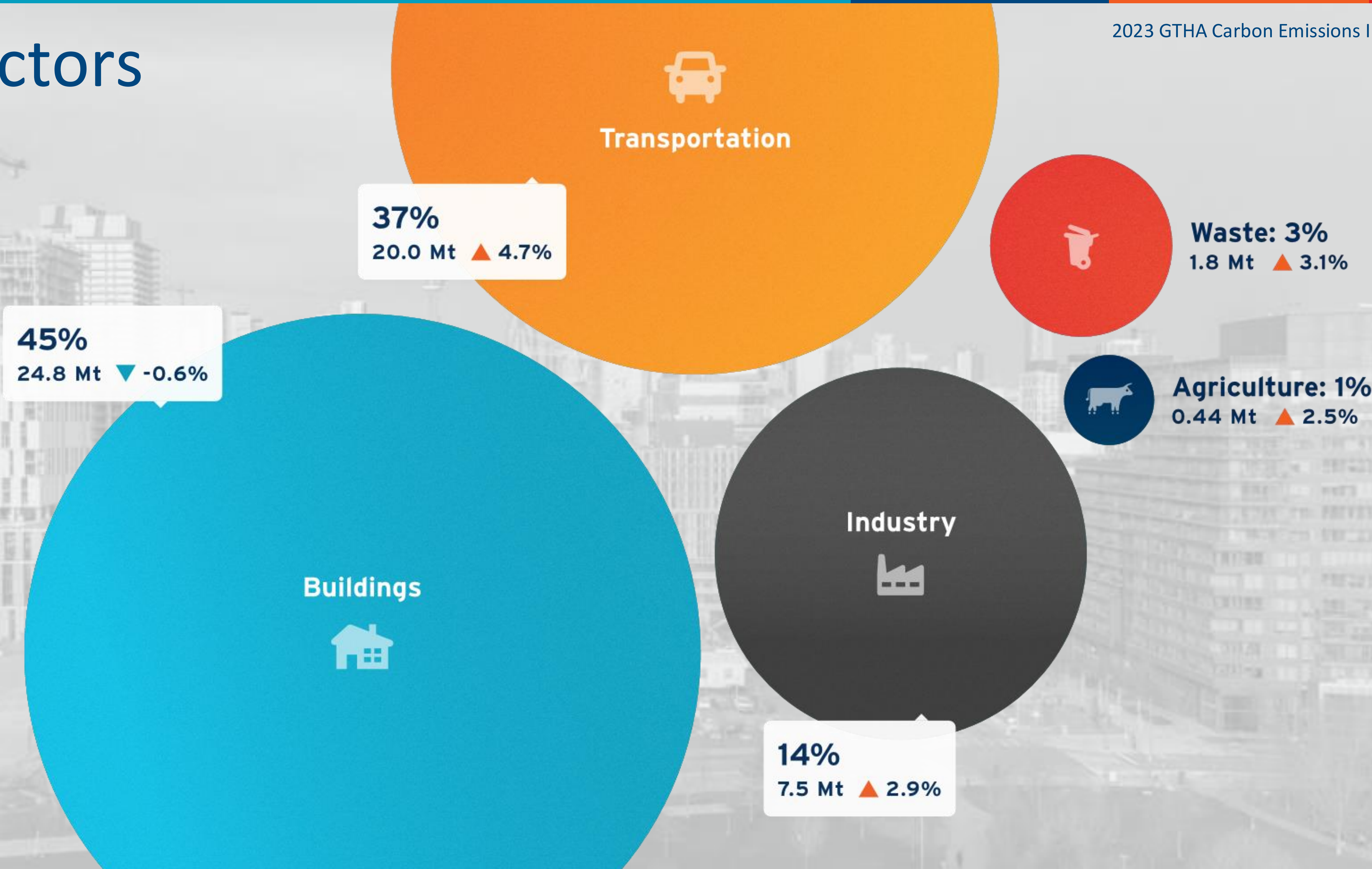
▼ 11% decrease needed



# Pathway to Net Zero

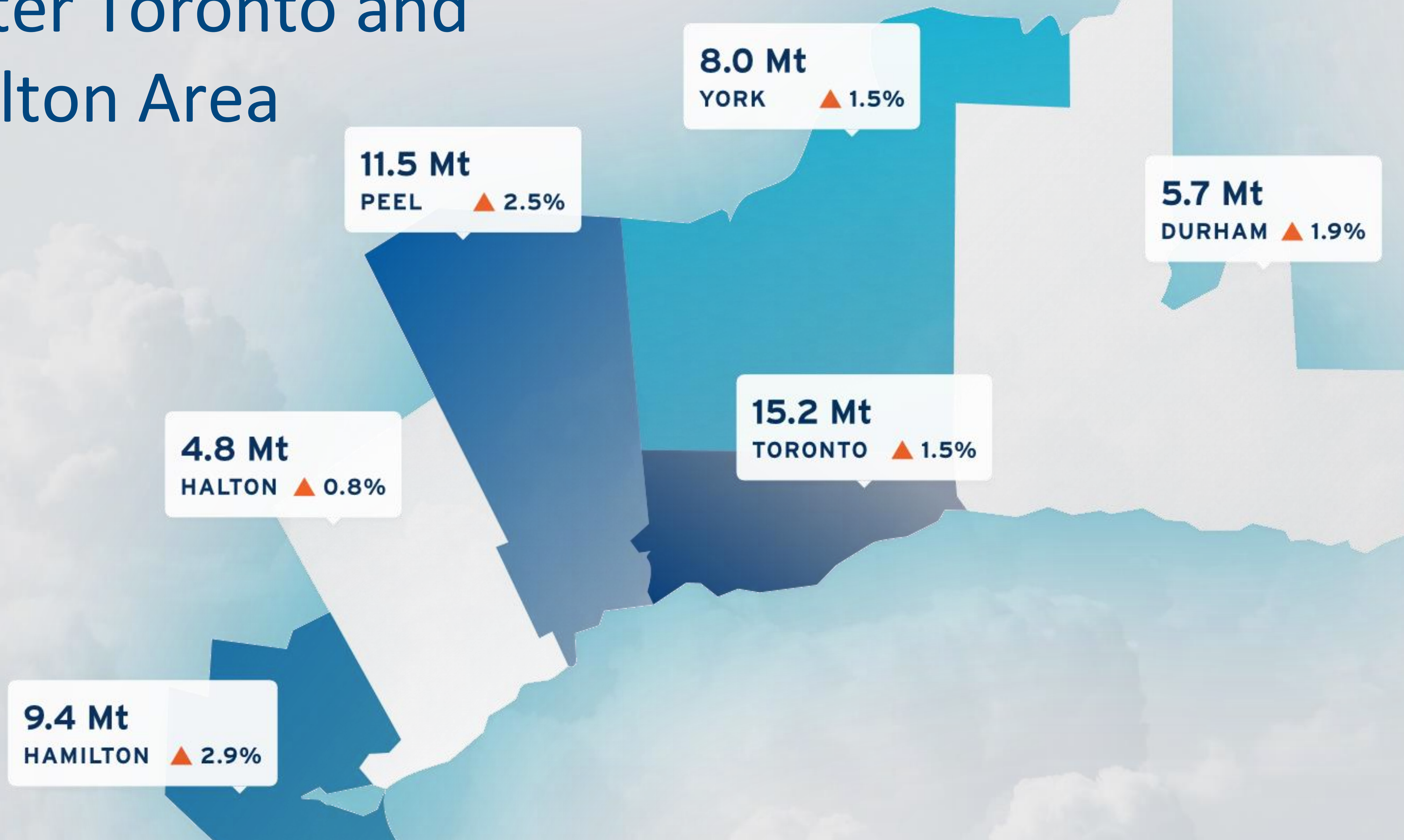


# Sectors





# Greater Toronto and Hamilton Area

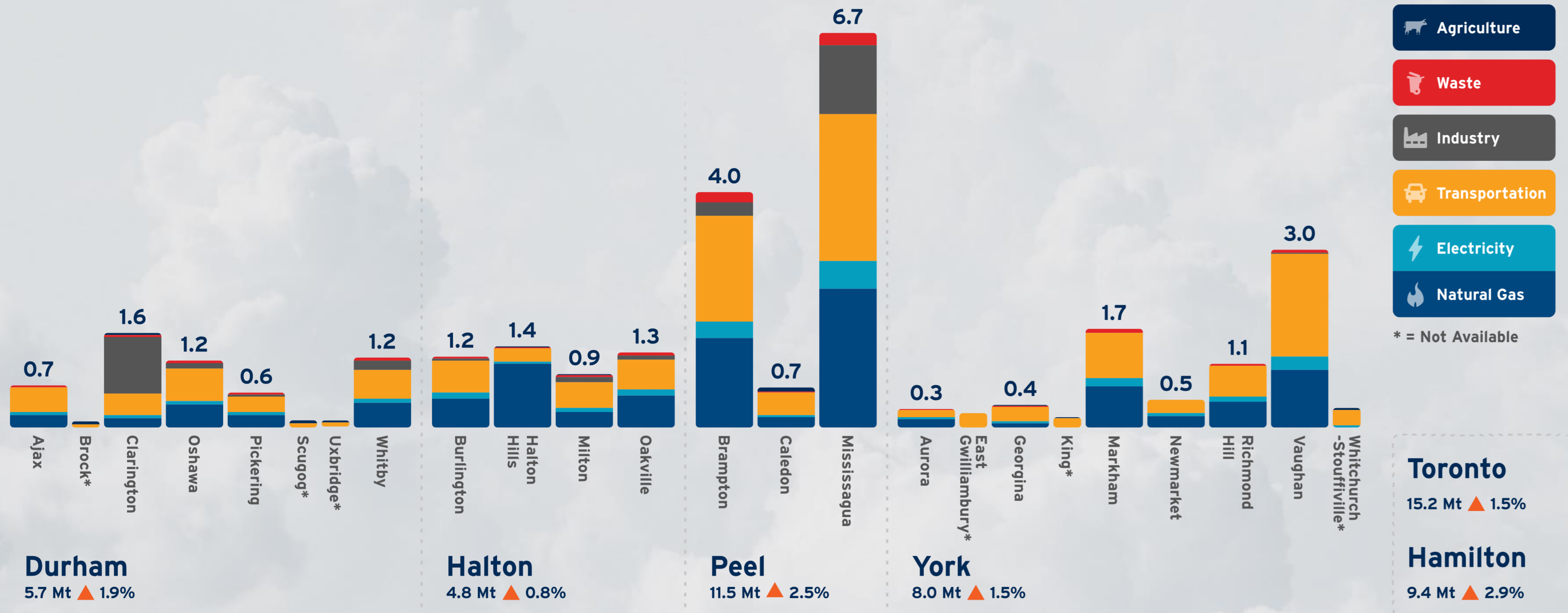




2023 GTHA Carbon Emissions Inventory

GTHA Municipalities

## 2023 GTHA Carbon Emissions Inventory







# Buildings

**24.8 million tonnes**

▼ 0.6% decrease in 2023

▼ 3.6% decrease in per capita emissions

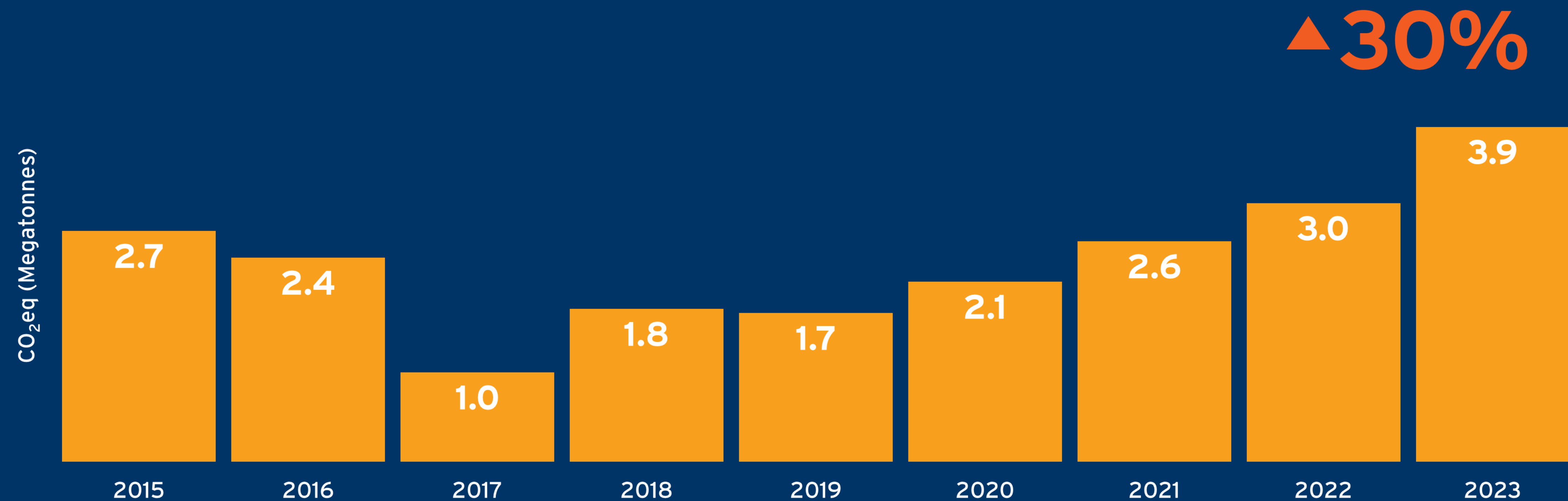




# Electricity



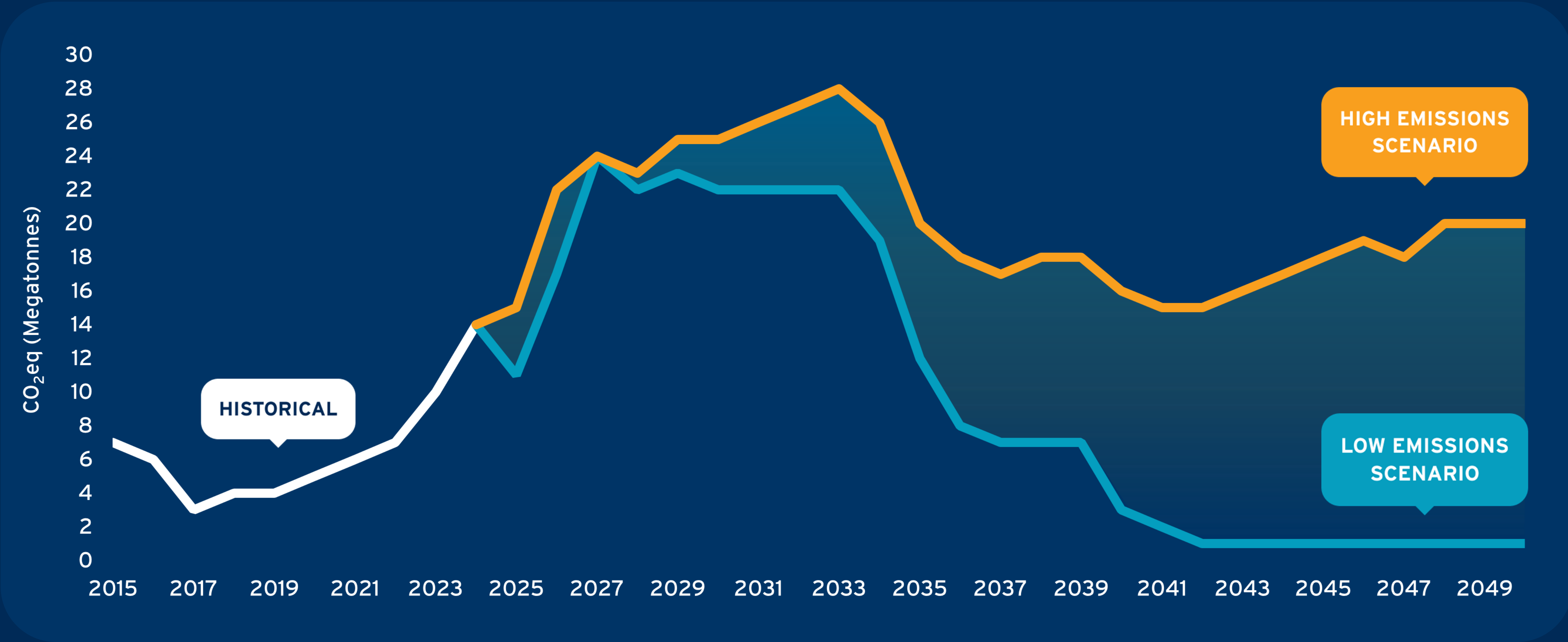
# Electricity Emissions 2015-2023





# Ontario Electricity Forecast

2023 GTHA Carbon Emissions Inventory







# Transportation

**20 million tonnes**

▲ 4.7% increase in 2023

▲ 1.5% increase in per capita emissions



# Positive Trends

## Electric Vehicle Uptake

▲ **50%** increase in EVs

▲ **29%** increase in PHEVs

## Cycling

▲ **4%** Trips | ▼ **2%** Distance

## Walking

▲ **7%** Trips | ▲ **1%** Distance

## Transit Ridership

▲ **28%** increase in ridership

Ridership has nearly doubled from 2021

Still below 2019 pre-pandemic levels





# Climate Action Priorities



# Municipal Priorities

## Buildings

Implement and manage compliance of green development standards

Implement emissions performance standards for existing buildings



## Transportation

Support EV charging and prioritize active transportation and transit



## Planning

Remove barriers to climate action from zoning bylaws and permitting processes





# Provincial Priorities

## Electricity

Prioritize development of clean utility-scale and local electricity supply and pursue all cost-effective demand-side measures



## Buildings

Modernize the Ontario Building Code (OBC)



## Transportation

Accelerate electric vehicle adoption with strategic funding





# Federal Priorities

## Electricity

Enact the Clean Electricity Regulations to ensure a net-zero grid



## Buildings

Restrict the use of gas-fired heating equipment



## Transportation

Invest in electric vehicle adoption and infrastructure





# Q+A



**Aakash Harpalani**  
Moderator



**Maryam Shekarrizfard**  
Report Author



# Thank you!

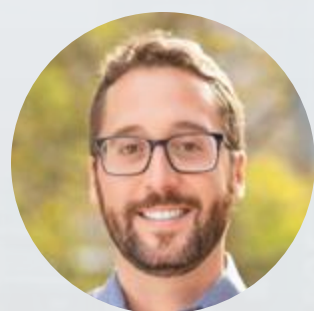
Get the report: [carbon.taf.ca](https://carbon.taf.ca)



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