

HALIFAX

Halifax's Community Energy & Climate Action Plan

Environment & Sustainability Standing Committee
November 21, 2018

International Climate Action

- PARIS AGREEMENT reached at COP21 in 2015
 - Aims to keep a global temperature rise this century below 2°C above pre-industrial levels
 - Encouraged to limit even further to less than 1.5°C
 - Recent IPCC special report highlights risks of 2 vs 1.5°C
- UN SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION 2015-2030
 - Focus on reducing loss of life, damage to infrastructure and the environment
 - Encouraged to ‘build back better’
- Emergency Management and Climate Science communities have come together to address climate change

Climate Risks in HRM

- Sea level rise
- Flooding (coastal, overland)
- Extreme weather events & impacts (e.g., storm surge)
- Wildfire
- Disease & invasive species
- Impacts on ecosystem services

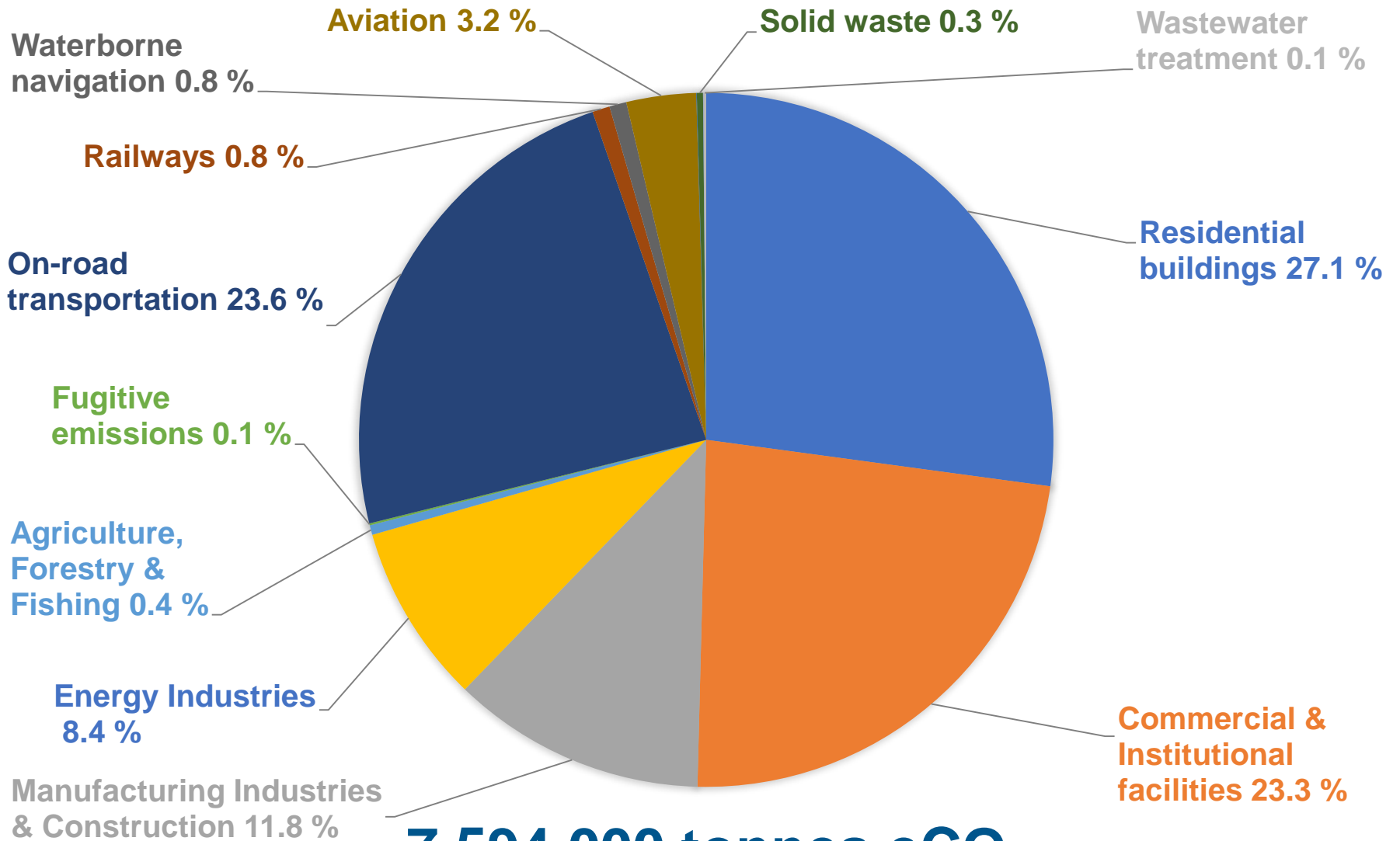


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Updating our Climate Strategy

- Growing metropolis, nearing half million people
 - Climate impacts an increasing concern
- Corporate emissions: 80,000 tonnes eCO₂
- Community emissions: 7.6 million tonnes eCO₂
 - HRM contributes 1% of total community GHGs
 - 80% by 2050? Net zero by 2040?
 - Requires TRANSFORMATIONAL CHANGE
- Canadian cities have a role in Canada's Nationally Determined Contributions under the Paris Agreement

HALIFAX'S COMMUNITY-WIDE GREENHOUSE GAS EMISSIONS % BY SECTOR* 2014



7,594,000 tonnes eCO₂

*Totals and percentages are preliminary

CECAP Objectives

- Transition Halifax to a low-carbon economy
 - Improve energy conservation
 - Reduce GHG emissions with sector-specific strategies
 - Consider influence and impact
 - Increase availability of renewable energy
- Prepare for the impacts of climate change and increase resilience of our communities, infrastructure and environment.
- Help communities sustainably and equitably adapt
 - Inclusive solutions to mitigation and adaptation

Based on best available science and data

- Modelling climate scenarios and mitigation pathways out to 2050
 - BAU, low, medium & high emissions reduction scenarios
 - Incremental targets
 - 5-year stocktakes
- Modelling adaptation pathways and their interaction with mitigation steps and climate scenarios
 - Impacts on vulnerabilities and exposures to climate hazards
 - Socioeconomic considerations
 - “No one left behind”

Collaborative process

- External stakeholders
 - 100+ representatives invited, all sectors
 - “Pre-consultation”
 - 5 levels of participation
 - Kick off meeting next week
- Internal stakeholders
 - Representatives from all business units invited
 - Focus on corporate targets and initiatives
- Broad public engagement to follow

Project Team

- **Alex MacDonald**, Climate Change Specialist – Energy & Environment (Project Manager)
- **Anne Totten**, Senior Policy Advisor – Government Relations & External Affairs
- **Cheryl Copage-Gehue**, Advisor, Indigenous Community Engagement – Diversity & Inclusion
- **Cody Walter**, Dalhousie Student Research Intern – Energy & Environment
- **Erica Fleck**, Division Chief of Emergency Management – HRFE
- **Kevin Boutilier**, Solar City Program Officer – Energy & Environment
- **Marcus Garnet**, Senior Planner – Regional Planning Policy
- **Shilo Gempton**, Environmental Planner – Energy & Environment
- **Shannon Miedema**, Program Manager, Energy & Environment

Key milestones & dates

Milestone	Timeline
Project development	Spring / Summer 2018
Stakeholder recruitment	
Issue RFP – scenario modelling	Fall 2018
Internal & external stakeholder meetings	
Develop models; stakeholder meetings	Winter 2019
Vet model results with stakeholders, draft Plan	Spring 2019
Public consultation, update models, What We Heard report	Summer to Fall 2019
Draft implementation plan	
Finalize 2050 target & Plan	Winter 2020
Present target & plan to Regional Council	Spring 2020
CECAP Implementation	Spring 2020 ... to 2050

Thank You

Shannon Miedema
Manager
Energy & Environment
Planning & Development

miedems@halifax.ca
902.490.3665

Alex MacDonald
Climate Change Specialist
Energy & Environment
Planning & Development

macdonale@halifax.ca
902.490.7160

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Emissions Comparisons

