



Peel2041+

Climate Change Policy Review

Planning and Growth Management Committee, March 18, 2021

Derek Lau

Regional Planning & Growth Management

Region of Peel



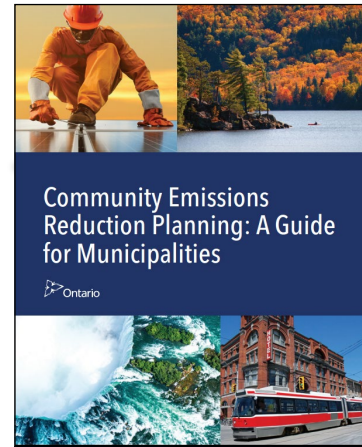
Policy Context

Provincial land use planning actions and policies



Planning Act, 1990 (amended)

- Incorporation of climate change policies in official plans through Bill's 68 and 139



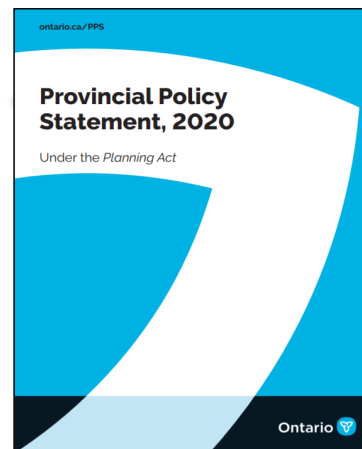
Community Emissions Reduction Planning Guidance, 2018

- Support land-use planning direction related to the completion of energy and GHG emissions plans



A Place to Grow, 2019

- Section 4.2.9 and section 4.2.10 regarding climate change



Provincial Policy Statement, 2020

- Updated climate change language (originally from PPS, 2014) in specific theme areas



Policy Context

Climate Change in the Region of Peel

Peel Climate Change Strategy
2006 Community Greenhouse Gas and Criteria Air Containment Inventory For The Geographic Region Of Peel
February 2014
Prepared by: SE 121 Grant Richmond

Climate Trends and Future Projections in the Region of Peel
Technical Report
February, 2016
Prepared for:
Prepared By: RSI

CLIMATE CHANGE MASTER PLAN
LEAD INFLUENCE TRANSFORM
2020-2030
Region of Peel working with you

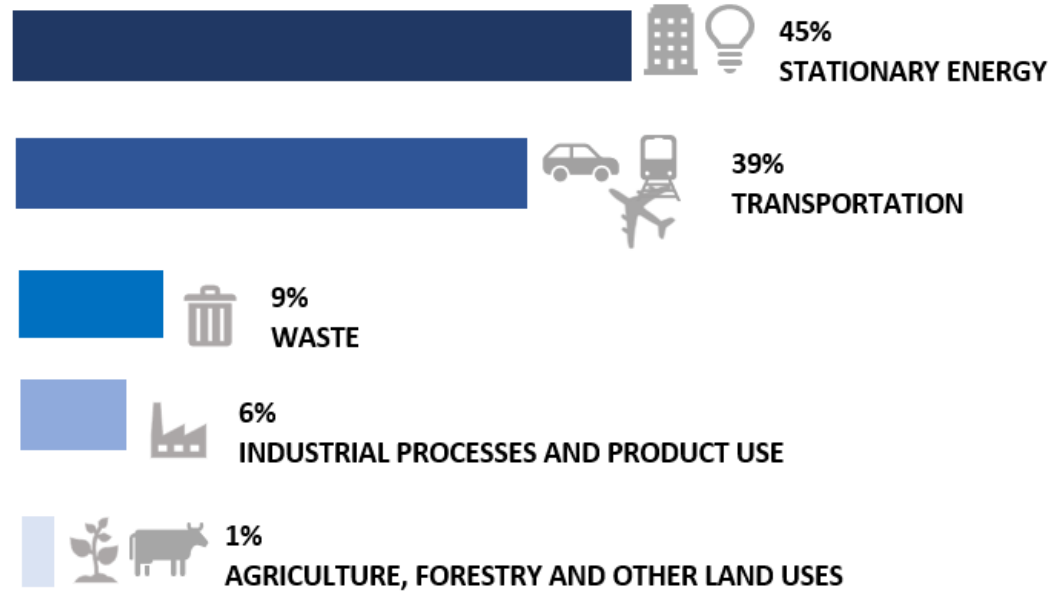




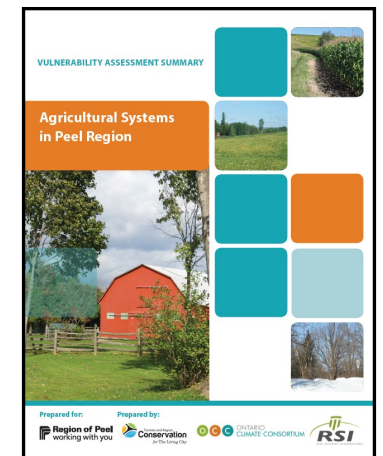
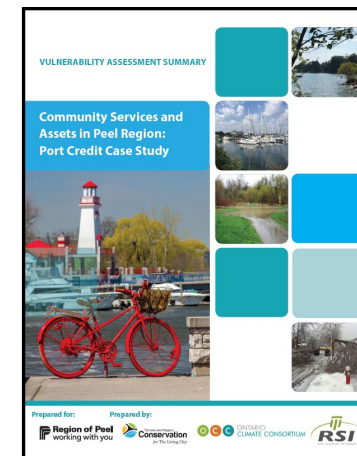
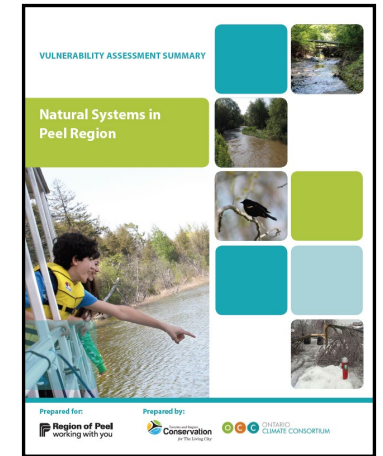
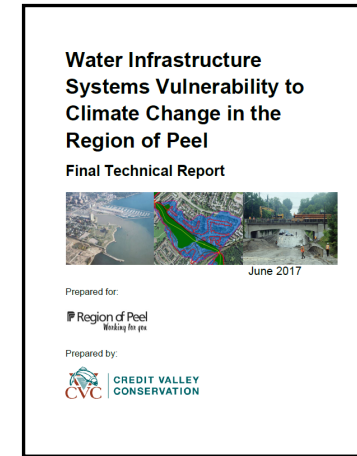
Policy Context

Climate Change in the Region of Peel

2016 Peel GHG Emissions by Sector



TOTAL GREENHOUSE GAS EMISSIONS: 10.1 MILLION TONNES CO₂ EQUIVALENT





Climate Change

Regional Official Plan Framework

Climate Change policies are being integrated throughout the Regional Official Plan in key theme areas:



Climate Change



Growth Management



Transportation



Housing



**Settlement Area
Boundary Expansion**



Greenlands System



Water Resources



**Agriculture &
Rural Systems**



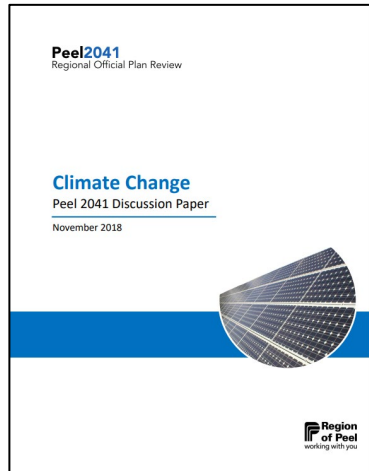
**Provincial
Greenbelt Plans**



Climate Change

Regional Official Plan Framework

New section added to Natural Environment Section to implement climate change planning



2.2.3 Climate System

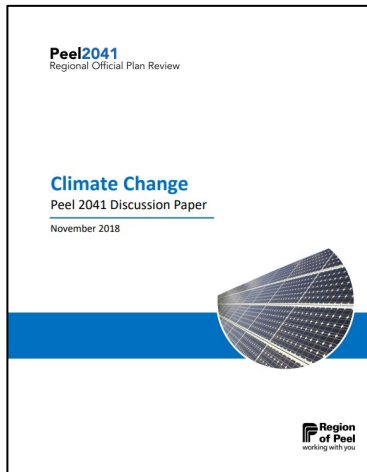
- Preamble introduction to climate change and how Regional and local land use planning can help address impacts
- Broad goals and objectives for climate change reflecting provincial policies
- Policy direction for GHG emissions reduction and adaptation planning, including direction requiring updated GHG inventories
- Policy direction to undertake infrastructure risk and vulnerability assessments
- Policy direction to support climate change planning through collaborative partnerships



Climate Change

Regional Official Plan Framework

Updated policy direction for energy, including alternative and renewable energy systems



3.6 Energy Resources

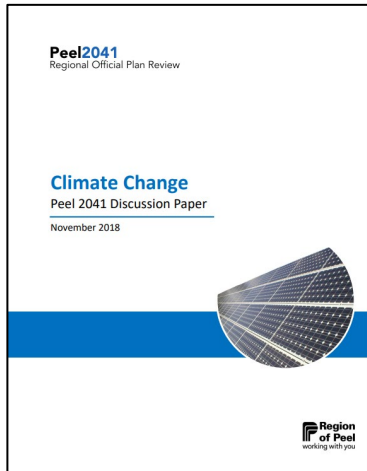
- Support community and regional energy planning
- Promote energy efficiency and conservation in communities
- Explore feasibility and implementation of district energy systems
- Support opportunities for renewable or alternative energy systems
- Promote hybrid and/or electrical vehicles and infrastructure



Climate Change

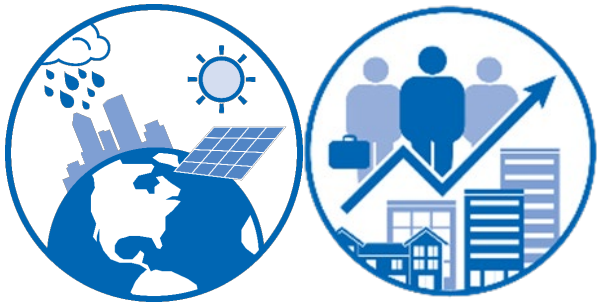
Regional Official Plan Framework

Updated policy direction for green development standards



7.5 Sustainability

- Work collaboratively with local municipalities and stakeholders to develop and support the implementation of sustainable community design and building practices
- Work collaboratively with local municipalities to include policies in local official plans and to implement sustainable development requirement through the local land use planning process
- Encourage the local municipalities to include policies in their official plans that reduce the urban heat island effect, consider innovative practices and tools to mitigate greenhouse gas emissions and reduce vulnerability



Climate Change + Growth Management

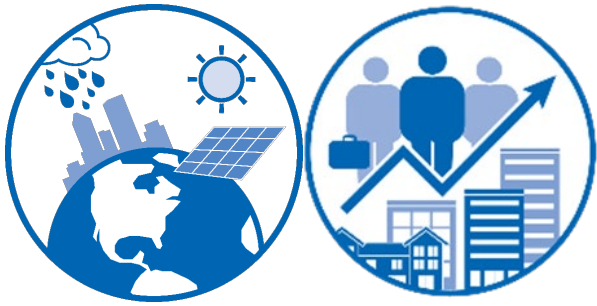
Climate change criteria to evaluate Regional growth allocation, intensification and greenfield density targets in Peel

Climate Change Mitigation: Reduce Greenhouse Gas Emissions

- Compact Built Form
- Sustainable Transportation System
- Renewable and Alternative Energy Systems
- Protection of Agricultural Land / Soils

Climate Change Adaptation: Build Resilient Communities

- Compact Built Form / Protection of Natural Environment / Watershed Health
- Human Health and the Built Environment



Climate Change + Growth Management

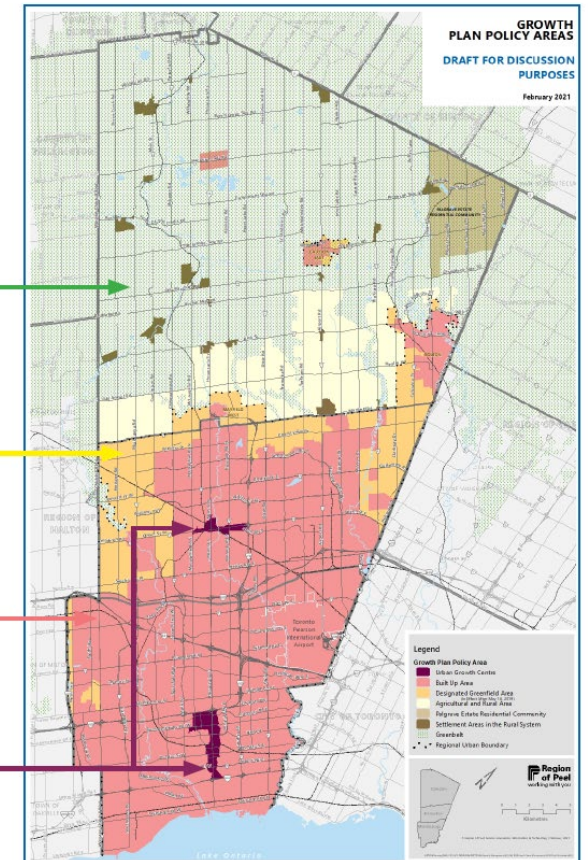
Shift in densities, intensification, and unit mix supports climate change framework

- Identifying minimum intensification and density targets through detailed forecast work:
 - Built-up Area: **55% of growth**
 - Greenfield Area: **65 people and jobs/ha**
- Housing mix shift to more apartment units required (50% of future units)
- Directing growth to Strategic Growth Areas supports compact form, mixed uses, the provision of transit, cycling and walking which reduces GHG emissions

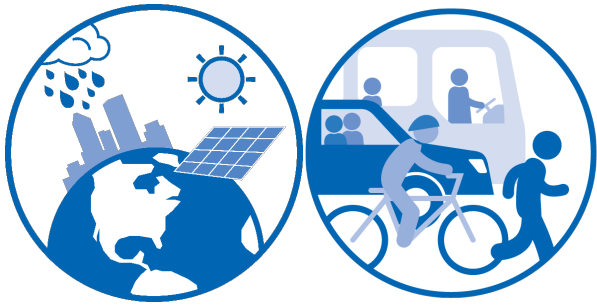
Note: The following is generalized mapping for discussion purposes. Specific policies and designations may be draft or under review/appeal. For all approved and in effect mapping, see the Regional Official Plan.

Sources: Growth Plan, 2019

- Greenbelt**
Protected from major development
- Designated Greenfield Area**
Lands to accommodate current and future growth at 65 ppj/ha*
- Built-up Area**
A minimum of 55% of Peel's growth is planned through intensification in the built-up area
- Urban Growth Centres**
Planned to grow and achieve a density of 200 ppj/ha through high-density mixed-use development



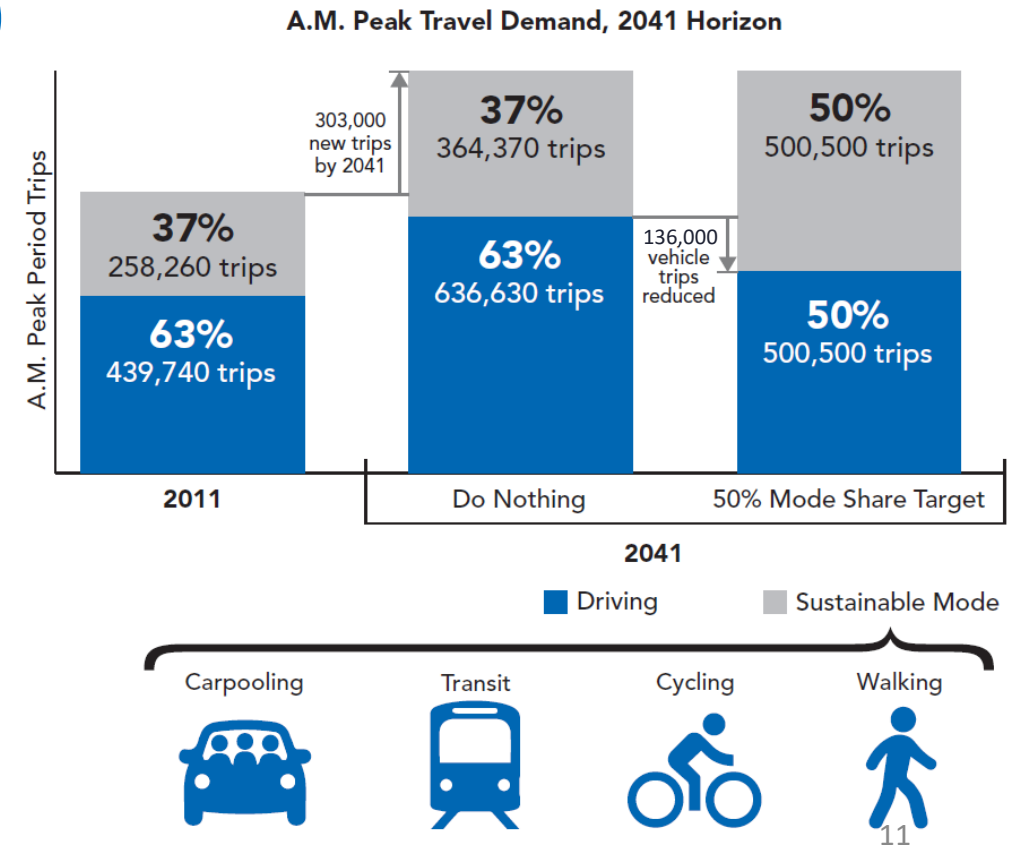
*Minimums being used in the Region's technical planning analysis and background work

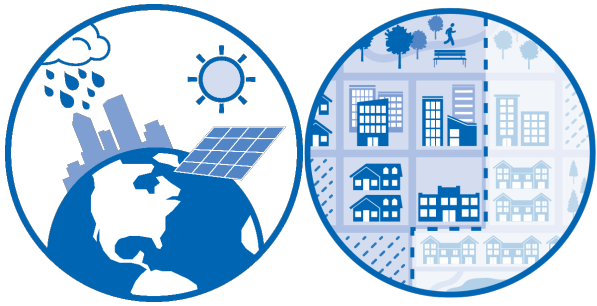


Climate Change + Transportation

Updated policy direction supports the 50% sustainable mode share target in the Region's Long Range Transportation Plan (2019)

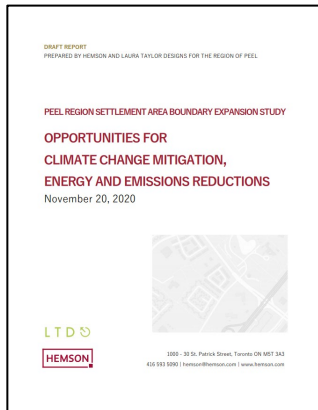
- Growth forecasts anticipate 45% increase in vehicle trips across Peel (303,000 new trips)
- Policies support an increase use of carpooling, transit, cycling and walking, with connections to designated nodes such as Major Transit Station Areas (MTSA)
- Single vehicle occupant trips are reduced by approximately 136,000 trips, helping reduce transportation-related GHG emissions





Climate Change + Settlement Area Boundary Expansion (SABE)

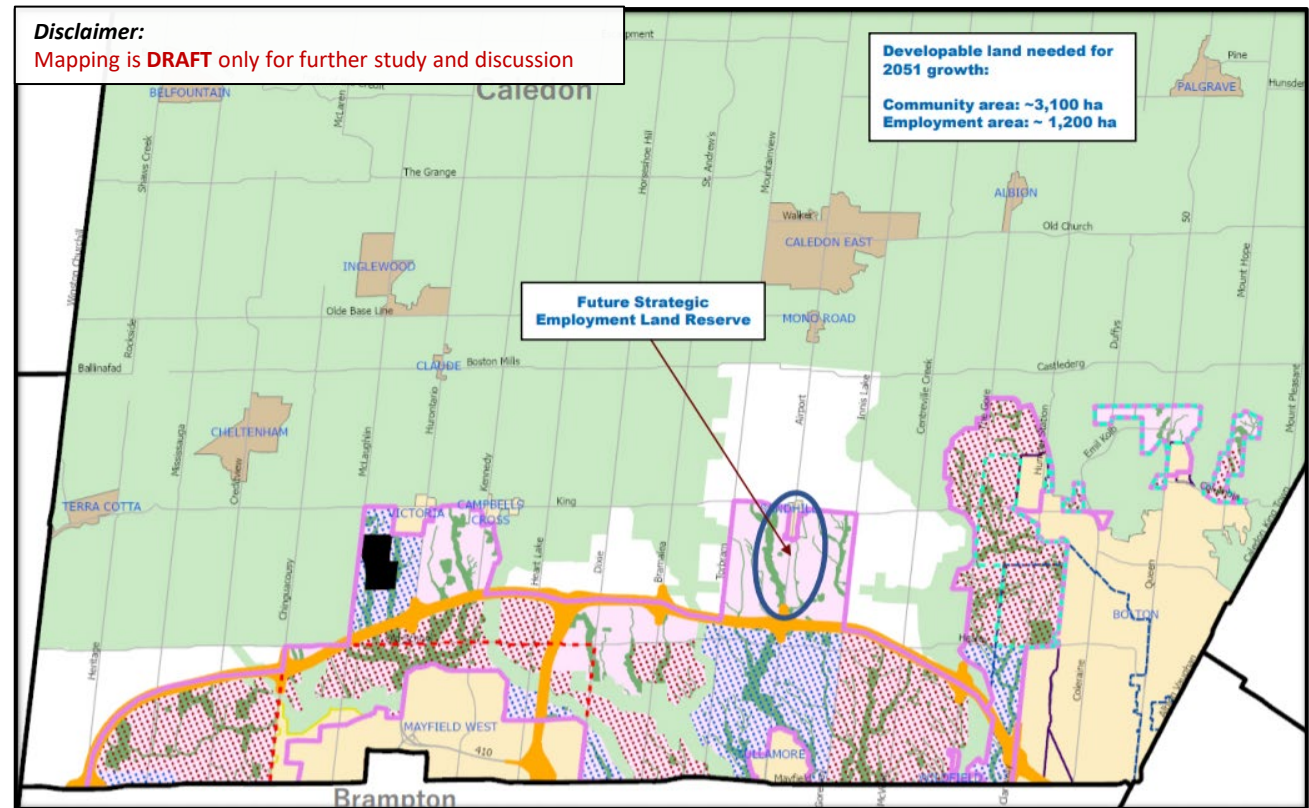
Climate change component considerations as part of the SABE process



Climate Change Mitigation, Energy and Emissions Reduction



Transportation, Health Assessment, Agricultural Impact Assessment, Environmental Screening and Scoped Subwatershed Study





Next Steps / Questions?

- Continue to work collaboratively with Regional staff, local municipal staff and other stakeholders to apply a climate lens and ensure consistency throughout the Regional Official Plan as other focus areas advance.
- Continued informal stakeholder engagement and consultation.
- Formal consultations, as required under the Planning Act, on the proposed policies.

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