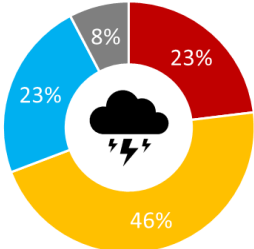
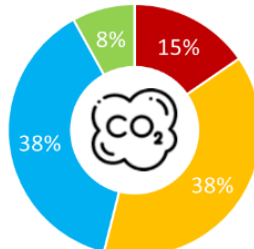
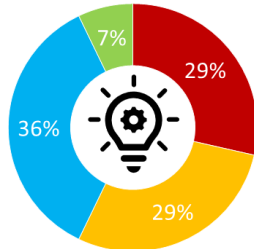







2020 Progress Report Summary










Corporate Climate Change Outcomes	BE PREPARED	REDUCE GHG EMISSIONS	ENABLE (Build Capacity, Invest, Monitor and Report)
Results			
	<div> ■ Not Started ■ Planned ■ In Progress ■ Complete ■ Unknown </div>		
Summary	<ul style="list-style-type: none"> The Region of Peel is achieving scheduled milestones to address the impacts of climate change to regional services and assets. Notable progress includes the Climate Change Risk Assessment tool selection, and Green Infrastructure (GI) opportunity assessments and GI regional Roads implementation. 	<ul style="list-style-type: none"> The Region of Peel is to accelerate efforts to reduce emission as the Region is not on track to reach its Reduced GHG Emissions outcome target of 45% below 2010 levels by 2030. Notable progress includes net zero emissions building feasibility studies completed, hybrid vehicles acquisitions for Regional and Police Fleets, electric vehicle charging station installations, and telecommuting, as well as the establishment of a working group planning for district energy. 	<ul style="list-style-type: none"> The Region of Peel 's capacity to adapt to and mitigate the effects of climate change is progressing but needs continued traction. Notable progress includes initiated Energy and Emissions Management Plans for Water, Wastewater, and Peel Housing Corporation.
Consequences	If actions don't progress as planned, the Region risks not meeting its 2030 Be Prepared outcome and increasing exposure of assets, service, and residents to climate risks.	If actions don't progress as planned, the Region risks not meeting its 2030 Reduce GHG Emissions target.	If actions don't progress as planned, the Region risks not meeting its 2030 outcomes of planning investments for climate change work and embedding climate change into decision making.
Opportunities	Focus should be made to build capacity in areas of evidence generation to support decision making by developing the Climate Change Risk Assessment tool to ensure Regional services and assets are more resilient to extreme weather events and future climate conditions.	Focus on development and implementation of net-zero emission standards for new construction buildings, and continued traction on sustainable transportation and green fleet actions.	The Climate Change Financing Strategy must be developed and the scope of work for the Climate Change Engagement Strategy needs to be implemented.

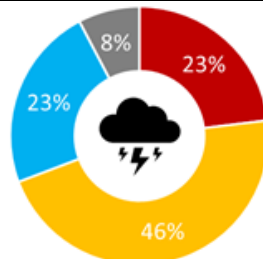



















LEGEND

STATUS (S)

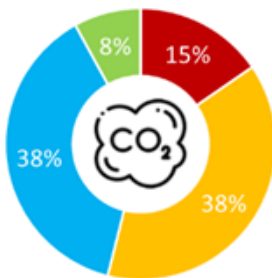























Not Started	Action has not yet started	
Planned	Action is being prepared for implementation	
In Progress	Action is being implemented	
Complete	Action has been implemented and may be ongoing	
Unknown	Not enough information available to measure progress	

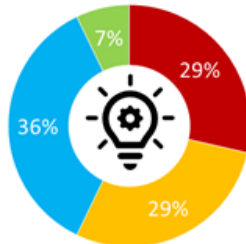





















COMMUNITY RESILIENCE OUTCOMES (CR)

Disaster Ready	- Disaster Preparedness Increased	
Health Protected	- Health-related Impacts Reduced	
Capacity Increased	- Public Support, Commitment, Capacity and Partnerships Expanded	
GHGs Reduced	- GHG's Understood and Plan in Place - GHGs Reduced	
	- Land Use Policy Implemented to Reduce GHG's	
Risks Reduced	- Climate Risks Understood and Plan in Place - Climate Risks Reduced	
	- Land Use Policy Implemented to Reduce Community Vulnerability	
Green Infrastructure Enhanced	- Natural and Green Infrastructure Protected and Enhanced	
Investments Made	- Investments Made	
	- Financial Risks and Opportunities Disclosed	

BE PREPARED	Overall Progress	Summary Statement		
A safe, secure, and connected community is provided by ensuring Regional services and assets are more resilient to extreme weather events and future climate conditions.		<ul style="list-style-type: none">The Region of Peel is achieving scheduled milestones to address the impacts of climate change to regional services and assets.Notable progress includes the Climate Change Risk Assessment tool selection, and Green Infrastructure (GI) opportunity assessments and GI regional Roads implementation.		
Consequences	If actions don't progress as planned, the Region risks not meeting its 2030 Be Prepared outcome and increasing exposure of assets, service, and residents to climate risks.			
Opportunities	Focus should be made to build capacity in areas of evidence generation to support decision making by developing the Climate Change Risk Assessment tool to ensure Regional services and assets are more resilient to extreme weather events and future climate conditions.			
Expected Outputs		S	Key Accomplishments	CR
ACTION: Better prepare to respond to, and raise awareness of, increased climate change-related emergencies and health impacts				
Emergency partners aligned			<ul style="list-style-type: none">Public Health Vulnerability Assessment UpdatedPost weather event communication plan drafted.	  
Plans in place to respond to weather related emergencies				
ACTION: Identify and manage risks to infrastructure assets				
Infrastructure risk assessment			<ul style="list-style-type: none">Climate Change Regional Infrastructure Risk Assessment tool selected and assessment planning underwayWater & Wastewater Climate Risk Assessment PilotedRFP for Climate Change Risk & Adaptation of Enterprise Asset Management Program initiatedFlood mitigation plan for priority areas continuedNew sanitary sewer design and construction standards implemented	
Climate Change risks integrated into asset management				
Infrastructure designed to withstand impacts				
Risks and plans disclosed				
ACTION: Enhance standards, guidelines, and planning activities that pursue resilient urban design and development				
Plan to have resilience lens applied to new infrastructure			<ul style="list-style-type: none">Public Works Stormwater Design Criteria and Procedural Manual updatedPeel 2041 Official Plan Review, Climate Change Draft Policies and Discussion Paper completedClimate change integrated to growth allocation planningClimate change integrated in technical studies for Settlement Area Boundary Expansion Study	
Data on hazards, vulnerabilities, and risks maintained				
Climate hazards integrated into land use planning policy				
ACTION: Protect and increase green infrastructure throughout Peel				
Green Infrastructure expanded throughout Peel			<ul style="list-style-type: none">Initiated tree inventory and green infrastructure asset management plan for regional roads and water/wastewater facilities.Urban Forest Best Management Guide initiatedStormwater Servicing Master Plan in progressGreen Infrastructure capital projects implemented,GI opportunity assessment initiated for Peel Living and LTC sites.	
Inventory of natural infrastructure across land-based assets				
Plan to protect and maintain Green Infrastructure				
Green Infrastructure expanded in areas with the greatest need				

 Not Started
  Planned
  In Progress
  Complete
  Unknown

REDUCE GHG EMISSIONS		Overall Progress		Summary Statement	
Corporate greenhouse gas emissions are reduced by 45% by 2010, relative to 2010 levels				<ul style="list-style-type: none">The Region of Peel is to accelerate efforts to reduce emission as the Region is not on track to reach its Reduced GHG Emissions outcome target of 45% below 2010 levels by 2030.Notable progress includes net zero carbon building feasibility studies completed, hybrid vehicles acquisitions for Regional and Police Fleets, electric vehicle charging station installations, and telecommuting, as well as the establishment of a working group planning for district energy.	
Consequences		If actions don't progress as planned, the Region risks not meeting its 2030 Reduced Emissions target.			
Opportunities		Focus on development and implementation of net-zero emission standards for buildings, and continued traction on sustainable transportation and green fleet actions.			
Expected Outputs		S	Key Accomplishments		CR
ACTION: Undertake deep retrofits for existing buildings and Ensure new buildings have high energy performance					
Prioritize energy intensive buildings to be retrofitted		<ul style="list-style-type: none">Site Prioritization Tool for emissions reductions updated15-years of energy related state of good repair (SOGR) projects identified			
Align plans for retrofit with state of good repair schedule		<ul style="list-style-type: none">Facilities prioritized for GHG Emissions Reduction PotentialNet zero emissions retrofit feasibility study was completed for Headquarters site (Suite A) and another was initiated for an affordable housing site (Weaver's Hill)			
Develop net zero standards for all new buildings		<ul style="list-style-type: none">Net zero emissions feasibility study was completed for a new construction affordable housing site (East Avenue)			
Construct new buildings to achieve a net-zero missions standard					
ACTION: Generate low carbon energy					
Install solar PV and geo-exchange systems as buildings are retrofitted		<ul style="list-style-type: none">Renewable natural gas from waste facility plan completedFeasibility studies of new and existing buildings considered low carbon energy generation options.			
Install solar PV and geo-exchange systems as buildings are constructed					
ACTION: Enable alignment of Regional actions with transition toward diversified and decentralized energy systems					
Convene and coordinate partners		<ul style="list-style-type: none">Lakeview district energy planning work group formed and 2021 workplan completedUpdated advocacy position statements			 
Develop a strategy for diversified and decentralized energy					
ACTION: Support sustainable transportation for commuting					
Encourage teleworking		<ul style="list-style-type: none">Transitioned workforce during COVID-19 to teleworking resulting in significant GHG reductions.6.5 km of active transportation infrastructure planned for 2021			 
Promote Sustainable Transportation Strategy to support mode shifting					
ACTION: Green the fleet					
Implement green the fleet strategy		<ul style="list-style-type: none">Installed 13 publicly accessible EV charging stationsRetrofitted 12 public works trucks with hybrid technologyPurchased 84 Ford Utility Electric Hybrid vehicles for Peel PolicePurchased 8 hybrid ambulances for paramedics			
ACTION: Maximize energy efficiency and energy recovery in water and wastewater systems					
Implement the Wastewater Energy Security Strategy		<ul style="list-style-type: none">Energy and Emission Management Plan for water and wastewater in progress.Participated in Water Smart Irrigation ProgramImplemented the Water Efficiency Indoor Water Assessment Program and the Equipment Replacement Program for businesses.			 
Optimize the treatment and transmission of water supply					

2020-2030 Climate Change Master Plan: 2020 Annual Progress Report				
ENABLE	Overall Progress	Summary Statement		
Build Capacity		<ul style="list-style-type: none">The Region of Peel 's capacity to adapt to and mitigate the effects of climate change is progressing but needs continued traction.Notable progress includes initiated Energy and Emissions Management Plans for Water, Wastewater, and Peel Housing Corporation.		
Invest				
Monitor and Report				
Consequences	If actions don't progress as planned, the Region risks not meeting its 2030 outcomes of planning investments for climate change work and embedding climate change into decision making.			
Opportunities	The Climate Change Financing Strategy must be developed and the scope of work for the Climate Change Engagement Strategy needs to be implemented.			
Expected Outputs		S	Key Accomplishments	CR
BUILD CAPACITY: Climate change is considered in all decision-making through organization-wide climate literacy, planning, and accountability.				
ACTION: Develop service area climate change operational plans				
Identify responsibilities, timelines, and resource requirements		<ul style="list-style-type: none">Energy and Emissions Management Plans for Water, Wastewater, and Peel Housing Corporation in progress		
Develop operational plans that will guide CCMP				
ACTION: Provide tools that enable integration of climate change priorities into decision making				
Develop set of future scenarios		<ul style="list-style-type: none">Water and wastewater risk assessment pilot produced several climate change projections and risk scenarios		
Prepare guide for the integration of climate change into business plans, standards, and guidelines				
ACTION: Communicate the need for and benefits of climate action				
Develop and implement an engagement strategy for key audiences		<ul style="list-style-type: none">Climate Change Engagement Strategy scope of work developedPost weather event engagement plan developedPublic health vulnerability assessment (see Be Prepared)		
Further inform discussions on climate change				
ACTION: Stimulate innovative approaches to address climate change				
Communicate and incentivize evidence based best practices		<ul style="list-style-type: none">Urban Forest Best Practice Guide initiated (See Be prepared)IESO Embedded Energy Manager Program		
INVEST: Innovative and sustainable approaches are used to finance action on climate change				
ACTION Complete a climate change financing Strategy				
Develop framework for how actions of the CCMP are budgeted into long term capital planning		<ul style="list-style-type: none">Climate change risk assessment software tool selection & SOP developmentExternal funding sought and obtained (IESO energy management program, NRCan funding)	\$	
Consider innovative financing tools				
Consider external funding				
MONITOR and REPORT: Progress on addressing Regionally funded climate change work is consistently reported, available, and widely understood				
ACTION Report annually on CCMP implementation				
Provide status report on progress toward outcomes		<ul style="list-style-type: none">Annual progress report completed		
ACTION Develop a corporate climate change resiliency performance report				
Report on how the Region is performing relative to the climate change resiliency scorecard		<ul style="list-style-type: none">Collaborated with Partners to develop framework to report performance on climate change		
ACTION Develop an annual climate-related financial disclosure report				
Publish an annual comprehensive report on the Region's response to climate change				
ACTION Complete periodic scientific reviews				
Review climate science and implications for the Region		<ul style="list-style-type: none">Corporate and community GHG inventory completed.Risk assessments in progress	