



Item No. 9.1.2 HALIFAX

Regional Watersheds Advisory Board

November 12, 2020

Agenda

- HalifACT
 - Overview of the plan
 - o Example Action Areas
 - Project Highlights
- o Q&A



Energy & Environment

Sea Level Rise Coastal & Overland Flooding

Stormwater Management Water Quality Monitoring

Watershed Studies

LIDAR Acquisition Land Use Vulnerability Mapping

HalifACT

GHG Inventories & 2020 Target Climate Adaptation Studies

Renewable & District Energy

Solar City Program

Energy Efficiency Green & Blue Infrastructure

Urban Forest Master Plan

Halifax Green Network Plan

Emergency Preparedness

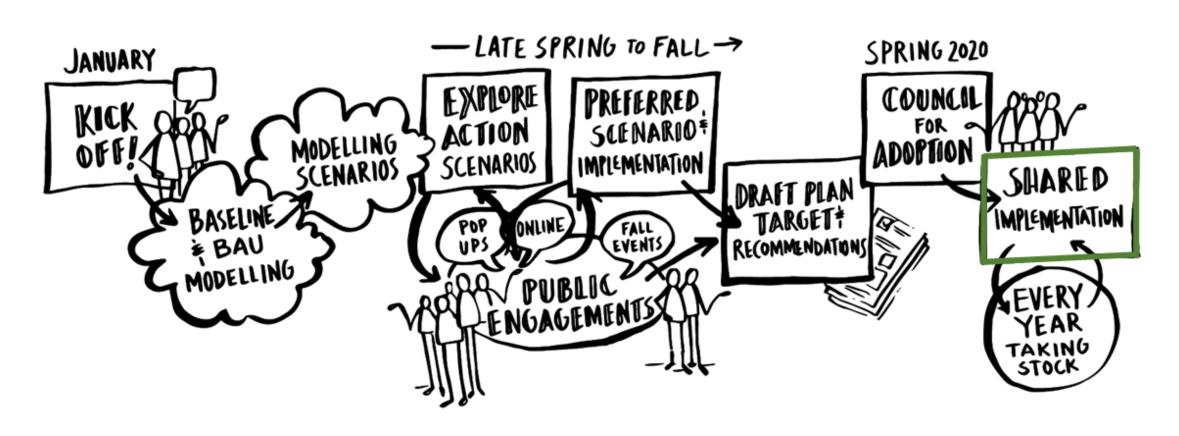
Resiliency

Environmental Risk Management

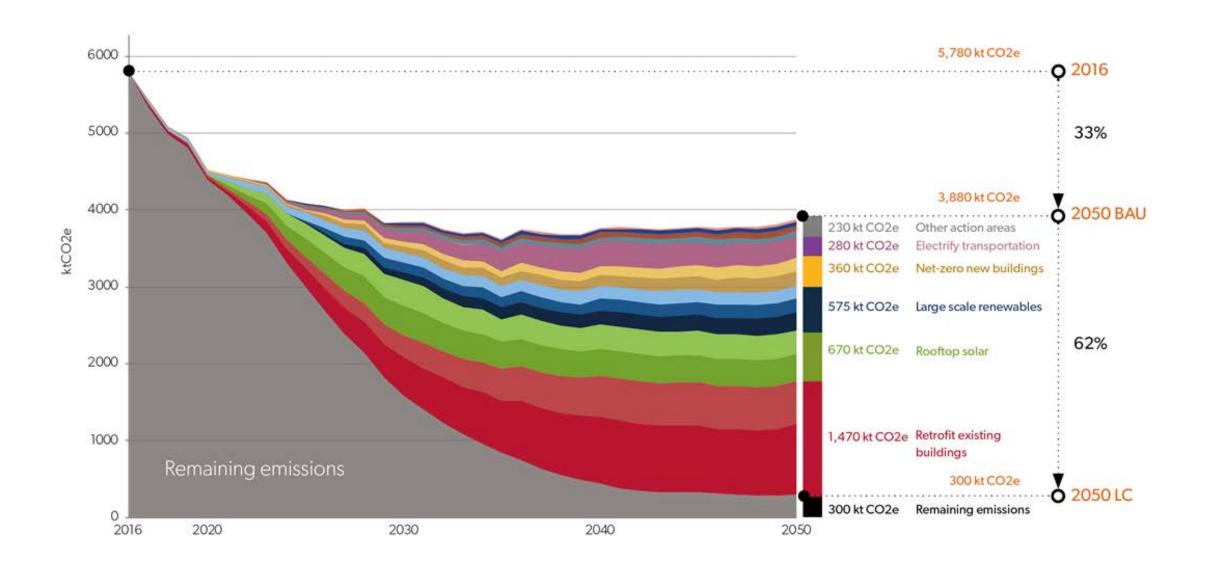
Invasive Species







H\(\text{LIF}\(\text{X}\)



Time for Action









DECARBONIZED AND RE	SILIENT INFRASTRUC	TURE	
Efficient Buildings	Renewable Energy	Decarbonizing Transportation	Greening Government Operations
Water	Planning	Critical Infrastructure and Services	Coastal Preparedness

Natural Areas and	I Green Infrastructure Assets

PREPARED AND CONN	ECTED COMMUNITIES		
Food	Community Capacity	Emergency Management	Business Economy
GOVERNANCE AND LE	ADERSHIP		
Monitoring and Reporting	Carbon Accounting	Mainstreaming Climate into Municipal Operations	Governance and Capacity for Action

Immediate Action Areas

Retrofit and renewable energy programming Retrofit municipal buildings to be net-zero ready and climate resilient Electrification of transportation Net-zero standards for new buildings Framework for assessing and protecting critical infrastructure Capacity building for climate adaptation Financing strategy to operationalize the HalifACT 2050 plan over 30 years Net-Zero Municipal Operations

- Mainstream climate thinking
- Retrofit buildings by 2030
- Net-zero new buildings
- Electrify fleet by 2030
- Increase waste diversion
- Generate renewable energy
- Purchase local zero-carbon electricity



Planning

ACTI	ON	TARGET OR OBJECTIVE	TIMING
23	Integrate climate into land use planning policies and processes		>
24	Plan for the deployment of carbon-neutral district energy and microgrid systems		>>
25	Increase land protection and conservation on private lands through partnerships, collaboration and municipal planning requirements	Plan and build a low-carbon resilient region	C/O
26	Acquire more land to preserve natural areas and ecosystem health in alignment with the Green Network Plan	-	CO



Water

ACTI	ON	TARGET OR OBJECTIVE	TIMING
12	Adopt a commitment and develop a detailed plan to achieve net-zero water and wastewater operations by 2030	Achieve net-zero water and wastewater operations by 2030	>>
13	Develop a holistic, integrated, and climate-informed water supply strategy	Future proof water systems	>>
14	Develop a holistic, integrated, and climate-informed stormwater management plan and program	and supply	CO



Critical Infrastructure & Services

ACT	ION	TARGET OR OBJECTIVE	TIMING
15	Conduct a high-level risk assessment (HLRA) with internal and external stakeholders for utilities, transportation, water, health facilities and telecoms	Reduce risk to critical infrastructure	
16	Conduct a detailed spatially-based risk and vulnerability analysis of municipally-owned and -operated critical infrastructure at the asset class and system level		
17	Install zero-emissions back-up power in critical infrastructure		>>>
18	Develop inspection procedures for high-risk infrastructure to identify resulting damage from extreme events		>>>
19	Develop or update codes and design standards for new municipal and private infrastructure that reflect future climate impacts		>



Economic Opportunity

- A low carbon future is a lower cost future
 - Investments generate financial returns
 - Net benefit of 22 Billion over 30 years
- Savings from:
 - Avoided energy costs
 - Avoided operations & maintenance costs
 - Avoided carbon pricing costs
 - Increased energy generation revenues
- Economic recovery from COVID-19 pandemic
 - A unique opportunity to do things differently
 - Funding opportunities for a green transition





Current Initiatives

- Preparing Council recommendation report re: new water quality monitoring program
- Blue green algae response
- Weed management
- Pollution control initiatives for Lakes Banook and Micmac
- Port Wallace
- Flood scenario modelling
- Regional Plan update



