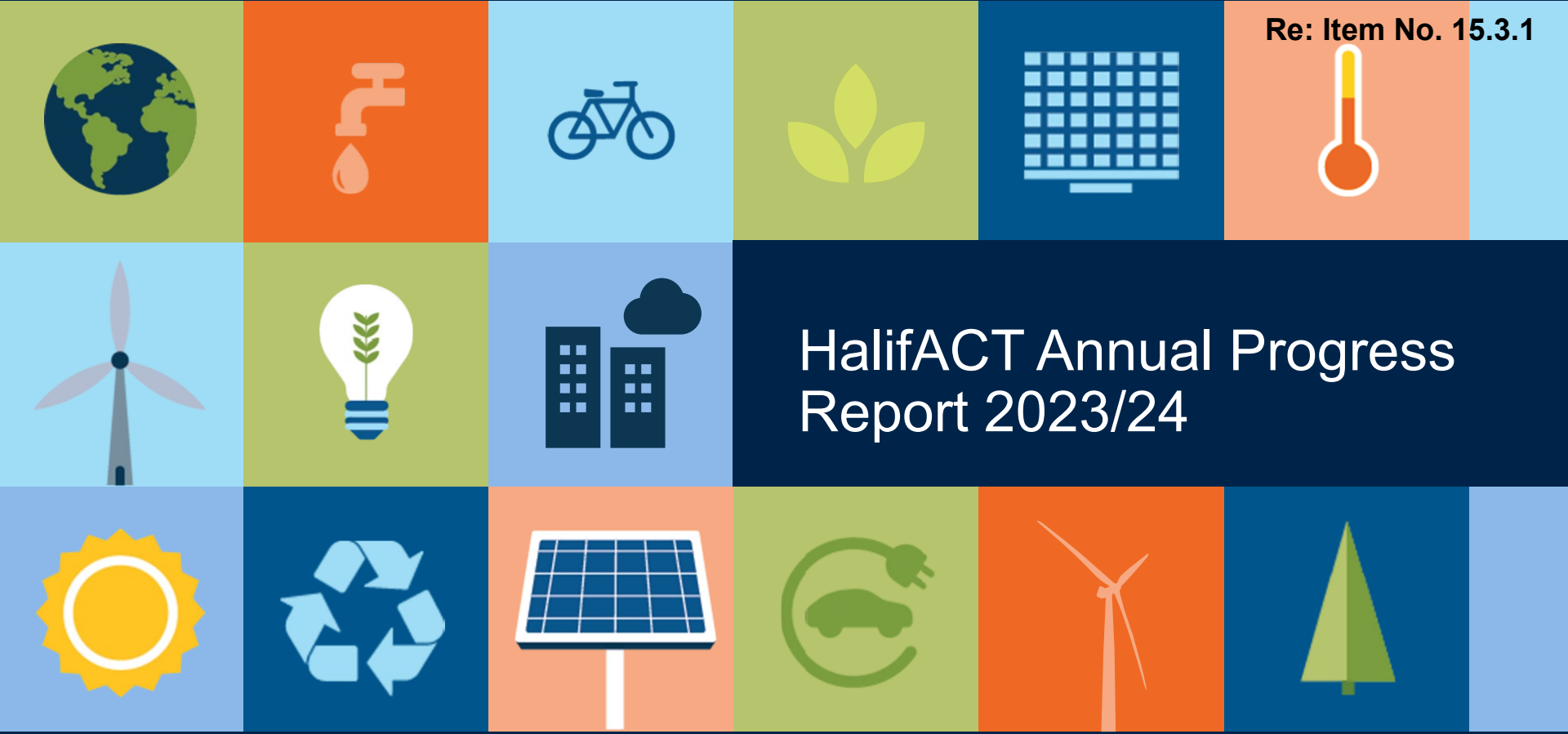
Re: Item No. 15.3.1



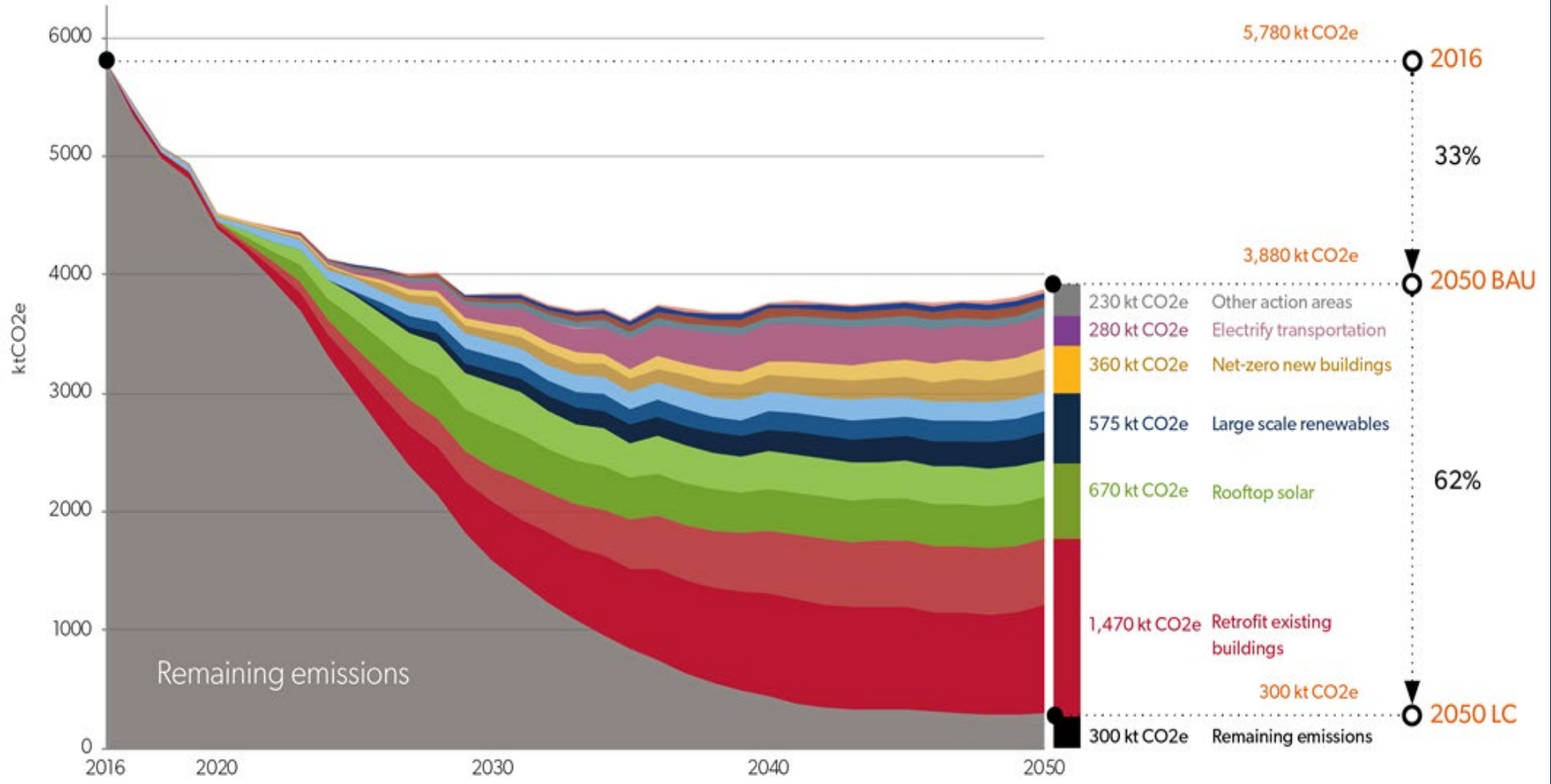
HalifACT Annual Progress Report 2023/24

Halifax Regional Council
November 12, 2024

HalifACT Acting on Climate Together

HALIFAX

ROAD
CLOSED


6000
5000
4000
3000
2000
1000
0
ktCO2e
2016
2020
2030
2040
2050
Remaining emissions
5,780 kt CO2e
2016
33%
3,880 kt CO2e
2050 BAU
230 kt CO2e
Other action areas
280 kt CO2e
Electrify transportation
360 kt CO2e
Net-zero new buildings
575 kt CO2e
Large scale renewables
670 kt CO2e
Rooftop solar
62%
1,470 kt CO2e
Retrofit existing buildings
300 kt CO2e
2050 LC
300 kt CO2e
Remaining emissions

HalifACT

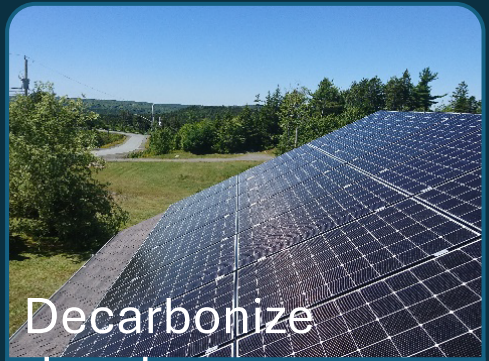
Acting on Climate Together

HalifACT Targets

- Net-zero municipal operations by 2030
- 75% community emission reduction by 2030 over 2016 levels
- Net-zero community emissions by 2050
- Prepare communities, infrastructure and ecosystems for current and future climate impacts

HalifACT Acting on Climate Together

HalifACT: Acting on Climate Together



Decarbonized and Resilient Infrastructure

Prepared and Connected Communities

Governance and Leadership

HalifACT Acting on Climate Together

Economic Opportunity

- Investing in climate mitigation and adaptation is critical for an affordable future
- A low carbon future is a lower cost future
- First 10 years of action will result in an annual average of 9,000 person-years of employment
- Savings from:
  - Avoided energy costs, O&M costs
  - Avoided carbon pricing costs
  - Increased energy generation revenues

CLIMATE ADAPTATION MEASURES

$1 saves $15

Spent in preparation

In future impact costs

EMISSION REDUCTION MEASURES

$22B = $41.9B

Spent on reducing emissions

In avoided energy-related costs

HalifACT Acting on Climate Together

Social Opportunity

- Reduce the burden on future generations
- Reduce climate impacts on vulnerable populations
- Build resiliency to improve lives & community connection
- Reduce energy poverty
- Result is a more vibrant, just, inclusive & resilient city

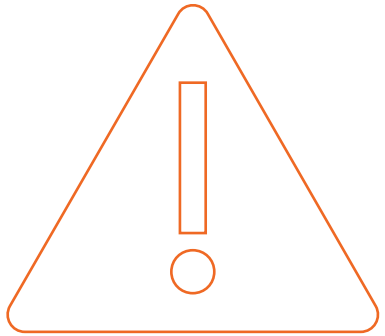
HalifACT Acting on Climate Together

2023-2024

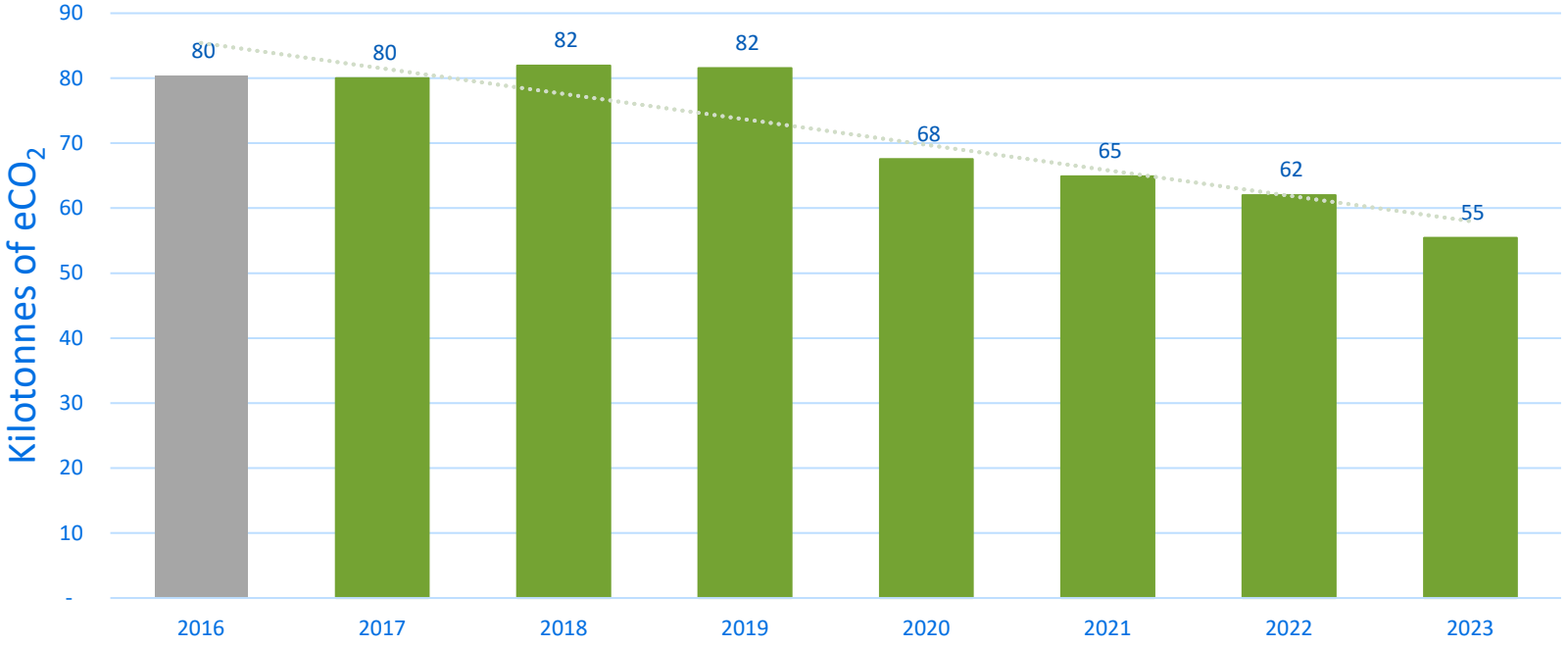
Planning Implementation

Barriers to Implementation

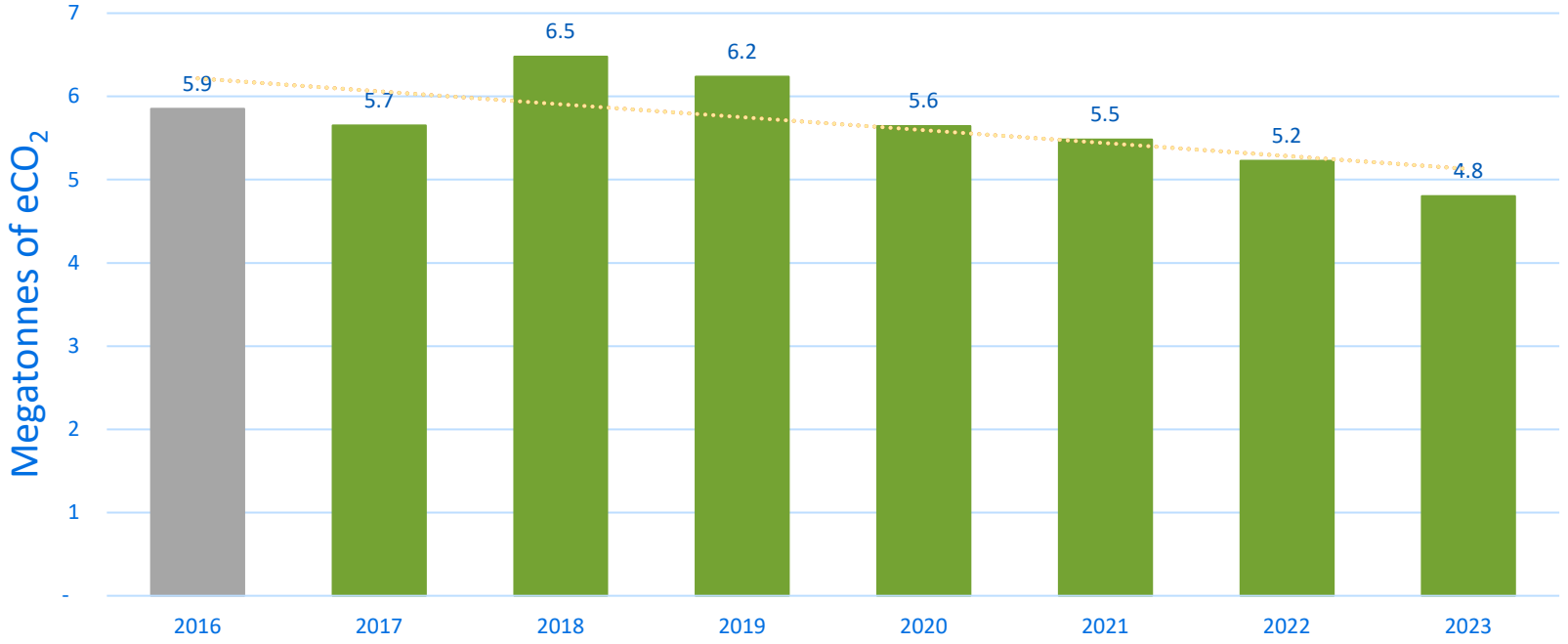
- External
  - Regulatory limitations
  - Coordination with other levels of government
  - Supply chain and workforce constraints
- Internal
  - Resource constraints
  - Competing priorities
  - Complexity of implementation



Corporate Emissions

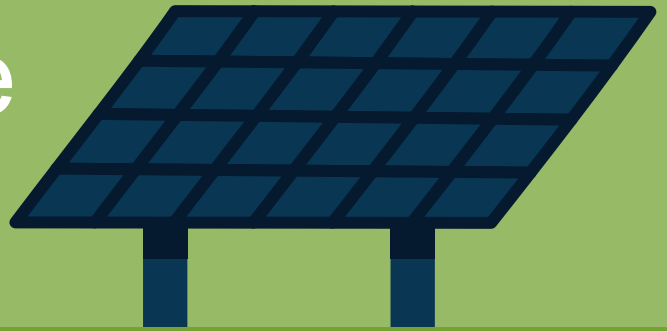


Community Emissions



HalifACT Acting on Climate Together

Decarbonized and Resilient Infrastructure



HALIFAX

Public Charging Deployment

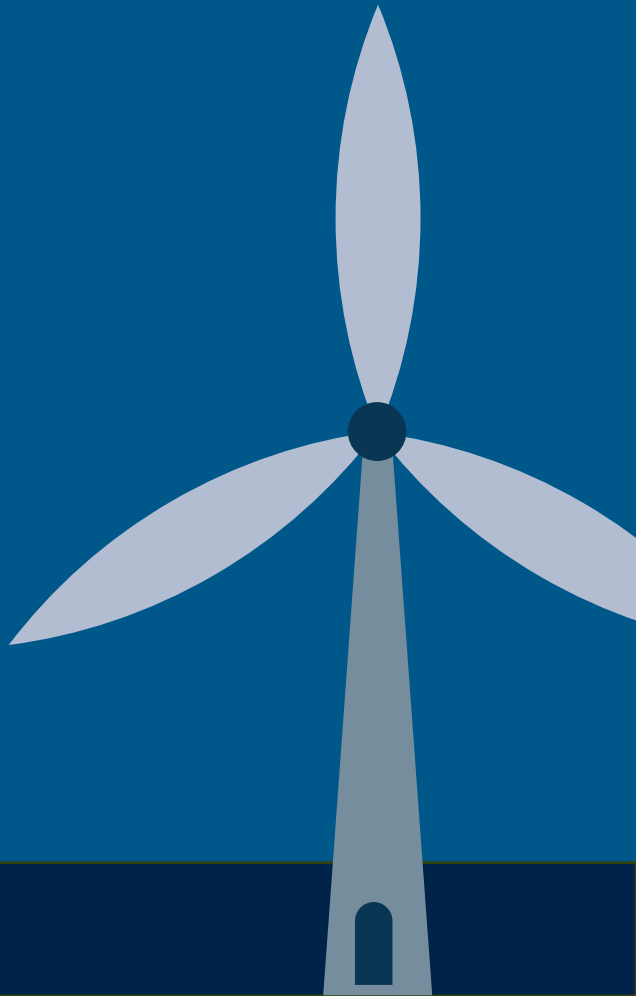
- Installs are underway to ease range anxiety
- Operational later this fall:
  - JD Shatford Public Library
  - Musquodoboit Harbour Library
  - Canada Games Centre
  - Bedford Park & Ride
- Level 2 charging in MURB dense areas
- $980,000 ZEVIP funding for the first 56 chargers

Net-Zero Municipality

- Electric vehicles & buses
- New building construction
  - Grahams Grove
  - Aquatic Centre
- Existing building retrofits
  - Ragged Lake Transit Centre

HalifACT Acting on Climate Together

Prepared and Connected Communities



HALIFAX

Resilient Community

- Resiliency Retrofit Project
  - Flood risk assessments
  - Free flood prevention retrofits

- Coastal Adaptation
  - Risk and vulnerability assessment

Resilient Municipality

- Build Back Better Funding
  - Post-disaster funding to re-build infrastructure to a higher standard

- Critical infrastructure analysis
  - Municipal government-wide

Governance and Leadership

Engaged Community & Industry

- Building to Zero Exchange
- CEO Climate Action Charter
- Accessible community events
- Climate Equity
- Youth engagement

Climate Governance Model

CORPORATE FLEET ELECTRIFICATION

CORPORATE NET ZERO BUILDINGS

GREENING TRANSIT

RESILIENT COMMUNITIES

RESILIENT CRITICAL INFRASTRUCTURE

NATURE-BASED SOLUTIONS

HalifACT in Action

- Global
  - A Grade from Carbon Disclosure Project
  - IPCC Cities Participation
  - Global Covenant of Mayors
  - Corporate Knights Sustainable Cities Index
- Regional
  - Resilient & Deep Energy Retrofit Pilots
  - Solid Waste Strategy Review
- Local
  - Storm kits for newcomers
  - Lake Watchers

CDP
DISCLOSURE INSIGHT ACTION
CITIES A LIST 2023

Halifax

Battery Powered Small Equipment

- Funded purchase of battery powered small equipment for parks maintenance

- Will reduce emissions & contribute to healthy workplace

Rita Joe Ferry Undercoating

- Funded application of non-toxic marine undercoating that prevents build-up of marine growth

- Increased efficiency results in lower fuel use and reduced emissions

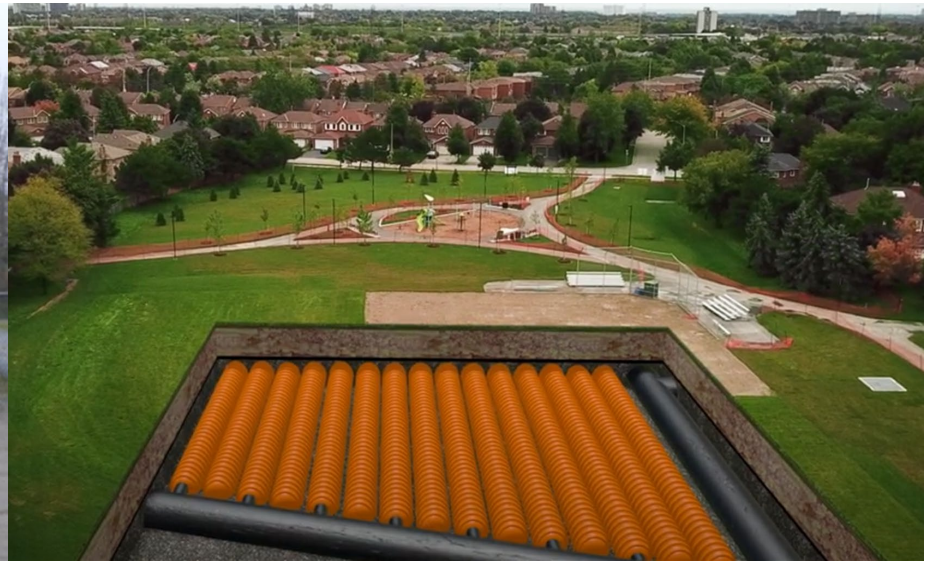
DeWolf Park Solar Lights

- Funded pilot of 2 standard solar light poles and 1 solar bollard light

- Use of renewable energy source reduces monthly electricity costs

Small vehicle Electrification

- 6 x Electric forklifts
- 4 x Electric ice resurfacers
- 2 x Electric street sweepers



Cole Harbour Field Stormwater Management Facility

E-Bikes for Parking Enforcement

- 2023 Stats
  - 13 Staff
  - 7 E-Bikes
  - 3500 km driven in 2023
  - 230 Service Requests diverted from vehicles to bike patrol

Thank You

Shannon Miedema
Director, Environment & Climate Change

miedems@halifax.ca
902.266.4056
www.halifax.ca/climate