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Land Acknowledgment

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Summary

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Current Context

■ Climate Change and Its Projected Impacts

Climate Change Adaptation and Mitigation

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Climate Change Planning for Halifax and Colchester County

Halifax

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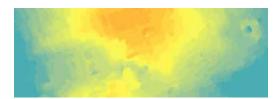
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Coastal erosion on McNab's Island Halifax Harbour. Rochelle Owen, 2018.



Figure 3. Studley Campus Elevation Map. Yvonne Ritchie, 2018.



Colchester

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University Response

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Vision, Principles, and Scope

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Benchmarking

GHG Inventory

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Scope 1: Direct GHG emissions and removals

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Scope 2: Energy indirect GHG emissions

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Scope 3: Other indirect GHG emissions

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Figure 9. Quantitative summary of Dalhousie's GHG emissions for 2009–2010 baseline for Halifax and AC campuses.

EMISSIONS SUMMARY TONNES	TONNES OF CO2e
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Climate Modelling for Halifax and Agricultural Campuses

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Table 1. Results of climate modelling data without any global action

All Campuses (Halifax and Agricultural)

Key Themes

Implications

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Table 3. Key Climate Vulnerabilities and Impacts

Highest to Lowest Priority Vulnerabilities for the University	Vulnerabilities	Impacts	
High		Titilian to the form of the service	
Medium	Fare Sections	make a me way of the man and he	
Low	F///, -6 /-/	1 6 1000	

Table 4. University Specific Climate Change Vulnerabilities and Risks

VULNERABILITY	RISK (Probability and Impact)
Energy Downed transmission lines (most likely from severe wind events) Changes in laboratory environments that threaten research animal health, interrupt research, disrupt hazardous material handling Hypothermia if students/sta /faculty on campus without heat	High High Low
Built Environment Flooding of Data Centre Services below grade Collapse or damage to vulnerable roofs from ice/snow Flooding on or around campus Freezing pipes causing flooding and water damage More weather impacts (precipitation, wind, freeze/thaw, ice, heat) on the building envelope and outdoor surfaces Impacts on the tunnels that supply buildings with electricity, heating, cooling	High High Hedium Medium Low
Natural Environment Damage to foliage, weakened trees (from pests and winds) Erosion Damage to agricultural lands Seasonal water shortages impacting campus lands and usage	High Medium Medium Low
Transportation Impaired transportation systems through flooded roads and lands from increase precipitation and tree fall Roads damaged in winter through increased freeze and thaw cycles	Medium Medium
Other Respiratory distress or heat stroke (people and animals) Falls as a result of snow/ice, with financial liability Housing impacts in surrounding community and/on campus (ex. more severe storms causing impacts to housing)	Medium Medium Medium-Low

Goals, Actions and Targets

Campus Energy Solutions

Actions

Fuel conversion

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Co-generation

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District Energy (DE)

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Renewables

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Critical Infrastructure Resiliency

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Targets

GHG reductions

Adaptation

Green Buildings

Actions

Recommissioning

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Major and Minor Buildings Retrofits

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New Construction

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Rain water cistern in IDEA building

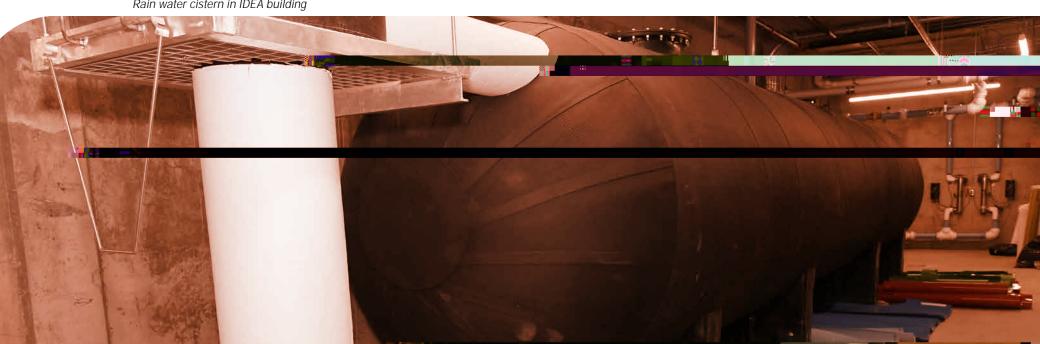
Targets

GHG reductions (o sets growth)

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Adaptation

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Knowledge and Behaviour

Actions

Operations Changes

University Plans

Natural Environment

Actions

Green and White Roofs

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Native Trees and Vegetated Swales

Rainwater Harvesting

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Carbon O sets and Sinks

Actions

Land procurement

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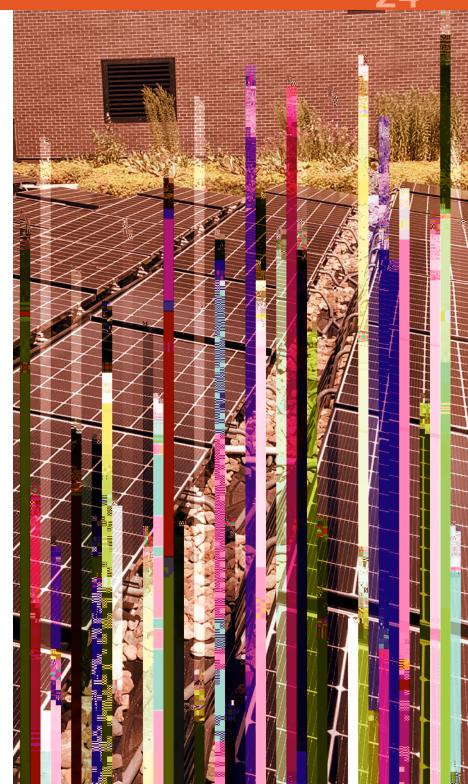
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