

2020 Climate Plan: 100% Renewable and Resilient Saanich

ICLEI Webinar

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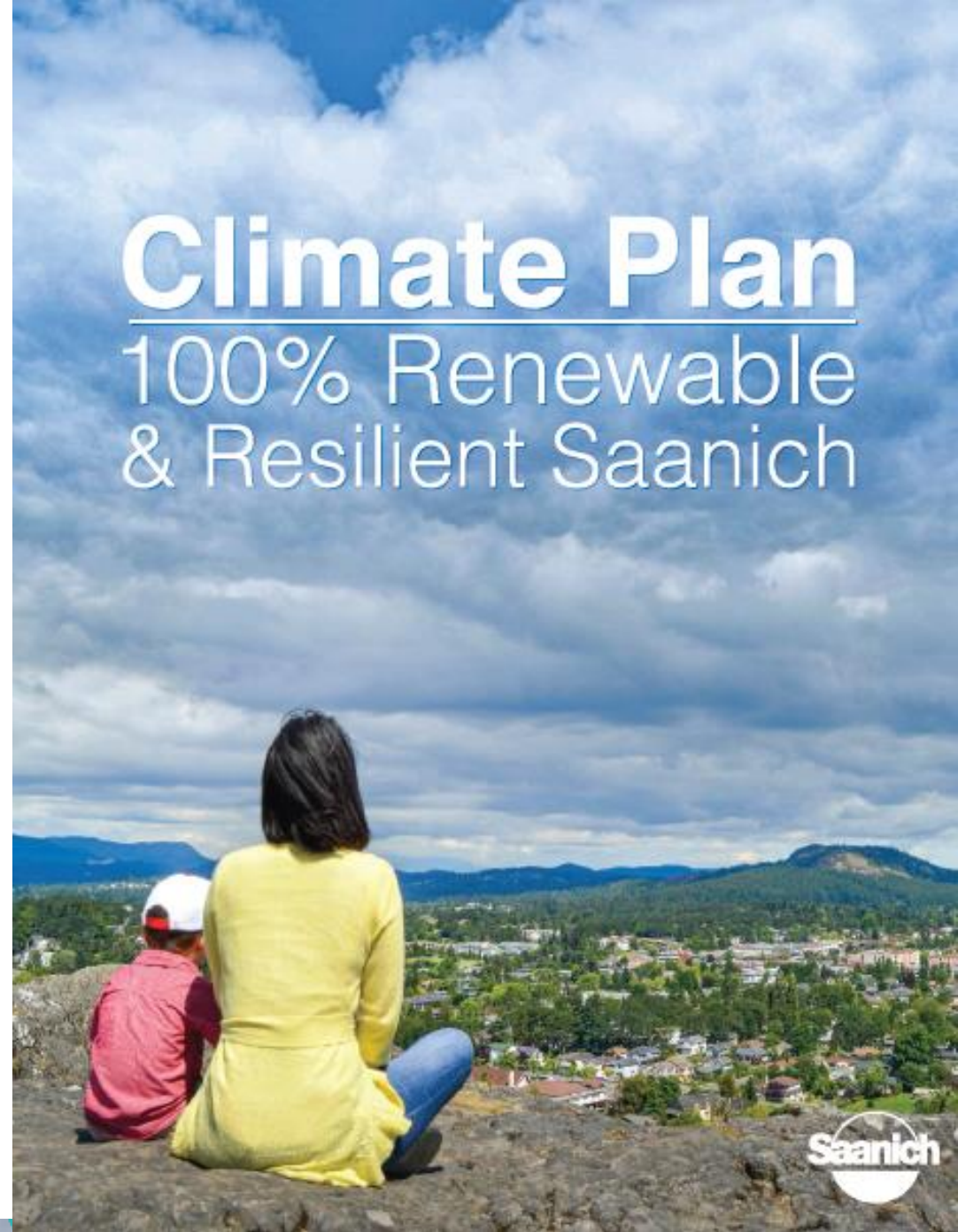
saanich.ca/climateplan



Overview

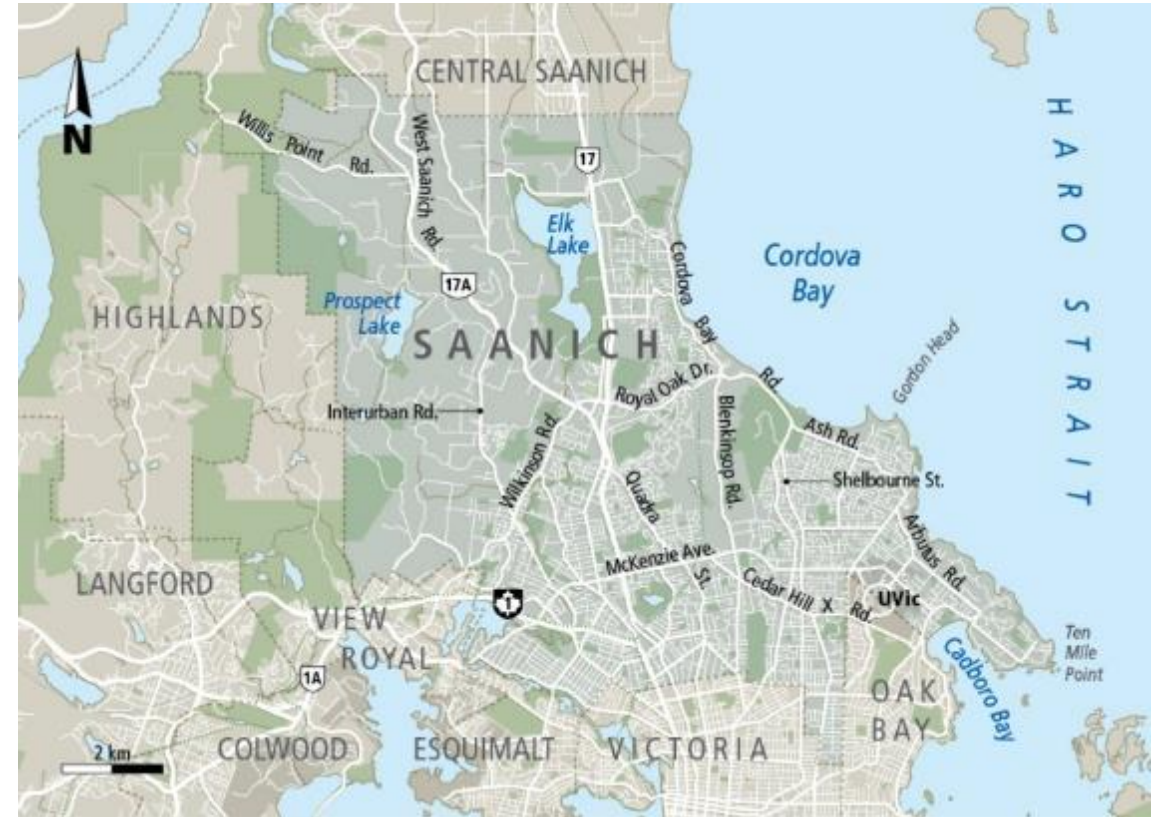
1. Introduction to Saanich
2. Why we joined Together for Climate
3. Our process and experience
4. Presenting... the Climate Plan!
5. Implementation to date

Climate Plan 100% Renewable & Resilient Saanich



Introduction to Saanich

- Largest municipality (size and population!) in the Capital Region
 - 114,000 people
 - 104 km²
- Mix of urban, suburban and rural land uses
- Economy: Government & university town, tech and agriculture

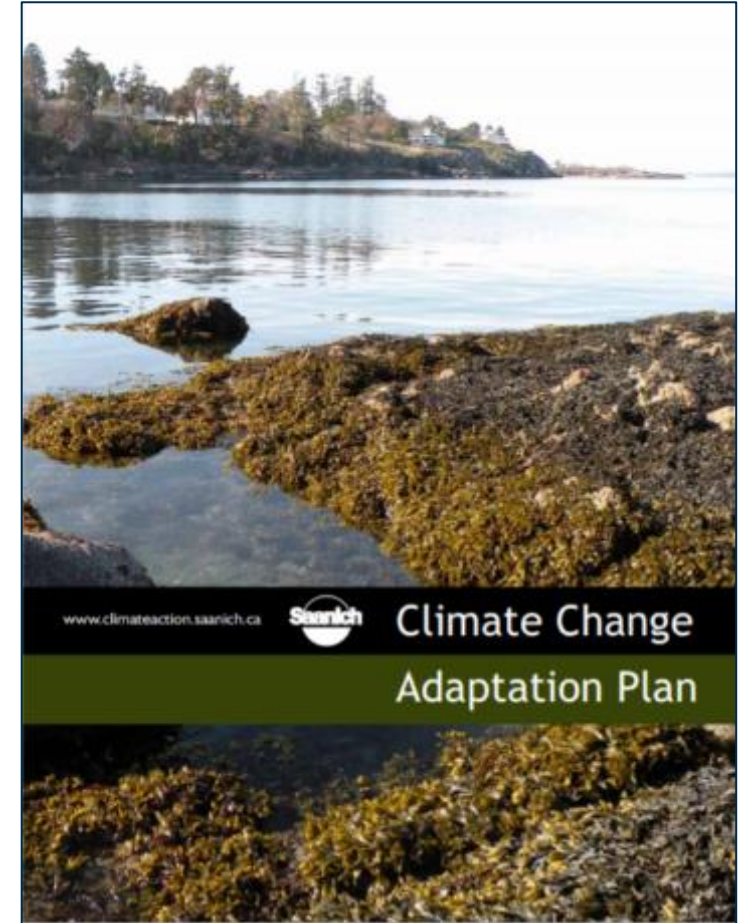


Adaptation Planning Background

Saanich's 2011 Adaptation Plan

- 70% of actions initiated, completed or ongoing
- Plan was “stale”: lack of momentum and staff buy-in on actions
- Newly available information on local Climate Projections
- Unforeseen/underestimated climate impacts (smoke, sea level rise)

In Oct. 2017, Saanich Council approved new targets and Terms of Reference for new Climate Plan



Saanich's 2011 Adaptation Plan

Adaptation Planning Background

Updated Climate Plan to include:

- Corporate and Community
- Mitigation and Adaptation

However, very different planning approaches:

- Mitigation: GHG inventory and modelling scenarios
- Adaptation: Vulnerability and risk assessments

PLAN GOALS



1. CUT EMISSIONS IN HALF BY 2030 AND TO NET ZERO BY 2050

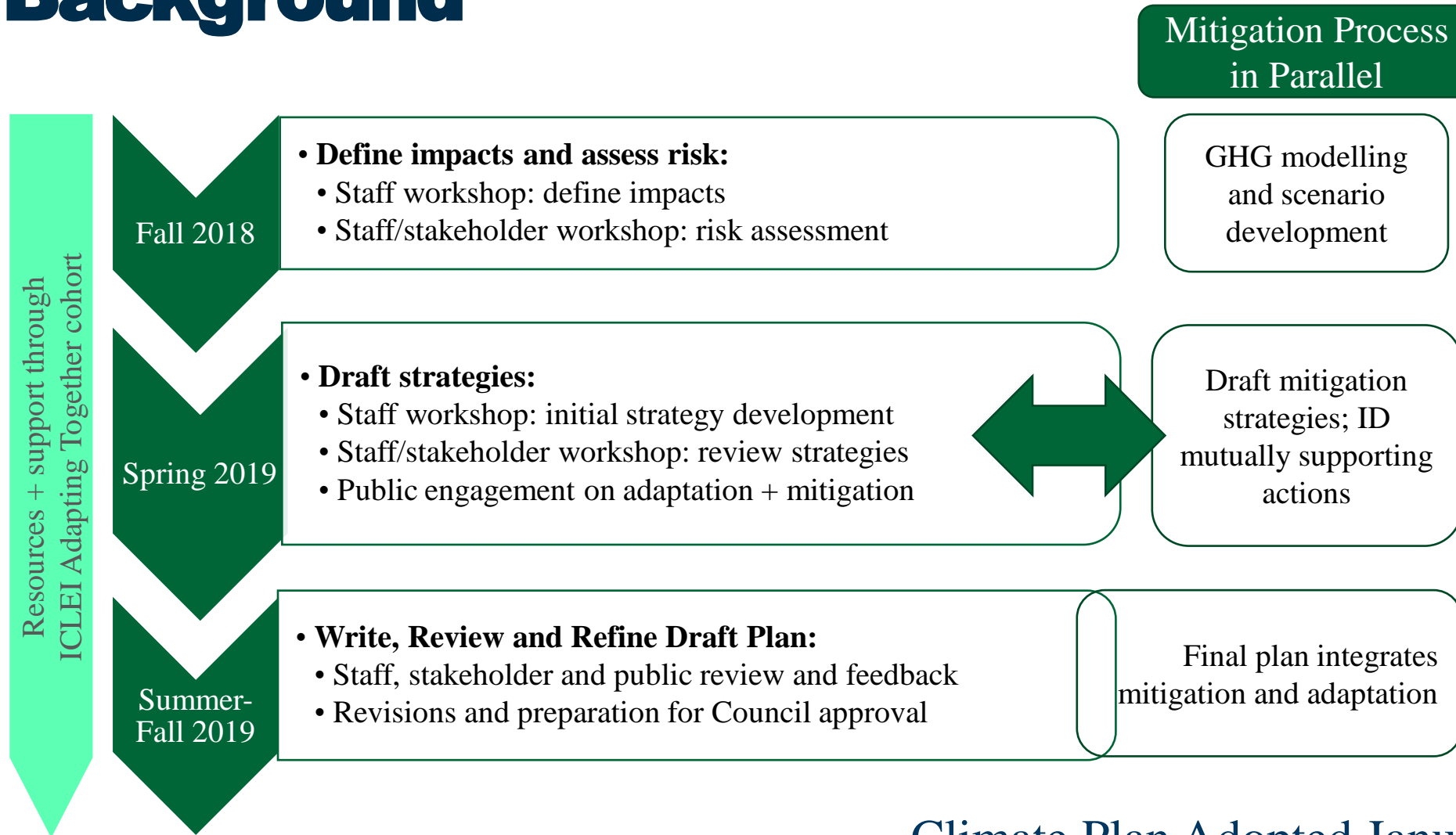


2. TRANSITION TO 100% RENEWABLE ENERGY BY 2050



3. PREPARE FOR A CHANGING CLIMATE

Adaptation Planning Background



Climate Plan Adopted January 2020

Together for Climate Alignment

- Opportunity to join program early 2018
- Much needed additional capacity
 - Planning support, facilitation, access to resources and peer learning
- Reputable organization and recognized 5 milestone planning framework



Together for Climate Experience

Benefits:

- Participation in regional workshops, helped to set larger context and make connections
- Ability to draw on resources and lessons learned from across Canada
- Help with data analysis and synthesizing workshop outcomes



ADVANCING COLLABORATIVE CLIMATE ADAPTATION IN BRITISH COLUMBIA

Join us for this special one-day event on advancing collaborative action on climate change in BC. Combining panel discussions, presentations, and interactive breakouts the event will highlight how collaboration among local governments, the public sector, private businesses, and community organizations is helping to manage local climate risks and advance action to prepare for a future climate.

- Learn how to manage local climate risks through collaborative action.
- Think about climate impacts across urban systems.
- Hear adaptation stories from the field.
- Connect with local experts to identify climate change risks.
- Network with colleagues at various stages of work on adaptation.

November 27, 2018, 9 to 4 PM
Parkside Hotel, Victoria, BC

CLICK FOR EVENT DETAILS AND REGISTRATION

I.C.L.E.I. Local Governments for Sustainability
BARC Building Adaptive & Resilient Communities
real estate foundation BRITISH COLUMBIA

Together for Climate Experience

Challenges

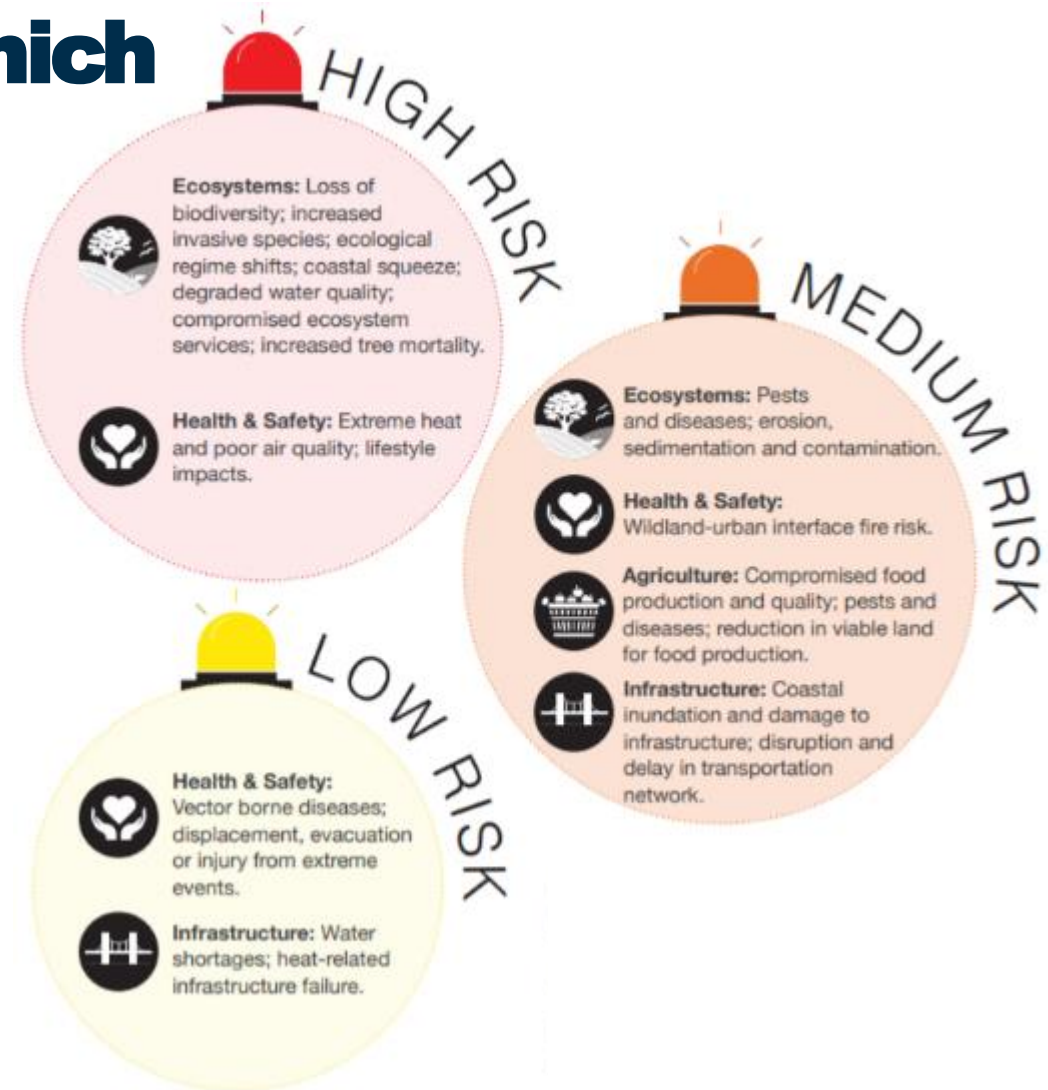
- Difficult to fit T4C's activities into our larger (and faster) climate planning process
- Due to our accelerated timelines, less opportunity for learning from others
- Risk assessment process necessary but at times unwieldy



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Top Vulnerabilities:

- Loss of biodiversity and ecosystem stress
- Health impacts from severe heat and wildfire smoke
- Inundation of buildings and infrastructure from sea level rise
- Compromised food production
- Wildland-urban interface fire risk



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6 Focus Areas – 131 Actions



MOBILITY



BUILDINGS &
INFRASTRUCTURE



FOOD &
MATERIALS



ECOSYSTEMS



COMMUNITY
WELLBEING



LEADERSHIP IN DISTRICT
OPERATIONS

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Each Focus Area:

- Overview: Vision, Objectives and Strategies
- Where We Are Today
- Where We Need to Go
 - Reducing emissions
 - Improving resilience
- How We'll Get There: Strategies and Actions

4.2 Strategies & Actions: Buildings & Infrastructure

OBJECTIVES & STRATEGIES

OBJECTIVES	STRATEGIES
 <p>All new buildings achieve the higher steps of BC Energy Step Code by 2025. All new buildings are net-zero carbon by 2032.</p> <p>By 2030, the embodied emissions in new buildings are reported and lowered.</p>	B1. Require efficient, net-zero carbon new construction
 <p>100% of oil heating systems are replaced by heat pumps by 2030.</p> <p>Heating demands have been reduced by 30% in at least 40% of all buildings by 2030 and at least 80% of all buildings by 2050.</p> <p>40% of natural gas space and hot water heating systems are replaced by renewable energy systems by 2030 and 100% by 2050.</p>	B2. Accelerate efficiency and renewable energy upgrades in existing buildings
 <p>Sufficient renewable energy sources are available to support required conversions from fossil fuel systems.</p>	B3. Increase energy resilience and renewable energy supply
 <p>Buildings and infrastructure are designed or retrofitted for changing climate conditions, support ecological functions and reduce exposure to climate hazards.</p>	B4. Transition towards a climate-ready building stock B5. Increase the resilience of Saanich's infrastructure and assets
 <p>Land use and development patterns minimize exposure to sea-level rise.</p>	B6. Prepare for long-term sea-level rise

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- 131 actions & 5 monitoring and evaluation actions
- 72 actions identified for 2020
- Approximately half of the 2020 actions are either achieved or on-track
- Approximately half of the 2020 actions are behind schedule or on-hold
 - Impacts of COVID 19
 - Additional funding and/or staff required

Ecosystems

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	LEAD DEPARTMENT	INITIATION TIMELINE
Strategy E1: Enable natural systems to thrive and adapt					
E1.1	Double the rate of planting trees to enhance the urban forest	●	●	Parks, Recreation and Community Services	2020
E1.2	Increase stewardship tools for private land owners		●	Planning	2020
E1.3	Implement "Natural Intelligence" parks program		●	Parks, Recreation and Community Services	Underway
E1.4	Develop an operational approach to tree retention and replacement during development	●	●	Planning	2020
E1.5	Protect and expand the urban forest	●	●	Parks, Recreation and Community Services	2020
E1.6	Develop and implement a Biodiversity Conservation Strategy		●	Planning/ Parks, Recreation and Community Services	2020-2022
E1.7	Expand, connect and restore natural areas		●	Parks, Recreation and Community Services/Planning	2021-2022
E1.8	Partner with school districts on environmental education	●	●	Parks, Recreation and Community Services/Planning	Underway
E1.9	Explore carbon dioxide removal measures with partners		●	Planning	2020
E1.10	Prevent planting and spread of invasive plants		●	Parks, Recreation and Community Services/Planning	2021-2022
E1.11	Improve monitoring of ecosystem health		●	Planning	2022-2024

5 Plan Implementation & Monitoring

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2020 Climate Plan: Progress to date

Action	Status	Comments	
Monitoring & Evaluation			
M&E 1	Publish an annual “report card” on the progress of actions, and include updated actions in response to changing conditions and progress towards targets.	On track	Report Card to Council Q1 2021. Joined Global Covenant of Mayors and submitted CDP report for 2020.
Buildings and Infrastructure			
B6.1	Complete sea-level rise mapping	Achieved	CRD Flood Inundation Mapping completed. Next steps TBD.
Ecosystems			
E1.6	Develop and implement a Biodiversity Conservation Strategy	On Track	Resilient Saanich: Environmental Policy Framework underway.
E1.9	Explore carbon dioxide removal measures with partners	On Track	Forest carbon sequestration region project (PICS, CRD, NRCan).
Community Wellbeing			
C1.1	Retrofit municipal facilities to provide cooling and air filtration capabilities	On Track	Retro-commissioning GHRC. Grant applications.
C2.6	Develop an equity tool	On Track	UBC Scholar energy poverty project.
C1.4	Update Wildfire Protection Plan and Interface Fire Hazard Development Permit Area	Ahead	Fieldwork underway, project completion expected Spring 2021.
Leadership in District Operations			
L1.5	Develop a risk register and monitoring platform	On Track	Corporate Enterprise Risk Management Framework drafted. Resources required for risk register platform.

Recognition for the Saanich Climate Plan

- Silver Award for Excellence in Policy Planning from Planning Institute of BC (PIBC)
- Climate and Energy Action Award winner from the Community Energy Association (CEA)



A young boy and girl are shown in profile, looking down at something they are working on together. The boy is on the left, and the girl is on the right. They appear to be outdoors, with trees and foliage visible in the background. The image is slightly faded and serves as a background for the text.

Thank you!

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