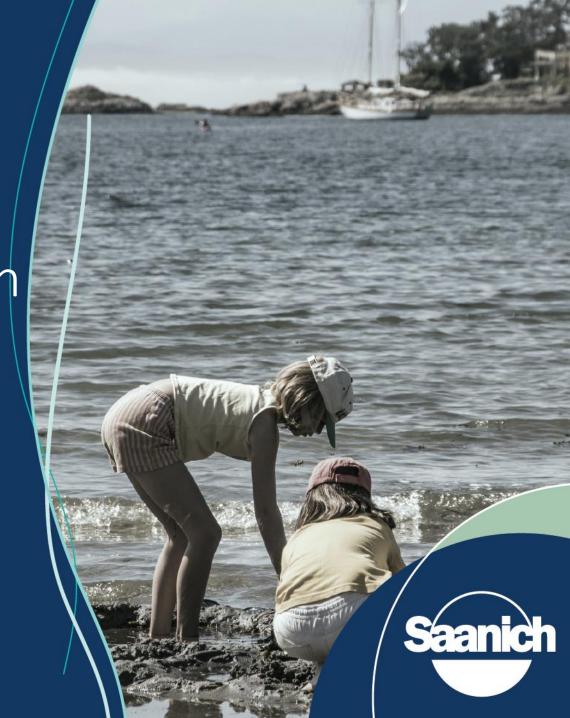
Climate Plan: 100% Renewable & Resilient Saanich

Council Check-in

District of Saanich Council
3 December 2018



PURPOSE

Provide Council with an update on the first three stages of the updated Climate Plan: 100% Renewable & Resilient Saanich and the first of three phases of engagement.





UPDATED CLIMATE PLAN



- Become a 100% Renewable Energy Community by 2050
- Reduce our GHG emissions by 80% of 2007 Levels by 2050
- Prepare for a Changing Climate

Endorsed Terms of Reference

TIMELINE

Engagement

PHASE 1 Project Initiation & Baseline

Fall/Winter 2017

PHASE 2

Exploring Options

Spring/Summer 2018

Engagement

PHASE 3 Scenario & Option Analysis

Fall/Winter 2018

Engagement

PHASE 4 Review & Refine

Spring/Summer 2019

PHASE 5 Plan Adoption

Summer/Fall 2019

PHASE 6 Implementation

Ongoing

0 "

Council Check-In

Council Check-In

We are here

Council Report



APPROACH

- Integration of Mitigation and Adaptation
- Expansion to Consumption Based Emissions
- Recognition of the District's Role

REDUCE

REDUCE - We will reduce our energy and material consumption and our waste generation through conservation, efficiency, and redesign.

RENEWABLE

RENEWABLE - We will shift to renewable energy sources to power our remaining energy needs.

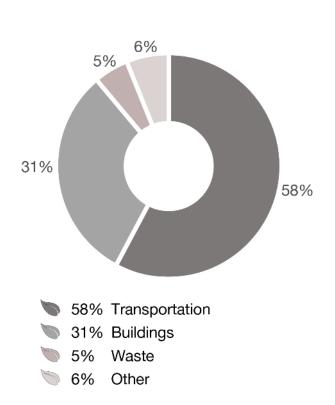
RESILIENT

RESILIENT - We will design a responsive community that is prepared for a changing climate.

THE IMPORTANCE OF WHAT WE MEASURE

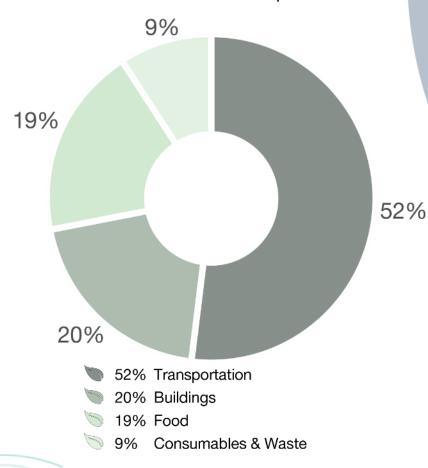
2017 Territorial GHG Inventory

=512,901 tonnes carbon =4.8 tonnes carbon/person



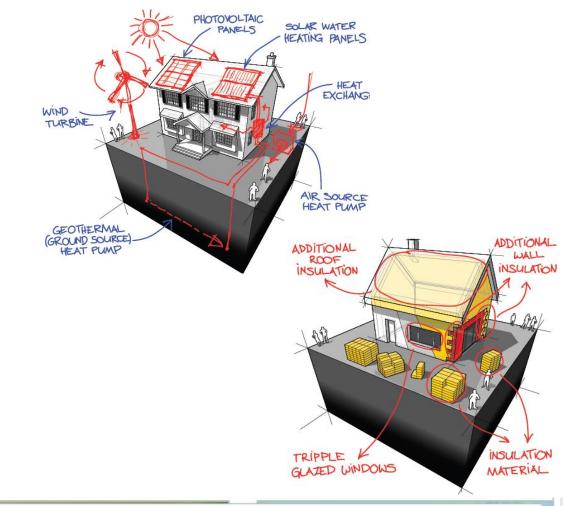
2015 Consumption Based GHG Inventory

=881,000 tonnes carbon =7.7 tonnes carbon/person



ACTION AREAS

- 1. Transportation
- 2. Buildings
- 3. Consumption & Waste
- 4. Food & Agriculture
- 5. Climate Adaptation
- 6. Leading By Example



SAANICH ALREADY USES RENEWABLE ENERGY AND OUR GRID ELECTRICITY IS CURRENTLY 97% RENEWABLE







SUPPORTING PROJECTS

ICLEI: Together for Climate



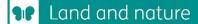


One Planet Saanich





😕 Culture and community







🚲 Travel and transport

Materials and products

Zero waste

Zero carbon energy











PROJECT PROGRESS

PHASE 1: Project Initiation & Baseline - COMPLETE

- Reviewed climate change projections for Saanich
- Reviewed existing strategies and actions
- Best practice research on similar climate plans, strategies and actions
- Consultant hired
- Baseline Community GHG Inventory completed
- Energy Model developed & BAU scenario completed
- Engagement materials developed

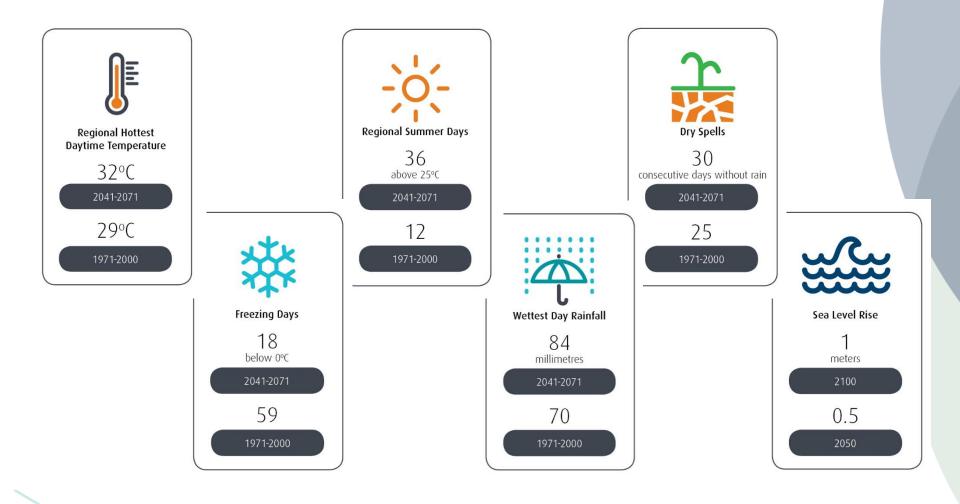
PROJECT PROGRESS

PHASE 2: Explore Options – COMPLETE

- Develop Systems Framework and Key Themes
- Identification of actions for reducing GHG emissions
- Draft 80% GHG emissions reduction and 100% renewable scenario developed based upon early identified actions
 - Completed based upon Key Stakeholder Mitigation Workshop and early Survey responses in preparation for the public workshops
- Identification of Risk and Impact Statements for climate adaptation



LOCAL CLIMATE CHANGE PROJECTIONS

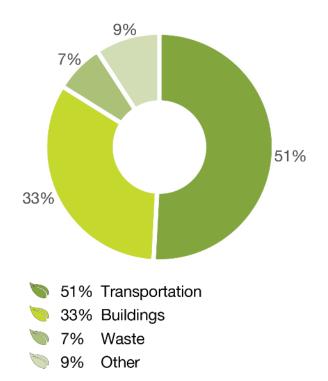


Source: Climate Projections for the Capital Region (2017, CRD)

COMMUNITY GHG INVENTORY

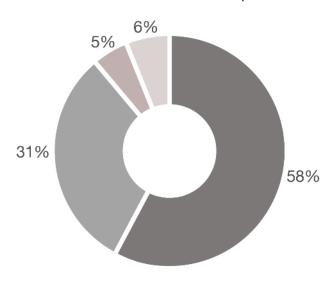
2007 Baseline Territorial GHG Inventory

=495,384 tonnes carbon =4.4 tonnes carbon/person



2017 Territorial GHG Inventory

=512,901 tonnes carbon =4.8 tonnes carbon/person



58% Transportation

uildings 31% Buildings

5% Waste

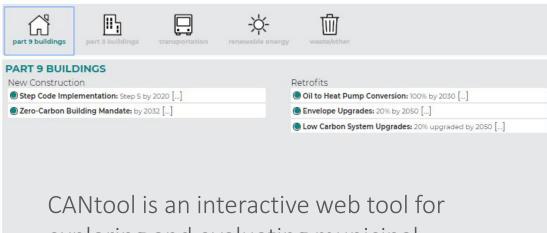
6% Other

CLIMATE ACTION NAVIGATOR (CAN) TOOL

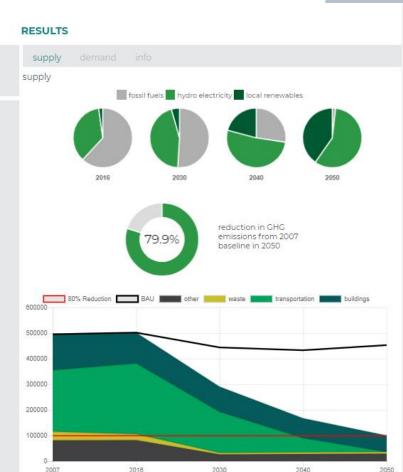
District of Saanich CANtool | Climate Action Navigator



CHOOSE STRATEGIES

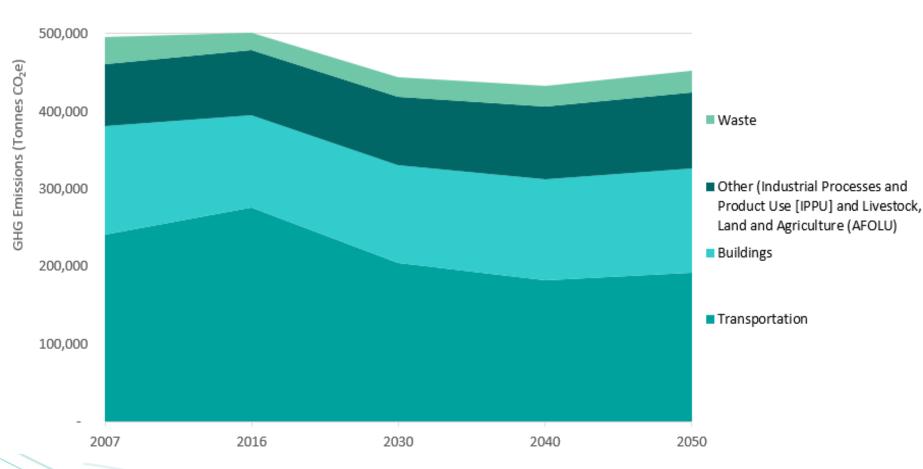


CANtool is an interactive web tool for exploring and evaluating municipal climate action scenarios.



BAU PROJECTION SCENARIO





USE OF THE CAN TOOL - STRATEGIES

Emission reduction strategies are defined for each sector and can be selected and adjusted by the user.







Houses + townhomes

Apartments + commercial buildings

Transportation



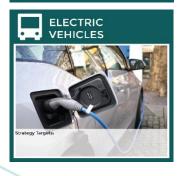


USE OF THE CAN TOOL - STRATEGIES

BUILDINGS







TRANSPORTATION



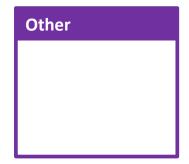




RENEWABLES





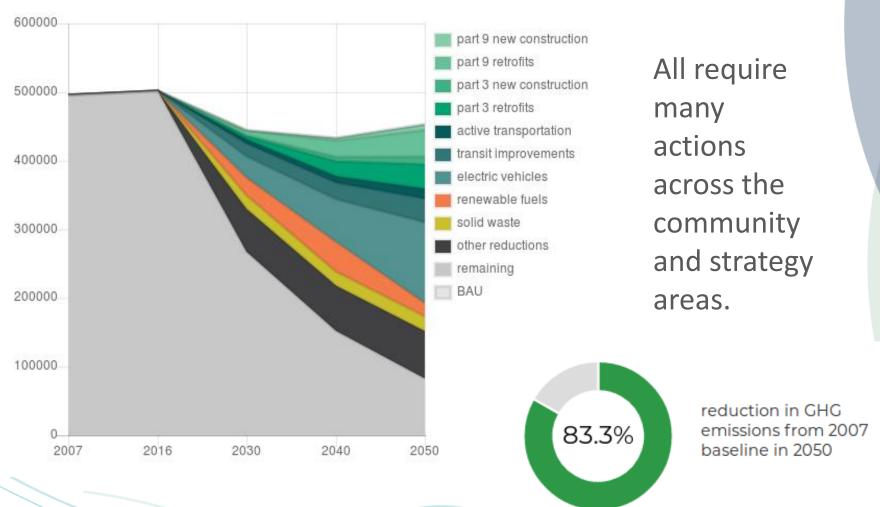


WASTE





MULTIPLE PATHWAYS TO TARGETS





ENGAGEMENT STRATEGY

GOAL: Inform, consult, involve and collaborate

PROCESS: Internal working group, key stakeholder group, public

PHASE 1:

- Raise awareness of issues & baseline address vision, targets, definitions
- Translate how climate projections impact our community
- Receive input on key themes, issues, opportunities and potential actions

PHASE 2:

- Review of Scenarios & Modelling
- Develop strategies and actions and focus on co-benefits
- Input to Draft Action Plan

PHASE 3:

Review of Draft Climate Plan



PHASE 1 ENGAGEMENT - APPROACH

- Project Website
- Climate Plan Backgrounder
- Saanich Talks Event
- Survey
- Prize Draw
- E-newsletter
- Media and advertising
- Festivals and events

- Recreation centre and facility displays
- Engagement onboard transit buses
- One-on-one meetings and phone calls
- Public and key stakeholder workshops and open houses
- Project technical working group
- Integration with LAPs

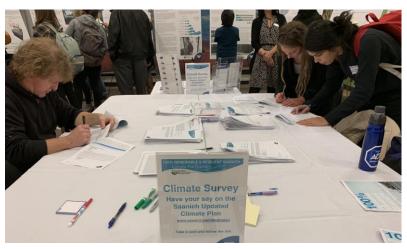


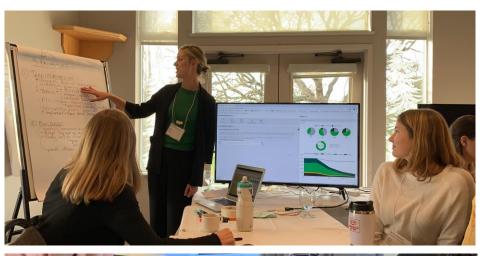


PHASE 1 ENGAGEMENT - EVENTS

Engagement	#
# Key Engagement Events	28
# people actively engaged in Phase 1 climate discussions at the Key Engagement events (excludes public open houses & workshops)	Over 1500
# members signed up to the Climate E-Newsletter	762
# comments/stickies on engagement boards at events	611
# surveys completed	938
# attendees at the Stakeholder Mitigation Workshop	66
# attendees at public open houses	190
# attendees at pubic workshops	161
# attendees at the Stakeholder Climate Adaptation Workshop	TBD
# attendees at the School Climate Mitigation Workshop	TBD

STAKEHOLDER & PUBLIC WORKSHOPS





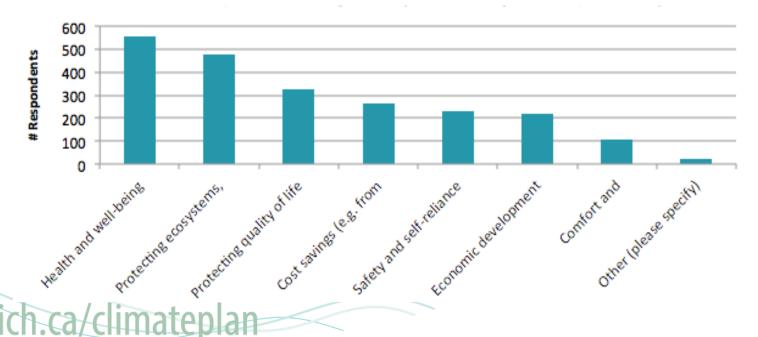




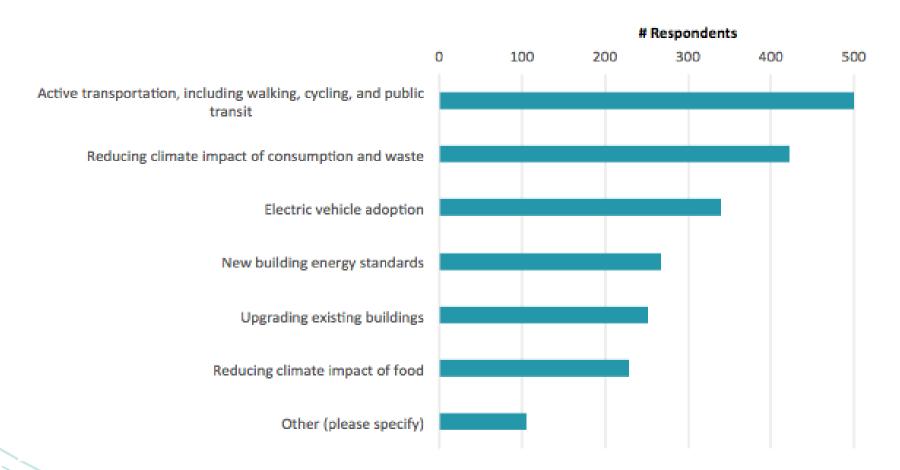
EARLY FEEDBACK

- Diverse representation of age groups and income levels
- Diverse representation of subject matter experts in stakeholder events
- 93% respondents very/somewhat important Saanich act on Climate Change
- 94% respondents taking a little/lot of action to reduce their own GHGs

Most Important Co-benefits of Acting on Climate Change

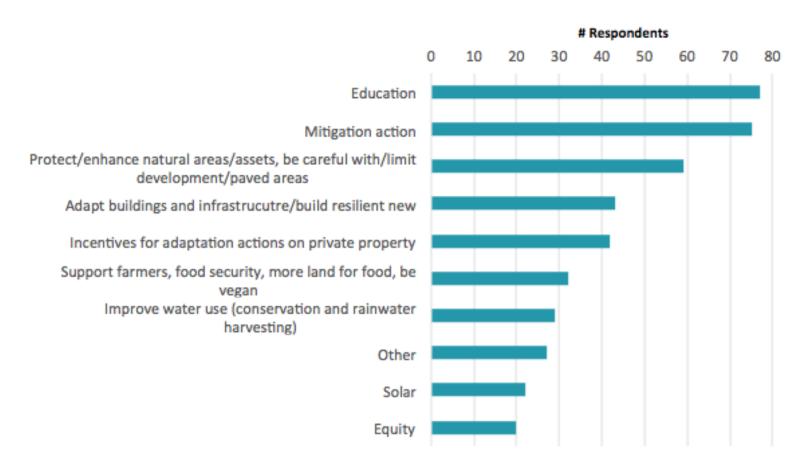


Climate Mitigation Action Areas Respondents want Saanich to Prioritize



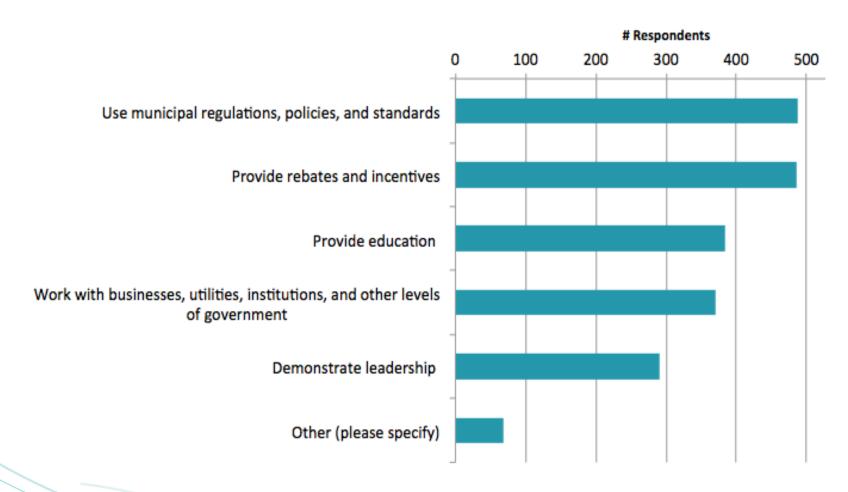


Climate Adaptation Action Areas Respondents want Saanich to Help with



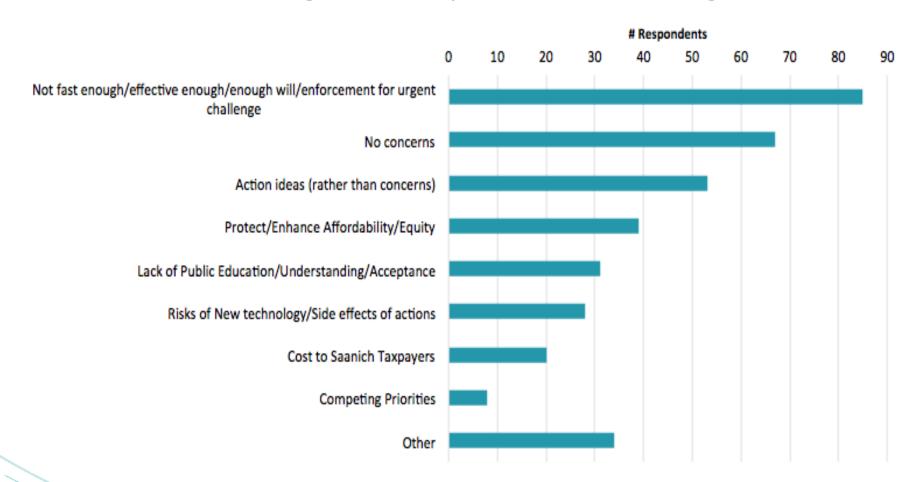


Approaches Respondents would like Saanich to Prioritize





Concerns about reducing Community GHGs & transitioning to Renewables





USE OF ENGAGEMENT FEEDBACK

- Detailed survey & workshop questions beyond those above
- Mitigation provided indication of barriers, opportunities and support for specific action areas and approaches
- Adaptation providing input to risk and vulnerability assessment and early ideas on action areas
- Review of input → used to develop 80% GHG emission reduction and 100% Renewable scenario(s) & adaptation actions





NEXT STEPS

PHASE 3: Scenario Options and Analysis

December – February 2019

- Complete Phase 1 engagement
- Further analysis/modelling of scenarios & actions technical review
- Integration of Climate Mitigation and Adaptation (+ co-benefits)

Phase 2 PUBLIC ENGAGEMENT - March - April 2019

On draft actions and scenario(s), prioritization

PHASE 4: Review & Refine

Spring/summer 2019

Draft Plan based on feedback

Council Check-in



Questions?