

**Municipality of North Cowichan
Environmental Advisory Committee
AGENDA**

Tuesday, May 4, 2021, 1:30 p.m.
Electronically

Pages

1. CALL TO ORDER

This meeting, though electronic, is open to the public and all representations to the Environmental Advisory Committee form part of the public record. At this time, due to the COVID-19 Pandemic, public access to meeting rooms at North Cowichan Municipal Hall is not permitted, however, this meeting may be viewed on the District's live stream webcast at www.northcowichan.ca/meetings.

2. APPROVAL OF AGENDA

Recommendation:

That the Committee approve the agenda as circulated [or as amended].

3. ADOPTION OF MINUTES

2 - 3

Recommendation:

That the Committee adopt the minutes of the meeting held April 20, 2021.

4. BUSINESS

4.1. CAEP Actions - Sorting, Prioritization and Responsibility Process - Part 2

4 - 10

Purpose: To assign a "Now, Next, and Later" priority to each of the more significant actions that were identified at the April 20, 2021 meeting. To be facilitated by Dr. Gordon McIntosh.

5. NEW BUSINESS

6. ADJOURNMENT

Municipality of North Cowichan Environmental Advisory Committee MINUTES

April 20, 2021, 1:30 p.m.
Electronically

Members Present	Councillor Kate Marsh, Chair Neil Anderson Cam Campbell Bruce Coates David Coulson Per Dahlstrom Dr. Jana Kotaska Sandra McPherson Dr. Jesse Patterson Dr. Geoffrey Strong Dr. Shannon Waters
Members Absent	Ashley Muckle
Staff Present	David Conway, Director, Engineering Projects Dave Preikshot, Senior Environmental Specialist Shaun Chadburn, Environmental Programs Coordinator Sarah Grieves, Engineering Technologist - Environmental Programs Tricia Mayea, Deputy Corporate Officer
Others Present	Dr. Gordon McIntosh, Facilitator Jeremy Murphy, SSG Consultant

1. CALL TO ORDER

There being a quorum present, the Chair called the meeting to order at 1:30 p.m.

Dave Preikshot, Senior Environmental Specialist introduced Sarah Grieves, the District's new Engineering Technologist – Environmental Programs employee to the Committee.

2. APPROVAL OF AGENDA

It was moved and seconded:

That the Committee approve the agenda as circulated.

CARRIED

3. ADOPTION OF MINUTES

It was moved and seconded:

That the Committee adopt the minutes of the meeting held March 16, 2021.

CARRIED

4. BUSINESS

Dr. Gordon McIntosh facilitated the business items of this meeting.

4.1 Introduction from Dr. Gordon McIntosh, BPI Ice Breaker

The Committee members shared the results of the Behavioral Patterns Inventory exercise.

4.2 CAEP Actions - Sorting, Prioritization and Responsibility Process

The Committee reviewed the draft CAEP actions list and categorized the significance of each action by assigning a High, Medium or Low significance rating to each action/initiative.

5. NEW BUSINESS

None.

Bruce Coates and Dr. Jana Kotaska left the meeting at 4:38 p.m.

6. ADJOURNMENT

The meeting ended at 4:42 p.m.

Certified by Recording Secretary

Signed by Chair;

CAEP ACTIONS

Sorting, Prioritization & Responsibility Process

PURPOSE

To review the current CAEP and recommend a prioritized implementation action program to Council that maximizes the community's contribution to GHG reduction (& co-benefits) consistent with District and community capacity

PROCESS

April 20 – SORTING

1. Working Together
2. Overview of process
3. Review proposed SORTING criteria
4. Assess significance of EACH action

May 4 – PRIORITIZING

1. Review April 20 Outcomes
2. Review proposed PRIORITIZING criteria
3. Assess priority each HIGH significance action
4. Identify potential leadership role(s)
5. Confirm recommendations to Council

PRODUCT

- **Report to council** – process & rationale for recommendations with a NOW implementation program

PEOPLE

- **Committee** – reflect community interests using agreed upon criteria
- **Staff** – provide technical information and implementation implications
- **Facilitator & Chair** – achieve aims while hearing all views

CAEP ACTIONS

Sorting, Prioritization & Responsibility Criteria

DRAFT for Committee Discussion & Confirmation

SORTING - Significance – High, Medium & Low	
1. GHG Reduction	
2. Urgency	<i>Current threat or unique opportunity</i>
3. Environmental Co-benefits	<i>Habitat protection, air/water/soil quality</i>
4. Community Co-Benefits	<i>Livability, aesthetics, active lifestyles, smart growth</i>
5. Organizational Co-benefits	<i>Cost savings, efficiency, leadership</i>
6. Cost/Benefit	<i>Low cost/high impact</i>
7. OCP	<i>Land Use, Transportation.....</i>
PRIORITIZING – NOW, Next & Later for High Significance Actions first	
1. Available Funding	<i>Exists, possible & difficult – District/Other Source</i>
2. Staff Work Program	<i>Doable, requires change & difficult - Time/Expertise</i>
3. Legislative Authority	<i>Within Mandate to requires senior government authority</i>
4. Technological Capacity	<i>Exists, early stages & unknown</i>
5. Community Support	<i>Invisible/readiness to major behaviour change required</i>
6. Partner Readiness	<i>Exists, potential to unknown - Government, NPO & Business</i>
LEADERSHIP/RESPSONBILITY	
1. District	<i>Direct, Enabling Others or Advocacy</i>
2. Other Government	<i>First Nation, Regional District, Province or Federal</i>
3. Non-Profit Sector	<i>Community Group, Provincial or National Association</i>
4. Business Sector	<i>Chamber of Commerce to specific sectors</i>

CAEP ACTIONS

Sorting, Prioritization & Responsibility Chart

SIGN = Significance; PRIO = priority; RESP = Responsibility; & REC = Recommendation to Council

	ACTION from CAEP	SIG	PRI	RES	REC
1.	Land Use: Encourage and mandate infill development and multi-family homes, mixed-use developments. (Infill policy, density bonusing, zoning.) Suggested New Wording: Land Use: Focus development in existing communities.	High			
2.	Establish 'climate lens' for use in proposed development assessments and approvals processes.	High			
3.	Land Use: Infrastructure plans are subject to approval through a climate lens framework.	High			
4.	Land Use: Create a policy requiring all new development applications to include an energy plan demonstrating the energy use of the development, energy use intensity targets, thermal energy demand intensity targets, and energy efficiency characteristics.	High			
5.	Land Use: Develop tree canopy cover targets and annual tree planting program to achieve them.	High			
6.	Buildings – General: Develop, adopt, and apply a standard for net-zero and climate resilient new construction. This may be done through the rezoning application process and Energy Conservation DPAs.	Med			
7.	Require that combustion energy supply and combustion-based appliances are disallowed in new buildings (certain exceptions may apply for commercial and industrial applications) via bylaw.	High			
8.	Buildings – General: Implement a PACE program to finance/deliver building retrofits for different sectors/building type retrofits including heat pumps and solar PV.	High			
9.	That Council endorse the "Help Cities Lead" Campaign	High			
10.	Housing: Develop a retrofit program to enable and fast-track deep energy and climate resilience retrofits in residential buildings (including heat pump installations).	High			
11.	ICI and Municipal Buildings: Develop a retrofit program to enable and fast-track deep energy and climate resilience retrofits in non-residential buildings (including heat pump installations).	Med- Low			
12.	ICI and Municipal Buildings: Develop a by-law requiring green roofs on new large buildings.	High			

13.	ICI and Municipal Buildings: Develop an industrial coalition and support program for improving industrial process efficiency.	High			
14.	ICI and Municipal Buildings: Create a retrofit policy and timeline on municipal building retrofit schedule.	Med-Low			
15.	Transportation: EV bulk purchase and incentive programs.	High - Med			
16.	Transportation: Coordinate with the province on EV purchase and incentive programs.	High – Med			
17.	Transportation: EV charging equipment bulk purchase/installation and incentive programs.	High – Med			
18.	Suggested New Wording: Transportation: Advocate for BC Transit target of 100% Zero-emissions (Electric, Hydrogen etc.) by 2030.	Low			
19.	Transportation: Advocate for BC Transit to make more effective local transit system	Low			
20.	Transportation: Advocate for BC Transit to make more effective more effective/efficient interregional transit system	Med			
21.	Transportation: All municipal vehicles are required to be zero emissions by 2030. Implement through facilities management plan.	High			
22.	Transportation: Require all new developments to provide 100% of parking stalls with fast EV charging equipment (zoning bylaw update). Suggested New Wording: Create an EV Ready Development Policy for Residential (Single and Multifamily Dwellings) and Commercial Developments.	High			
23.	Transportation: Install fee-based EV charging stations at civic locations.	(Split from Original action) EAC to Rank on May 4th			
24.	Transportation: Partner with businesses in providing EV charging stations.	(Split from Original action) EAC to Rank on May 4th			
25.	Transportation: Increase transit mode share (ie. ridership) through mode share - As per other transit actions.	Med			
26.	Transportation: Increase active transportation mode share: As per other transit actions. Include: revise street standard bylaws to complete streets standards that accommodate walking and cycling infrastructure (e.g. pathways and bike racks).	Med			

27.	Energy Production: Require all new buildings to have solar PV installations that supply 50% of the buildings' electric load. Use Energy Conservation DPA.	Low/Medium			
28.	Energy Production: Require 80% of existing buildings to have solar PV installations that supply 50% of the buildings' electric load.	Low/Medium			
29.	Energy Production: Require that all buildings using natural gas applications use renewable gas if they are unable to use electric systems. Heat pumps are the preferred space/water heating system.	High / More information & discussion needed			
30.	Energy Production: Require all new buildings built from 2022 onward to be energy storage ready. Install zero-emissions back-up power in critical infrastructure.	Low - Med			
31.	Energy Production: Partner with a regional renewable energy cooperative capable of deploying renewable energy systems to buildings.	Low - High			
32.	Energy Production: Determine the best approach to supplying thermal energy to high heat demand buildings through a DE system.	H/ More information & discussion needed			
33.	Energy Production: Follow the Province's lead on hydrogen adoption to supplant natural gas use, preferring its use in natural gas lines when it becomes available and encouraging it for use in industrial processes.	? More information & discussion needed			
34.	Solid Waste and Wastewater: Require end-of-life replacement of potable water system pump equipment with models that are 50% more energy efficient.	Low			
35.	Solid Waste and Wastewater: Implement water fixture efficiency specifications in building codes for new construction. Implement education and incentive programs for water fixture replacement and decreased water use.	High , but not for GHG's			
36.	Solid Waste and Wastewater: Improve solid waste diversion collection services. Impose maximums on the number of garbage bags per household and volumes/tonnages for ICI buildings. Implement a program to collect organic waste from multi-family, commercial, industrial, and institutional buildings. Work with businesses and incent zero waste options for local shopping.	Low			

37.	Solid Waste and Wastewater: Install anaerobic digestion facilities for wastewater treatment and biogas capture for use as renewable natural gas.	Low GHG reduction potential High environmental co-benefits			
38.	Carbon Sequestration: Establish annual tree planting targets to substantially increase tree count.	High			
39.	Update the MFR management strategy with carbon sequestration annual targets and best practices.	High			
40.	Municipal Operations: Use the City's fair share carbon budget as a guide for decision-making, aiming to make all community operations carbon neutral by 2030.	High			
41.	Municipal Operations: Integrate climate into financial decision-making by incorporating climate-related financial disclosure; a cost of carbon and a social cost of carbon; a municipal carbon budget; and a climate lens to capital and business planning and asset management.	High			
42.	Municipal Operations: Develop and implement an energy and emissions inventory tracking tool. Use the tool in annual inventory updating and reporting.	High			
43.	Municipal Operations: Monitor provincial, national, and international climate change scientific publications and agreements in order to update emissions reduction target (and associated energy and emissions inventories and models) every 5 years or less.	High			
44.	Municipal Operations: Explore and establish new mechanisms for financing climate action (e.g. update the revolving loan fund).	High			
45.	EAC Suggestion From April 4, 2021: Agriculture - Regeneration and carbon sequestration	EAC to Rank on May 4th			
46.	EAC Suggestion From April 4, 2021: Industrial actions to reduce energy and GHG production	EAC to Rank on May 4th			
47.	EAC Suggestion From April 4, 2021: Promote utilization of wood fibre in construction	EAC to Rank on May 4th			
48.	EAC Suggestion From April 4, 2021: Energy Re-capture	EAC to Rank on May 4th			

49.	EAC Suggestion From April 4, 2021: Advocate to CVRD for Regional Gas Tax similar to CRD	EAC to Rank on May 4th			
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