CLIMATE LEADERSHIP SYMPOSIUM

Public Sector and Local Government Action

Driving Change: Capital Regional District's Low-Carbon Mobility Initiatives

October 18, 2023 Nikki Elliott, Manager of Climate Action Programs Capital Regional District



About

- 237,000 ha.
- 70 Islands
- 13 Member Municipalities
- 3 Electoral Areas
- Population 439,950
- 20 Traditional Territories
- 11 First Nations with Reserves

CRD Climate Action Service

Local government support	Partnersh progra	nips and ams	Data and	indicators	
Provincial lia Board advoca	aison and acy support	Corporate climate leadership		 ✓ CRD staff ✓ Local Govt ✓ Elected off ✓ Utilities 	staff cials
Established 2009, Bylaw No. 351	10			 ✓ Regional ins ✓ Non-profit a ✓ Businesses ✓ Provincial & govt. ✓ Residents 	stitutions agencies a federal

CCD

Climate Action Strategy

Climate Action Strategy Taking Action on the Climate Emergency

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Reduce corporate GHG emissions 45% by 2030 based on 2007 levels, and reach net-zero GHG emissions before 2050.



Reduce regional greenhouse gas

(GHG) emissions 61% by 2038

based on 2007 levels (as per

2018 Regional Growth Strategy).

Decisions





Land



Ecosystems



Mobility



Waste



Low-Carbon Mobility





Goal 3: Rapidly reduce corporate fleet emissions. Support, endorse and encourage active, public and zero-emission transportation options.

CRD's Current Role:

- CRD fleet
- Regional trail system
- Public charging
- Regional planning & policy support
- Electoral Area transportation
- Advisor on transit
- Data management
- Community programs

What are we up to?



E-Mobility at the CRD





E-Bikes in CRD Fleet





Corporate EV Transition Progress 2023



- Piloted hydrogen and EV
- 41 total PHEV and EVs
 - o 8 PHEV (6 in service, 2 on order)
 - 33 EVs (18 in service, 11 in road prep, 4 on-order) Expect to have the road prep EVs in service by end of Nov.
 - 6 more EVs will be on order by end of October.
- Challenges:
 - Supply chain delays
 - Increased costs to services
 - Charging at multiple locations
- Opportunities:
 - Fleet rightsizing
 - Academic partnerships
 - o Industry capacity building
 - Grants, grants and more grants!

CRD Corporate EV Chargers:

• 48 to date

Corporate Green Fleet Policy



Corporate Green Fleet Policy

Lifecycle Costing	 Considers the purchase price, fuel consumption, maintenance, and other costs over the expected life of the vehicle (using the Fleet Procurement Analysis Tool from Atlas Public Policy)
Rightsizing	 Proactive, strategic planning Optimizes fleet size to have the right number of the right vehicles Minimizes unused and overused assets and unnecessary expenditures
Low-Emission Fuel Hierarchy	 Zero-Emission i.e., Electric Plug-in Hybrid Regenerative Hybrid Internal Combustion (gas) Engine
Carbon Pricing	 Quantifies the benefits of reducing emissions \$170/tonne CO₂e, based on the CRD Carbon Price Policy
10% Cost Variance	 Decision-making parameter to emphasize consider analysis uncertainties while prioritizing low-carbon choices The low-carbon option is selected if the net-present value life-cycle cost is within 10% of the alternative

Green Fleet Policy Example (SUV)

Hyundai KONA (gas) Hyundai KONA Electric





CLS

MSRP \$	\$	22 000	45 000	
Incentives	\$	-	8000	
Fuel/Electricity	\$	7300	1100	
Maintenance	\$	3700	1800	
Resale value	\$	5000	14000	
Total NPV	\$	35 500	32 300	
Annual CO2e Emissions	kg	1 400	70	

Capital Region EV Infrastructure Roadmap



Coordinate & Invest

- Pursue regional infrastructure funding
- Support planning and coordination on site selection
- Engage with BC Hydro on infrastructure planning

Educate

- Act as a central resource to support capacity building and education of potential:
 - EV drivers
 - Infrastructure builders and site hosts
 - Engineers, electricians and other trades

Track

- Track and share EV charging infrastructure data
- Support future siting and design decisions and improve user experience

EV Charging – Policy and Technical Guidance

Capital Region Local Government Electric Vehicle (EV) + Electric Bike (E-Bike) Infrastructure Planning Guide



Prepared by: WATT Consulting Group Prepared for: Capital Regional District November 2018

Electric Vehicle Infrastructure Roadmap Transportation electrification for a connected region Prepard re: Catal Regional Dates

March 22, 2021

Odunsky





Public EV Charging – Infrastructure



- Partnerships & municipal collaboration
- Core funding to build out regional network
 - Provincial and Federal grants applications!
- CRD Public Level 2 chargers @ sites
- BC Hydro EV Charger MOU
 - DCFC site support
 - Charging pilots





cléanBC our nature. our power. our future.



Community Outreach & Education





Questions?

Connect with us! Nelliott@crd.bc.ca climateaction@crd.bc.ca

