

City of Nanaimo

Options to creating a local, low carbon economy



Resilient Communities, Healthy Planet.
Cowichan Energy Alternatives Society

Our current ecosystem





Cowichan Energy Alternatives Society

What drives us?

Vision: *“Resilient Communities, Healthy Planet”*

Purpose: *To empower people to adopt sustainable practices that support resilient communities and a healthy planet.*

- We work to champion renewable energies and sustainable practices that grow local, low-carbon economies.
- We pioneer local solutions through our programs, projects and services that can be replicated in communities throughout BC.

Motto: Lead by Example. **Advocate by Doing.** Be the Change.



BC Climate Targets

City of Nanaimo

- Reduce 2007 emissions by 3% by 2020
- Reduce 2007 emissions by 39% by 2050

City of Victoria

- 100 percent renewable energy by 2050
- Reduce our greenhouse gas emissions by 80% over 2007

City of Vancouver

- 2020 Targets: Reduce community-based greenhouse gas emissions by 33% from 2007 levels
- 2050 Targets: Reduce greenhouse gas emissions 80%



Climate Emergency: City of Nanaimo

City of Nanaimo declared a climate emergency and announced steps in place to protect its economy, eco systems and community.

Relevant steps included were:

- The creation of a reserve fund used to support projects, plans and initiatives that reduce the City's CO2 emissions
- An update to the City's Community Sustainability Action Plan, including the framework, strategies, actions and implementation.

Community Carbon Marketplace

The CCM is an online exchange to buy and sell community carbon credits generated from a wide range of greenhouse gas (GHG) emission reduction projects.

Projects include: Petroleum fuel switching to biofuels & electric vehicles, diverting organics from landfill, building retrofits, etc.

CCM Achievements:

- ~10,000 tonnes CO₂e reduced through CCM
- 10 local government have utilized CCM
- UBCM Climate Action Award winner with City of Duncan
- Studied in France as a model for incentivising community emissions reductions



SOLAR POWER



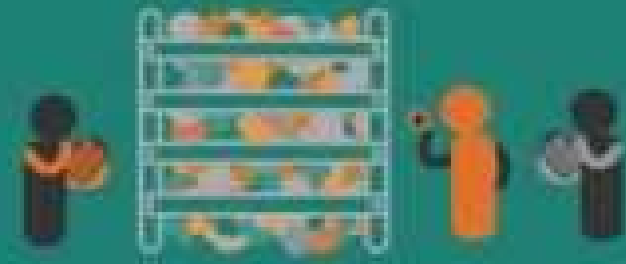
REDUCE ENERGY USE



BIOFUEL



COMPOST



Carbon-Neutral Governments that have used the Community Carbon Marketplace model



Green & Go Low Carbon Fuel Station



Pilot Green & Go™ in The City of Nanaimo

- Providing convenient, reliable access to low-carbon fuel alternatives
- Potential for creating Vancouver Island's first available biodiesel, ethanol and EV charging station
- Opportunity to significantly decrease local government emissions and community emissions



Climate action through community empowerment: *Community Carbon Smart Program*

The Community Carbon Smart Program is the foundation of what CEA's mission is in our community.

- ▶ Inter-related services that create a close loop system of waste reduction, education and alternative energy solutions.
- ▶ CCS maps out how community members/individuals can mitigate climate change at a local level.
- ▶ Empower individuals to make change in their communities.
- ▶ Inventory and map of community, low carbon amenities

