

DELEGATION REQUEST

Name of person speaking: David Mills

Organization you are representing: CarbonSense

Primary purpose of the organization: Seeking letter of support for an incentives-based pilot program which proactively encourages residential electrification.

Number of members: 1

Mailing address:

4695 Kilmarnock Drive
Union Bay, BC V9N 9S7

Contact name: David Mills

Subject matter: CarbonSense is seeking federal funding to launch a novel residential electrification incentive program based on the procurement and sale of aggregated offsets generated by people when they voluntarily decarbonize. If in the near term we are successful in generating and retailing carbon offsets on behalf of households, it will be a North American, if not world first.

CarbonSense has an office in the Comox Valley and has chosen the Comox Valley as one of our pilot locations due to a local government culture that encourages electrification. Our program generates an incentive for people funded by the private sector through the sale of offsets. There is no cost to the taxpayer. CarbonSense has secured the interest of a large institutional investor willing to purchase carbon offsets.

By issuing a letter of support for this initiative the CVRD is providing encouragement for this project to proceed. A letter of support would also send the signal that the CVRD welcomes the development of new clean economy businesses that stimulate job creation and are complimentary to local emissions-reductions objectives.

Specific request of the regional district, if any (i.e. letter of support, funding):

- Letter of support from the Committee of the Whole
- 1/2 hour of staff time to report on the uptake of the 2020 residential heat pump incentive program.
- 1 hour of staff time to assess whether the CVRD would like to be a co-applicant in a federal grant application to fund the pilot project, requesting additional funds from the federal government for the CVRD, with the express purpose of providing rebates to residential customers who replace gas heating systems with zero emissions electric heat pumps.
- An indication from staff and council as to whether or not the CVRD may embark on another round of rebates to encourage electrification in 2022.
- 1 hour of staff time to explore a proposal from CarbonSense to run a trial to see what combination of incentives and communication strategies motivate the greatest number of people to electrify.
- 1 hour of staff time to explore a proposal from CarbonSense to determine the precise number of gas-powered furnaces in the Comox Valley, and the average age of residential home-heating furnaces.

Requested meeting date: January 11, 2022

Audio-visual equipment needed: Slides only.

Electrify homes Decarbonize BC



CarbonSense Technologies - Jan 11, 2022

An aerial photograph of a mountainous region with dense green forests and a winding river valley. The image is darkened to serve as a background for white text.

Home heating 4.4MT

CO₂(e) emissions produced by residential buildings in B.C. in 2019

+ 1.3MT upstream = 8%

An aerial photograph of a lush, green forested landscape. A river flows through the center, with a waterfall visible on the left side. The terrain is rugged and mountainous, with dense vegetation covering most of the area. The sky is overcast, and the overall tone is somewhat muted and naturalistic.

Personal Transport 9.8MT

**Consumer decisions
= 21% of BC's emissions**

About CarbonSense

B.C.-based non-profit founded in 2021 with the mission to promote positive, voluntary climate actions in individuals and households. Our vision is a green, healthy society that thrives on a blend of public regulations and private financial instruments that reward good behaviour.

Learn more at www.carbonsense.ca

Dave Mills

8 years at B.C.'s most creative campaigning team at Dogwood BC. 20 years of exp across natural resource management and public service fields.

Lois Chan-Pedley

Technologist, mother, elected VSB Trustee, Founder at FrontMatter consulting.

Victoria Cross

Communications pro with 10+ years working in policy, technology, and sustainability. Founder at Two West Group, a full service public affairs agency.

David Oliver

Engineer, carbon monetization expert for human-based carbon offset projects.



Home Electrification Pilot

Showcasing an efficient elimination pathway for GHG's



CarbonSense aims to accelerate the **decarbonization of households** in British Columbia by providing direct **financial incentives** to individuals that switch **from gas to electric** products by aggregating and selling **carbon offsets**.

A large, grey, cylindrical outdoor HVAC unit with a metal grille is mounted on a concrete pad. It is positioned next to a brick wall. The unit has a flat top with a grid pattern. A grey pipe runs vertically along the brick wall to the right of the unit. The background shows green grass and trees.

1.

Switching from furnaces to heat pumps

Only 10% of homes in B.C. have heat pumps

1.85 million dwellings in B.C.

2.

Switching from gas to **induction stoves**



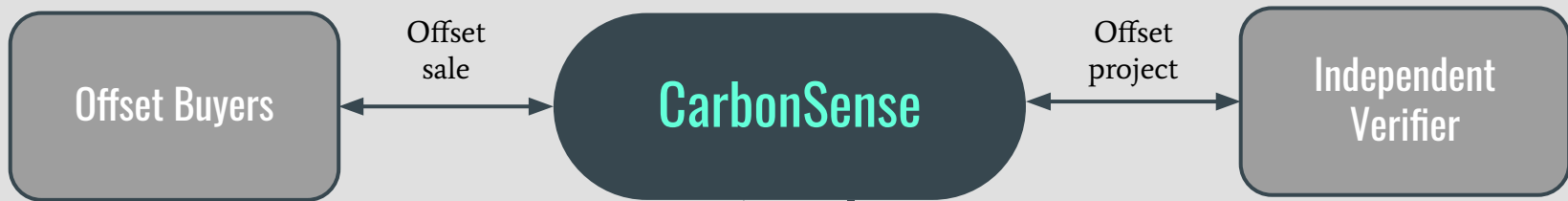
A young child with wet hair is sitting in a bathtub, drinking water from the faucet. A tabby cat is perched on the edge of the tub, looking at the child. The scene is set in a tiled bathroom.

3.

Switching to electric **water heating**

Home Electrification Offset Program

How does it work?



Proof of installation
Energy bills
Ownership transfer

75% Offset revenue

B.C. Households





Project Timeline

Partnership proposal - CVRD Sustainability

- Seeking a Letter of support from the Committee of the Whole to focus the home electrification pilot project in the Comox Valley.
- CarbonSense Identifies CVRD as a ‘non-funding’ partner’ partner in grant application. Lists staff consultation as a non-financial contribution to the project
- Work with staff to estimate volume of gas-powered appliances in the Comox Valley and estimate emissions before project
- Share precise appliance and emissions data at end of project
- Share quantitative and qualitative information about how incentives drive program participation

Thank you