



# The Habitat Protection Project

*"Encouraging individuals to participate in the rebalancing of nature, one habitat at a time."*

[www.habitatprotectionproject.org](http://www.habitatprotectionproject.org)



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# **DRAWDOWN**

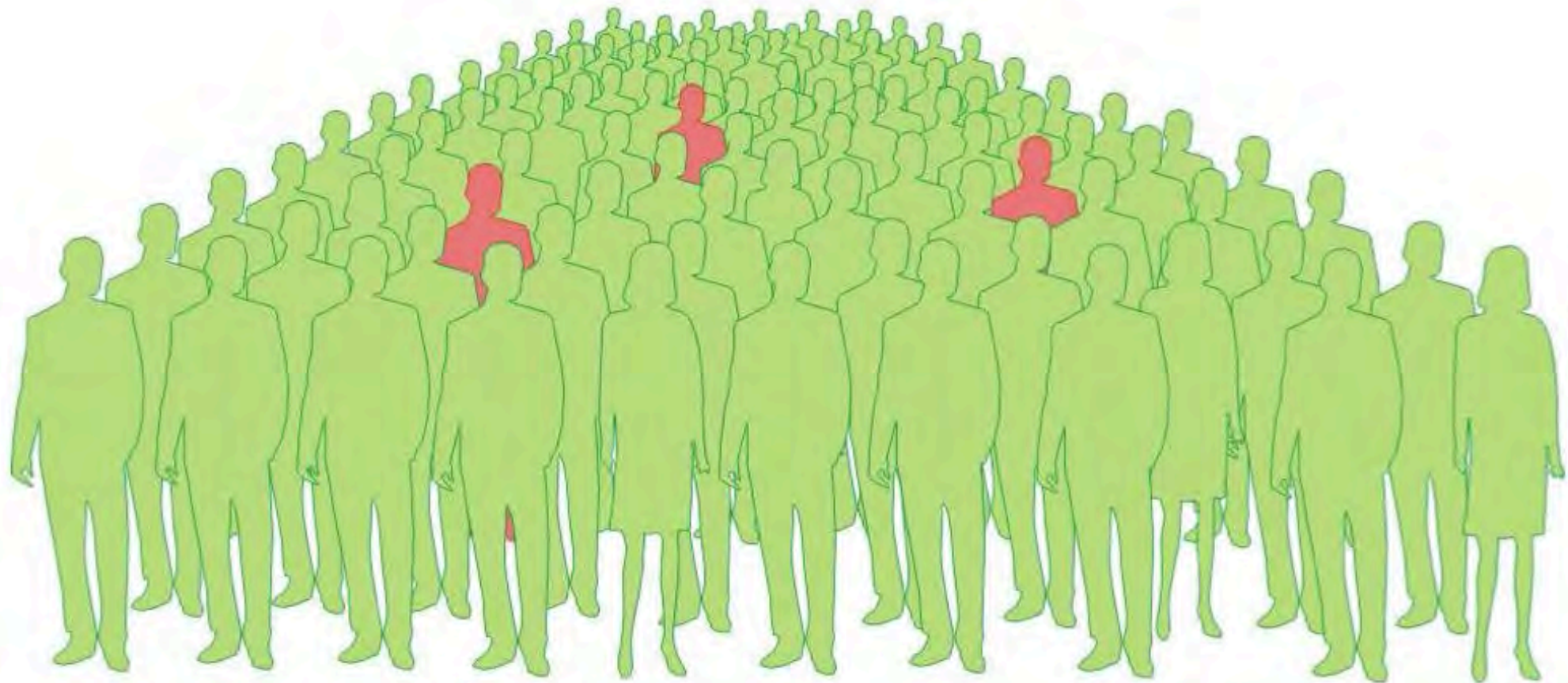
**THE MOST COMPREHENSIVE  
PLAN EVER PROPOSED TO  
REVERSE GLOBAL WARMING  
EDITED BY PAUL HAWKEN**





# Climate Change

97 out of 100 climate experts think humans are changing global temperature



# ACTIVITY #1    DRAWDOWN SOLUTIONS

- PLANT RICH DIET
- LED LIGHTING
- LOW-FLOW FIXTURES (KITCHEN & BATHROOM)
- INSULATION
- NET ZERO BUILDINGS
- HIGH EFFICIENCY HEAT PUMPS
- GREEN & COOL ROOFS
- DYNAMIC GLASS
- SOLAR
- COMPOSTING (COMMUNITY & HOUSEHOLD)
- BUILDING RETROFITTING

# MUNICIPAL ACTION – BUILDINGS AND CITIES

100 climate solutions modelled by Drawdown analysts emerge from urban environments including:

- Building Automation
- Green Roofs
- Heat Pumps
- Insulation
- LED Lighting (Commercial and Household)
- Retrofitting
- Net Zero Buildings
- Smart Glass
- Smart Thermostats
- Bike Infrastructure (Trail Avenue, Sechelt)
- Walkable Cities
- Landfill Methane
- Tertiary Water Treatment Plants

# Prioritizing Emission Reductions

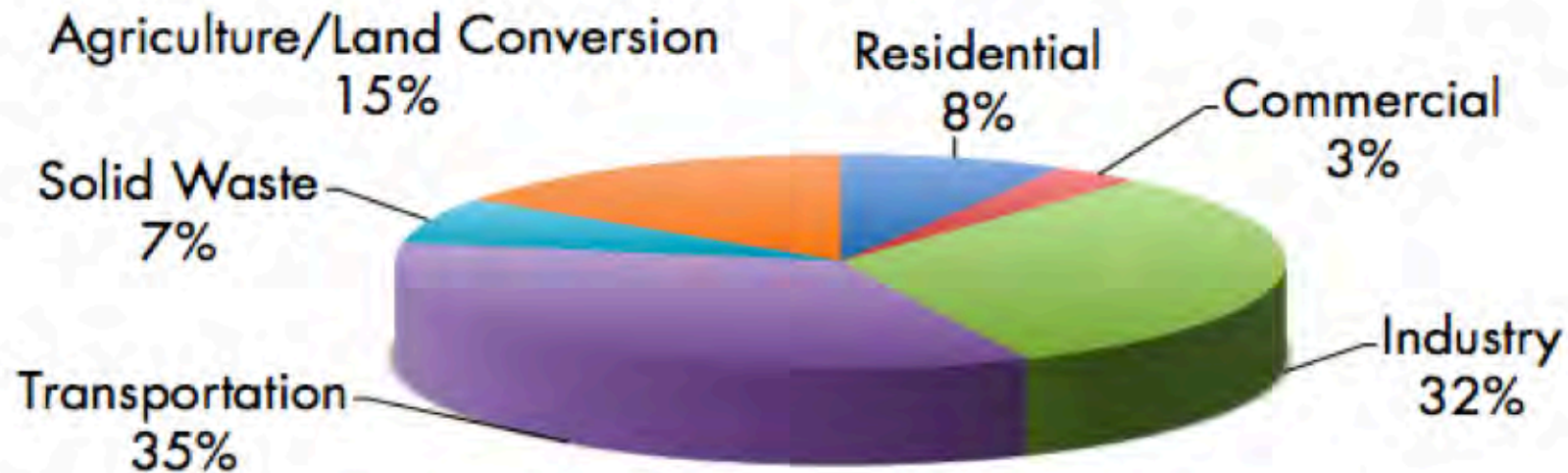


# CEEP

## Sunshine Coast GHG Baseline values

### SCRD GHG Baseline

Chart Area



# NET ZERO BUILDING SOLUTIONS



There are many options to bring a house to net zero.

- Building Automation
- Smart Thermostats
- Dynamic Glass
- LED Lighting
- Insulation
- High Efficiency Heat Pumps
- Green & cool roofs

# SECHELT WATER RESOURCE CENTRE



# The District of North Vancouver

## REPORT TO COUNCIL

October 28, 2019

File:

**AUTHOR:** Megan Curren

**SUBJECT:** Updating Corporate (Municipal) Policies to Align with IPCC Climate Science

- **Require highly energy-efficient buildings (passive equivalent) with renewable energy sources**
- **Achieve net zero emissions in all new buildings**
- **Eliminate fossil gas as an acceptable energy source**
- **Analyze costs to retrofit all DNV buildings to net zero carbon by 2025, and to move all municipal equipment off fossil fuels.**

PATHWAY TO 2032: PART 9 (HOMES)

2017 -----> 2032



## BC Energy Step Code: a performance-based approach

*Over time, the building industry will integrate new techniques into all new buildings. By 2032, the BC Building Code will move toward the higher steps of the BC Energy Step Code as a minimum requirement.*

Building with wood has two key climate benefits:

1. As they grow, **trees absorb and sequester carbon**, which remains stored in timber construction materials.
2. Building with wood generates **fewer greenhouse gas emissions than wood's alternatives, like cement or steel.**

*According to a 2014 study, building with wood could reduce annual global carbon dioxide emissions by 14 to 31 percent.*

**March 2019: B.C. building code adjusted to allow**

COMING  
ATTRACTIONS  
**BUILDING WITH  
WOOD**



**UBC Brock  
Commons  
18 stories**



# Berkeley became first US city to ban natural gas. Here's what that may mean for the future

The California city on Tuesday voted to ban natural gas hook-ups in new buildings, in a historic move



## Palo Alto intends to ban natural gas appliances in new construction

© November 5, 2019 6:15 am



# ACTIVITY #2      MUNICIPAL CLIMATE ACTIONS

- START A MUNICIPAL CLIMATE ACTION GROUP TO MONITOR COUNCILS ON ENVIRONMENTAL ISSUES STARTING WITH DECLARING A CLIMATE EMERGENCY.
- ANALYZE COSTS TO RETROFIT ALL SECHELT, GIBSONS, SCRD BUILDINGS TO NET ZERO.
- REDUCE SOLID WASTE (FOOD AND WOOD) GOING TO LANDFILL
- IMPLEMENT TRANSIT IMPROVEMENTS
- IMPROVE WALKING AND BIKING INFRASTRUCTURE
- SUPPORT LOCAL FARMERS



TEN MINUTE BREAK

# Yellow Point Ecological Society

## Guy Dauncey





**Loess Plateau, China**

# ACTIVITY #3 RESTORATED HABITATS

- HEALTHIER RIVERS AND COASTAL HABITATS
- CARBON SEQUESTRATION
- STORM AND EROSION PROTECTION
- IMPROVED AIR AND WATER QUALITY
- HEALTHIER FLORA AND FAUNA AS INVASIVE SPECIES ARE REMOVED
- REDUCED FIRE HAZARDS

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