Presented by:

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May 14th, 2025

The Roles of Energy Advisors & Building Officials for Deep Energy Retrofits











- Intros & session purpose
- Policy & program context
- Role of local governments/ Building Officials
 - Role of Energy Advisors
- How BOs & EAs can work together to support retrofits in their communities

Peer networks

- Over 1100 individuals attended at least one meeting from 132 different local governments and 15 Indigenous Communities
- 68 meetings across 15 Peer Networks... and growing

Topics:

- Step Code
- Low Carbon Retrofits
- Electric Mobility
- Embodied Emissions
- Resilience
- Building Officials & energy

Regions:

- NorthCAN
- Vancouver Island/Coast
- Thompson-Okanagan
- Kootenay
- Lower Mainland
- Alberta Staff Network

Elected Officials

- Alberta Climate Leaders
- BC Climate Leaders
- Vancouver Island and Coastal Communities Climate Leadership (VICC-CL)

Policy & program context

Federal

- National Building Code update
- Canada Greener Homes Affordability Program
- National Home Labelling Program

Provincial

- BC Building Code update
- Highest Efficiency Equipment Standards
- CleanBC rebates
- Home Energy Planner

Municipal

- Building bylaws & other regulations
- Incentives
- Industry capacity
- Education & outreach
 - Home energy retrofit concierge programs
- Advocacy

Municipal role

- Building bylaws & other regulations
 - BC Building Code, HEES when available
 - Building permits, mechanical permits, noise bylaws, siting guides, etc.
 - Energy & emissions reporting
- Incentives
 - CleanBC top-ups
 - On-bill financing
 - PACE-like programs
- Industry capacity
 - Offer and promote training
- Education & outreach
 - Home energy retrofit concierge programs
- Advocacy

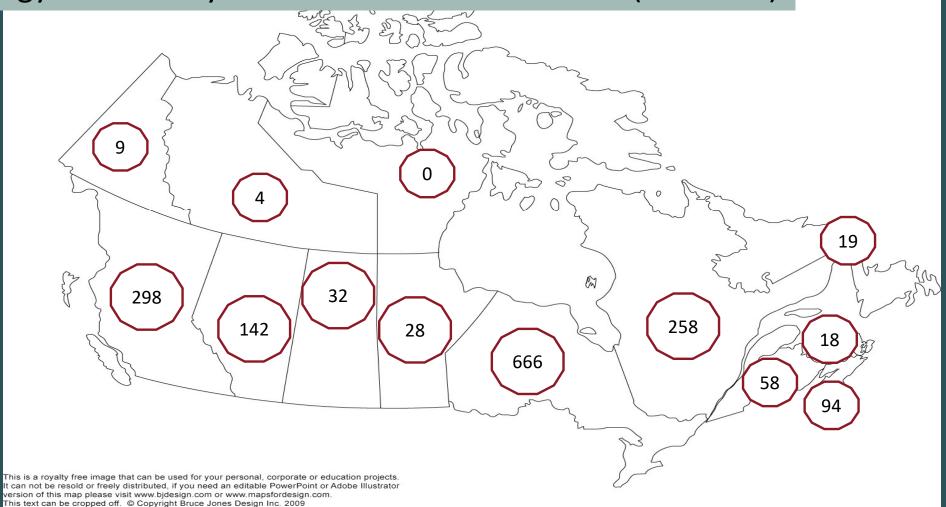
The Energy Advisor

how can they help you?

- Tested and registered by Natural Resources
 Canada
- Fundamental skillset includes building science, residential (Part 9) construction principles, the EnerGuide Rating System and modelling (HOT2000) and onsite air leakage testing
- Existing and New Homes



Energy Advisors by the numbers across Canada (Jan 2025)





Our Mission

To support a sustainable profession of successful and credible Canadian Energy Advisors (EA).

Our Mandate

Ensure credible, skilled members and be a valued, respected sector partner.

Our Members

Includes EAs, suppliers, stakeholders and allies, and those in the process of becoming registered EAs.

Members across Canada access to:

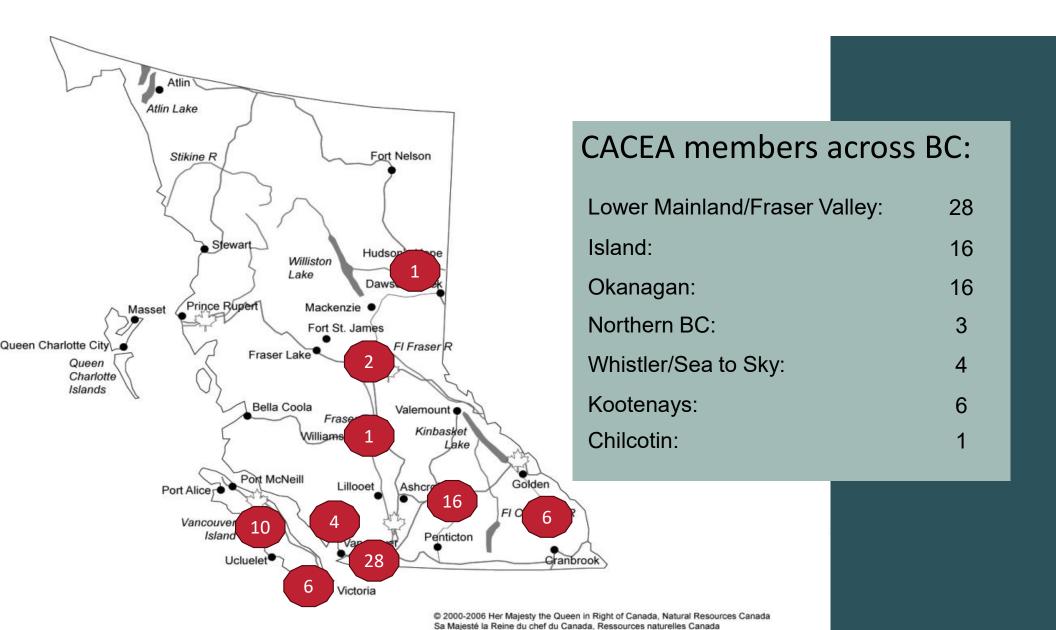
- knowledge and information;
- a supportive network;
- a unified voice to influence change; and
- discounts to equipment, training, and more.

Contact

Cindy Gareau, Executive Director manager@cacea.ca • 888-315-2774 • www.cacea.ca

CACEA promotes sustainable building practices and contributes to the following Canadian Home Labeling Programs:

R-2000 ENERGUIDE PROGRAMS REPORTS REP



EAs have diverse and unique skillsets





& Efficiency



& Modelling









Building Science & Whole House



Building Practices & Materials



Forensics, analysis & reports

- Knowledgeable efficiency and sustainability professionals
- Helping homeowners, renovators and builders make GOOD decisions and where house components work together, and a home is safe, comfortable, efficient and durable.

Communication

• They are a partner to successfully navigate a challenging, ever-changing landscape.

Typical Attributes:

construction knowledge
 building sector engagement
 STEM skills (EXCEL)
 analytical
 environmentally focused
 curious lateral thinker
 communication skills
 people skills







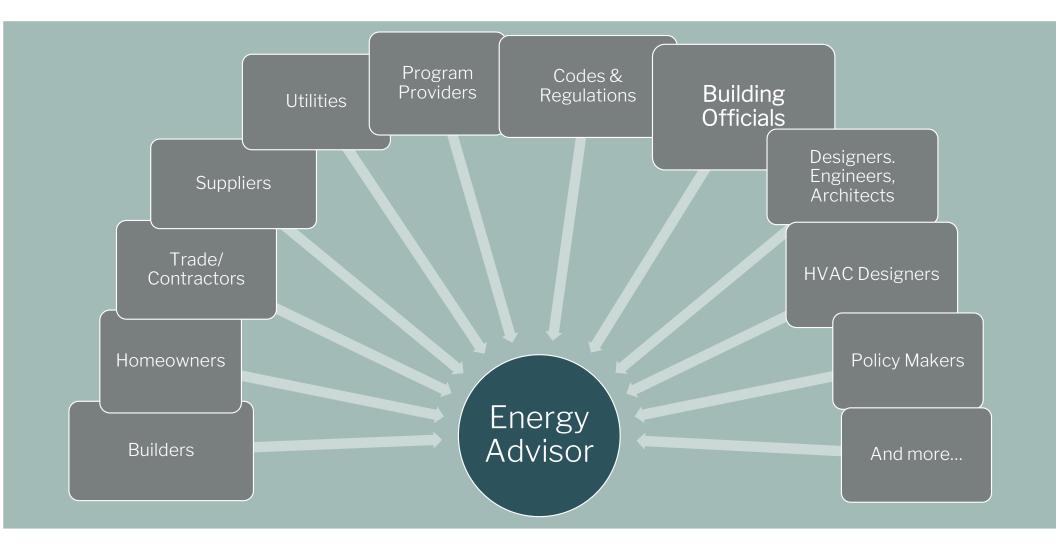
What else can an EA do?

- Blower door testing
 - Part 9 buildings, Part 3 buildings
 - Passive House
 - Commercial/Industrial spaces
- Heat loss/Heat gain calculations (F280)
 - Whole-house and/or room-by-room
- Thermal imaging
- Backdraft testing (open combustion appliances)
- Duct Flow testing
- Net Zero, Passive House, R2000 certification
- Building Science education and outreach
- Integrated Design Process (IDP) meeting facilitation
- Resiliency discussion and planning

Energy Advisors - the perfect deep energy retrofit liaison

- Avoid unintended consequences (think building science)
- Comfort and health considerations and outcomes
 - make sure all the space in a home can be utilized (no 'cold spots', sound transmission complaints, window condensation issues, etc)
 - discuss indoor air quality concerns
 - material and product use, ventilation considerations (including back-drafting)
- 'Roadmap' the planned upgrades to the home
 - think about the long-term picture and how all upgrades will work together make sure the alterations are being made in the right sequence
- Electrical load considerations
- Resiliency
 - Fire, wind, heavy rain, hail how can we design for these climate events?

EAs are at the HUB of the Part 9 Sector



Current and Upcoming Programs



Bonus rebates



Plan your project to qualify for a bonus

The more upgrades you make, the more energy efficient your home will be. That's why we're offering you a choice between the Two Upgrade Bonus or the Home Energy Improvement Bonus. Bonus offers cannot be combined;

1 This is currently a pilot program. Your address will only work if your home is in one of the pilot communities.



Welcome to the BC Home Energy Planner!

BC Home Energy Planner

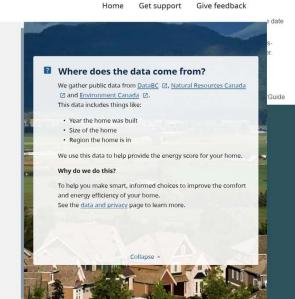
The BC Home Energy Planner is a free online service that helps you understand and improve the energy efficiency of your home.

The Planner uses public data and information you provide to assess how well your home uses energy. You'll learn:

- Your home's energy score (measured in gigajoules per year or GJ/yr) · What kinds of home energy upgrades will have the biggest impact for your
- · How home energy upgrades can help you prepare for extreme weather
- · Next steps to help you upgrade your home

Information you provide to the BC Home Energy Planner stays in the Planner. It is only used to provide you with an energy score and recommendations.

Read the privacy policy to learn more.



Thank you

Please join us! CACEA Meet and Greet

May 14th, 5:00-7:00pm

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