Regional District of Central Kootenay

Regional Energy Efficiency Program

www.rdck.ca/leep
Thanks to our funders and partners

FCM FEDERATION OF CANADIAN MUNICIPALITIES FÉDÉRATION CANADIENNE DES MUNICIPALITÉS

Canada

Energy at work FORTIS BC™

BC Hydro Power smart
Regional District of Central Kootenay

Regional Energy Efficiency Program

Trish Dehnel
Community Energy Association
Pdehnel@communityenergy.bc.ca

www.rdck.ca/EEP
Community Energy Association

The trusted independent advisor to local governments on climate and energy.

Connecting communities, energy and sustainability.

Implementation
Engagement
Education
Research
Planning

Waste Management
Renewable Energy
Transportation
Buildings
Land Use

CEA are regional advisors for FCM-ICLEI Partners for Climate Protection Program (PCP).

The first stop for local governments wanting to close the implementation gap & take climate action.
New Homes

• Spoiler Alert! – Work with an Energy Advisor
• Community Energy Management Background
• BC Building Code
• BC Energy Step Code
• REEP – Regional Approach
• Benefits of working with an Energy Advisor
All Kootenay local governments are signatories to the **Climate Action Charter**

Climate commitments for:

- **Corporate emissions**
- **Community emissions**
- **Complete communities**

Local Government can take **climate action** and implement policy to **reduce emissions** in 3 key areas:

- **Buildings**
- **Transportation**
- **Waste**
RDCK Community Energy and Emissions

Community Energy Cost, 2016
- Buildings: $6,573,223
- Waste: $1,437,418
- Transportation: $3,832,928
- Propane: $80,984,681
- Heating Oil: $134,700,092
- Wood: $12,437,418
- Electricity: $6,239,845

Community Emissions (tCO2e) Per Sector, 2016
- Buildings: 26%
- Waste: 7%
- Transportation: 46%

$228 million per year spent in RDCK
$4,113 per capita per year
383,000 tCO2e per year in RDCK
BC Building Code

- Intent is public health, life and safety standards
- First National Building Code in 1941
- Since 1960 revised every 5 years
- 2014 Performance pathway introduced
Performance Pathway

Energy Modeling by Natural Resources Canada Energy Advisor

Air-Tightness Testing to achieve minimum performance levels

No Prescriptive Energy Requirements
PATHWAY TO 2032: PART 9 (HOMES)

2017

5

4

3

2

1

STEP 1

BC BUILDING CODE

INCENTIVES AND/OR REQUIREMENTS

INCENTIVES

2032

NET ZERO READY
NEW CONSTRUCTION

40% MORE EFFICIENT

20% MORE EFFICIENT

10% MORE EFFICIENT

IMPROVED

ERS REFERENCE HOUSE

ENERGY EFFICIENCY

Regional Energy Efficiency Program
NEW HOMES

Community Energy Association

CENTRAL KOOTENAY
How to Boost Performance

- Boost Insulation
- Ventilate Smartly
- Mind Your Machines
- Ban Bridges
- Seal It Up
- Think About Doors & Windows
Home Owner Benefits

- **Lower energy bills**: lower energy consumption reduces operation costs
- **Comfort**: minimizes warm and cold spots
- **Quiet**: increased insulation levels and better windows can reduce outside noise
- **Durable**: focus on envelope first, minimum requirements beyond building code
- **Peace of mind**: third part verified by trained energy advisor

Highly Encouraged: Mid Construction Blower Door Test

Check: [efficiencybc.ca](https://efficiencybc.ca) for utility incentives
Regional Approach

• **BC Hydro** Energy Step Code Implementation Funding – to incentivise working with an Energy Advisor / **FortisBC**

**New Home Program**: Build to Step Code to qualify for rebates. Initial incentive for performance pathway BCBC compliance (STEP 1)

• Consider mid-construction blower door

• Builder training workshops

• Regional approach to introducing Step Code

• Work with an Energy Advisor and REEP the rewards.
The Energy Coach is a free coaching service for homeowners and commercial building owners and managers in British Columbia. Energy Coaches are trained energy efficiency specialists who provide building-science based information about the options and opportunities to improve the energy efficiency of your home or building. They are available to answer your questions at all stages of your energy improvement project. Energy Coach services are available for homeowners and commercial building owners or managers.

**Energy Coach services include:**

- Access to Energy Coaches via a toll-free hotline and e-mail
- Information and advice about energy efficiency upgrades and incentives
- If needed, directing you to appropriate program representative

**Energy Coach:** 1-844-881-9790
Thank you / Questions?

Trish Dehnel
pdehnel@communityenergy.bc.ca
250-505-3246