Build Smart
Canada’s Buildings Strategy
A Key Driver of the Pan-Canadian Framework on Clean Growth and Climate Change

Build Smart Together - Let’s Put All Our Energy in the Right Place

Decision-makers, city-leaders, industry professionals, home owners, renters, building owners and operators: we all want the same things.

We want to lower our costs, see jobs grow, live and work in safe, comfortable spaces — and we want that for everyone else in our community too.

Energy Efficiency will be the norm by 2030

Efficiency is hard to see, but we feel it in the comfort of our homes, our economy, our wallets.

Efficiency. It’s No Mystery. We have what it takes to get there.

The amount Canada boosted its energy efficiency between 1990 and 2014

The number of efficient new homes built since the inception of Canada’s ENERGY STAR for New Homes and R-2000 initiatives

The amount Canadians saved on energy bills in 2014 as a result of efficiency improvements since 1990

Mapping our Progress

From new energy codes to sharing energy data, cities, provinces and territories are taking the right steps.

Come on in, the future feels fine

Learn more about Canada’s Building Strategy and how, together, we can create homes and buildings designed for living and for life.

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nrcan.gc.ca/Buildsmart
**Critical Path to 2030**

### Pathway: Raising the Efficiency Bar for New Buildings

**Goal for 2030:**

#### Key milestones:

- Spring 2018: Launch recommissioning framework to optimize existing buildings.
- Summer 2018: Start funding RD&D projects to lower cost of high performance and net-zero energy ready code and deep energy retrofits.
- Winter 2018: Launch ENERGY STAR certification for commercial and institutional buildings.
- 2018-2019: Launch a new program to ensure that energy codes are implemented properly when they are adopted.
- Winter 2019: Develop an online platform and framework for labelling and sharing home and building energy use data.
- Spring 2019: Start implementing activities in support of short, medium and long term goals for appliances and equipment.
- Fall 2020: Complete national survey of commercial and institutional building energy use.
- Fall 2020: Publish more stringent model codes and NZER codes for buildings and homes.
- Fall 2022: Publish additional tiers of NZER codes for buildings.

#### Model Net Zero Energy Ready (NZER) Codes for Homes and Buildings

- Publish More Stringent Codes
- Publish Additional Tiers of NZER Codes
- Adoption of More Stringent Codes
- Code Compliance Assistance Program Launch

#### Research, Development and Demonstration (R&D) Projects to Lower Incremental Costs of Building to NZER

- First Set of Co-Funding Agreements Signed
- Expansion of Local Energy Efficiency Partnership

### Pathway: Bringing Buildings Into the Future

**Goal for 2030:**
- Retrofitting Existing Buildings

#### Key milestones:

- Summer 2018: Start funding RD&D projects to lower cost of high performance and net-zero energy ready code and deep energy retrofits.
- Winter 2018: Launch ENERGY STAR certification for commercial and institutional buildings.
- 2018-2019: Launch a new program to ensure that energy codes are implemented properly when they are adopted.
- Winter 2019: Develop an online platform and framework for labelling and sharing home and building energy use data.
- Spring 2019: Start implementing activities in support of short, medium and long term goals for appliances and equipment.
- Fall 2020: Complete national survey of commercial and institutional building energy use.
- Fall 2020: Publish more stringent model codes and NZER codes for buildings and homes.
- Fall 2022: Publish additional tiers of NZER codes for buildings.

#### Model Energy Requirements/Codes Published

- Adoption of More Stringent Codes

#### RD&D Projects to Lower Deep Energy Retrofit Costs

- Supporting Tools and Materials for Adoption, Markets, Officials and Industry

### Pathway: Setting Energy Data Free

**Goal for 2030:**
- Measuring and sharing energy use data

#### Key milestones:

- Spring 2018: Launch recommissioning framework to optimize existing buildings.
- Summer 2018: Start funding RD&D projects to lower cost of high performance and net-zero energy ready code and deep energy retrofits.
- Winter 2018: Launch ENERGY STAR certification for commercial and institutional buildings.
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- Fall 2022: Publish additional tiers of NZER codes for buildings.

#### National Online Platform for Labelling and Sharing Energy Use Data

- Adoption of labelling and sharing energy use data

### Pathway: Being Equipped for the Future

**Goal for 2030:**
- Realizing Aspirational Goals for Heating Equipment and Other Key Technologies

#### Key milestones:

- Spring 2018: Launch recommissioning framework to optimize existing buildings.
- Summer 2018: Start funding RD&D projects to lower cost of high performance and net-zero energy ready code and deep energy retrofits.
- Winter 2018: Launch ENERGY STAR certification for commercial and institutional buildings.
- 2018-2019: Launch a new program to ensure that energy codes are implemented properly when they are adopted.
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#### Realizing Aspirational Goals for Heating Equipment and Other Key Technologies

- Complete detailed equipment and appliance roadmaps to 2030
- Amendment 14 to Energy Efficiency Regulations
- Amendment 15 to Energy Efficiency Regulations
- Amendment 16 to Energy Efficiency Regulations
- Water/space heating technology have 90% energy performance
- Improved heat pump performance for cold climates
- Higher standard residential windows

#### R&D/Early Commercialization, Test Methods, Incentives, Design Guides and Harmonization

With Model Energy Codes for Homes and Buildings

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* Potential GHG reductions if adopted by all provinces and territories, based on modeling by Environment and Climate Change Canada (ECCC)
** Based on modeling by ECCC