

THE ECONOMIC IMPACT OF ENERGY EFFICIENCY

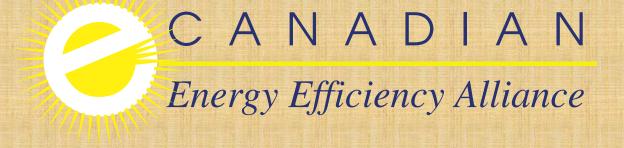


he national voice for an nergy efficient economy

ENERGY

MAY 11, 2018

THE EVOLUTION FROM:



THE EVOLUTION FROM:







Donner | Fondation canadienne

IVEY foundation



THE EVOLUTION TO:



The national voice for an energy efficient economy



INTRODUCING: NEW LEADERSHIP

COREY DIAMOND EXECUTIVE DIRECTOR



INTRODUCING: NEW LEADERSHIP

BRENDAN HALEY DIRECTOR, POLICY

THE NATIONAL VOICE FOR AN ENERGY EFFICIENT ECONOMY

ADVOCATE. CONVENE. COMMUNICATE.

ADVOCATE.

CONVENE.

COMMUNICATE.

BY 2025 WE ENVISION A CANADA WHERE ENERGY EFFICIENCY IS: 1. WIDELY TREATED AS THE **"FIRST FUEL"** BY GOVERNMENTS, REGULATORS, UTILITIES AND CONSUMERS.

2. IMPROVING BY AT LEAST 2% PER YEAR, DOUBLE THE HISTORIC RATE OF IMPROVEMENT.

3. SUPPORTING JOB GROWTH ACROSS ALL SECTORS, TRADES AND PROVINCES.

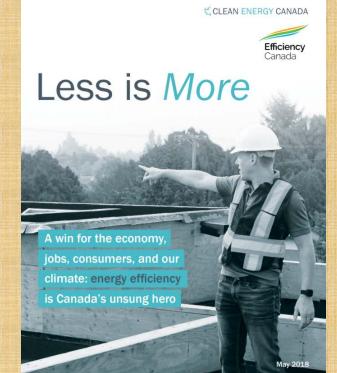
NEW RESEARCH ON ECONOMIC IMPACTS OF ENERGY EFFICIENCY



THE ECONOMIC IMPACT OF IMPROVED ENERGY EFFICIENCY IN CANADA

EMPLOYMENT AND OTHER ECONOMIC OUTCOMES FROM THE PAN-CANADIAN FRAMEWORK'S ENERGY EFFICIENCY MEASURES





CLEAN ENERGY CANADA

Efficiency Canada

The national voice for an energy efficient economy

STUDY AUTHORS

Dunsky Energy Consulting

supported by the Centre for Spatial Economics

DUNSKY OVERVIEW **EXPERTISE** SERVICES DAC ASSESS DESIGN **EVALUATE** EFFICIENCY RENEWABLES MOBILITY opportunities strategies performance Governments • Utilities • CLIENTELE* • Private firms • Non-profits Alberta Nhydro Natural Resources Canada Government BRITISH POWER Québec Pontario Efficiency Alberta Saskatchewan Manitobo BChydro 🗰 ATCO 😫 ieso Hydro Québec SaskPower FORTIS BC Manitoba Hydro Saskatoon CALGARY RioTinto alectra ENMAX Energy **POWER** NB Power ecova energir **DA TOBONTO** WONTANA-DAKOTA VERMONT (MAINE ENBRIDGE 🖉 miongas CONNECTICUT CEATI Efficiency Vermont MidAmerican NRDC nyserda GREEN Columbia Gas of Massachusetts ENERGY. **EVERSURCE** EDISON nationalgrid . 1 . New Amery Clean Energy A.E.S.P **SoCalGas** ST ENERGY Y PARTNERSHIPS * selection of clients







PAN-CANADIAN FRAMEWORK ENERGY EFFICIENCY ACTIONS

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NEW HOUSING

- 40% improvement from 2012 model code as new codes evolve toward "net-zero ready" by 2030
- EXISTING BUILDINGS
 - NEW BUILDINGS
- APPLIANCES AND EQUIPMENT
- management and retrofits – 65% improvement from 2015 model code as new codes evolve toward "net-zero ready" by 2030

- 17% reduction in energy use through energy

- 10% reduction in energy use through retrofits

- More stringent energy efficiency standards
- Energy management and emissions standards



BUILT – ENVIRONMENT

INDUSTRY

LARGE INDUSTRY

RESULTS (PAN-CANADIAN FRAMEWORK SCENARIO)



+1% boost in GDP over 14 years

\$7 GDP boost / \$1 of spending



+118,000 Jobs annual average (FTE)

Peaking at 227K FTE jobs



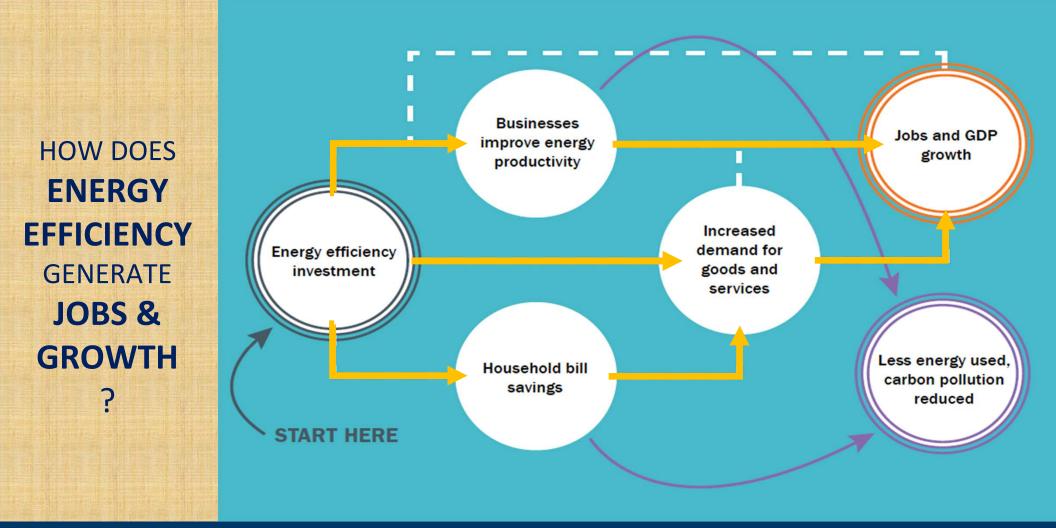
average \$114/year per household



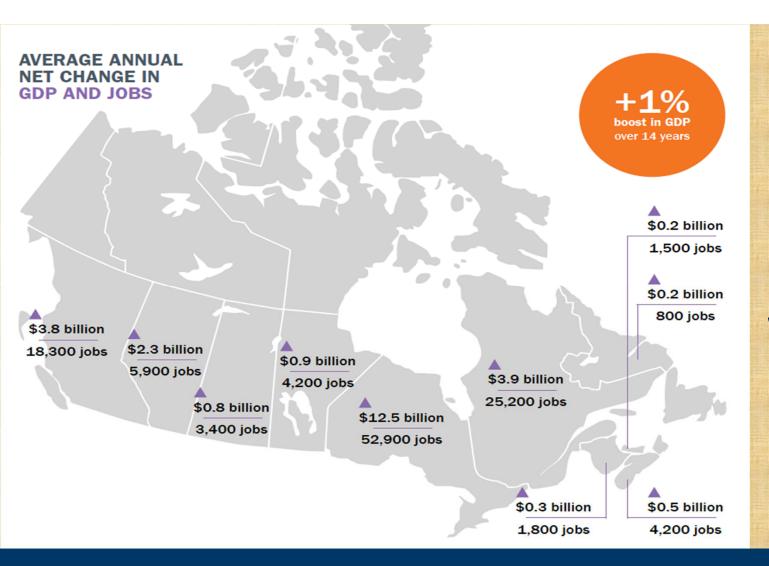
-52M tonnes emissions of CO₂e by 2030

25% of Canada's Paris commitment







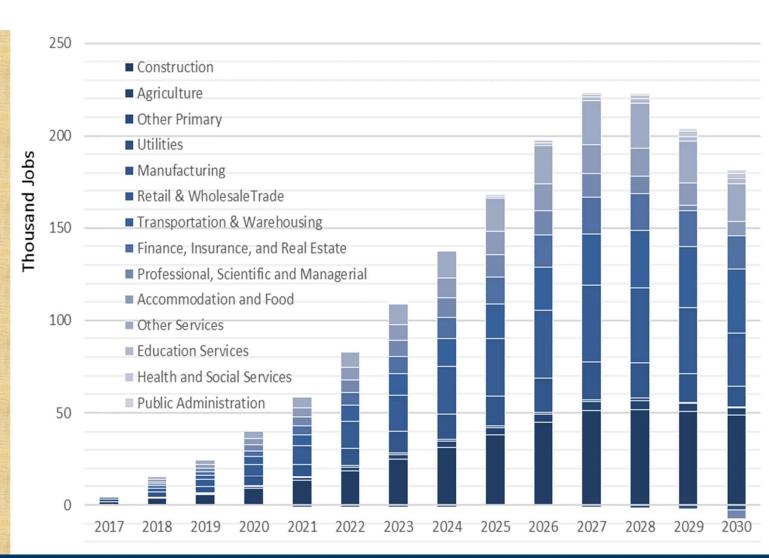


Despite different energy, emissions and economic contexts, **the economies and** workforces of every province benefit from the PCF's energy efficiency measures.



Employment gains from the PCF's efficiency measures are spread widely across the economy.

Half of new jobs would fall within CONSTRUCTION, TRADE, & MANUFACTURING





NOTEWORTHY

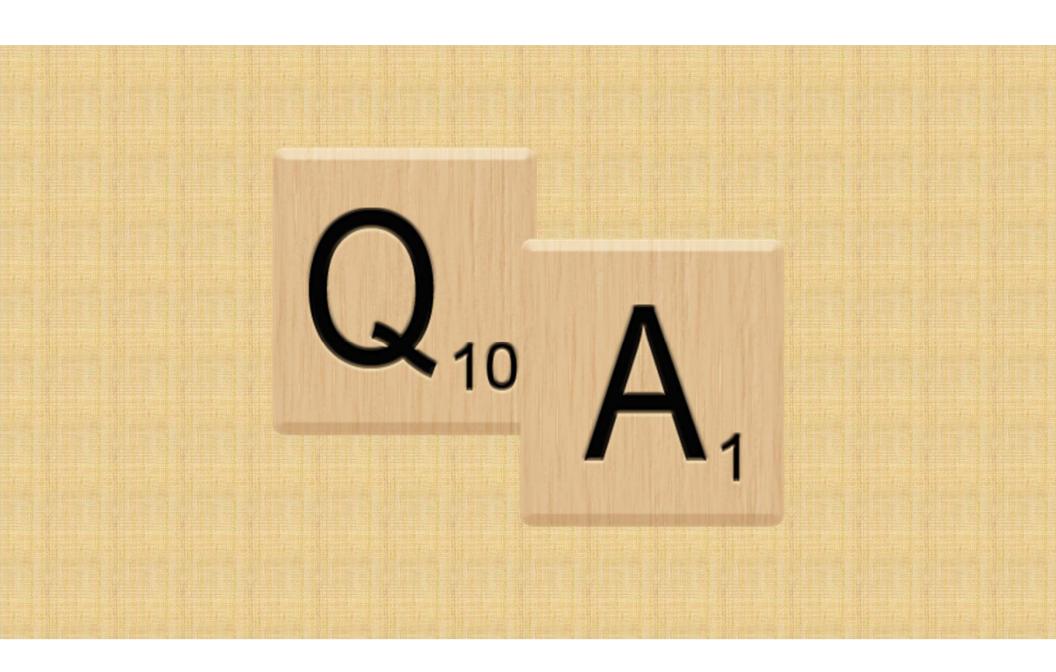
- The majority of benefits 75-85% comes from energy bill savings, which increase household disposable income and improve competitiveness by lowering the cost of doing business.
- Study's scope is limited to energy efficiency in homes, buildings and industry. It does not account for electrification and fuel switching within the building sector, nor for transportation-related energy efficiency.
- Net impact assessment means results account for gains and losses. Positive results reflect economic benefits that far outweigh costs to governments, households, and businesses to implement energy efficiency actions, as well as impacts of reduced energy sales on utilities.





QUESTIONS?

ENERGY EFFICIENCY WORKS!



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