



Opening the door to cost-saving clean energy solutions for Canadian households

Join us **11am PT/2pm ET on November 13**
as we present the main findings of our new report, *Opening the Door*,
which finds that making a few clean energy changes to your household
can save hundreds of dollars a month for families.

Get a snapshot of your potential savings via our new online calculator: **mycleanbill.ca**



RACHEL DORAN
VP of Policy and Strategy



TREVOR MELANSON
Director of Communications



JOANNA KYRIAZIS
Director of Public Affairs



JANA ELBRECHT
Policy Advisor

Opening the Door

How clean energy solutions can
cut costs and carbon

Webinar November 2024



Why this report

- Cost of living is top concern for Canadians
- Switching to clean energy solutions does not need to be a sacrifice
- In fact, it can save you money
- Calculate impact for different houses, cars, and provinces



What we found

- EVs save households money everywhere in Canada
- Installing a heat pump + electrifying your home saves money in most provinces
 - Savings are especially large for oil to heat pump switch: \$317 per month in Nova Scotia
 - Families can significantly reduce their carbon footprint, up to 100%
- Rebates are still important because of higher upfront cost
 - After end of Greener Homes Grant, stark differences between provinces with or without provincial rebates
 - Missing funding and incentives for MURBs
- Hybrid solutions can break even or lower energy costs and reduce emissions



What the comparison is based on



Cars: like-for-like gasoline vs. EV



Heating & cooling



Water heating



Appliances: stoves

- Saving on gas connection costs

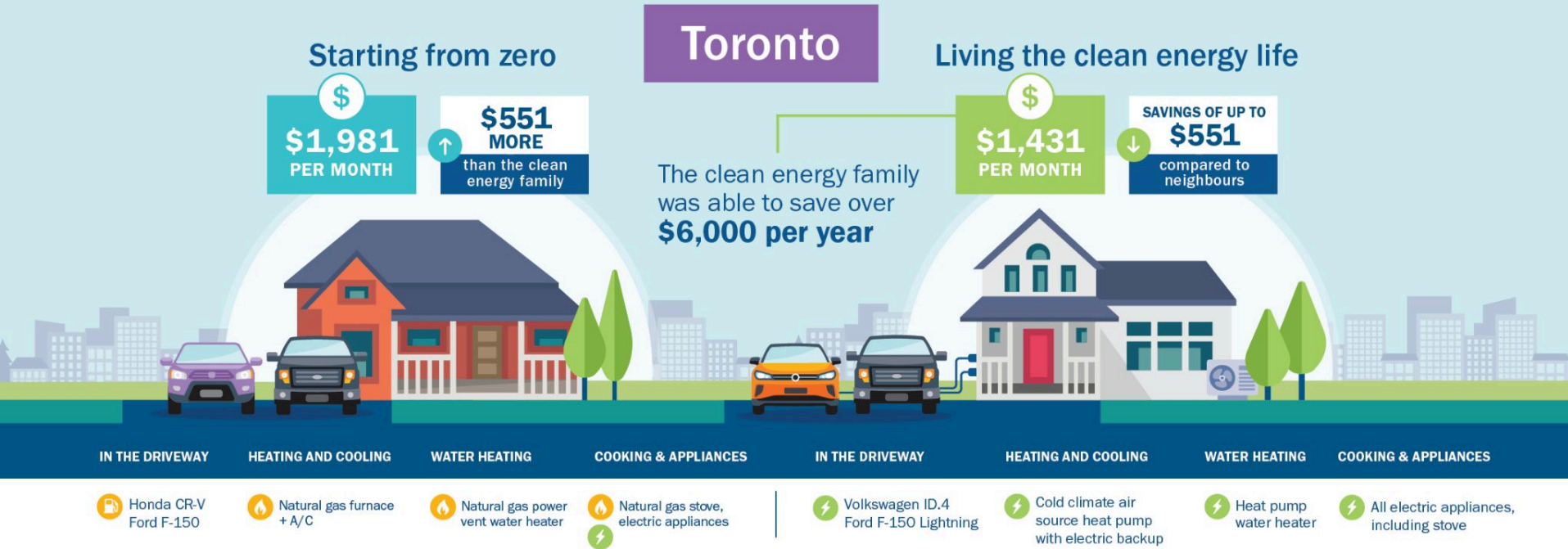


What the comparison is based on

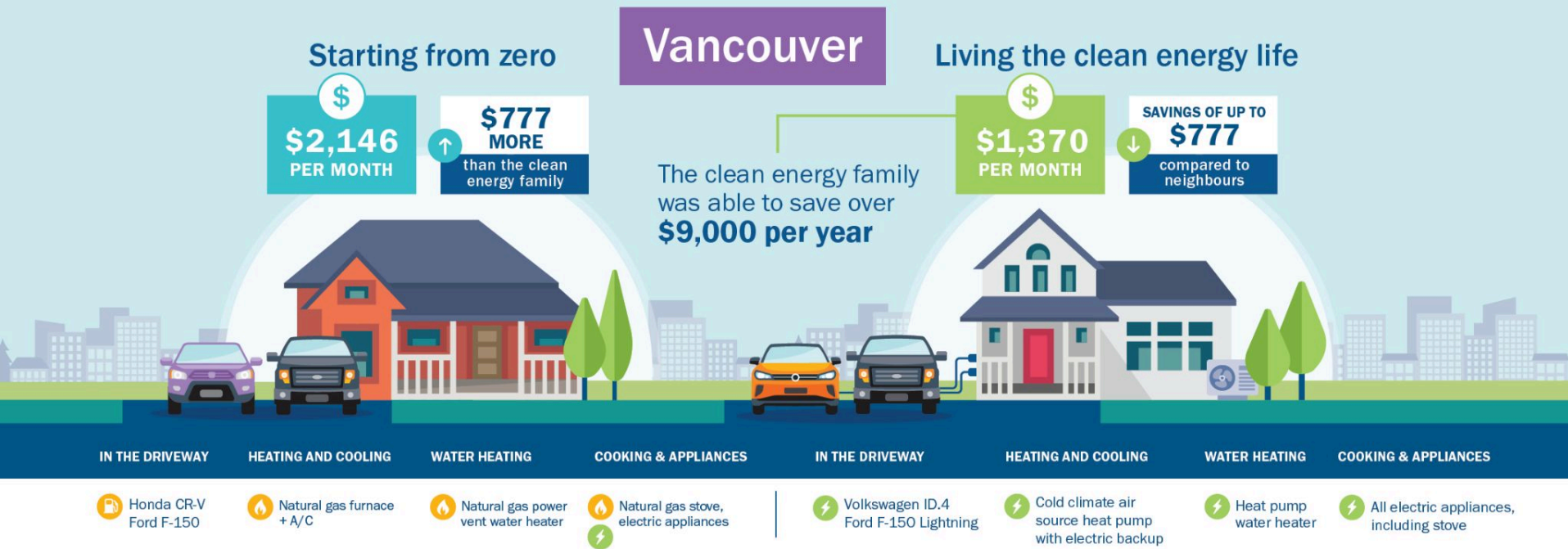
- Three archetype buildings:
 - Single-detached, townhouse, apartment in low-rise building
- Average 2023 energy prices for each province
- Annualized equipment costs, no interest
- Rebates included if available to median income
- Driving distance: 55 km / day (average)
- Most common heating fuel in each province
- Energy modelling in HOT2000



Clean energy households come out ahead



Clean energy households come out ahead



Monthly savings by province (in largest city)

Heating source in
"Starting from Zero"
scenario



Detached house



Townhouse



Condo

Nat. gas	British Columbia	\$777	\$596	\$286
Nat. gas	Alberta	\$(21)*	\$64	\$51
Nat. gas	Saskatchewan	\$256	\$277	\$149
Nat. gas	Manitoba	\$528	\$448	\$240
Electricity	Quebec	\$746	\$594	\$318
Nat. gas	Ontario	\$551	\$421	\$220
Electricity	New Brunswick	\$837	\$593	\$287
Electricity	Newfoundland and Labrador	\$860	\$555	\$281
Heating oil	Nova Scotia	\$919	\$667	\$329
Heating oil	Prince Edward Island	\$921	\$727	\$356

Mycleanbill.ca website launch

Calculate your own **savings**

Every home is different. That's why we created an online tool to help you determine how much your specific household could save.



Head to mycleanbill.ca to calculate your potential savings. You can even share your results with friends, family, and neighbours.



How to use the website results

Example:

- PEI
- Single-detached home
- Two cars: SUV + Truck

Results: up to \$921 in savings per month



How to use the website results (PEI)

Starting from zero

MONTHLY BILL

OPERATING COST EQUIPMENT COST* TOTAL COST

 VEHICLES			
Gas SUV	\$1248	\$566	\$1815
Gas Truck			
 HEATING & COOLING	\$415	\$104	\$519
Oil furnace			
Central ducted air-conditioner			
 WATER HEATING	\$81	\$8	\$89
Electric water heater			
 APPLIANCES & COOKING	\$39	\$19	\$58
Induction stove			
OTHER ELECTRICITY	\$83		\$83
CARBON TAX REBATE	\$(80)		\$(80)
TOTAL	\$1786	\$698	\$2484

Living the clean energy life

MONTHLY BILL

OPERATING COST EQUIPMENT COST* TOTAL COST

 VEHICLES			
Electric SUV	\$755	\$453	\$1208
Electric Truck			
 HEATING & COOLING	\$249	\$2	\$251
Cold climate central ducted air-source heat pump			
Electric resistance furnace			
 WATER HEATING	\$29	\$13	\$42
Heat pump water heater			
 APPLIANCES & COOKING	\$39	\$19	\$58
Induction stove			
OTHER ELECTRICITY	\$83		\$83
CARBON TAX REBATE	\$(80)		\$(80)
TOTAL	\$1075	\$487	\$1562

Emissions Reductions from household changes:

-51%

Why upfront costs & rebates matter (GTA)

Starting from zero			
MONTHLY BILL			
	OPERATING COST	EQUIPMENT COST*	TOTAL COST
 VEHICLES Gas Truck Gas SUV	\$1202	\$549	\$1751
 HEATING & COOLING Gas-fired furnace Central ducted air-conditioner	\$116	\$49	\$166
 WATER HEATING Gas water heater	\$22	\$12	\$34
 APPLIANCES & COOKING Gas stove	\$20	\$16	\$36
NATURAL GAS CONNECTION COSTS	\$26		\$26
OTHER ELECTRICITY	\$49		\$49
CARBON TAX REBATE	\$(81)		\$(81)
TOTAL	\$1354	\$627	\$1981

Living the clean energy life			
MONTHLY BILL			
	OPERATING COST	EQUIPMENT COST*	TOTAL COST
 VEHICLES Electric Truck Electric SUV	\$695	\$516	\$1211
 HEATING & COOLING Cold climate central ducted air-source heat pump Electric resistance furnace	\$97	\$80	\$176
 WATER HEATING Heat pump water heater	\$17	\$16	\$32
 APPLIANCES & COOKING Induction stove	\$23	\$19	\$42
OTHER ELECTRICITY	\$49		\$49
CARBON TAX REBATE	\$(81)		\$(81)
TOTAL	\$800	\$630	\$1430
Emissions Reductions from household changes:			-94%

EVs are the biggest money savers

ELECTRIC

2024 Volkswagen ID.4 Pro

Retail price: **\$52,995**

Battery range: 468 kilometres

Eligible for rebates: yes*

Total ownership cost: \$65,610

Break even point**
4 years, 8 months

**TOTAL SAVINGS
\$28,546**



Total: \$0.33

\$0.09

\$0.03

\$0.05

\$0.16

VS

Vehicle cost
per km

Total: \$0.47

\$0.11

\$0.14

\$0.08

\$0.14

GAS

2024 Honda CR-V LX-B 2WD

Retail price: **\$35,125**

Total ownership cost: \$94,156

\$44% more expensive
for the gas vehicle



Cost of car (depreciation)

Fuel

Maintenance and repairs

Taxes, insurance, and other costs

* B.C. recently lowered its MSRP cap for rebates to \$50,000, and while the cheapest ID.4 remains eligible, the base model only has 332 kilometres of range.

** All break even points include rebates (a Canada average) and exclude depreciation.

Average amount saved over 10 years of ownership

HATCHBACK



\$28,636
saved

Break even point**
2 months



SEDAN



\$37,897
saved

Break even point**
Already cheaper



SUV



\$28,546
saved

Break even point**
4 years, 8 months



TRUCK



\$40,146
saved

Break even point**
Already cheaper



Governments can help open the door

- Higher upfront cost is still a barrier for adopting cost-saving technologies
 - Provincial rebates help
 - Greener Homes Loan or municipal financing programs can help too
- Governments can set the conditions, such as through
 - Time-of-use electricity pricing
 - EV-readiness requirements in building codes
 - EV availability standards
 - Energy efficiency standards for rental units
 - Build out reliable renewable electricity supply & grid



Questions?

Each Monday we publish the Clean Energy Review, a free weekly digest of must-read climate and clean energy stories from across Canada and around the world.

Contact:

Keri McNamara (media contact)

keri@cleanenergycanada.org
778.951.8060

Jana Elbrecht

jana@cleanenergycanada.org
437.324.9323



Head to mycleanbill.ca to calculate your potential savings. You can even share your results with friends, family, and neighbours.



Clean Energy Canada Expert Panel



Moderator:
Rachel Doran
VP of Policy and
Strategy



Joanna Kyriazis
Director of
Public Affairs



Trevor Melanson
Director of
Communications



Jana Elbrecht
Policy Advisor

EVs save Canadian families money when costs of living are high

How cheap does gasoline need to be to match the fuel savings of an EV?

British Columbia
\$0.36

Manitoba
\$0.34

New Brunswick
\$0.45

**Newfoundland
and Labrador**
\$0.43

Northwest Territories
\$0.95

Alberta
\$0.75

Ontario
\$0.43

Nova Scotia
\$0.50

Yukon
\$0.49

Nunavut
\$0.84

Saskatchewan
\$0.47

Quebec
\$0.29

Prince Edward Island
\$0.53

CANADIAN AVERAGE

\$0.43

Based on a Volkswagen ID.4 compared to a Honda CR-V.

Other smart ways to save

- **Smaller vehicles:**
 - Save \$100 more a month by trading a truck for an electric sedan instead of an electric truck
- **Using public transit:**
 - Toronto: save \$258 per month by trading an SUV for a TTC pass
- **Hop on an (electric) bike:**
 - Rebates for e-bikes available in B.C.
- **Time-of-use electricity prices (ON & BC)**
 - Pay lower rates by using electricity during off-peak hours
 - In Ontario, charge your EV from 0 to 100% for \$2.35 on the Ultra Low Overnight rate
 - Smart thermostats + heat pumps can respond to peak rates
 - Ontario: Peak Perks program

