



Advancing Home Energy Labelling in Canadian Communities



Land Acknowledgement



Clean Air Partnership acknowledges that the land on which we operate is the traditional territories of many nations including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee and the Wendat peoples and is now home to many diverse First Nations, Inuit and Métis peoples.



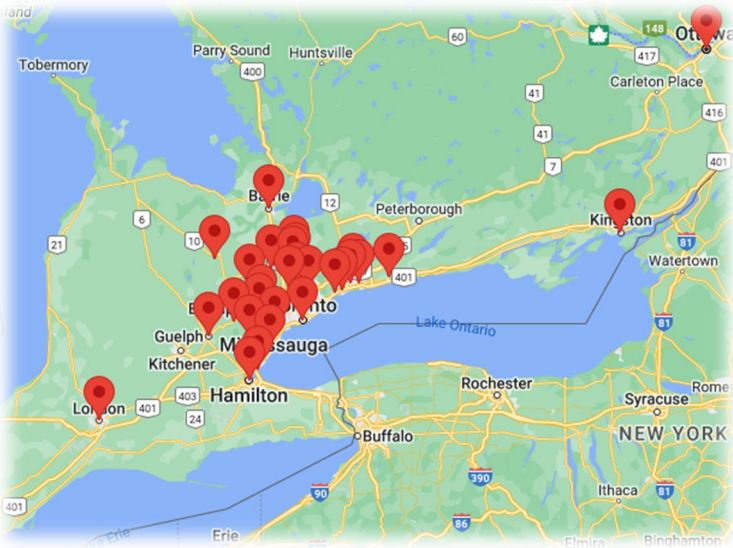


Enjoying the Passage of Time - Jimmy Carr
Video by Zhaawnong Webb

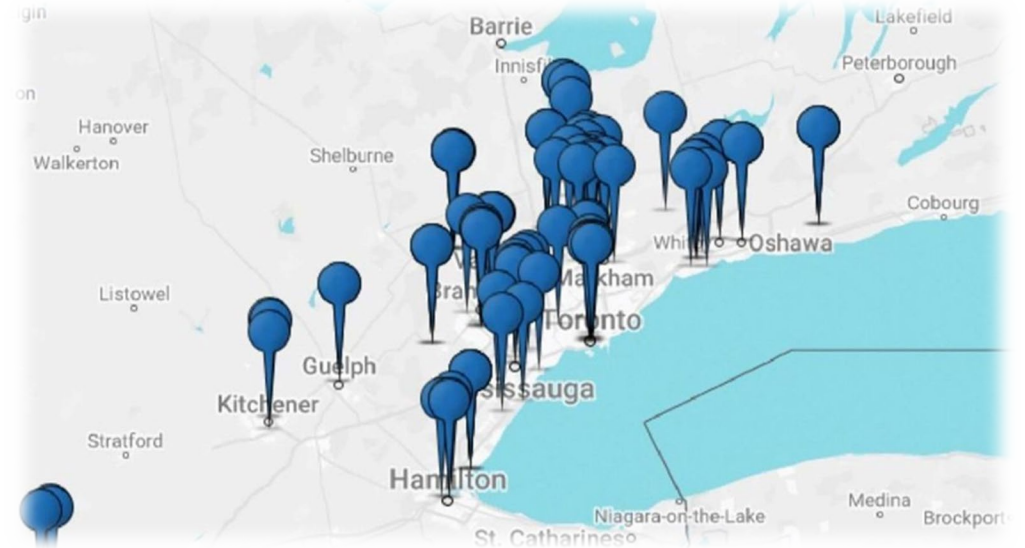




The Climate Policy Database tracks **climate-related policies**



The Climate Action Atlas tracks **implemented** ambitious mitigation projects





1. Applying Equity Lens in the Rental Retrofit Market and Renewables Installation

Jan 19, 11:30 AM



APPLYING AN EQUITY LENS IN RENTAL RETROFIT MARKET AND RENEWABLES INSTALLATION

JANUARY 19
11:30 AM - 12:30 PM

2. SSG's GHG Calculator for Municipal Projects

Jan 24, 1:00 PM



SSG'S GHG CALCULATOR FOR MUNICIPAL PROJECTS

JANUARY 24
1:00 PM - 2:00 PM



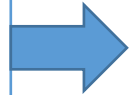
Presenter – Kevin Behan, Operations Director



Examine why no Canadian jurisdiction has advanced mandatory labeling, develop an [implementation toolkit](#) and milestone framework for the advancement of HERD in Canada

Project Phases:

Phase 1 - Research



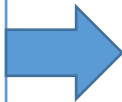
Trottier Funded, 2022

Phase 2 - Design

Phase 3 - Commitment

Phase 4 - Implementation

Phase 5 - Monitoring and Evaluation



Not yet advanced



Phase 1

Section 1 –Landscape Review

Section 2 – Benefits, Barriers, Key Actors

Section 3 – Understanding Consumer Preference for HERD

Phase 2

Section 4 – Program Design Considerations

Section 5 – Milestone Framework



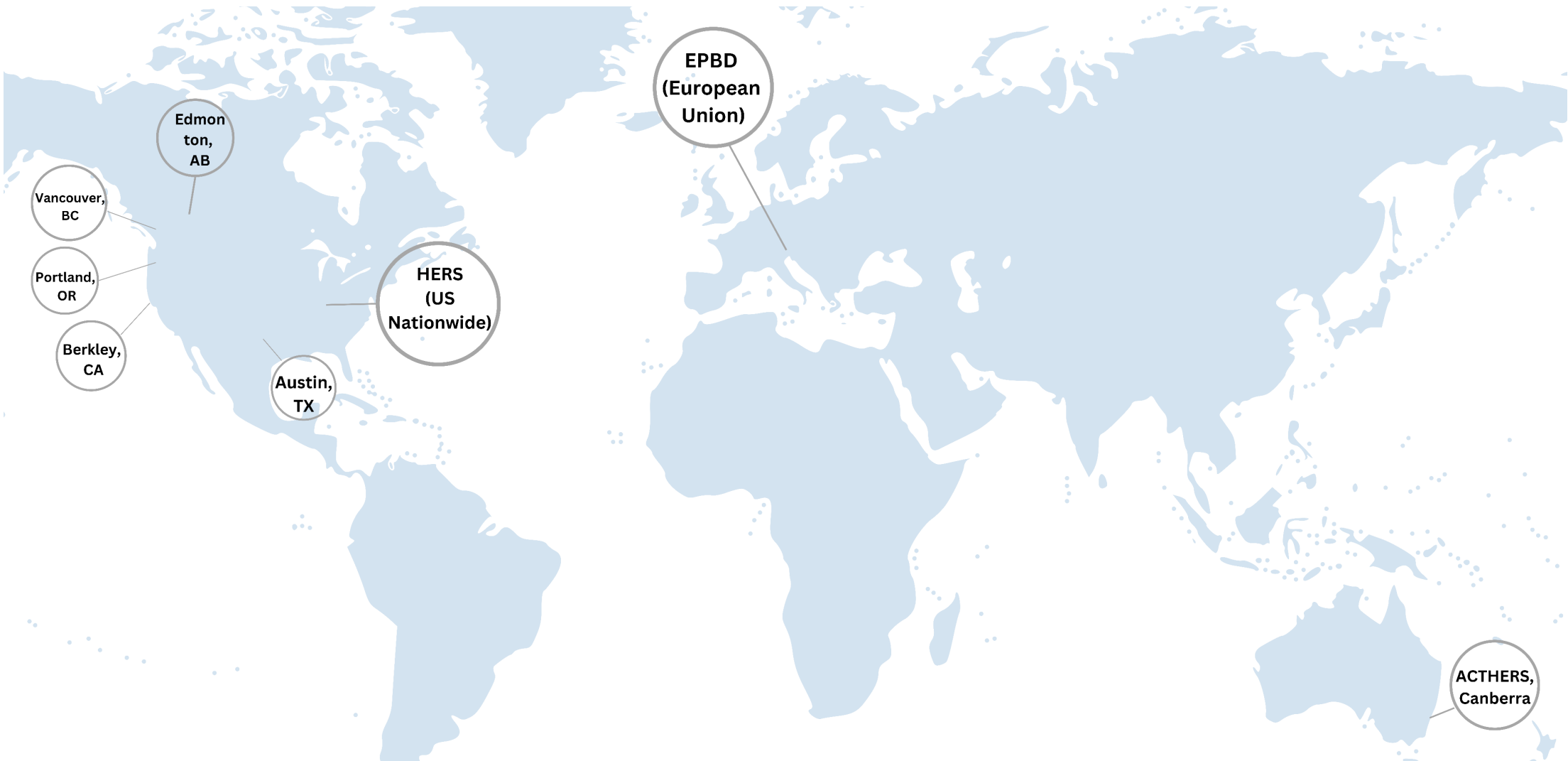
Many jurisdictions mandate home energy labeling and disclosure at the time of lease or sale for low-rise, mid-rise, MURB's and row/semi/detached single family homes

- Australian Capital Territory
- EU
- Austin TX, Portland OR, Ber

No mandatory programs in Canada

Voluntary programs ongoing at federal, provincial, regional and municipal levels

Jurisdictional scan





HOME PROFILE

LOCATION:
5909 NE 25th Ave
Portland, OR 97211

YEAR BUILT:
1942

HEATED FLOOR AREA:
2,300 sq.ft.

NUMBER OF BEDROOMS:
3

ASSESSMENT

ASSESSMENT DATE:
10/14/2020

SCORE EXPIRATION DATE:
10/14/2028

ASSESSOR:
Donald McGee
Home Synergy Solutions LLC


PHONE:
503-381-3159

EMAIL:
donaldjmcgee@gmail.com

LICENSE #:
218308

Flip over to learn how to improve this score and use less energy!



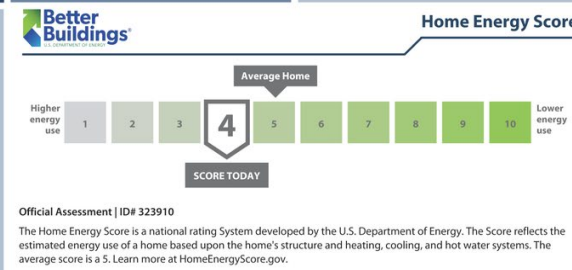


THIS HOME'S SCORE
4
OUT OF 10

THIS HOME'S ESTIMATED ENERGY COSTS

\$1,688

PER YEAR

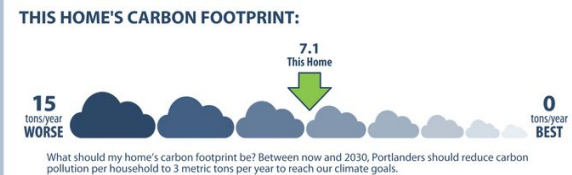


HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?

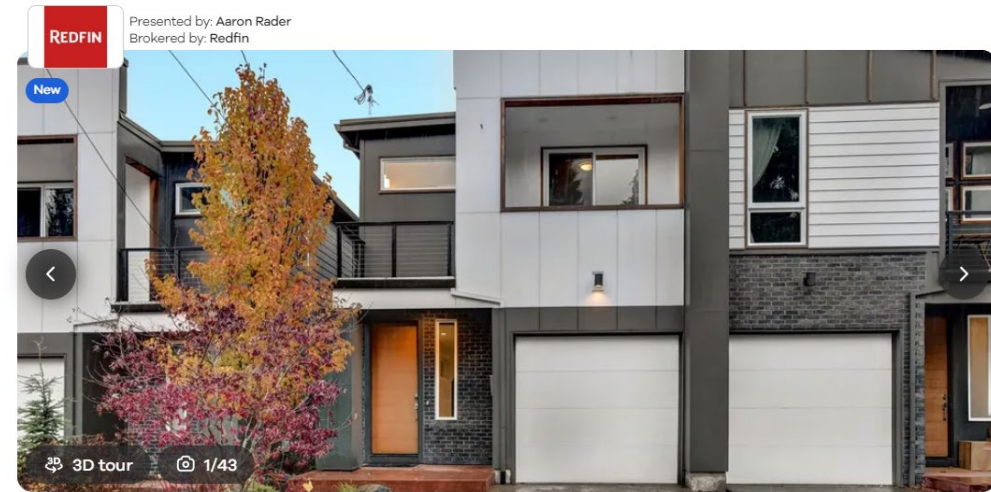
Electric:	8,930 kWh/yr.	\$1,097
Natural Gas:	629 therms/yr.	\$591
Other:		\$0
Renewable Generation:		(\$0)
TOTAL ENERGY COSTS PER YEAR		\$1,688

How much renewable energy does this home generate?

_____ kWh/yr



- Actual energy use and costs may vary based on occupant behavior and other factors.
- Estimated energy costs were calculated based on current utility prices (\$0.12/kwh for electricity; \$0.94/therm for natural gas; \$2.78/gal for heating oil; \$2.52/gal for propane).
- Carbon footprint is based only on estimated home energy use. Carbon emissions are estimated based on utility and fuel-specific emissions factors provided by the OR Department of Energy.
- Retesting 2-7 years after the assessment date requires a free reprint of the Report from [us.greenbuildingregistry.com](https://www.usgreenbuildingregistry.com) to update energy and carbon information.
- This report meets Oregon's Home Energy Performance Score Standard and complies with Portland City Code Chapter 17.108.



How much home can you afford?

● For sale

\$575,000 Est. \$3,750/mo

3 bed 2.5+ bath 1,703 sqft

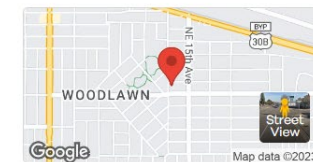
6882 NE 13th Ave, Portland, OR 97211

Condo Property type | 4 days Time on Realtor.com | HOA \$28/mo HOA fees

Property details

Excellent layout in this contemporary townhome within walking distance to Woodlawn Park! Walk to everything the Dekum Triangle offers including restaurants, shopping, Woodlawn Elementary and of course Woodlawn Park. High ceilings throughout the open living area on the main level with spacious kitchen w/island, plenty of storage, stainless steel appliances, and pantry. Primary suite has great separation from other bedrooms and features walk-in closet, walk-in shower, and double sinks. Really cool Jack and Jill bathroom connects 2nd and 3rd bedrooms, 2nd bedroom also features private patio. Desirable upper level laundry room. Head out onto the low maintenance fenced back patio. Has a very rare 10 rating for the Home Energy Score(HES). Absolutely a must see! [Home Energy Score = 10. HES Report at

[Show Less](#)



Commute time: [Add a commute](#)



FirstRate Report



YOUR HOUSE ENERGY RATING IS: ★★★★★★ **6 STARS**
in Climate: 24 **SCORE: 28 POINTS**

Name:	ACT Building Approvals	Ref No:	
House Title:	Unit 101 Block 2 Section 95 Harrison	Date:	16-08-2017
Address:	101/162 Flemington Road Harrison		2914
Reference:	C:\101-162 FLEMINGTON ROAD		



Building Assessor	Shane Robinson
ACT Code Licence Number	2016197
Energy efficiency rating	6 Stars
Point score	28 Points
Date of issue	14-01-2018
Signature	



Menu

realestate.com.au

Sign in

Buy > ACT > Kingston > House > 61 Kennedy Street

maloneys



Under offer

61 Kennedy Street, Kingston, ACT 2604

3 2 3 868m² House

\$1,900,000 Plus

Property features

- Building size: 148m²
- Carport spaces: 2
- Energy efficiency rating: Med (4.5)
- Garage spaces: 1





Building Energy Rating (BER)

DEAP Version X.Y

BER for the building detailed below is:

Name of House,
Street Name One, Street Name Two,
Town name One, Town Name Two,
County name One, County name Two,

BER Number: XXXXXXXXXX
Date of Issue: Day Month Year
Valid Until: Day Month Year
BER Assessor No.: XXXX
Assessor Company No.: XXXX

The Building Energy Rating (BER) is an indication of the energy performance of this dwelling. It covers energy use for space heating, water heating, ventilation and lighting, calculated on the basis of standard occupancy. It is expressed as primary energy use per unit floor area per year (kWh/m²/yr).

'A' rated properties are the most energy efficient and will tend to have the lowest energy bills.

Building Energy Rating
kWh/m²/yr

MOST EFFICIENT

<25	A1
>25	A2
>50	A3
>75	B1
>100	B2
>125	B3
>150	C1
>175	C2
>200	C3
>225	D1
>250	D2
>300	E1
>340	E2
>380	F
>450	G

LEAST EFFICIENT

Carbon Dioxide (CO₂) Emissions Indicator
kgCO₂/m²/yr

BEST

0

WORST

>120

The less CO₂ produced, the less the dwelling contributes to global warming.

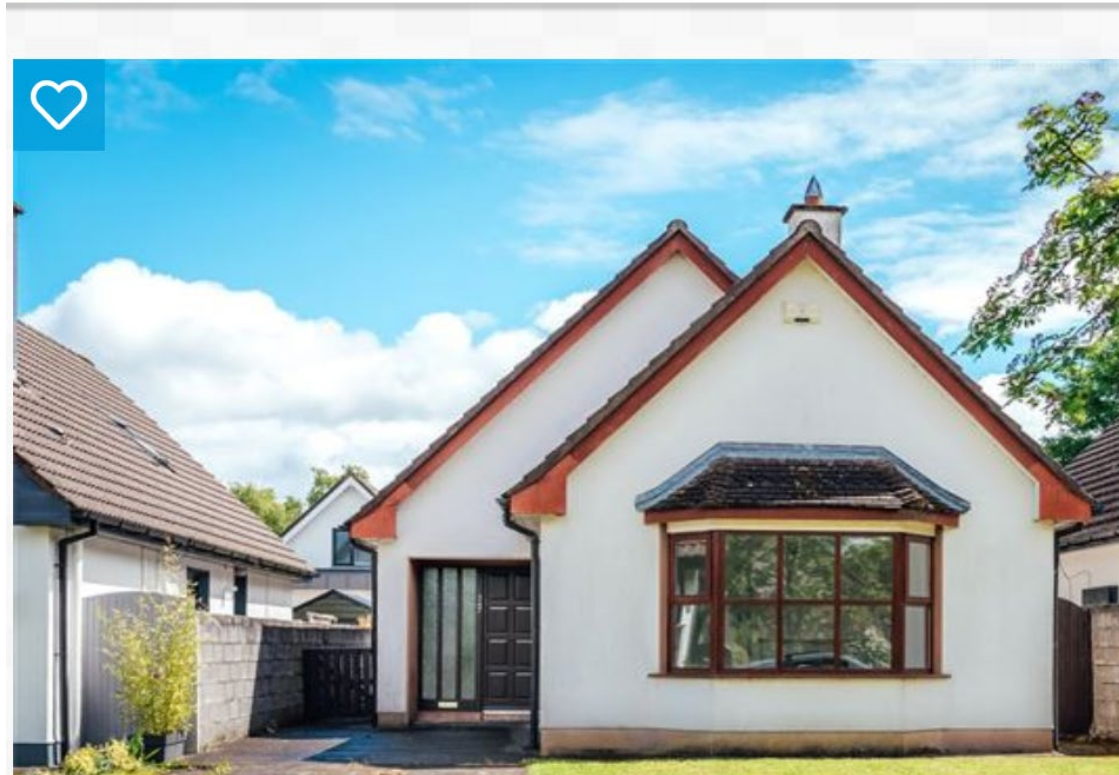
IMPORTANT: This BER is calculated on the basis of data provided to and by the BER Assessor, and using the version of the assessment software quoted above. A future BER assigned to this dwelling may be different, as a result of changes to the dwelling or to the assessment software.

€399,000

347 Sundays Well, Naas, Co. Kildare

🛏 4 beds | 🚿 3 baths | 🏠 127m² | **BER C2** | 🏡 Bungalow | ⌚ Refreshed on Nov 4, 2022

Eircode: W91 R9AW



Voluntary programs in Canada

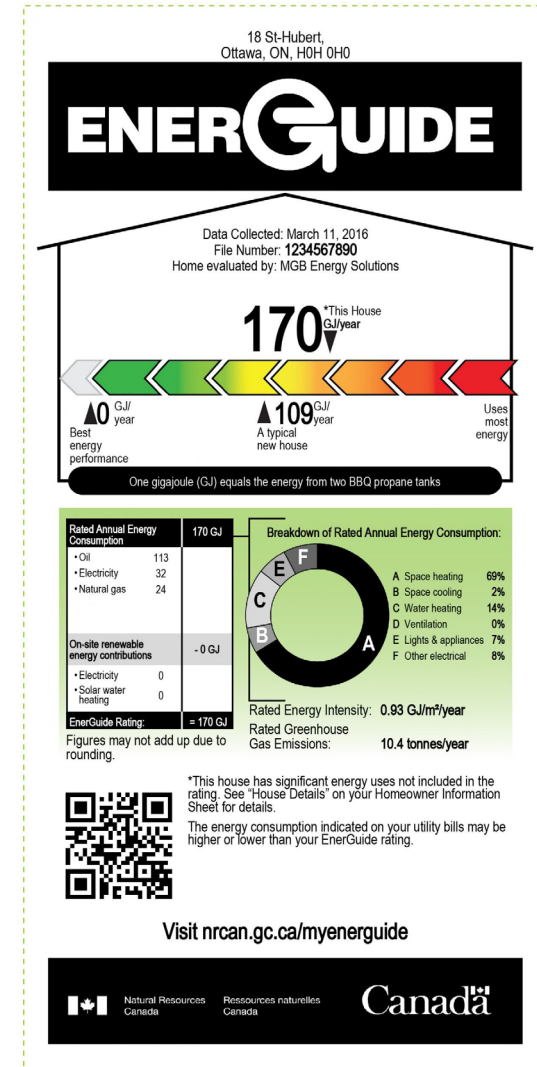


Energuide by NRCAN

Federal, Multi-step process for labeling new + existing homes

Rating provided in GJ/year – 0 is best energy performance

~200,000+ labels issued till date (2020 data)





RateOurHome.ca

Metro Vancouver's system to advance Energuide

61,785 homes received 1st label and 39,395 homes got post retrofit labels (2007-17)

Homeowner must apply to have their home displayed – 6 displayed

Edmonton's Home Energy Map

City offered rebates for assessment (out of money now), retrofit components and putting labels on a public map - >6k displayed



- Increased energy efficiency
- Reduced emissions
- Increased property value
- Job creation (energy assessors)



Indirect benefits



- Increased energy literacy
- Economic growth (trades etc)
- Supports other EE policies
- Helps municipal GHG commitments
- Transparency for home buyer
- Easier for sellers to sell efficiency



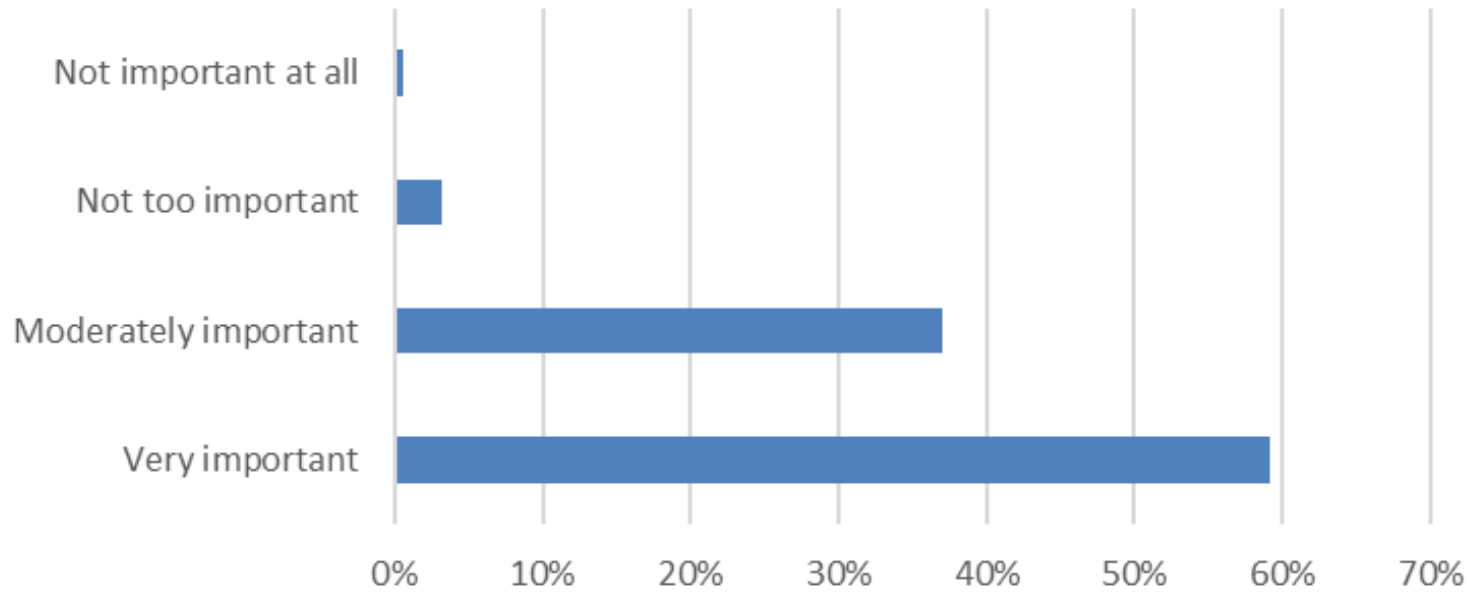
- Low homeowner interest
- Broad acceptance from multiple actors
- Privacy concerns
- Funding availability
- Capacity to deliver programs
- Low energy prices
- Uptake (voluntary programs)



- June 2022
- N=1005
- Error = +/- 3.1% 95%CI
- Representative of age, gender, income, province

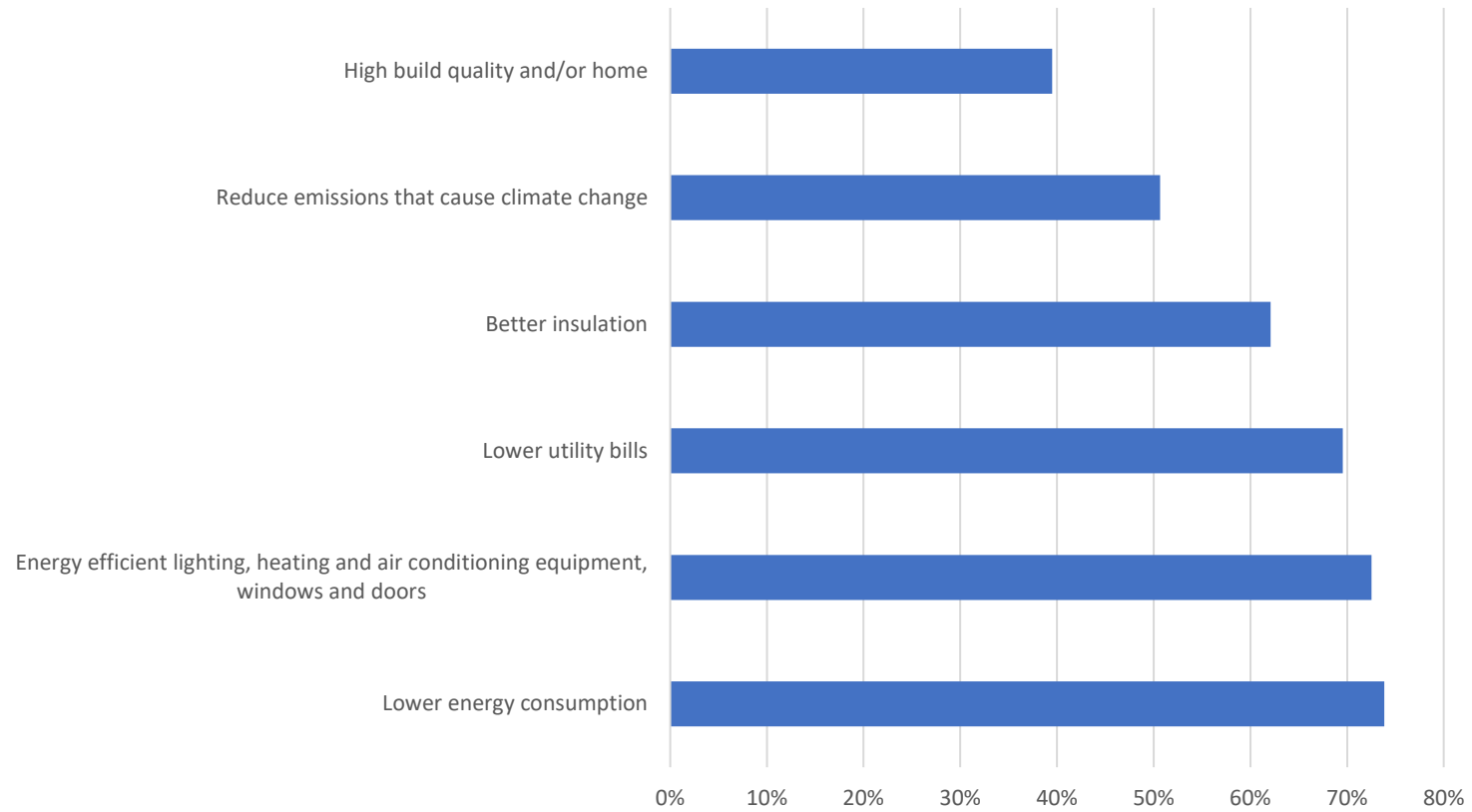


How important is it to know if a home is energy efficient and the approximate operating costs of a home?





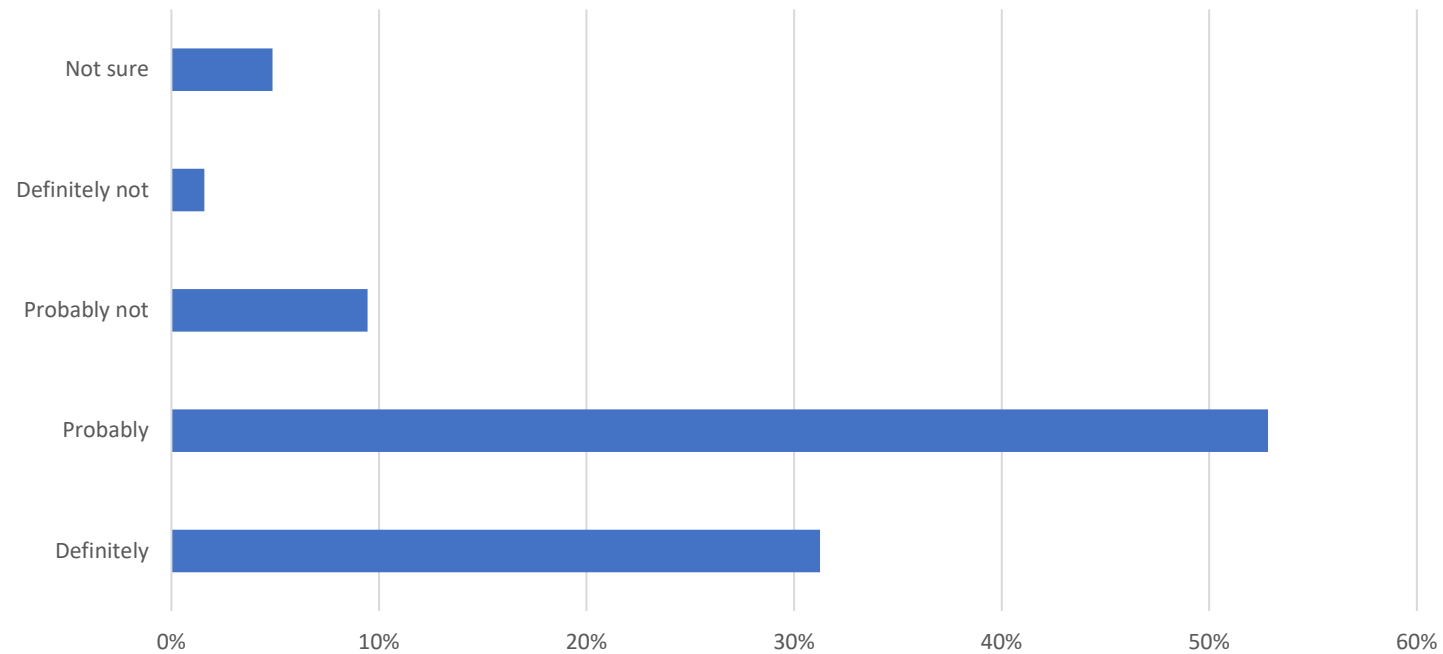
What do you think of when you hear the term energy efficient home?



Consumer preference survey



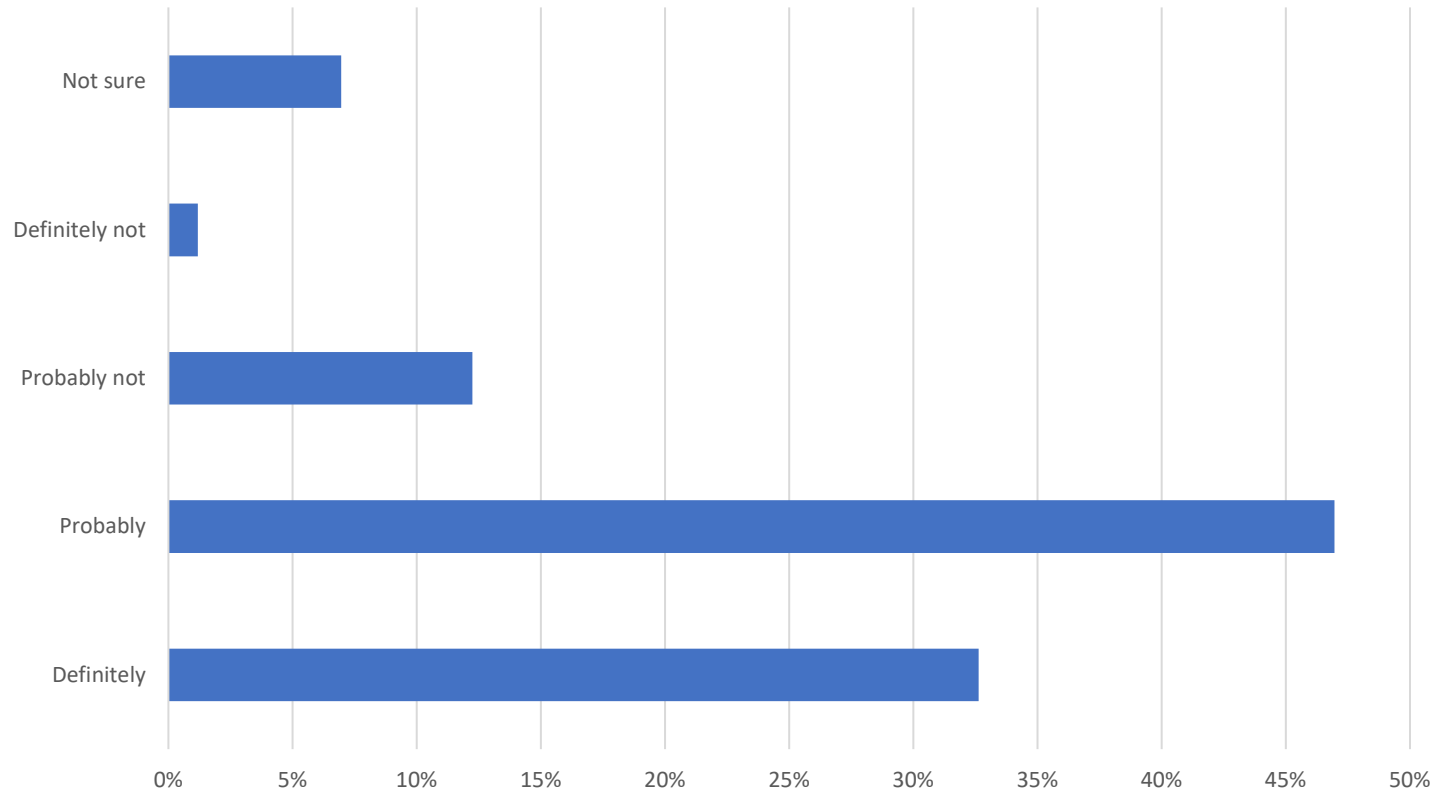
Do you think that a home's price would be affected by requiring its sellers to disclose their home's energy rating?



Consumer preference survey



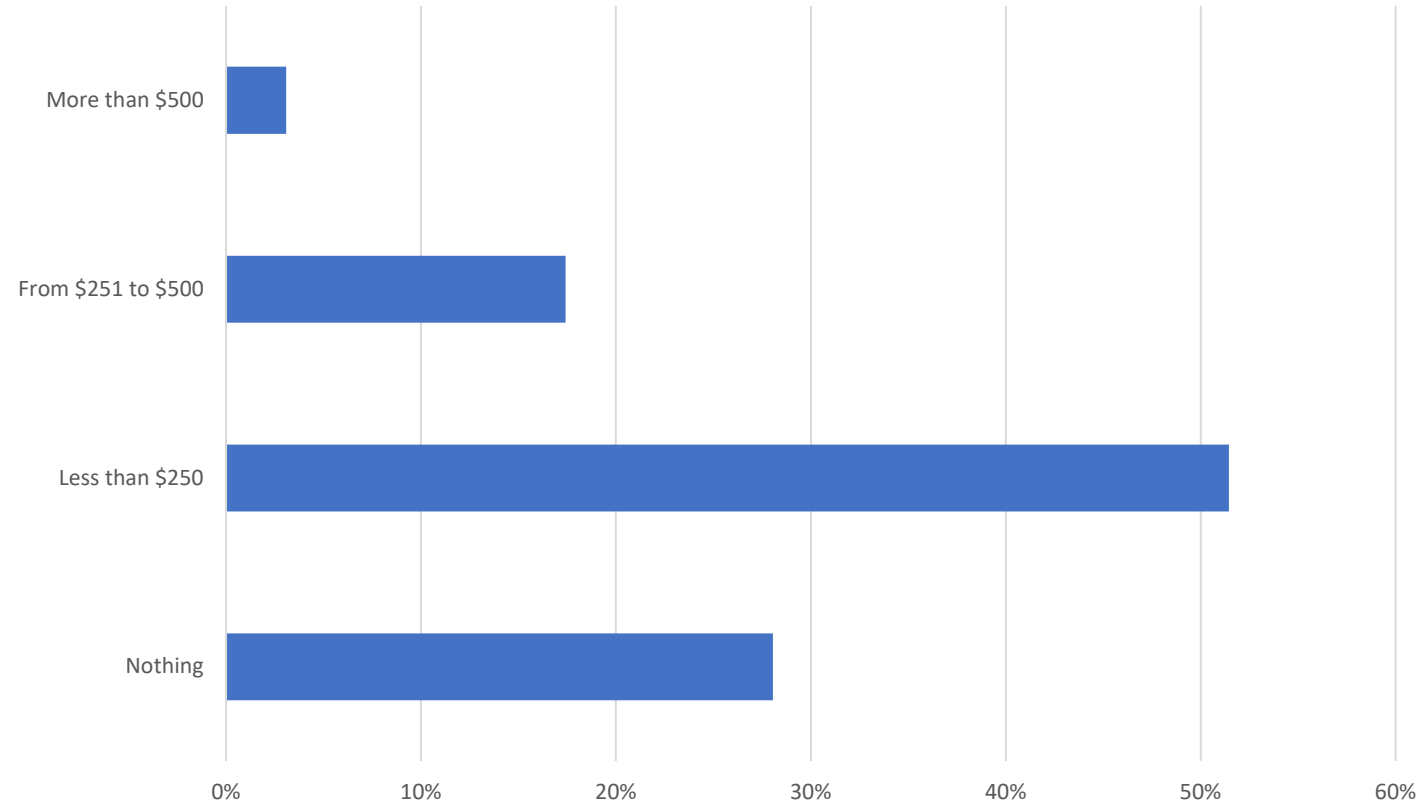
Would you be willing to get an energy assessment completed to determine your home's energy efficiency?



Consumer preference survey



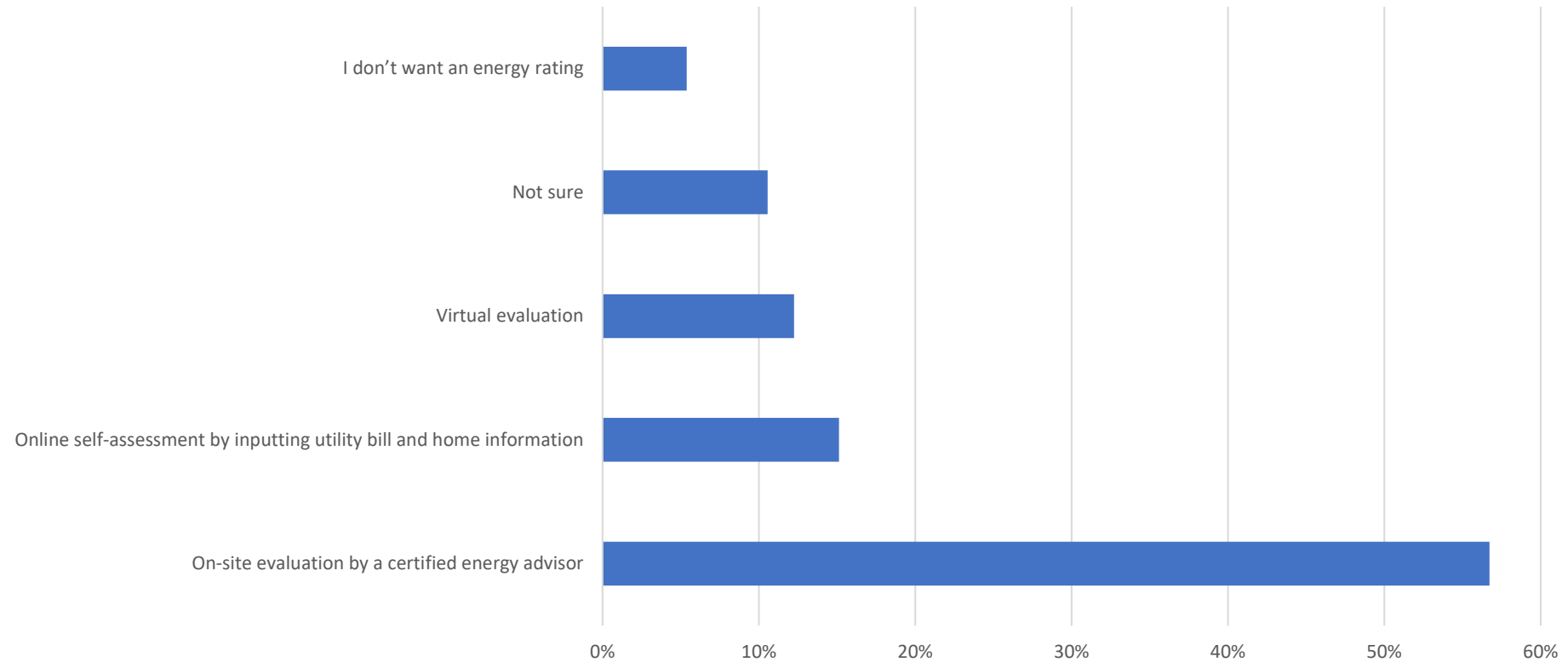
How much would you be willing to pay to have your home energy rated?



Consumer preference survey

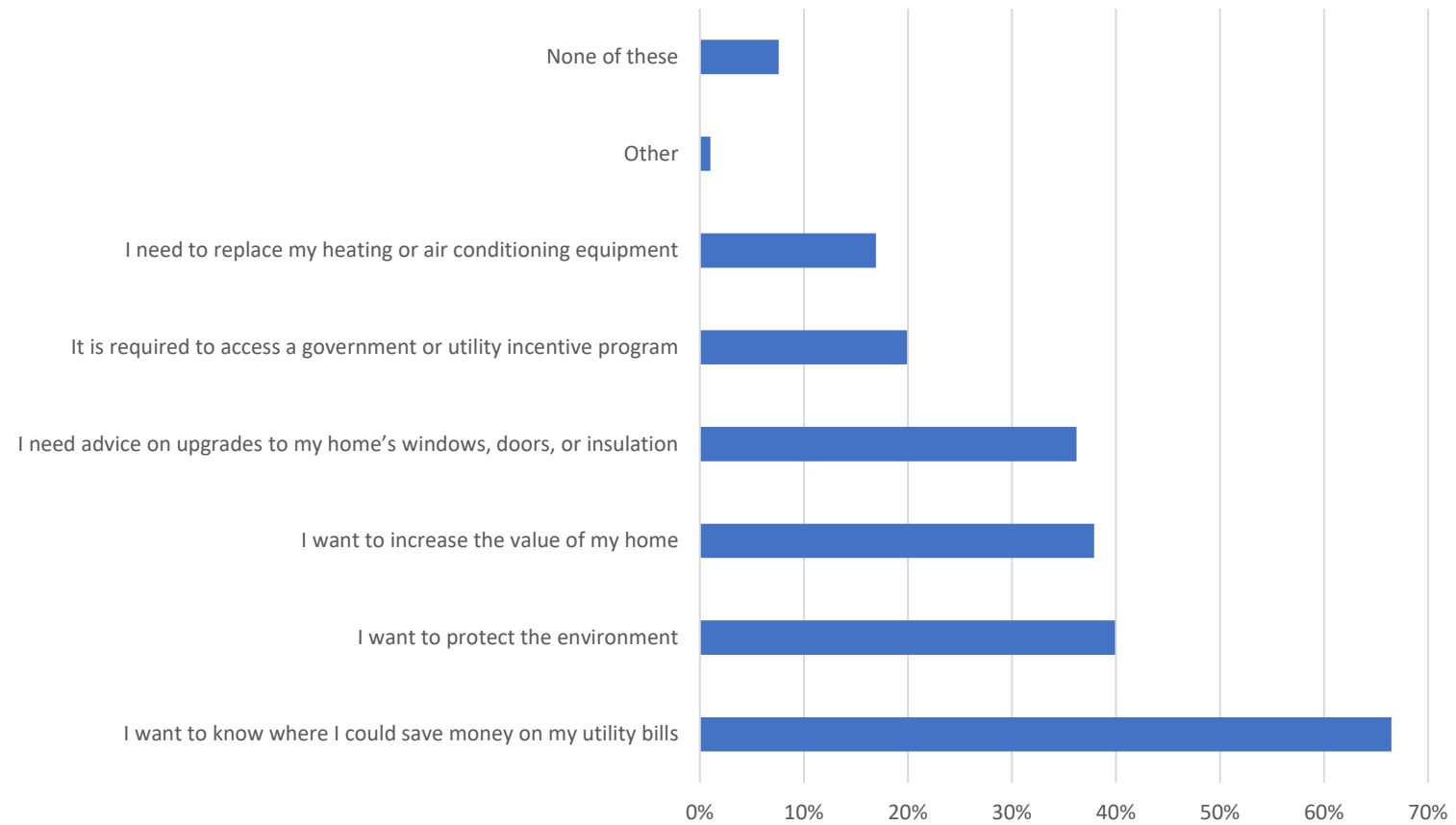


What is your preference for conducting home energy evaluations?



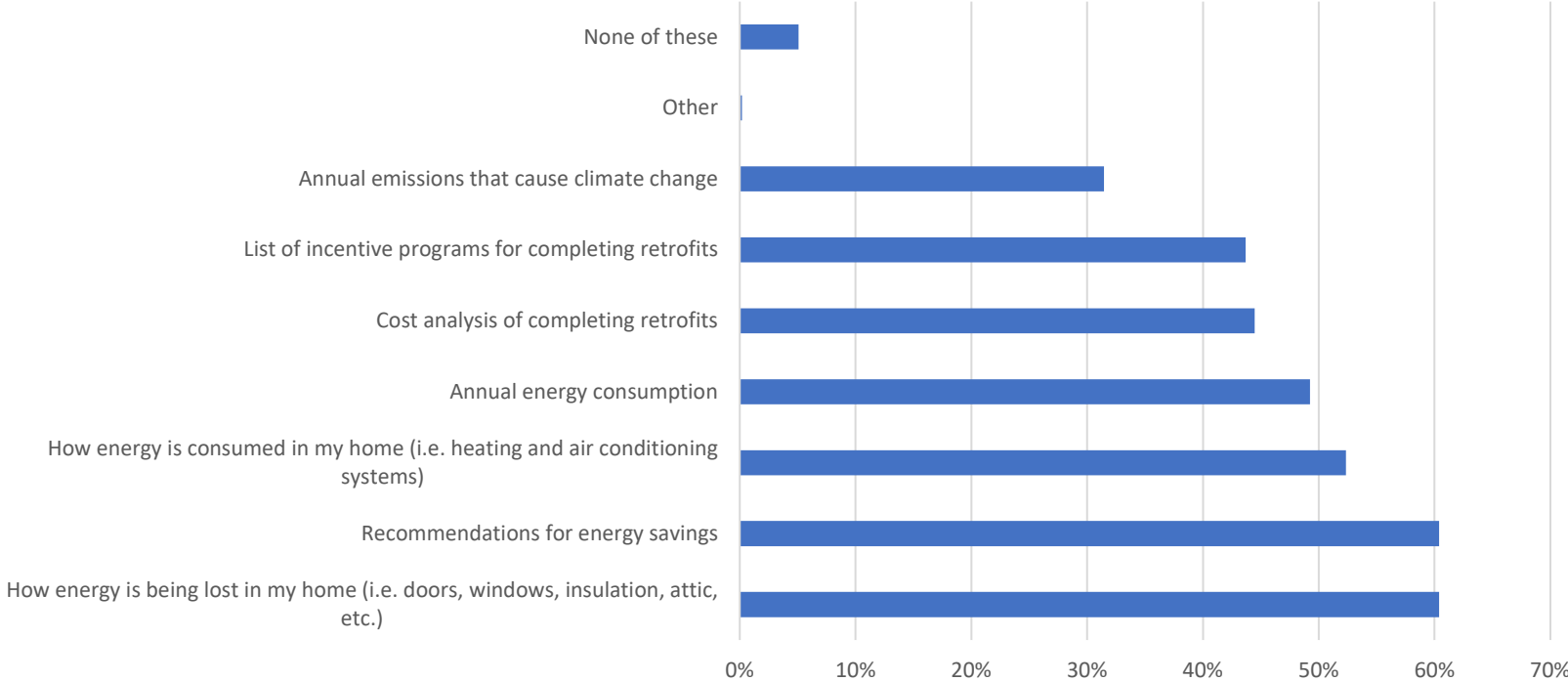


Why do you want your home's energy efficiency evaluated?





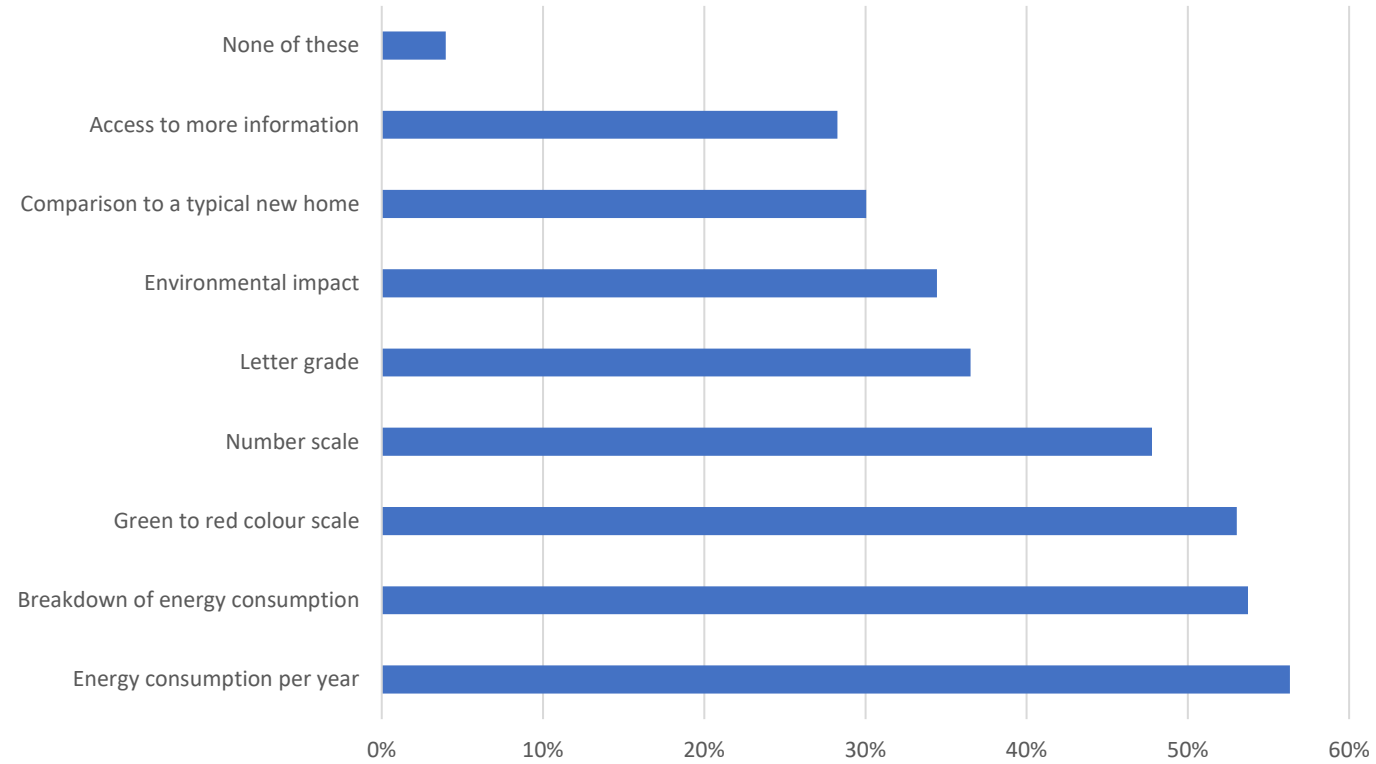
What type of information would you like to obtain from your home energy assessment?



Consumer preference survey

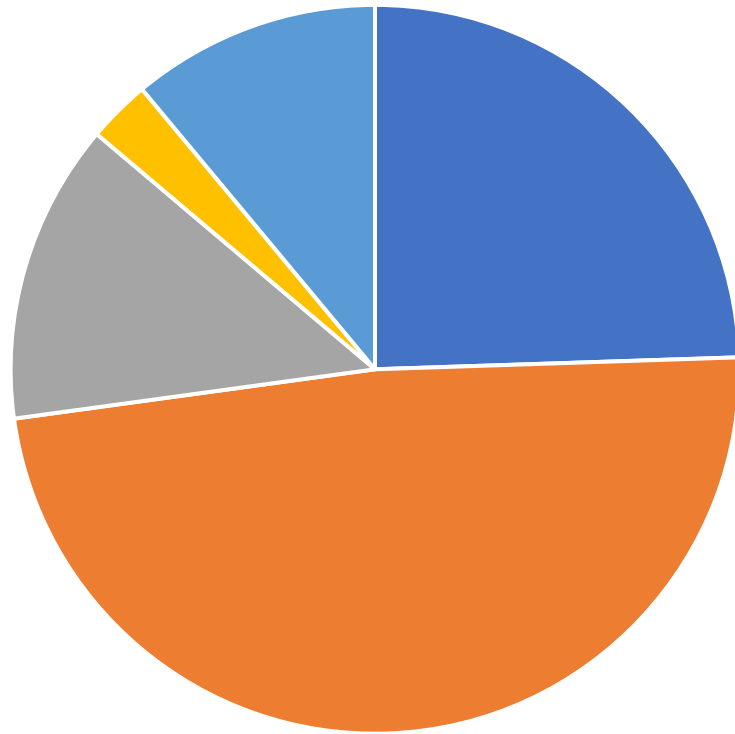


Usefulness of information on labels





Should energy labelling be tied to sale/lease of a house?

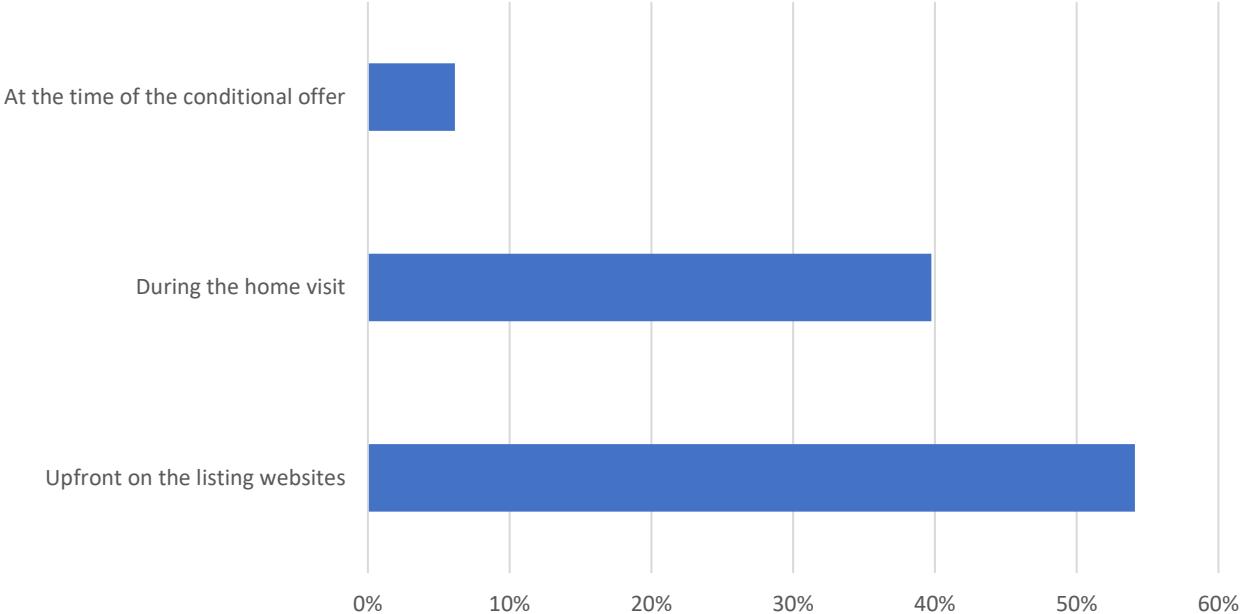


■ Definitely ■ Probably ■ Probably not ■ Definitely not ■ Not sure

Consumer preference survey



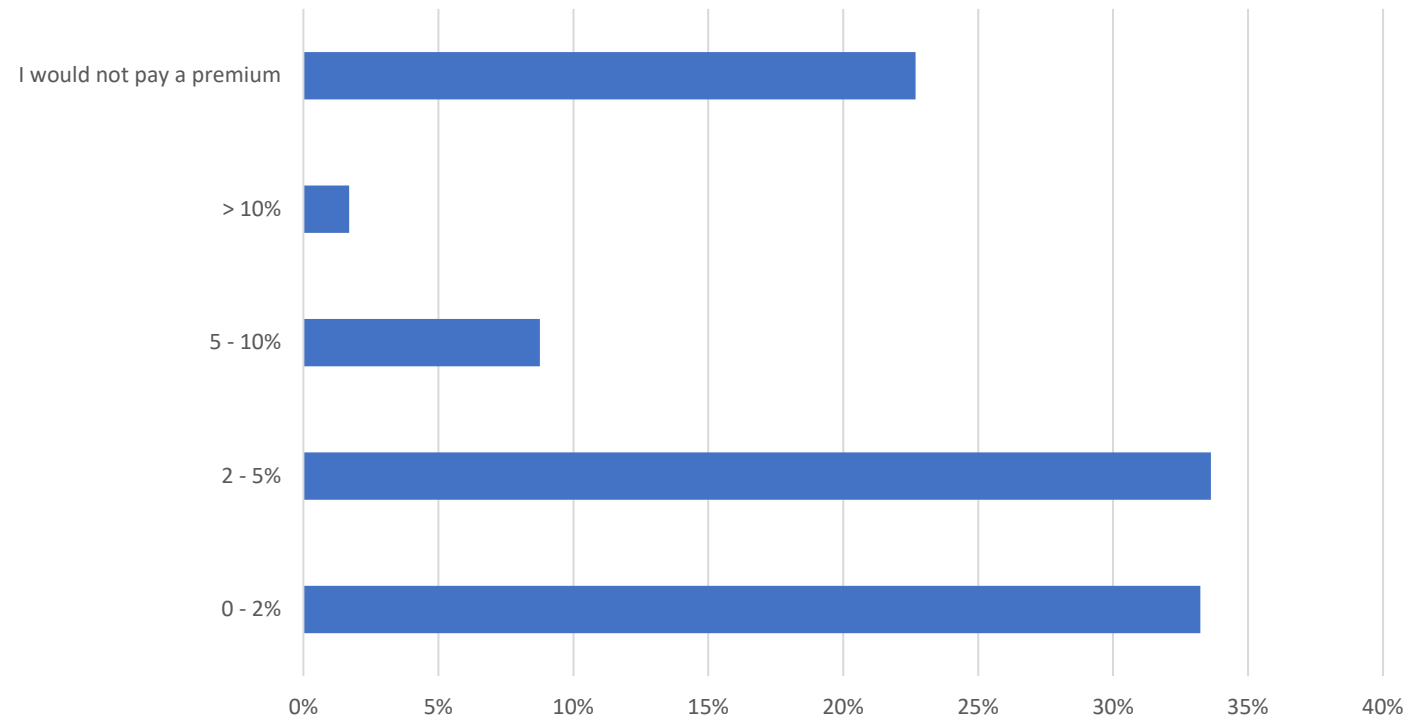
Timing of disclosure



Consumer preference survey



Premium respondents are willing to pay for an energy efficient home





Eligibility

Timing

Target Audience

Energy Assessments

Program Financing

Energy Labels

Energy Assessor Database

Program Administration

Software and I.T

Program Model

Risks and Risk Mitigation Strategies

Strategies to Drive HERD Demand



Project Phases:

~~Phase 1 - Research~~

~~Phase 2 - Design~~

Phase 3 - Commitment

Phase 4 - Implementation

Phase 5 - Monitoring and Evaluation



Questions?

Kevin Behan

kbehan@cleanairpartnership.org



What is the municipal role for energy labelling?