



# RENOVATION ENERGY UPGRADE PROPOSAL (REUP)

for 1-3 Storey Residential Alterations

Permit #

v.2.2 (Jan-2021)

This form is required to verify renovation energy upgrades are compliant with the Vancouver Building Bylaw. It is to be completed digitally, signed and submitted as part of the permit application. For more information, visit the website link at the bottom of this document.

## Project Information

Project Address:

Building Type (dropdown)

Scope of Work Summary *Alt+Enter to add a space*

Select 'Yes' if any of the following apply:

Construction Value > \$20,000

Construction Value > \$75,000

New dwelling unit(s) added to property

Heritage designation

Alternative flexibility upgrades needed?

Full home reconstruction

Reconstruction & floor area >325 m2?

## EnerGuide Evaluations

Existing Home Assessment (required for value > \$20,000)

EnerGuide File #:

Compromised envelope at time of assessment?

Post-Renovation Assessment (required for value > \$75,000)

\*Not required\*

## Upgrade Summary Table

Component in Scope? (Select "Y")	Upgrade Compliance (dropdown)	Additional Description	DWG #
Air Sealing			
Above grade walls			
Foundation walls			
Rim/box joists Pony Walls			
Attic Space			
Flat or vaulted exterior ceiling			
Basement slab			
Suspended and Exposed floors			
Exterior Swing Doors			
Windows Sliding Glass Doors			
Skylights and Roof Hatch			
Primary Heating System			
Supplemental Heating / Cooling			
Fireplaces			
Ventilation + Ductwork			
Domestic Hot Water			
Solar PV or Solar Thermal			
Other Selected Upgrades			

### Upgrade Selection + Flexibility Tool

Renovation Value > \$75,000?	<input type="text"/>	Points required	<input type="text" value="0"/>
Converting existing building into 2 or more strata titles	<input type="text"/>		<input type="text" value="0"/>
Existing house structure is relocated to a new property	<input type="text"/>		<input type="text" value="0"/>
<b>Upgraded Envelope</b>			
Vertical Walls - <i>maintain existing stud depth of impacted walls</i>	<input type="text"/>	of total home wall area	<input type="text" value="0"/>
Flat / Sloped Ceiling - <i>maintain existing stud depth of impacted ceiling</i>	<input type="text"/>	of total ceiling area	<input type="text" value="0"/>
<b>Other proposed alternative upgrades</b>			
<input type="text"/>	to offset by selecting appropriate # of points		<input type="text"/>
Required points to select:			<input type="text" value="0"/>

'Y' / #	Selected Upgrades to Existing House	DWG #
<b>Envelope and Insulation</b>		
- 0	<b>Minor air sealing:</b> target 10% ACH improvement – EA identifies major leaks; air sealing repairs completed (1 pt)	
- 0	<b>Major air sealing:</b> 50% reduction via professional aerosol system; requires at least one principal continuous exhaust fan (2 pts)	
- 0	<b>Attic insulation:</b> if <R12 increase to R28, if >R12 increase to R40, or home has existing R40+ (nominal values) (1 pt)	
- 0	<b>Flat or vaulted exterior ceiling:</b> increase to R14+, or home has existing R28+ (nominal values) (1 pt)	
- 0	<b>Uninsulated / exposed spaces:</b> fully insulate all crawl space / basement wall / exposed floor cavities (1 pt)	
- 0	<b>Exterior insulation:</b> (min 1" thick) on >50% of the home's exterior vertical above-grade sheathing (4 pts)	
<b>Home Electrification</b>		
- 0	<b>100% electric:</b> home fuel services disconnected (6 pts)	
- 0	<b>EV charger:</b> installation in carport or garage (1 pt)	
- 0	<b>Electric panel:</b> amperage upgrade to support additional electrical loads (1 pt)	
- -	<b>Solar PV:</b> rooftop array (1 point per kW installed, max. 3 points) or Solar Hot Water system (2 pts)	
- 0	<b>Appliance fuel-switch:</b> replace two fossil fuel-based appliances (fireplace, dryer, stove) with electric models (1 pt)	
<b>Windows, Doors and Sloped Glazing</b>		
- 0	<b>Passive cooling:</b> install awnings or exterior shading on windows / glass doors on at least one entire building face (1 pt)	
- -	<b>Windows:</b> Replace 3 existing units with Energy Star USI < 1.22 W/m2K (1 point per 3 units, max 3 pts)	
- 0	<b>Doors:</b> Replace two exterior doors, at least one achieving a USI < 1.64 W/m2K product (1 pt)	
<b>HVAC - Heating, Ventilation, Air Conditioning</b>		
- 0	<b>Ventilation and controls:</b> all bathrooms require exhaust fans on timers or humidistats; install smart home thermostat (1 pt)	
- 0	<b>Heat pump displacement:</b> install heat pump for <70% of house floor area - secondary system (3 pts)	
- 0	<b>Heat pump replacement:</b> install heat pump (ductless or central) as primary system for >70% of floor area (5 pts)	
- 0	<b>Heat Recovery Ventilator (HRV or ERV):</b> install >75% efficiency SRE at 0 deg C (2 pts)	
<b>Domestic Hot Water (DHW)</b>		
- 0	<b>Electric DHW:</b> replace existing system with an electric model (1 pt)	
- 0	<b>Heat Pump DHW:</b> Replace existing system with a heat pump model (3 pts)	
- 0	<b>Drain Water Heat Recovery:</b> install a minimum 42% DWHR system (1 pt)	
<b>Other (propose upgrades not in this list, to be reviewed by Vancouver Energy staff)</b>		
- -		
- -		

Total Selected Points

*Complete. Add selected upgrades to page 1 table*

#### Information and Signature

EA Name and EA #:	<input type="text"/>	EA Email:	<input type="text"/>
EA Company:	<input type="text"/>	EA Phone:	<input type="text"/>
Energy Advisor Signature:	<input type="text"/>	Date:	<input type="text"/>
Homeowner (or representative):	<input type="text"/>	Owner signature	<input type="text"/>