Building your new home with Efficiency Vermont

Specifications & Incentives





What are the different requirements and where does your project fit in?

Your Energy Consultant will work with you to determine the best fit.

Earn up to \$2,000 in incentives!

Certification Requirements	Efficiency Vermont Certified: Base Level*	Efficiency Vermont Certified: High Performance Level	Your Project
Energy Code Compliance	Meet Vermont energy code		
Foundation Wall Insulation– Minimum R-Value	R-15 continuous or R-20 cavity	R-30	
Slab Edge Insulation (when within 12" finished grade)	R-15 Must extend a total of 4 ft. vertical or horizontal	R-30: slab on grade R-20: slab below grade Footing: ≥ R-8	
Insulation Under Slab	R-15 under heated slab only	R-20: unheated below grade R-30: unheated on grade R-30: all heated slabs	
Floor Insulation (exposed)	R-38 or R-30 + R-5 continuous	R-40	
Wall Insulation (above grade & band joist)- Minimum R-Value	R-20 cavity or R-13 cavity + R-10 continuous	R-40	
Ceiling Insulation (flat & sloped)– Minimum R-Value	R-49 sloped R-60 flat	R-60	
Insulation Installation– Installation quality (using RESNET Grading System) will be verified by Efficiency Vermont at pre- drywall inspection	Grade II	Grade I	
Thermal Enclosure Inspection	Must pass visual inspection prior to drywa	site visit required	

Call Efficiency Vermont to schedule a site visit.

*Efficiency Vermont Certified insulation and window values can be met through any of the Residential Building Energy Standards (RBES) "Stretch Code" Fast Track packages. Refer to RBES Handbook for details at publicservice.vermont.gov/topics/energy_efficiency/rbes.

Certification Requirements	Efficiency Vermont Certified: Base Level	Efficiency Vermont Certified: High Performance Level	Your Project	
Air Leakage- Maximum ACH50	Test to \leq 3 ACH50	Test to ≤ 1 ACH50		
Windows- Maximum Average U-Factor	U-0.28	U-0.21		
Doors– Maximum Average U-Factor	U-0.28	U-0.25		
Heating & Cooling Equipment- Minimum Efficiency	ENERGY STAR® certified or equivalent	ENERGY STAR certified or equivalent* *Boilers must achieve minimum 94% AFUE		
Heating & Cooling Distribution & Control	At least one programmable thermostat required.* Meets RBES; if ducted system is used, ducts must be inside conditioned space.	Custom approach depending on system chosen. Discuss with HVAC contractor and Energy Consultant.		
Ventilation	Whole house: automated mechanical ventilation per code Local (per code): baths with 50 cfm intermittent or 20 cfm continuous	Meets ASHRAE 62.2 or Passive House with: Whole house ventilation (bath and kitchen), balanced with heat recovery efficiency 80% or better		
Water Heating Equipment	Meets Federal minimum standard	ENERGY STAR or equivalent <i>Recommended:</i> drain water heat recovery		
Lighting (% of bulbs in permanently installed fixtures)	80% ENERGY STAR certified fixtures and/or bulbs	95% ENERGY STAR certified fixtures and/or bulbs		
Appliances (refrigerator, dishwasher, clothes washer)	ENERGY STAR certified	ENERGY STAR certified		
Final Inspection	Must pass visual inspection to receive Efficiency v	site visit required		

With a few upgrades in lighting, HVAC, durability, air leakage, insulation quality, and ventilation, you can achieve nationally-recognized ENERGY STAR Homes Certification.

*Programmable thermostats required for furnaces, boilers, or heat pumps-except in zones with radiant heat or inverter-driven, variable-speed ductless heat pumps.

Earn up to \$2,000 in incentives

EFFICIENCY VERMONT INCENTIVES								
Efficiency Vermont Certification: Base Level	\$500*	Efficiency Vermont Certification: High Performance Level	\$2,000*					
Continuous above grade wall insulation bonus (minimum R-11.25 exterior for 2 x 6 wall, R-10 for 2 x 4 wall, or double stud wall)	\$600	Or \$1,000 plus installation of an online whole-house energy monitoring system and two-year subscription.						
TECHNICAL ASSISTANCE								
Home Energy Rating								
Help complying with RBES (VT energy code)								
Energy consultation throughout project								
ADDITIONAL INCENTIVES								
In Vermont Gas Systems territory:		In Washington Electric Cooperative territory:						
Drain water heat-recovery system bonus:	\$200	Heat and energy recovery ventilation systems bonus:	\$500					

*\$500 comes from Vermont Gas Systems (VGS) or Washington Electric Cooperative (WEC) in their service territories. All incentives are paid by Burlington Electric Department for projects within the city of Burlington.

NOTE: If you are already receiving incentives through another Efficiency Vermont or VGS program for this project, you are not eligible for additional incentives.

Glossary of terms

ACH50

Air changes per hour at 50 pascals pressure difference between indoors and outdoors–a measure of a home's air tightness

cfm

Cubic feet per minute-measures air flow

HERS

Home Energy Rating System

HERS Index

nationally-recognized performance score, measuring overall energy efficiency (the lower the score, the more efficient the home)

Grade I insulation

Air-permeable wall insulation enclosed on six sides; in full contact with enclosure; no gaps; less than 2% compression

Grade II insulation

Air-permeable wall insulation enclosed on six sides; in full contact with enclosure; less than 2% gaps and less than 10% compression (Grade II is less effective than Grade I)

R-value

Measures insulation levels (the higher the better)

RBES

Residential Building Energy Standards (a.k.a. Vermont energy code)

RESNET

Residential Energy Services Network–a national Home Energy Rating certification organization

U-factor

Measures how well a material conducts heat (the lower the better)

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