OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
la	EFFICIENT BUILDING ENVELOPE 1a: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38 Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	0.5	
1b	Compliance based on Section R402.1.4: Reduce the Total UA by 5%.EFFICIENT BUILDING ENVELOPE 1b: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 Floor R-38 Basement wall R-21 int plus R-5 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab oror	1.0	
1c	Compliance based on Section R402.1.4: Reduce the Total UA by 15%.EFFICIENT BUILDING ENVELOPE 1c: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22 Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38 Basement wall R-21 int plus R-12 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slabor	2.0	
1d ^a	Compliance based on Section R402.1.4: Reduce the Total UA by 30%.EFFICIENT BUILDING ENVELOPE 1d:Prescriptive compliance is based on Table R402.1.1 with the following modifications:Vertical fenestration U = 0.24	0.5	
2a	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2a: Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximumandAll whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with a high efficiency fan (maximum 0.35 watts/cfm), not interlocked with the furnace fan. Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode.To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the qualifying ventilation system.	0.5	
2b	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2b: Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum and All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.70. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.	1.0	

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
2c	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2c: Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum and	1.5	
	All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.85.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.		
3a ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3a: Gas, propane or oil-fired furnace with minimum AFUE of 94%, or Gas, propane or oiled-fired boiler with minimum AFUE of 92%	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3b ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3b: Air-source heat pump with minimum HSPF of 9.0	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3c ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3c: Closed-loop ground source heat pump; with a minimum COP of 3.3	1.5	
	or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3d ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3d: Ductless Split System Heat Pumps, Zonal Control: In homes where the primary space heating system is zonal electric heating, a ductless heat pump system shall be installed and provide heating to the largest zone of the housing unit.	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
4	HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM:	1.0	
	All heating and cooling system components installed inside the conditioned space. This includes all equipment and distribution system components such as forced air ducts, hydronic piping, hydronic floor heating loop, convectors and radiators. All combustion equipment shall be direct vent or sealed combustion.		
	For forced air ducts: A maximum of 10 linear feet of return ducts and 5 linear feet of supply ducts may be located outside the conditioned space. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed		
	with mastic. If flex ducts are used, they cannot contain splices. Flex duct connections must be made with nylon straps and installed using a plastic strapping tensioning tool. Ducts located outside the conditioned space must be insulated to a minimum of R-8.		
	Locating system components in conditioned crawl spaces is not permitted under this option.		
	Electric resistance heat and ductless heat pumps are not permitted under this option.		
	Direct combustion heating equipment with AFUE less than 80% is not permitted under this option.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the location of the heating and cooling equipment and all the ductwork.		

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
5a	EFFICIENT WATER HEATING 5a:	0.5	
	All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75		
	GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less. ^c		
	To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall specify the maximum flow rates for all showerheads, kitchen sink faucets, and other lavatory faucets.		
5b	EFFICIENT WATER HEATING 5b:	1.0	
	Water heating system shall include one of the following:		
	Gas, propane or oil water heater with a minimum EF of 0.74		
	or		
	Water heater heated by ground source heat pump meeting the requirements of Option		
	3c.		
	or		
	For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0 that would supply DHW to all the units through a central water loop insulated with R-8		
	minimum pipe insulation.		
	To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall specify the water heater equipment type and the minimum		
	equipment efficiency.		
5c	EFFICIENT WATER HEATING 5c:	1.5	
	Water heating system shall include one of the following:		
	Gas, propane or oil water heater with a minimum EF of 0.91 or		
	Solar water heating supplementing a minimum standard water heater. Solar water		
	heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the		
	Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300		
	Certified Solar Water Heating Systems		
	or Electric heat summ water bester with a minimum $EE = f^2 0$ and meeting the standards		
	Electric heat pump water heater with a minimum EF of 2.0 and meeting the standards of NEEA's Northern Climate Specifications for Heat Pump Water Heaters		
	To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall specify the water heater equipment type and the minimum		
	equipment efficiency and, for solar water heating systems, the calculation of the		
	minimum energy savings.		
5d	EFFICIENT WATER HEATING 5d:	0.5	
	A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equal flow		
	or a minimum efficiency of 52% if installed for unequal flow. Such units shall be		
	rated in accordance CSA B55.1 and be so labeled.		
	To qualify to claim this credit, the building permit drawings shall include a plumbing		
	diagram that specified the drain water heat recovery units and the plumbing layout		
	needed to install it and labels or other documentation shall be provided that		
	demonstrates that the unit complies with the standard.		

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
6	RENEWABLE ELECTRIC ENERGY: For each 1200 kWh of electrical generation per each housing unit provided annually by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits.	0.5	
	Generation shall be calculated as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs. Documentation noting solar access shall be included on the plans.		
	For wind generation projects designs shall document annual power generation based on the following factors:		
	The wind turbine power curve; average annual wind speed at the site; frequency distribution of the wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production.		