NEW RELATIONSHIP TRUST
Empowering First Nations in British Columbia

Community Building Demand Side Management (DSM) Requirements
Community Energy Diesel Reduction Program (CEDR)

The Community Building DSM funding stream provides up to $500,000 to support the planning and implementation of energy efficiency and DSM activities in large non-residential buildings. The following document outlines the eligible activities for this funding as well as the performance requirements that vary depending on building type.

Please contact CEDR Program staff at cedr@nrtf.ca to confirm the requirements for your project.

Description	Eligible Activities	CEDR Program Requirements
1. Building Envelope		
Enhancing the building envelope—through improved insulation, windows, and doors—reduces energy loss and improves comfort.	• **Air Sealing:** Enhancing the airtightness of structures to prevent energy loss. • **Insulation:** Upgrading insulation in walls, attics, and crawlspaces to improve thermal performance. • **Windows and Doors:** Replacing or upgrading to energy-efficient models to reduce heat transfer.	Activities must directly contribute to substantial improvements in thermal performance.
2. Heating and Cooling Systems		
Heat pumps offer efficient heating and cooling, significantly reducing energy consumption.	• **Primary Space Heating:** Installing heat pumps to reduce energy consumption. • **Ventilation:** Implementing systems that ensure adequate air exchange while minimizing energy loss.	For heat pump projects in community buildings (e.g., a central heat pump system installation in an administration office), projects may require a feasibility study or other documentation based on factors such as building size and system complexity. Where applicable, must follow the CleanBC Better Buildings Commercial Express Program requirements.
3. Water Heating		
Upgrading to energy-efficient heat pump water heaters to reduce energy usage.	• **Heat pump water heater**	Where applicable, must follow the CleanBC Better Buildings Commercial Express Program requirements. Residential HPWH Qualified Products List Commercial HPWH Qualified Products List

4. System Optimization		
Critical upgrades that optimize overall energy performance	• **Lighting & controls** • **Electrical system upgrades** • **Advanced programmable thermostats**	Activities must directly contribute to substantial improvements in building performance.
5. Appliances		
Upgrading to energy-efficient appliances lowers operational energy use.	• **Refrigerator** • **Freezer** • **Repairs & upgrades**	Where applicable, must be an ENERGY STAR certified appliance: ENERGY STAR Commercial refrigerators & freezers ENERGY STAR Residential freezers ENERGY STAR Residential refrigerators
6. Building Assessments, Engineering & Feasibility		
Feasibility, energy study, or mechanical design		Varies based on building size and scale, please confirm with CEDR staff.

Funding Eligibility Requirements

Please find below the funding eligibility requirements for the Community Building DSM funding stream

- Incentives will not exceed 100% of the total applicable project cost as provided in your invoice submission
- Building assessment/feasibility/mechanical design/engineering for complex buildings must be submitted prior to release of funding
- For larger, complex buildings submission of engineering plans with review of as-built drawings of the system to ensure that the as built system is similar/the same as the designed system that was reviewed earlier in the process
- Reporting may require the submission of a community building workbook
    - Supporting documentation will include paid invoices. Invoices must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

1. BUILDING ENVELOPE MEASURES

Insulation

Incentive requirements:

- Insulation added must be equal to or greater than the minimum required R-value added (outlined below).
- New insulation must be:
  - Batt, loose fill, board or spray foam.
  - We recommend having installation completed by a licensed contractor with a GST number and a valid B.C. business license for the trade applicable to the upgrade being installed. Self installations are not eligible. It is also recommended to have the installation completed by a Home Performance Contractor Network (HPCN) or BC Hydro Alliance of Energy Professionals member.
  - Installed to reduce heat loss from the building (e.g., insulation for soundproofing for insulation in outbuildings is not eligible).

Insulation Location	Minimum R-value added (Simple)	Minimum R-value added (Complex)
Roof insulation	**R12**	**R25 (Surface), R40 (cavity)**
Walls	**R10**	**R17**

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

1. BUILDING ENVELOPE MEASURES

Windows and Doors

Incentive requirements:

- Skylights are not eligible for an incentive.
- The new windows and/or doors must:
  - Be listed with one of the following certification bodies:
    - Canadian Standards Association (CSA)
    - Intertek Canada (Intertek)
    - Keystone Certification (KC)
    - Labtest Certification (LC)
    - QAI Laboratories (QAI)
    - National Fenestration Ratings Council (NFRC)
  - We recommend having the installation completed by a licensed contractor with a GST number and a valid B.C. business license for the trade applicable to the upgrade being installed. Self installations are not eligible.

Upgrade	Efficiency requirements
High efficiency window/door	**U-Factor of 1.22 W/m² – K or less (as indicated on the product label)**

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

2. HEATING AND COOLING SYSTEMS

Ventilation

Incentive requirements:

- A building must be completing eligible building envelope upgrades in at least one category (e.g., insulation, windows, doors) to qualify for a ventilation incentive. The ventilation incentive is not available for a building without associated building envelope upgrades.
- Ventilation systems must:
  - Be Energy Star® certified and appear on the qualifying product list.
  - Have a capacity of at least 85 CFM (40 L/s), at static pressure of 50 pa (0.2" w.c.)
  - Be rated for continuous duty and equipped with permanently lubricated motors.
  - Be equipped with self-closing backdraft damper to prevent air flow during "off" periods.
  - Be ducted directly to the outside of the Premises.
  - Be sealed at joints with duct sealer or aluminum duct sealing tape.
  - Be insulated to minimum R4 (RSI 0.75) if exhausting warm air through unheated spaces.
  - Be screened with ¼" (6 mm) to ½" (12 mm) mesh, of corrosion-resistant material to shield from weather, birds, and rodents.

Ventilation Upgrade	Efficiency requirements
Bathroom or kitchen fan systems	**Energy Star® certified fan system, including ducting to outside**

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

2. HEATING AND COOLING SYSTEMS

Air Source Heat Pumps (Simple buildings)

Incentive Requirements:

- The new heat pump must:
  - Be sufficiently sized to function as the primary heating system for the building.
  - Have an AHRI certified reference number that references all components of the heat pump.
  - Be listed as a qualifying system on the qualified heat pumps list.
- Replacing an existing heat pump or adding a head to an existing heat pump are not eligible.
- Emergency replacement of broken electrical systems is not eligible.
- Heat pumps with a maximum static pressure of less than 0.6" Water Column (WC) are considered ductless mini-split or ductless multi-split systems.
  - All upgrades must be installed by a licensed contractor with a GST number and a valid B.C. business license for the trade applicable to the upgrade being installed (e.g., heat pumps must be installed by a licensed heating and cooling contractor). Self-installations are not eligible. It is recommended to have the installation completed by a Home Performance Contractor Network (HPCN) or BC Hydro Alliance of Energy Professionals member.

Heat Pump Type	Efficiency requirements
Ductless mini-split heat pump **Serves one zone**	○ **SEER1 ≥ 16, HSPF1 ≥ 10 (Region IV) or** ○ **SEER2 ≥ 15.2, HSPF2 ≥ 8.5 (Region IV)** ○ **Variable speed compressor** ○ **Minimum capacity of 12,000 BTU (1 ton)** ○ **Eligible homes must be 1,200 sq. ft. or less**
Ductless multi-split heat pump **Serves multiple zones**	○ **SEER1 ≥ 16, HSPF1 ≥ 10 (Region IV) or SEER2 ≥ 15.2,** ○ **HSPF2 ≥ 8.5 (Region IV)** ○ **Variable speed compressor** ○ **Minimum capacity of 12,000 BTU (1 ton)** ○ **Must install a minimum of two indoor head units**
Central ducted heat pump (Tier 2) **Serves multiple zones**	○ **SEER1 ≥ 16, HSPF1 ≥ 10 (Region IV) or SEER2 ≥ 15.2,** ○ **HSPF2 ≥ 8.5 (Region IV)** ○ **Variable speed compressor** ○ **Minimum capacity of 12,000 BTU (1 ton)**

Air Source Heat Pumps (Complex buildings)

Incentive Requirements:

- For heat pump projects in community buildings (e.g., a central heat pump system installation in an administration office or school), projects may require a feasibility study or other documentation based on factors such as building size and system complexity.
- Where applicable, must meet or exceed the CleanBC Better Buildings Commercial Express Program requirements by building type.
- Must be a qualified heat pump under the Clean BC Better Homes Qualified Products List.

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

2.HEATING AND COOLING SYSTEMS

Ground-source Heat Pumps

Incentive requirements:

- System capacity must be ≤ 40 kW
- Direct expansion (DX), water-to-water, and brine-to-water systems are not eligible.
- For details on eligible heat pumps, please see the eligible products list.

Heat Pump Type	Efficiency requirements
Open systems	Heating COPh ≥ 3.6 with 10°C entering water Cooling COPc ≥ 4.75 with 15°C entering water
Closed loop systems	Heating COPh ≥ 3.1 with 0°C entering water Cooling COPc ≥ 3.93 with 25°C entering water

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payment, etc.

3. WATER HEATING

Heat Pump Water Heater (Simple Buildings)

Incentive requirements:

- The existing water heater being replaced must be the primary water heater.
- Emergency replacement of a broken electric heat pump water heater or existing electric heat pump water heater is not eligible.
- Eligible systems are listed as Tier 2 or higher on Northwest Energy Efficiency Alliance (NEEA) qualified products list.
- It is recommended that all installations be completed by a licensed contractor with a GST number and a valid B.C. business license for the trade applicable to the upgrade being installed; e.g., heat pump water heaters must be installed by a licensed heating and cooling contractor and/or plumber. Self installations are not eligible.

Heat Pump Type	Efficiency requirements
Electric heat pump water heater	**Tier 2 or higher on NEEA's Advanced Water Heater Specification Qualified Products List for Heat Pump Water Heaters.**

Heat Pump Water Heater (Complex Buildings)

- For heat pump projects in community buildings (e.g., a central heat pump system installation in an administration office or school), projects may require a feasibility study or other documentation based on factors such as building size and system complexity.
- Where applicable, must meet or exceed the CleanBC Better Buildings Commercial Express Program requirements and qualified product lists, where applicable.
- Products should be found on the Northwest Energy Efficiency Alliance (NEEA) qualified products list Commercial HPWH Qualified Products List

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payments, etc.

4. Appliance Upgrades

Refrigerators

Incentive requirements:

- The existing refrigerator being replaced must be manufactured in 2008 or earlier. Click here to learn how to verify the age of the existing unit.
- Existing refrigerators must be removed from the premises upon delivery of the replacement refrigerator.
- The replacement refrigerator must be Energy Star® certified and listed on the qualifying product list.

Appliance upgrade	Efficiency requirements
Refrigerator	**Energy Star® certified refrigerator**

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payments, etc.
- Invoices/receipts must include the make and model number of the refrigerator installed.

4. Appliance Upgrades

Chest Freezers

Incentive requirements:

- The existing chest freezer being replaced must be manufactured in 2008 or earlier. Click here to learn how to verify the age of the existing unit.
- Existing freezers must be removed from the premises upon delivery of the replacement refrigerator.
- The replacement freezer must be Energy Star® certified and listed on the qualifying product list.

Appliance upgrade	Efficiency requirements
Chest Freezer	**Energy Star® certified chest freezer**

Supporting documentation:

- Paid invoice. Invoice must be paid in full, as indicated by a $0 balance owing, proof of payments, etc.
- Invoices/receipts must include the make and model number of the refrigerator installed.

4. Appliance Upgrades- Product Rebate Requirements

VERIFYING THE AGE OF THE EXISTING FRIDGE/FREEZER

1. Look for the manufacturer's label - this is usually a metal badge/plate or paper sticker.

- The label will show the model # and serial #, and year/date of manufacture (on newer models).
- The location of the label varies but is usually found on the back or inside near the top or on the kick panel inside the lower door.

2. If the label doesn't indicate the age - you can search for the age of the unit with the make, model, and serial # using the search tool here.

3. If there's no manufacturer's label/badge, look for these visual clues which can indicate age of the unit:

- Colour (brown, gold, green)
- Presence of flexible fiberglass insulation
- R-12 refrigerant in unit (as noted on manufacturer label)
- Unit uses SO2 (sulphur dioxide)
- Thermostat controls located at rear of the unit (outside)