



Greenhouse Gas Grant Program for Buildings and Industry

Current Projects

Borealis Developments Inc. – The NEST – Revitalization of the Bellanca Building

On August 10, 2022, Borealis Development Inc. was awarded \$600,000 under the GHG Grant Program for Buildings and Industry.

The grant will help fund the installation of a 720 kW biomass-fired boiler to cover approximately 70% of the capacity required for space and domestic hot water heating. There will also be an upgrade to the building's mechanical heating ventilation and air conditioning system to meet the needs required for the biomass boiler.

The Borealis Development Inc. is a local development corporation and recently acquired the Bellanca building in Yellowknife. The Bellanca building was built in 1972 and was used as an office building until 2012. The building has been vacant since that time.

The new system is expected to reduce oil use by about 173,000 litres per year and this project is expected to reduce greenhouse gas emissions up to 476 tonnes of CO₂e annually.

The total cost of the project is expected to be approximately \$3,153,000. The GNWT's GHG Grant Program for Buildings and Industry is providing up to \$600,000.

The project is scheduled to be completed by 2024.

Snowshoe Inn Solar Power

Snowshoe Inn, located in Fort Providence, was approved for a grant from the GHG Grant Program for Business and Industry on June 19, 2020.

The project proposal included an off-grid solar panel installation at the Snowshoe Inn site, which will service its connected commercial and residential buildings. The installation was expected to reduce up to 55 tonnes of GHG emissions annually.

The total cost of the project was \$117,800; 25% (\$29,450) was funded by the GHG Grant Program. The recipient contributed 75% (\$88,350).

This project was completed in fall 2020.

J&R Mechanical District Heating

On June 29, 2020, J&R Mechanical Ltd was awarded \$274,000 under the GHG Grant Program for Buildings and Industry.

Based in Yellowknife, J&R is a 100% Northern-owned plumbing, heating and ventilation contracting company. J&R employs thirty journeymen and apprentice plumbers/pipe



fitters, oil burner and sheet metal mechanics, as well as 5th Class power engineer and WETT Certified personnel.

The grant will help fund the installation of a 390-kilowatt wood pellet boiler district heating system behind J&R's business on Woolgar Avenue that will supply heat to the GNWT Central Warehouse on Byrne Road, with the potential to connect to other private commercial buildings in the area.

This project is expected to defer up to 396 tonnes of CO₂e annually. The new system is expected to reduce oil use in the warehouse by about 60,000 litres annually, or 90% of current oil use.

Total cost of the project is expected to be just over one million dollars, with approximately 25% (\$274,000) being covered by the GHG Grant Program.

The project is scheduled to be completed by the spring of 2021.

Northwest Territories Community Services Corporation – Northern United Place

On June 1, 2022, Northwest Territories Community Services Corporation (NWT CSC) was awarded \$602,632 under the GHG Grant Program for Buildings and Industry.

Based in Yellowknife, NWT CSC is a Northern-based non-profit group that owns and manages residential and commercial space located in Northern United Place in Yellowknife.

The grant will help fund the installation of air-source heat pumps at the Northern United Place. This is a relatively new technology to the Northwest Territories. Peak use of this technology will be in the fall and spring seasons.

This project is expected to reduce 398 tonnes of carbon dioxide equivalent (CO₂e) annually. The new system is expected to reduce oil use by approximately 177,000 litres per year.

Total cost of the project is expected to be \$1.5 million, with approximately 40% (\$602,632) being covered by the GHG Grant Program. It is scheduled to be completed by the spring of 2024.

Polar Development Ltd. – Anderson-Thompson Tower Heat Recovery Ventilator

On June 1, 2022, Polar Developments Ltd. was awarded \$80,000 under the GHG Grant Program for Buildings and Industry.

Polar Developments Ltd. is a Northern-owned company that provides residential and commercial use rental properties in Yellowknife.

The grant will help fund the installation of a Heat Recovery Ventilator at the Anderson-Thompson Tower in Yellowknife. Emission reductions from this project will come from the recovery of heat from upper floors and ventilating it to the lower floors of the building. This ventilator will increase comfort in the building's upper floors and reduce heating demands for its lower floors.



This project is expected to reduce up to 97 tonnes of CO₂e annually. The new system is expected to reduce oil use by approximately 35,000 litres per year

Total cost of the project is expected to be approximately \$320,000, with 25% (\$80,000) being covered by the GHG Grant Program. It is scheduled to be completed by the fall of 2023.

Yellowknife Condo Board #32 – Ravenscourt GHG Reduction Project

On June 1, 2022, The Yellowknife Condo Board #32 was awarded \$450,000 under the GHG Grant Program for Buildings and Industry.

Yellowknife Condo Board #32 is an incorporated society that oversees and manages Ravenscourt Condos. Ravenscourt is home to residential condo-style housing.

The project will address an aging envelope that has a reduced energy efficiency. Building envelope items that will be upgraded are windows, vapour barriers and an increase to R-30 standard insulation. To further reduce the buildings GHG emissions, a biomass pellet boiler of 220-kilowatt capacity will be installed as the building's primary source of heating.

This project is expected to reduce up to 335 tonnes of CO₂e annually. The new system is expected to reduce oil use by approximately 121,000 litres per year.

Total cost of the project is expected to be just over \$2.5 million, with approximately 18% (\$450,000) being covered by the GHG Grant Program. It is scheduled to be completed by the spring of 2024.

Sunrise Cabinets & Millworks Ltd. – Energy Upgrade

On June 1, 2022, Sunrise Cabinets Ltd. was awarded \$41,250 under the GHG Grant Program for Buildings and Industry.

Located in Enterprise, NWT, Sunrise Cabinets Ltd. is an incorporated northern millwork company that manufactures cabinets, mobile homes, and furniture.

The project is connecting the manufacturing facility onto the Taltson hydroelectric grid and providing it with clean renewable power. Previously, Sunrise Cabinets Ltd. was generating its own power with diesel generators.

This project is expected to reduce up to 12 tonnes of CO₂e annually. The new system is expected to reduce diesel use by approximately 12,000 litres per year.

Total cost of the project is expected to be just over \$165,000, with approximately 25% (\$41,250) being covered by the GHG Grant Program. The GNWT's Department of Industry, Tourism and Investment is also contributing \$100,000 towards this project. It is scheduled to be completed by the spring of 2023.

