Backgrounder

Approved Projects – Greenhouse Gas (GHG) Grant Program

The GHG Grant Program is an application based grant program designed to support GHG emissions reduction projects and initiatives in the Northwest Territories. The program has two streams – the GHG Grant Program for Government and the GHG Grant Program for Buildings and Industry

On June 1, 2022, The Government of the Northwest Territories approved seven projects under the two streams of this program. A summary of each project is provided in this backgrounder. A summary of all approved GHG Grant Program projects can be found here and here.

GHG Grant Program for Buildings and Industry

Northwest Territories Community Services Corporation – Northern United Place

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

Based in Yellowknife, NWTCSC 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 approximately $1.5 million, with up to 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 up to $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 up to 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 up to $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 approximately $2.5 million, with up to18% ($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 up to $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 will help pay for special equipment to connect the manufacturing facility to the Taltson hydroelectric grid and provide 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 approximately $165,000, with up to 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.

GHG Grant Program for Government

City of Yellowknife – New Aquatic Center Biomass District Heating System Connection

On June 1, 2022, The City of Yellowknife was awarded up to $330,000 under the GHG Grant Program for Government.

The project involves connecting the City's new aquatic centre to an existing biomass district heating system (DHS). This project is expected to reduce up to 645 tonnes of CO2e annually and avoid oil use by approximately 234,600 litres per year.

Total cost of the project is expected to be approximately $440,000, with up to 75% ($330,000) being covered by the GHG Grant Program. It is scheduled to be completed by the spring of 2024.

Northwest Territories Power Corporation – DC Fast Electric Vehicle Charging Station

On June 1, 2022, The Northwest Territories Power Corporation was awarded up to $468,000 under the GHG Grant Program for Government to install a DC fast electric vehicle (EV) charging station.

This project involves the installation of one DC fast charging station at Behchokǫ̀, NWT. Clean and renewable power will be supplied to the EV charging station from the North Slave hydroelectric grid. GHG reductions will come from the potential adoption and use of more electric vehicles by NWT residents. This project also furthers the GNWT's goal to develop a zero-emission corridor to the NWT-Alberta border.

This project is expected to reduce up to 140 tonnes of CO2e annually and reduce gasoline use by approximately 61,000 litres per year. The GHG reduction calculation has been done in conjunction with a study on EV adoption and forecasts released in 2021. That study found that increasing the number of EV charging stations in the NWT will lead to more EVs being used in the territory and more reductions in transportation-related GHG emissions.

Total cost of the project is expected to be approximately $624,000, with up to 75% percent ($468,000) being covered by the GHG Grant Program. It is scheduled to be completed by the spring of 2024.

City of Yellowknife – Water Treatment Plant

On June 1, 2022, The City of Yellowknife was awarded up to $2.25 million under the GHG Grant Program for Government for a biomass boiler at the local water treatment plant.

The project will replace the existing oil-fired heating system at the Yellowknife Water Treatment Plant with a biomass boiler. The biomass boiler will be used for water temperature adjustment and space heating requirements for the water treatment plant and an adjacent pump house.

This project is expected to reduce up to 740 tonnes of CO2e annually and displace approximately 329,000 litres of heating oil per year.

Total cost of the project is approximately $3 million, with up to 75% ($2.25 million) being covered by the GHG Grant Program. It is scheduled to be completed by the spring of 2024.