

Northway is located on the east bank of Nabesna River, 50 miles southeast of Tok. It lies off the Alaska Highway on a 9-mile spur road, adjacent to the Northway airport. It is 42 miles from the Canadian border in the Tetlin National Wildlife Refuge. Northway presently consists of three dispersed settlements: Northway Junction, Northway (the airport), and the Native village of Northway

The area around Northway was first utilized by semi-nomadic **Athabascans** who pursued seasonal subsistence activities in the vicinity of Scottie and Gardiner Creeks and Chisana, Nabesna, and Tanana Rivers. The Native settlement of Northway Village is located 2 miles south of Northway Airport.

Tribal Enrollment – 523 Population - 250



CLIMATE AND ENERGY COSTS

- □ The warmest month in Northway, Alaska is <u>July</u> with an average high temperature of 70.4°F. The hottest day on record was July 11 2011 when the temperature hit 97.0°F.
- □ During <u>January</u> the overnight temperature drops to an average of -24.0°. Our Coldest Recorded days were;
 - 20 January 1952 -71.5 F
 - 9 February 1979 -70.8 F
 - 3 February 1947 -69.5 F
 - 18 January 1971 -66.5 F
 - 27 January 1962 -65.0 F

Jim River, AK closed in on the all time record coldest temperature of -80°F set in 1971, which is not only the Alaska all-time record, but the record for the entire United States.

☐ Electricity is \$0.56/kWh and heating oil is \$3.00 per gallon in Northway

GOALS AND OBJECTIVES OF THE PROJECT

- Install the community's first clean energy system and reduce exclusive reliance on fossil fuels and the corresponding environmental, social, and health costs.
- □ Train two local staff to install and maintain a variety of EEMs and the PV system.
- ■Save at least \$20,000 in annual utility expenses to reinvest in energy efficiency projects.

PROJECT SITES AND EXPECTED OUTCOMES

- □ Reduce energy usage in tribally owned buildings by 25%
- □Offset electricity use by 65%
- □Displace 345,568 kBTU's (British Thermal Units) annually.





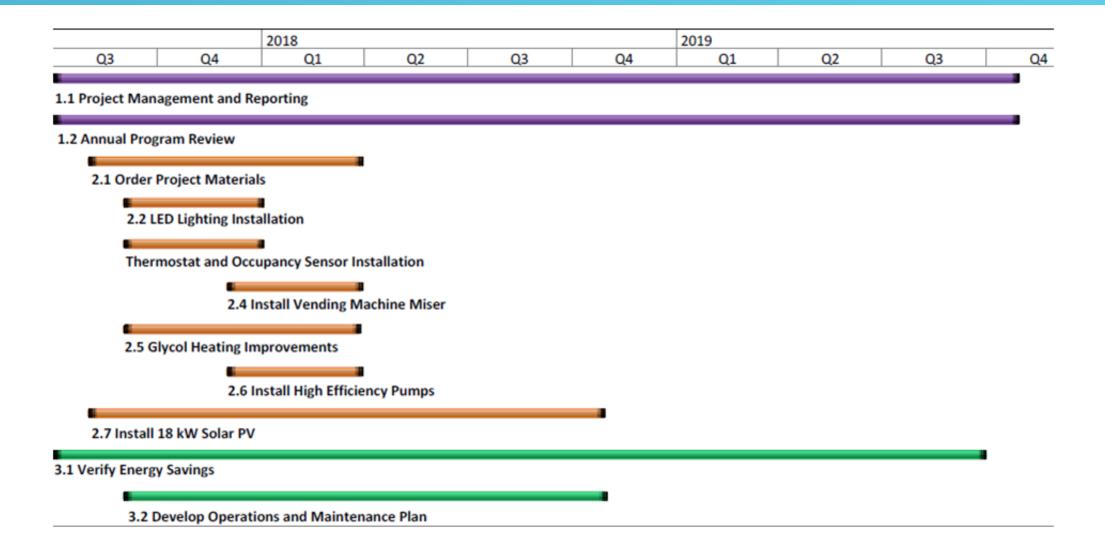
PRE-FEASIBILITY WORK AND INITIAL PROJECT IMPLEMENTATION

- □ Technical Assistance from Office of Indian Energy and NREL
 - □ Energy Audits
 - □ Renewable Energy Site Assessments
- □ANTHC helped reduce energy usage by:
 - □ Upgrading to LED lights
 - □ Programable Thermostats
 - Motion Detectors on Lights

NEXT STEPS AND PROJECT DEVELOPMENT

- □ Glycol Heating Improvements
- Install Electronically Commutated (brushless DC) Motors with Built-in Variable Speed Controls at the Water Treatment Plant
- □Install Solar Photovoltaic Arrays
- Energy Verification and Sustainability

PROJECT TIMELINE



T'SNEE - THANK YOU

