

Teslin Biomass Program

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Teslin Tlingit Council And the Village of Teslin

Teslin Tlingit Council

- Is a self-governing First Nation
- Based in Teslin in southern Yukon

Village of Teslin

- A community of approximately 450 people
- Located on Teslin Lake, Yukon
- Home to residents from diverse backgrounds

Agenda

01

Biomass Program

02

Social and Community Benefits

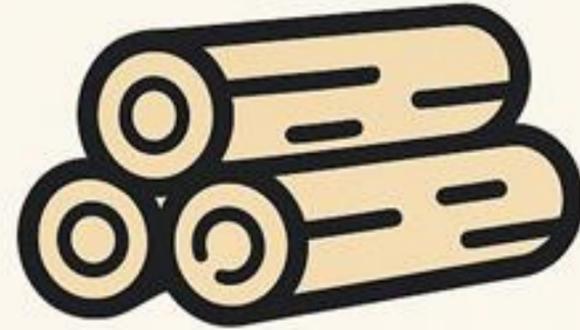
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Looking Forward





**BIOMASS
DISTRICT
HEATING**



**ELDERS
FIREWOOD
PROGRAM**



**SAWMILL
PROGRAM**

The Three Pillars of the Biomass Program

The goal is to:

- Reduce reliance on imported fuels
- Increase energy security and sovereignty

Heat Production

Winter of 2024-2025:

- Consumed ~220,000kg of wood chips (140 cords)
- Generated 505MWh of heat
- Offset ~130 tonnes CO₂e



Wood Fibre Supply

Sources

- Community land clearing
- Community Purchasing Program

Seasoning and Processing

- Create as much value as possible

Storage and Logistics

- Stored at the biomass yard for ~2yrs
- Ideal moisture content of 20-30%



Community Wood Purchasing Program

- Teslin residents can sell wood to the biomass program by the cord
- We pay \$170/cord
- To date we have purchased 249 cords (264,650 kg)
 - ~\$42,000



Elders Firewood Program

- Provide firewood to Teslin residents over the age of 65
- Winter of 2023-2024 we provided 135 cords of wood
- Cut by hand
 - Employ a crew of 4 over the winter to cut, stack, and deliver
- We have recently purchased a firewood processor to automate this process



Sawmill

- Portable Wood-Mizer Sawmill
- Supplies lumber for small repairs and project in the community
- The off cuts from the sawmill are used for wood chips



BENEFITS OF THE BIOMASS PROGRAM

SOCIAL

- Local Employment
- Energy Security
- Sustainable Development

ECONOMIC

- Lower Heating Costs
- Revenue Generation
- Local Investment

ENVIRONMENTAL

- Emissions Reduction
- Renewable Resource
- Forest Management



Employment

The biomass program is more than just supplying heat to buildings in the community.

Full Time Employment

- 2 full time positions operating and maintaining the Energy Centres
- 3 Full time positions working in the biomass yard

Seasonal Employment

- 2 full time seasonal positions working in the biomass yard
- 4 Full time seasonal positions working in the Elders Firewood program

Community Engagement and Communication

Community Engagement

- Empowering Teslin
- Education initiatives
 - Transparency
 - Building Trust

Communication

These projects can only be successful through ongoing community engagement

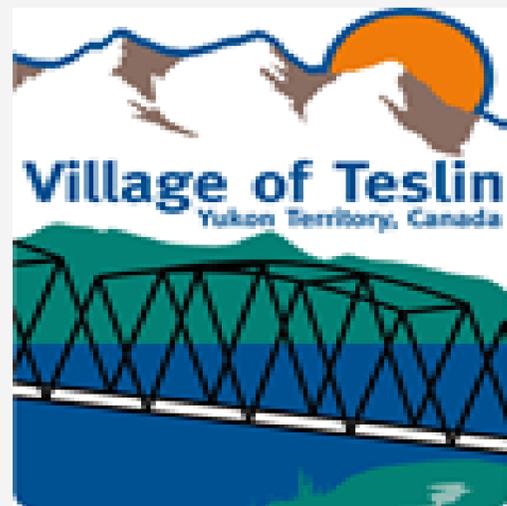


Partnerships



ACS Mechanical Inc.

- Khàtinas.àxh Community School



What comes next

- 01** Biomass Expansion Feasibility Study
- 02** Community Energy Plan
- 03** Teslin Baseline Energy Assessment
- 04** Integrated Resource Plan



Teslin Community Energy Plan

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Thank you

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