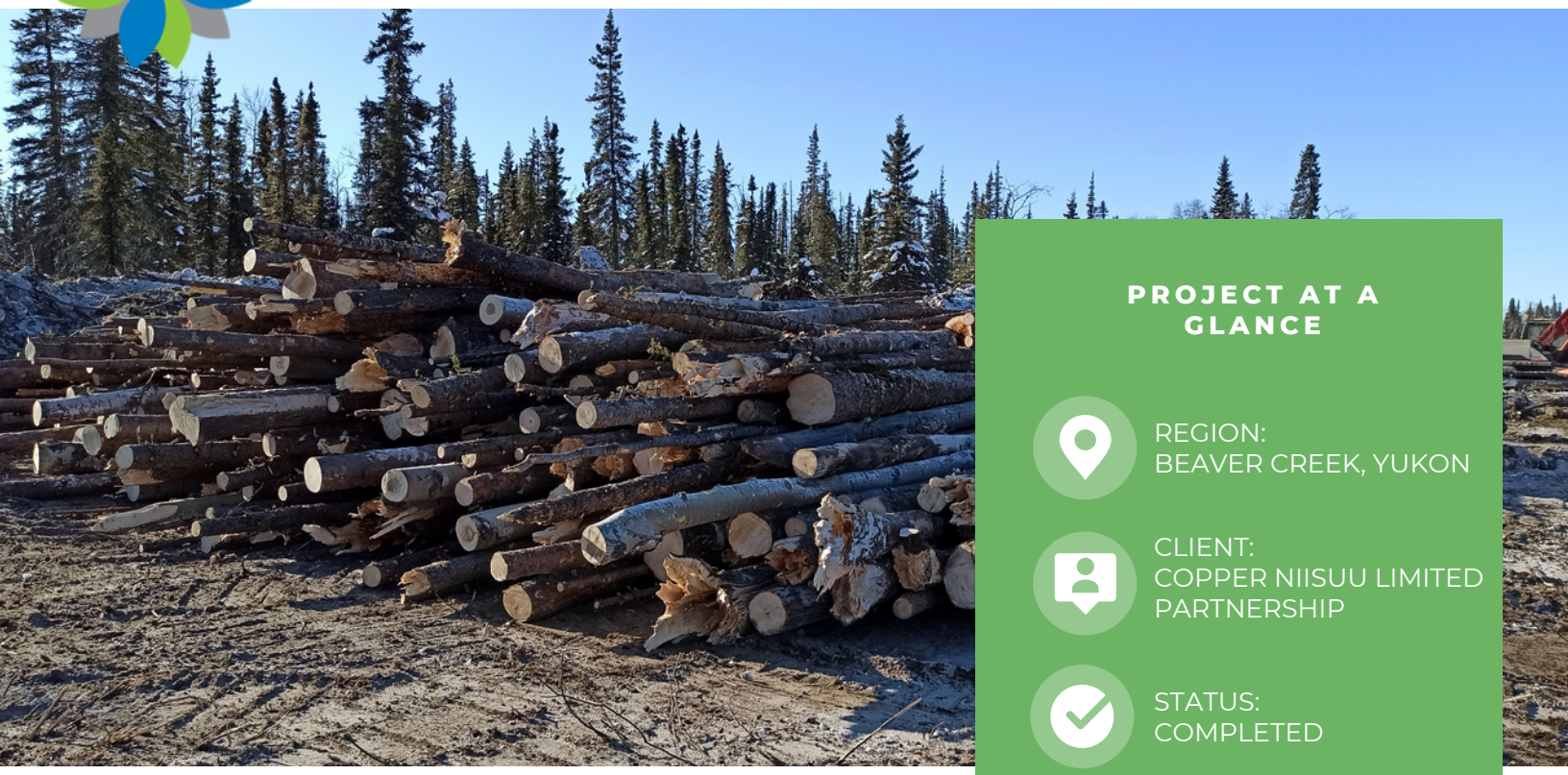

BEAVER CREEK BIOMASS PROJECT

PROJECT DESCRIPTION

The community of Beaver Creek YT, home of the White River First Nation (WRFN), currently receives its electricity from diesel-powered generators. Copper Niisuu Limited Partnership, the development branch of the WRFN, is already developing a solar project and they are now exploring the feasibility of operating a Biomass Combined Heat and Power (CHP) plant which can provide heat and electricity during the months that solar generation is limited.

SERVICES

- Pre-Feasibility Study

PROJECT AT A GLANCE

REGION:
BEAVER CREEK, YUKON

CLIENT:
COPPER NIISUU LIMITED PARTNERSHIP

STATUS:
COMPLETED

TYPE:
BIOMASS

KEY STATS

80%
average diesel generation reduction over 30 years

180,000
litres of diesel that would be displaced for electricity generation

75,000
litres of propane and diesel that would be displaced for heating

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PROJECT SHEET: BEAVER CREEK BIOMASS PROJECT

CHALLENGE

- Develop a business case for an industrial-scale biomass plant in a remote community
- Consider the lack of biomass CHP expertise in the Yukon and a relatively small biomass regional supply
- Design a district heating system in permafrost conditions

SOLUTION

- Integrate the biomass CHP plant with the planned solar and battery storage facility
- Identify costs, type (pellets, wood chips) and quality of biomass feedstock option for Beaver Creek
- Identify regulatory challenges to access biomass supply in the Yukon

RESULTS

- Potential business and job opportunities for Beaver Creek
- Grant funding for construction will be required for the economic viability of the project

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