





The Yukon Context



- Northern location
- Yukon winter peak electrical demand is twice that of summer
- Isolated grid to the rest of Canada
- Historic generation capacity built to support mining
- Hydroelectric production in summer, reliance on fossil fuels in winter



Project Scope

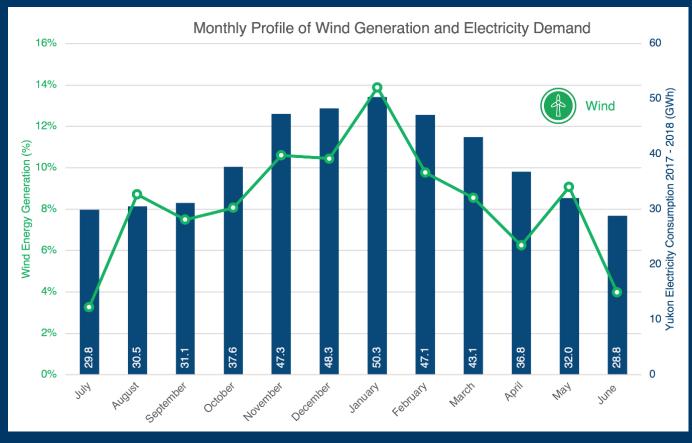


- Four (1MW) wind turbines on Haeckel Hill, near Whitehorse
- Construction started, commissioning scheduled fall 2023
- Brownfield site
- New technology turbines
 - 30m blades, 46m hub height
 - Operate at lower wind speeds
 - Direct drive
 - Anti-icing/de-icing tech: dark blades, heated blades, heated nacelle



Meeting Energy Demand





Reference: Monthly profile of thermal generation as taken from 2017 data available at Yukon Energy; Monthly profile of Whitehorse hydro generation as taken from the 2016 Resource plan; Monthly profile of wind generation as taken from site resource assessment 2016-2017

4



Project Benefits



- Electricity to power 650 homes/yr for 20+ years
- Displacing the equivalent of 40 million litres of diesel over lifetime
- Majority of energy generated during the winter
- Cold climate technology, reducing turbine downtime
- Brownfield re-development
- Indigenous ownership



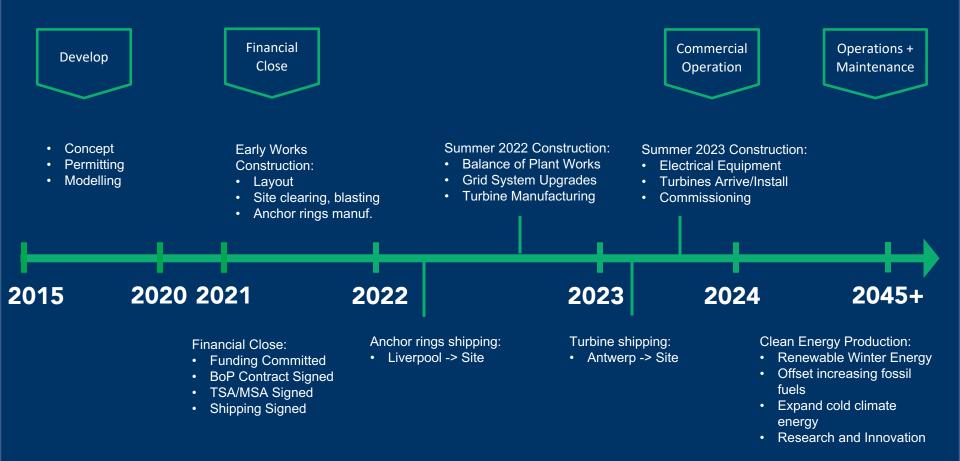
Energy Security Contributions



- First territorial grid-connected wind project in Canada's north
- Increased local and Indigenous energy sovereignty and security
- Diversification in electricity generation
- Reduced use and importation of fossil fuels
- Increased local skills and capacity with wind turbines
- Winter electrical generation



Overall Project Schedule



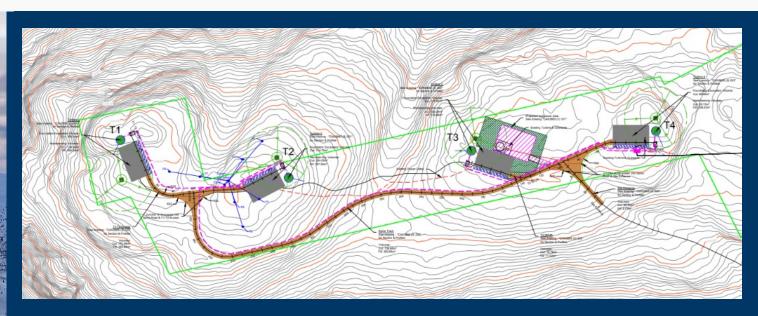


Project Site





Project Design



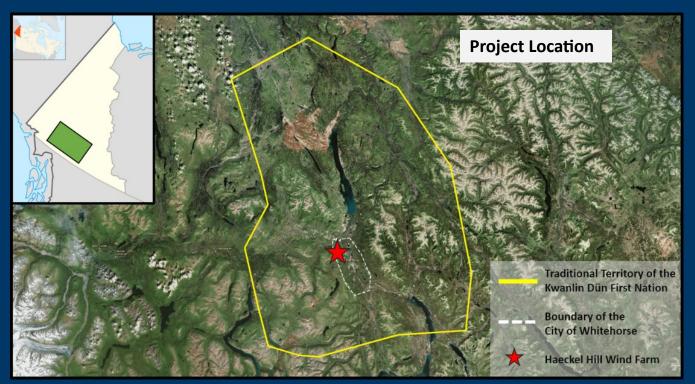
- 4 Wind turbine generators with cold climate blade heating
- Distribution line upgrades
- Haeckel Hill access road upgrades



100% First Nation Ownership



The Haeckel Hill-Thay T'äw Wind Energy Project is owned and operated by Eagle Hill Energy Limited Partnership, a wholly-owned subsidiary of Chu Níikwän Limited Partnership, the business arm of the Kwanlin Dün First Nation.





Haeckel Hill Wind Project Board of Directors Eagle Hill Energy Limited Partnership

Malek Tawashy Director, and CEO Northern Energy Capital

Malek brings over 15 years of public-private sector partnership experience constructing large infrastructure projects total I ing over \$300M in value. Malek is responsible for leading the Haeckel Hill Wind Project through development, construction and operations.



Jacob Heigers Chief Operating Officer, Chu Níikwän LP

Jacob is the Chief Operating Officer leading operations for the Chu Níikwän Development Corporation and Canyon City Construction.



Les Wilson Director of Development, Chu Níikwän LP

Les is the Senior Project Manager leading business development for the Chu Níikwän Development Corporation.



Haeckel Hill Wind Project Project Execution Team







NGC Builders General Contracting Northern Energy Capital – Development Lead Project Development

Northern Energy Capital provides project development services to empower a cleaner, more sustainable Canadian North by developing renewable energy sources that deliver powerful social, economic and environmental returns., to design through to construction.

Green Cat Renewables – Owner's Project Engineer Project Engineering Services Green Cat Renewables is a global firm providing project design, engineering, and project management services for micro-grid generation with +300 completed projects

EWT – Preferred Wind Turbine Supplier Supply and Installation Wind Turbines EWT is a global, full- service wind turbine manufacturing company specializing in the design and production of wind turbines and technical support

NGC Builders – General Contractor General Contracting Services NGC Builders has provided on-time and on-budget general contracting services to the Yukon for over 30 years, delivering self-performed and sub-contracted work



Local Contractors





ΤŁ

TETRA TECH







Project Funders



Yukon

Canada

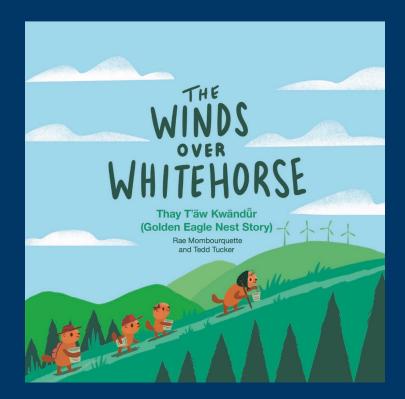


- Yukon Development Corporation (YDC)
- Arctic Energy Fund
- Clean Energy for Rural and Remote Communities Program (CERRC)
- Canadian Northern Economic Development Agency (CanNor)



"Eagle Hill" Energy

The mountain where the turbines are located is called *Thäy T'äw*, or "Golden Eagle Nest" in Southern Tutchone. According to late Kwanlin Dün Elder Äyenjìatà Louie Smith, a giant golden eagle nested on the hilltop long ago.



Learn more about the origins of Eagle Hill Energy LP's through our self-published children's book: The Winds over Whitehorse: Thay T'äw Kwänd r (Golden Eagle Nest Story).

Available for purchase on Amazon: https://a.co/d/03UPzSAC

Free eBook available for download on: https://www.chuniikwan.ca/eagle-hill-energy



Haeckel Hill Making History





1st fully-permitted utility wind project in Canada's Territories



Powering over 650 homes annually, producing the clean energy equivalent of 40 million litres of diesel fuel



Proudly owned by Eagle Hill Energy LP, a wholly-owned subsidiary of Chu Níikwän Limited Partnership, the development arm of the Kwanlin Dün First Nation



Capitalizes on the Yukon's winter wind resource to reduce the Territory's carbon emissions