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MWRAP: Community Engagement and Capacity Building

Preamble

Nunasi Corp is working with Regional Inuit Development Corporations, communities, and delivery partners to enhance the opportunities for and development of renewable generation and storage in Nunavut. The Mobile Wind Resource Assessment Project (the "Project") led by Nunasi and Kivalliq Alternative Energy (KAE), a partnership between Sakku Investments Corporation and Northern Energy Capital, will enhance equity, diversity, and inclusion in the renewable energy sector in Nunavut by providing education, training and job creation opportunities for local members hired to deploy and operate the wind measurement system in the three targeted communities: Baker Lake, Whale Cove and Chesterfield Inlet. Starting with Baker Lake, Nunasi and KAE will identify locations for wind measurement, perform the wind resource measurements, and increase the level of awareness and capacity with renewable generation projects.

Objective 1 "Enhance equity, diversity and inclusion in the electricity and renewable energy sector in Canada"

- The Project will engage, train, and employ three indigenous people (two-person site visit team plus a spare) in each target community to perform valuable work in measuring their local wind energy resource.
- The training, work experience, and industry connections resulting from the Project will set up the participants to pursue additional clean energy work in future.

Objective 2 "Increase Indigenous Peoples' leadership and participation in, ownership of, and benefits from renewable energy projects"

- The project development advice offered as part of this Project will also assist in the advancement of a wind energy project in each target community.
- The local participants in this Project will benefit from training, work experience, and industry connections and this will set them up to potentially play a leadership role in the development and implementation of a wind energy project in the community. Participants will also help to increase the community's overall awareness and understanding of clean energy.
- Future wind energy projects would be owned by an indigenous entity such as KAE, resulting in substantial benefits such as long-term financial revenues, employment/contracting opportunities, and reduced local pollution.

Objective 3 "Generate economic and social benefits related to the electricity and renewable energy sector for underrepresented groups or communities"

- The Project will provide immediate economic and social benefits by creating an on-call position in each community to deploy and operate the wind measurement device. Participants will also be paid for their time during training and capacity building sessions to ensure strong attendance.
- If, in future, the wind data and capacity building resulting from this Project should result in the implementation of a wind energy project in one or multiple target communities, then this would result in far greater economic benefits (e.g. revenues to the indigenous ownership group, employment opportunities for local people) and social benefits (increased capacity in relation to clean energy development, educational opportunities associated with a wind energy project, improved air quality due to reduced diesel consumption, improved water and soil quality due to reduced diesel fuel spills).

<u>Community Engagement</u>

The Project team proposes to hire and train local Inuit staff to deploy, monitor, maintain and review data from the SODAR unit. Building capacity in communities through training and professional responsibilities will enhance individual and community knowledge and experience with renewable energy development. Once hired the field technician/s will be trained by KAE to deploy, operate, and maintain the SODAR unit and its remote power system. This will include setting up the unit on site, powering it up, configuring its measurement system, collecting data from the unit, performing simple repairs and maintenance activities, packing it up at the end of the study and redeploying it in another chosen community. The Project team will also offer a quarterly training session with local participants to review the data collected to date, address any questions, and to advance their understanding of clean energy projects and the development process that lays ahead.

Upon conclusion of each 12-month wind monitoring campaign, the Project team will present the findings to the local hamlet council along with recommendations for next steps in developing a wind energy project. The Project team will also communicate the findings to the broader community in the form of a social media / website post and/or printed handout.

It is critically important for the success of renewable energy projects to engage, educate and obtain social license from Hamlet Councils, Hunter Trapper Associations, and elders through the project development process. This process can be started through a wind resource assessment. Wind resource assessments are tangible, requiring deployment of measurement equipment and employment of local field technicians, and therefore they can immediately deliver economic benefits, while also creating an energy leader in the community who can help educate and explain projects that may be proposed in the future.

We understand that various Nunavut communities are currently undertaking Community Energy Plans (CEPs), and this work would support the CEPs by providing needed wind

resource information that will help advance development of a wind energy project. A summary of the findings of each wind monitoring study can be integrated into existing CEPs and those currently being developed.

Stakeholder Participation and Engagement

Sakku Investments has a presence in all of the communities in the Kivalliq region. Sakku and NEC have also been working with the Hamlets of Coral Harbour and Naujaat to conduct Community Energy Planning (nearing completion) and investigate clean energy potential. \\

NEC has worked with the Hamlet of Baker Lake and the Hamlet of Chesterfield Inlet to identify potential opportunities for clean energy development. Whale Cove, NU, is the candidate communities for wind monitoring in Year 3 due to the potential for wind energy development that has been identified from public datasets and due to engagement by Sakku Investments with the communities. No site-specific wind resource data has been collected or development work conducted to date in these communities, and this Project could help to catalyze development of new projects.

Describe how each project stakeholder will be partnered, involved, or consulted:

KAE will be involved as a partner in the Project and a potential owner of future clean energy projects.

The three target communities are each represented by a hamlet council, and each will be consulted in the early stages of the Project during site selection, and again upon conclusion of the wind monitoring campaign to discuss potential next steps in development of a wind energy project.

A target of three individuals (a minimum of one) from each community will be involved in the Project – they will receive training and be engaged to support SODAR setup and maintenance work.

The recommendations flowing from this Project will also include means of expanding consultation with other stakeholders such as local hunter/trapper organizations and elders.