

WIND TURBINE SAFETY

BUILT FOR KIVALLIQ'S CLIMATE

Nunavut's harsh weather, from arctic storms to freezing temperatures, challenges even the toughest infrastructure. Fortunately, today's advanced wind turbines are engineered to withstand these extreme conditions and have been operating successfully across the Arctic for many years.

Key Safety Features

Flexible blades that shed ice and snow

Blade heating for ice removal

Automatic shut-off in extreme winds

Strong steel tower for stability

Advanced Cold-Climate Technology



Operates in temperatures as low as -40°C



Lightning protection system and grounding



Turbine class designed for local wind speeds



Cold climate-tested materials and design



Direct drive generator for reduced maintenance



Did you know?

Wind turbines are already operating safely in communities across northern Canada and Alaska. KAE's projects will use only proven cold-climate wind energy technology.

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