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CASE STUDY

Innergex Renewable Energy Inc.

Multiple sites, Canada

THE BACKGROUND

Innergex Renewable Energy Inc., a leading Canadian renewable energy company, operates across various remote sites in British Columbia, Ontario & Quebec. The company faced challenges in maintaining efficient, reliable, autonomous and mobile power solutions for their operations. Prior to adopting the MOBISUN HYBRID Solar + Fuel Cell Clean Power Trailers, Innergex relied on a mix of mobile and fixed systems, diesel generators and battery setups. While functional, these solutions lacked mobility and often fell short of operational requirements especially in challenging remote environments and extreme cold temperatures.

THE CHALLENGE

Innergex's primary issues revolved around two key factors:

- Reliability: Ensuring consistent performance in harsh environmental conditions, particularly during the winter months.
- Mobility: The need for a portable power solution to support dynamic site operations.

While Innergex had made previous attempts to remotely power their systems, they fell short in one or both of these factors.

THE SOLUTION

Initially Innergex adopted the MOBISUN HYBRID Solar + Methanol Fuel Cell Clean Power Trailer for their ZX 300 Wind Lidar to meet their need for a reliable and mobile energy solution. Combining solar PV, battery storage, and a direct methanol fuel cell in a compact unit, the trailer provided a versatile, mobile power system that was easy to deploy across remote sites, even in rugged conditions. Its integrated solar array design streamlined power setup and with remote monitoring, Innergex is able to reduce visits to sites for refueling and maintenance while being confident its 100% operational.

For higher load demand and even colder temperatures, Innergex implemented another APS called MOBISUN HYBRID Solar + Propane Fuel Cell Clean Power Trailers that can be autonomous for several months at a time with fuel is easy to procure and handle.

THE OUTCOME

The MOBISUN clean power trailers provide Innergex with transformative, mobile clean power solution for its remote operations, delivering reliable performance in a compact, easy-to-deploy format. The turn-key application fit design significantly streamlined logistics, making it especially valuable for very remote and hard-to-access sites. Innergex highlighted the trailer's effectiveness, portability, and the outstanding technical support from the responsive and professional MOBISMART team, who ensure a smooth experience from deployment to operation.

When the direct methanol fuel cells in the trailers experienced freezing challenges, MOBISMART responded quickly by retrofitting the units with easy-to-install insulation. Impressed by the proactive service and technical expertise, Innergex invested in additional trailers featuring upgraded components and solid oxide fuel cells. These newer units have since operated reliably, even in extreme cold. The long-term performance and ongoing support have reinforced Innergex's trust in MOBISMART as a partner in powering wind energy and remote projects.

CUSTOMER TESTIMONIAL

"Many of our wind resource study sites are in remote places and often access to standard power supplies does not exist. This is where MOBISMART trailers have enabled us to reliably power instrumentation such as wind profiling lidars with a minimal footprint. Having an all in-one mobile power solution is also key as we can easily relocate our instrumentation as our measurement campaigns evolve.

As Innergex is a renewable energy producer, having the majority of our electrical needs at our green field sites provided through a mobile green solution (MOBISMART solar and fuel cell solution) is key for us. MOBISUN also provides very responsive and effective assistance if we ever have any questions about our mobile power supply trailers"

– James Newby,
Senior Resource Specialist – Innergex Renewable Energy