



## Case study: EFOY ProShelter

Reliable, autonomous energy solution, eliminating downtime for a critical gas well pad application

### The Application

The client is a Government of Canada research and technology organization specializing in clean energy. They provide knowledge and support to find alternative solutions for clean energy solutions for remote, low-power systems across Canada that are reliable and autonomous without the use of diesel.

### The Challenge

The client was looking for a clean energy solution rugged enough to operate in the Arctic, a highly remote area known for its extremely cold and harsh environment. Operating equipment with renewable energy sources such as wind and solar and those that need frequent servicing is challenging in remote northern climates due to accessibility problems, freezing temperatures and low light during the winter months.

### The Solution

The client is currently trialling an 750W 20' EFOY ProShelter customized with 6 EFOY Pro 2800s and an EFOY ProCabinet with a single EFOY Pro 2800 to produce approximately 500W of 24/7 power in conjunction with wind and solar. This hybrid energy solution meant reducing the need for heavy transport of batteries by helicopter due to weight restrictions, generating power for 12 to 18 months without the need for servicing or refuelling and eliminating the use of diesel altogether.

### The Benefits

The EFOY Pro fuel cells, in addition to the EFOY ProShelter, supply ongoing power in the extreme climates of Canada's northern regions and provide 24/7/365 visibility and autonomy.

- 🔋 **Sustainability** – EFOY fuel cells convert methanol into electricity through a single-stage catalytic conversion process, making it one of the cleanest ways of producing electrical energy.
- 🔋 **Low maintenance** – EFOY Pro fuel cells offer reliable power with minimal maintenance, a viable alternative to eliminate diesel dependency for remote installations.
- 🔋 **A complement to wind and solar** – When solar and wind fail to deliver enough power, the EFOY automatically switches on to replace the power shortfall.
- 🔋 **Reliability in extreme climates** – The latest EFOY ProShelter solutions are optimized for ultra-reliable performance in the harshest winter conditions. Performance is monitored through cold-chamber testing and rated to -40° C.

### Client Feedback

"EFOY energy solutions provide a viable alternative to eliminate diesel dependency for remote installations where full dependence on renewable is difficult to achieve."

Learn more at [efoy-pro.com](http://efoy-pro.com) and [sfc-energy.ca](http://sfc-energy.ca)

