

# EXPEDITIONARY POWER IN THE ARCTIC



## THE PROBLEM

The Army's traditional power generation capabilities are not easily distributed among smaller units and may not meet the increasing power needs of additional battlefield capabilities (such as UAS, CUAS, and EW systems). In addition, current generators have easily detectable acoustic and electro magnetic signatures making them easy targets for attack. They are also limited in the number of connection ports and power output characteristics.

These stationary, high power generating capabilities are not easily shared away from operations centers. This limitation forces dismounted Soldiers to carry an excessive weight of device-specific batteries, eliminating the possibility to share power between soldiers or across devices (radios, GPS, sUAS).

Soldiers also have to account for reduced battery performance in cold weather climates and this is most prevalent in arctic regions. As a result, commanders must consider power capabilities when planning operations and assessing unit duration.

## IMPORTANT DATES

Applications Open: May 4, 2026

Webinar: May 12, 2026 at 11:00AM CT

Applications Close: May 27, 2026

## THE OPPORTUNITY

The Army is seeking modular plug-and-play systems that seamlessly integrate into a resilient energy network that can survive in austere environments.

### Solutions should include:

- Large to small power production and storage capabilities
- Interoperable smart hubs, power conversion units, and power distributing capabilities
- Increased battery performance in extreme cold weather conditions
- Standard commercial/military connectors that support fast charging
- Support of standard military and commercial batteries
- Lightweight construction to reduce carry load on the Soldier
- Designed for ease of maintenance with readily available components
- Scalable power inputs and outputs based on unit size
- Support low electromagnetic/acoustic signature
- Capability to power continuous operations

PROVIDE THE ARMY MODULAR PLUG-AND-PLAY SYSTEMS  
THAT INTEGRATE INTO A RESILIENT ENERGY NETWORK.

