Overview
Whether you need a few watts to power a signal or several kilowatts to power your entire operation, we've got innovative solutions that can reliably and efficiently power even the most demanding remote site applications.

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System Components
Batteries, Battery Boxes, Battery Testers and Maintenance Accessories complete our systems.

Remote Site Power:
- Railroad Wayside
- Telecommunications
- Gas & Oil Utilities
- Farms & Greenhouses
- Small Businesses
- Govt Agencies
- Villages / Islands
- Resorts
- Hybrid Systems

ph: 740-964-4000  www.redhawkennergy.net  info@redhawkennergy.net
Overview
RedHawk Energy Systems, LLC offers a variety of photovoltaic (solar) power systems for critical remote site applications. Systems are configured for the specific geographical location and load demands of the application using the latest software and solar radiation information. Balance of system components, including batteries, battery boxes and control systems can be provided to complete the system.

Size Range:
100W-200kW

Mounting Options
We offer (6) innovative mounting options to meet virtually any budget and/or site requirement.

- Model RP - Retractable Pole
- Model FP - Fixed Pole
- Model PM - Platform Mount
- Model RM - Roof Mount
- Model GM - Ground Mount
- Model VT - VersaTilt

Features & Benefits
- Highly Customizable / Configurable
- Fully Engineered, Application Specific Designs
- Low Maintenance
- Easy Installation - Pre-Wired & Pre-Assembly
- High Reliability
- Built-In Safety Features for Installation & Maintenance Personnel
- Design Life / Durability = 25+ years
- Site Survey Engineering Services Available
- Batteries, Battery Boxes & Control Systems Available
- Hybrid Options (Wind, Fuel Cells, TEGs, Generators, etc.)
Southwest Windpower Turbines
(400W-1kW)
Southwest Windpower Turbines are small, dependable, versatile and efficient sources of wind power. Southwest Turbines are available in 400W, 900W and 1kW versions and are ideally suited for off-grid battery charging applications.

Northel Energy Wind Turbines
(7.5kW-250kW)
Northel Energy designs and manufactures high quality mid-size VIRA Wind Turbines. RedHawk Energy Systems, LLC has partnered with Northel Energy to provide sales and service support throughout the United States for their innovative and highly customizable wind turbine product line. Northel's wind turbines are unique in that each system is specifically optimized for the local wind resource characteristics of the application.
**Overview**

A fuel cell is a solid state DC generator that converts chemical energy into electricity. RedHawk Energy Systems, LLC offers portable fuel cells from IdaTech and INI Power Systems.

- High Reliability
- Long Autonomy
- Low Emissions
- Minimal Maintenance
- Quiet Operation
- Clean Technology “Green”

**IdaTech ElectraGen™ ME**

The ElectraGen ME is an extended run backup fuel cell power system, available in 2.5kW and 5kW configurations that can be scaled up to 15kW. The ElectraGen ME includes a fuel reformer that converts methanol and water liquid fuel (HydroPlus) into hydrogen gas to power the Fuel Cell. Operating on HydroPlus, the ElectraGen ME generates its own hydrogen, onsite and on-demand; eliminating the need for delivery and storage of hydrogen.

* Fuel Cells are a great replacement for unreliable, noisy, maintenance intensive diesel generators.

**INI Power Systems**

INI Power Systems offers energy harvesting, power generation, power management and energy storage solutions. They offer a 75W portable fuel cell and a 300W stationary fuel cell. These fuel cells convert methanol liquid fuel into hydrogen gas. Extended runtime, rapid startup, and remote monitoring capabilities highlight these systems.
Global Thermoelectric TEGs
Global Thermoelectric is the world’s leading manufacturer of thermoelectric generators (TEGs). Global TEG’s are extremely reliable, low maintenance, long life generators capable of providing continuous DC power. Global TEG’s are designed to run on either propane, butane or natural gas and range in output size from 15 to 550 watts (can be combined to 5kW). TEGs are incredibly reliable, due in large part to the fact that they have no moving parts. Their rugged design makes them ideal for long-term unattended operation in remote locations that may be exposed to harsh conditions or where site visits are difficult.

Benefits & Advantages
• High Reliability
• Low Maintenance
• Long Life = 20 Years
• Continuous Operation in Any Climate (Wet, Dry, Hot, Cold)
• No Moving Parts
• Easy Operation
• Reduced System Size
• Increased Security
• Reduced Battery Requirements
• Extended Battery Life
• ISO 9001:2000 Quality

Size Range:
21W-550W
Batteries
RedHawk Energy Systems, LLC can provide reliable nickel cadmium and lead acid batteries to complement remote site power systems. As a key critical component, we can provide valued assistance to our customers in proper battery selection.

Battery Boxes
RedHawk Energy Systems, LLC offers both all-welded aluminum and steel constructed battery boxes. These battery boxes feature fully insulated paneling and are designed to shield and protect batteries located in harsh outdoor environments.

Battery Testers
RedHawk Energy Systems, LLC and Microlynx Systems, Ltd., teamed up to develop the RH1 and RH2 Series Portable Battery Testers. The RH1 and RH2 are specifically designed to provide accurate capacity measurements of batteries that are in-service as well as batteries in the shop or laboratory. Built upon the foundation of the successful Microlynx M0024 Series Battery Testers, the RH1 and RH2 provide enhanced capabilities and features in a convenient and economical package.

System Components

* We proudly offer Saft Batteries through our parent company - Arthur N. Ulrich Company.

* Learn more about additional features and sizes at www.redhawkenergy.net
Our History
RedHawk Energy Systems, LLC was officially formed in 2004 as a manufacturing and value-added subsidiary of the Arthur N. Ulrich Company. Since the early 1980’s, the Arthur N. Ulrich Company has designed and deployed renewable energy systems ranging from a few watts to several kilowatts for hundreds of applications throughout North America.