



## Airborne Power Generation Systems

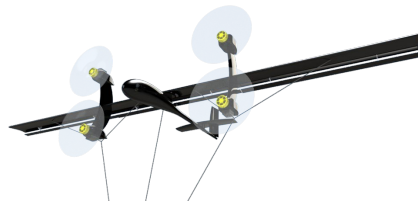
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Windlift designs and builds airborne power generation systems that provide access to power in remote and dangerous places.

Windlift's products are highly mobile so you can have power when you need it, where you need it.

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*Taking industry beyond the grid.*



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### Contact:

**Robert Creighton**

Founder & CEO

[rob@windlift.com](mailto:rob@windlift.com)

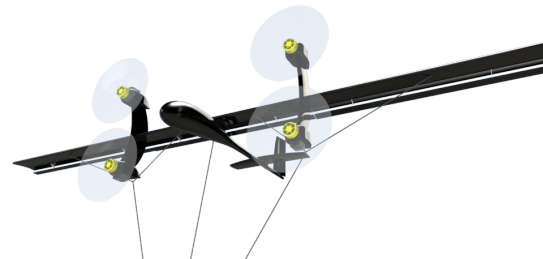
(919) 475-3955

**Windlift, LLC**

10410 Globe Road, Suite 116

Morrisville, NC 27560

[www.windlift.com](http://www.windlift.com)



## How It Works

### High-Altitude Capture

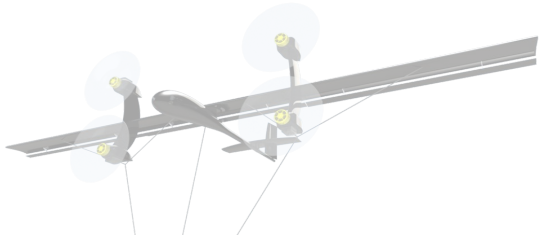
Windlift's Airborne Power Generation (APG) Systems harness energy from consistent, high-velocity winds due to their high operating altitude and unique aerodynamics.

Windlift APG Systems operate beyond the limitations of traditional wind turbines or solar and produce up to 15kw per unit, anywhere in the world, in almost any weather condition.

### Mobile Power

Windlift's APG Systems operate much like the blade of a wind turbine, but without the tower and supporting infrastructure. As such, they can capture the same energy with less than 10% of the material.

Windlift's APG Systems store the power produced in a ground battery system backed up by a small generator, ensuring continuous output. This allows Windlift's systems to stay small and mobile so that power generation needs can be met anywhere at any time.



## Research

### Research Projects

#### SBIR Phase I, Marine Corps Systems Command

Proof of Concept for Trailer-Mounted Mobile Power Generator. COMPLETED 2012.

#### SBIR Phase II, Marine Corps Systems Command

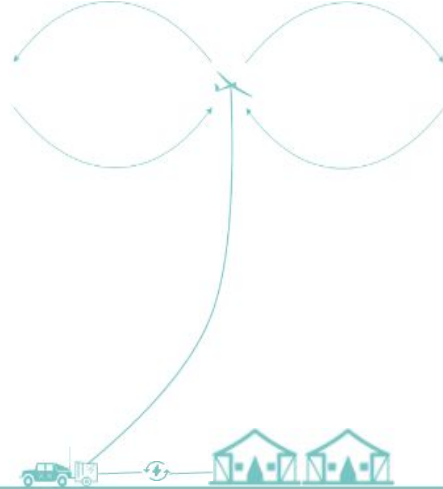
Trailer-Mounted Mobile Power Generator Prototype. COMPLETED 2015.

#### SBIR Phase I, Marine Corps systems Command

Proof of Concept for Trailer-Mounted Mobile Power Generator. COMPLETED 2016.

#### SBIR Phase II, Marine Corps Systems Command

Man-Portable Mobile Power Generator Prototype. COMPLETES Q4 2019.



Rendering of Trailer-Mounted Mobile Power Generator

## Projects

### 1. Trailer-Mounted Mobile Power Generator (T-APG)

Trailer-Mounted Unit with Winch System  
HMMWV or Light Tactical Vehicle Towable  
Generates 15 kW peak power  
25 kWh battery  
Operational in 30 minutes

### 2. Man-Portable Mobile Power Generator (P-APG)

Vehicle Transportable with 2-Man Carry and Setup  
Generates 6 kW peak power  
10 kWh battery  
Operational in 30 minutes

### Persistent ISR

Windlift Systems can double as persistent platforms for ISR capabilities. The UAVs can hover at altitudes up to 500 feet and produce their own power, allowing them to stay aloft indefinitely.

### Benefits

Windlift's AWE Systems enhance the ability to project combat power abroad, and can ultimately save money and save lives.

- Highly mobile (trailer-towed and man-portable units)
- Autonomous and Operational in 30 mins
- Reduce fuel resupply efforts by 70%, thus saving money and reducing casualties
- Provide a persistent platform for communications and ISR technologies