Innovation and simplicity
Rethinking the energy transition

AeroMINE™

- Motionless
- Integrated
- Energy

From here...
COMPLEX

To here...
SIMPLE
AeroMINE™: new category, existing market

**UTILITY SCALE ECONOMICS, PRODUCED AT SITE OF USE**
1. Energy consumed is pure green energy
2. Locally produced means no transmission, which reduces consumer cost by up to half

✅ Wholesome
✅ No middle man
✅ Cheaper than grid energy

**LOWER RISK THAN “NEW TECHNOLOGY”, OR SCALED POWER GEN**
1. Innovation with simplicity as a design guide
2. AeroMINE™ configures with zero impact on a rooftop solar array

✅ No new technology risk
✅ No component risk
✅ No manufacturing risk
✅ No installation risk
✅ No operational risk

**MASS MARKET IS PROVEN, ITS LARGE, AND HAS SYNERGIES WITH SOLAR**
1. Buying decisions for solar are exactly the same for AeroMINE™, providing a proxy procurement rubric
2. By adding the AeroMINE™ and solar together, commercial buildings could get over 100% of their energy from the roof

✅ Sells into existing mass market only served by solar
AeroMINE™ cost of energy in perspective

1. Number is from LAZARD’S LEVELIZED COST OF ENERGY ANALYSIS—VERSION 21.0, November 2018
2. Commercial electricity cost is from IEA, Mid-west in the low end. East and west coast are in the higher
3. NREL Distributed market report
4. DOE Market Technologies report
Complicated, intrusive, too small, too big

AeroMINE™ is none of this

No cranes, no special training, no inverter, no rotating blades, no risk, no tower, no foundation...........
An innovative aerodynamic concept has resulted in a simple elegant design

Blue color indicates internal low pressure, created by the airfoils. The pressure drives the propeller to produce power.

“F1” style high performance airfoils create low internal pressure

Manifold

2.5kW generator

36 inch propeller

Air intake

Power control box and cable connection

10 feet (1 floor)

Validation partners:

Texas Tech University

Sandia National Laboratories

Westergaard Solutions
AeroMINE™ is cost effective clean local power

**AeroMINE™ solution:**
- High wind energy capture, day and night
- Easy installation and integration
- Extremely safe, robust and motionless
- More renewable power to the building

**Customer solar challenges:**
- Insufficient renewable energy generation
- Storage does not produce more energy
- Degrades over time
- Daytime-only energy production

**Ordinary wind turbines:**
- Inefficient in the building environment
- Complex with rotating components
- Noisy and/or vibrating
- Visually intrusive

*Combined wind and solar, double energy production*
AeroMINE™ system is scalable, just like solar panels

16 panels
120 sq. ft
4.24kW DC
1240 lbs.

16 panels
120 sq. ft
4.24kW DC
1240 lbs.

16 panels
120 sq. ft
4.24kW DC
1240 lbs.

10 feet tall
2.5kW AC
700 lbs.

10 feet tall
2.5kW AC
700 lbs.

10 feet tall
2.5kW AC
700 lbs.

More power
Better power
Higher value

Day profile, solar
19800 kWh/year

Day profile, wind
19800 kWh/year

Typical peak consumption and peak price

Westergaard Solutions
Clean affordable energy is needed everywhere

The grand challenge:

- **Industrialized nations:**
  Transformation of the energy system
  Problem: Financing

- **Growth regions:**
  Construction of the energy system
  Problem: Making energy available

- **Developing regions:**
  Fight against energy poverty
  Problem: Unstable framework

Solution for all regions:
Technology & energy efficiency

AeroMINE™ is a cost efficient distributed energy resource based on wind, which can impact all regions and applications on par with solar panels.
Opportunities

- Re-sale channel: residential
- Re-sale channel: Remote sensors
- Co-sale / re-sale with solar commercial roof top install
- Direct sales Commercial roof top
- Forward bases (military)
- Mobile power (military)
- Disaster relief power
- Architectural integration
- Community power
- Offshore installations

- Direct sales: Remote sensor
- Direct residential and other direct
- Same solution
  Same business setup
  Cash, lease or PPA
- Direct sales
  Commercial roof top
- B2B
- Re-sale / whole sale
- Sales volume per customer
- Project sales
- Direct Retail

- Installation size
- Large systems of multiple units

- Individual units
Initial focus on the addressable corporate market

US commercial solar market is 1,800,000 kW installed per year
• Translating this market segment to AeroMINE sales
  —720,000 of AeroMINE™ units per year
  —Installed revenue of $1,7B per year

AeroMINE™ business is identical to the solar business:
• Customer needs are the same
• Application scenarios are the same
• Business models are the same:
  – Cash sales to customers
  – Lease roof equipment to customers
  – Sell power to customer with power purchase agreement
• Distribution channel options are the same
• Project execution is the same
Intermediate plan to deploy pilot systems

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Cost</th>
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<tr>
<td>2 mo.</td>
<td>Pre-prototype and components</td>
<td>$280k</td>
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<tr>
<td>4 mo.</td>
<td>Supplementary IP filing</td>
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<td></td>
<td>Sourcing beta series</td>
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<td></td>
<td>Cost out exercise for mass manufacturing</td>
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<td></td>
<td>Customer discovery, continued</td>
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<tr>
<td></td>
<td>Pre-orders for beta</td>
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<tr>
<td></td>
<td>Install &amp; operate beta systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Release for sales</td>
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</table>

Total: $1,523k
Lean team launch, preparing for growth

- Dick Williams, chairman of advisory board and former President of Shell Wind
  Advisory board consists of 4 more members

- Dr. Carsten Westergaard (inventor), former research director of technology at Vestas
  Wind Systems, has a lifelong experience in utility scale wind energy

- Team has more than 100+ years of experience in global utility wind energy business and
  technology innovation with more than 100 combined patents in wind

- AeroMINE™ as a product, will be manufactured by Benchmark Electronics and delivered with strategic partners

Team proud of wind tunnel testing result
AeroMINE unit at full scale wind speeds
Summary AeroMINE™

• AeroMINE™ produces clean power on site of use, at utility scale economics
• AeroMINE™ is patented innovation, executed with simplicity, eliminating risk
• Developed by an extremely experienced team and a national laboratory
• AeroMINE™ buying decisions are exactly the same as for solar. Initially, we will address the existing commercial rooftop solar power market before diversifying geographically and later into other applications
• We are raising $2M to execute pilot projects and bridge to an A-round, which will fuel growth and cash flow focus

Partners

Honors and Awards
Contact

**AeroMINE™**
Motionless, INtegrated Energy

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