



American Wind

www.americanwindinc.com

Huntsville, AL

Micro Wind Turbine capable of creating electrical power at both lower and higher wind speeds as compared to traditional wind power generators.

Problem

Traditional wind turbines are large, must be placed far from where the power is needed and require transmission lines to/from the grid. Traditional wind turbines have limitation in wind speeds and are limited to between 6 and 30 mph wind speeds. The electrical grid requires transmission lines that are vulnerable to disasters either from nature or man-made. The electrical grid does not extend to all parts of the earth where remote power is needed. Solar energy has limitations and requires significant area to produce energy. The MicroCube™ fulfills the needs of energy where the grid fails or stops. The MicroCube™ produces energy where the power is needed and not subject to grid resources. The MicroCube can also augment the electrical grid by providing intelligent distributed energy resources when additional electrical load needs to be augmented.

Customer and Potential Market

The customer base ranges from individuals to large utilities with a virtual market across all sectors of life. This is a \$13 trillion dollar worldwide market for green renewable, clean, quiet energy. The MicroCube™ is a unique energy product in its own market.

Competitive Landscape

The competition is virtually none. This small electrical power generating unit with this type of power generation has not been previously available. The unit is uniquely designed to be a participant in large distributed energy networks augmenting the grid and a resource to improve the security of the energy supply chain.

Solution and Competitive Advantage

We developed and patented a unique Micro Wind Turbine and the WindWall™ that combines multiple wind turbines. The closest competitor is a six (6) foot diameter wind turbine producing electricity from 6-30 mph wind speeds. The MicroCube™ generates power from 1 mph to above 100 mph wind speeds. The larger 6 foot wind turbine and MicroCube™ can produce the same 1Kw of electricity. We have developed a very unique patented generator that has never been created prior to this patent. It produces a significant amount of electricity in a very small size.

The MicroCube™ is a small wind turbine that directly addresses the emerging market of Local Energy Networks (LEN) and can easily be a part of an intelligent Distributed Energy Resource (DER). The MicroCube can generate energy near homes, offices, buildings, streetlights, cell towers and hundreds of other uses. We have created the smallest 1Kw renewable electrical resource that can be placed

anywhere power is needed. These units can be networked together to produce gigawatts of power but be located on or near buildings. We bring "Power to the People".

Revenue Streams

Selling direct to end users, distributors and leasing the individual units and WindWalls. We are working with the largest international car manufacturer, DOE, MSFC, ARPA-E and other private organizations for our sales.

Team

Our team has the skills to run any organization of any size. Each individual on the team brings significant expertise in their respective areas. Many of these individuals have worked through all business elements and have the education and capabilities needed for a small to large organizations. Jim and Bart bring automotive and ISO 9000 skills to create and manufacture a product from the onset with quality as its core. Bob Seaman has been a CPA for over 20 years and has his own CPA business here in Huntsville. Besides the team above, we have a seasoned advisory board that meets once every month to help facilitate any other business needs.

- Robert Yost [LinkedIn](#) robert.yost@americanwindinc.com
- Shirley Yost [LinkedIn](#) Shirley.Yost@AmericanWindInc.com
- Robert "Bob" Seaman [LinkedIn](#) Bob.Seaman@AmericanWindInc.com
- Matt Yost [LinkedIn](#) Matt.Yost@AmericanWindInc.com
- Dan Yost [LinkedIn](#) Dan.Yost@AmericanWindInc.com
- Bart Baron [LinkedIn](#) Bart.Baron@AmericanWindInc.com
- Jim Morris [LinkedIn](#) Jim.Morris@AmericanWindInc.com
- Timothy Wyatt [LinkedIn](#) Tim.Wyatt@AmericanWindInc.com

Funding

Private investments from a variety of individuals. We have raised \$400K. All investment money has been used to develop prototypes, purchase equipment, legal and patent expenses. There has been no investment funds paid for the labor associated with the project. American Wind is moving from MVP stage to full production with injection molded parts.

Stage

We have developed working 3D printed prototypes and have been through 25 iterations to validate all aspects of the design, manufacturing and assembly. We are currently in the process of having the units power output certified. We have streamlined the manufacturing and assembly time keeping it to a minimum. We are having outside vendors building the injection molds to move away from 3D printed parts to plastic injection molds. We have a strong established supply chain capable of producing 100,000 units per month whereby creating a price point at near \$.05/Kwh or below.