



## Mariah Power's Testing Program

Vertical Innovation, Technology Integration™

### Windspire® Performance Testing

In an industry that is still developing standards for testing small wind turbines, each small wind manufacturer is responsible for determining how to test and rate their wind turbines. At Mariah Power, we are committed to testing our products in real-world settings and through independent facilities to further our innovation and deliver quality products to our customers.

Testing enables us to know how well our unit performs in real world wind conditions, while also generating data that we can use to calculate and develop our power and energy curves. This allows us to give customers a realistic idea of how much energy to expect for their wind conditions prior to installing a Windspire. Testing also identifies potential issues and helps us continually improve our product.

The foundation of our program has been to engage one of the best third-party test sites in the industry, run by Windward Engineering in Spanish Fork, Utah. This test site offers a class 6 wind zone, and full testing and monitoring equipment. In addition, Mariah Power has done testing at a federal test facility in Colorado, and is expanding its current independent testing program with an installation at the North Carolina Small Wind Energy Research and Demonstration Site at Appalachian State University. Future plans also include an installation at the Texas Department of Agriculture's test facility in West Texas. The Windspire is also taking part in a Wind Lab at the Museum of Science in Boston that will provide data on urban rooftop installations. Finally, Mariah Power will use the data from its many field installations, which will be collected in a variety of wind conditions, to customize the product for various wind regimes.

We take pride in setting high performance standards for our technology, and in putting our unit through stringent in-ground testing. By setting realistic expectations for our customers based on real-world performance results, and by incorporating testing into our product development process, we are building a reputation as a reliable and innovative technology company.

