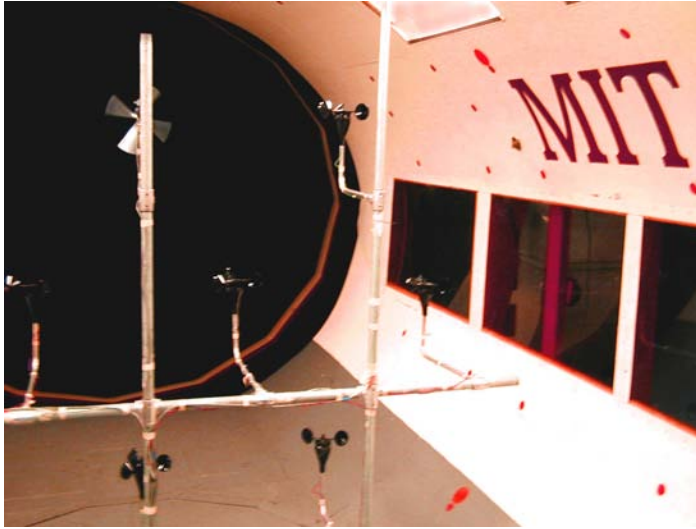


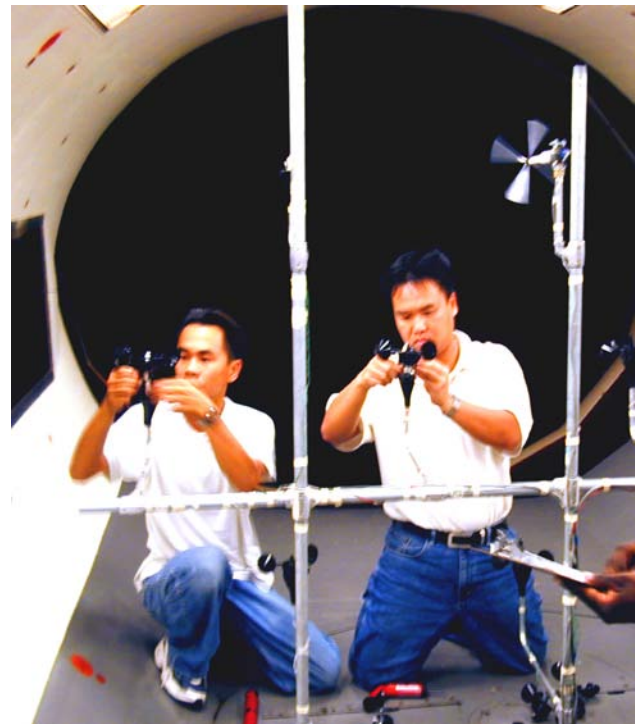
Maximum #40 Calibrated Cup Anemometer



Accurate wind measurements from calibrated anemometers are critical in today's competitive market to ensure the best forecast of your wind farm's future revenues. Second Wind Inc.'s calibrated anemometer records wind speeds to less than 1% error. We have been calibrating anemometers at the MIT Wright Brothers Wind Tunnel since 1993, and have sold thousands of these sensors over the years.

Sound Testing Procedures

A study by the National Renewable Energy Laboratory of our calibration methods showed the MIT testing facility and our calibration results to be sound and reliable. The MIT wind tunnel instrumentation and the reference sensor were both calibrated with NIST traceable equipment. In addition, the MIT wind tunnel's instrumentation uses a multiple pressure tap system that virtually eliminates wind speed measurement error due to blockage in the test section. The tunnel instrumentation also corrects for small errors due to variations in humidity and compressibility. Nine anemometers are tested at once in the wind tunnel. Over the years, Second Wind Inc. has fully characterized the conditions at each of the nine test locations to ensure the most accurate wind speeds. The anemometers are mounted in an elliptical cross section of the tunnel on a support rack designed for absolute minimal blockage. Data is collected every second for four minute intervals to ensure a steady wind state for three full minutes.



High Quality Results

The calibrated data applies to wind speeds between 6 and 19 m/s, the range of measurement for wind resource assessment studies. The anemometers used are Maximum, Inc. #40, and were chosen for their simple design, impact-resistant polycarbonate mold, and rugged behavior. Very worn-in Maximum #40 anemometers have been proven to perform very well in comparison to new units. Each calibrated anemometer is supplied with a slope and offset value within 1% error, providing an important quality assurance measure of the instruments.

Contact Nexgen for more information on our calibration services