

Long-term wind lidar performance and dependability in Japan

Case Study



The client:

Rera-Tech, Inc.

Vaisala solution:

WindCube® vertical profiling lidar

THE CHALLENGE:

Superior accuracy and portability

Rera-Tech specializes in Wind Resource Assessment (WRA) consulting for all types of wind surveys. Based in Japan, the Kobe University startup conducts wind surveys for their clients on both onshore and offshore wind farms, handling several wind energy projects each year in a variety

of terrains. They also operate the Mutsu-Ogawara Offshore Wind Observation Test Site, which is used for lidar accuracy verification and other technical assessments.

When it comes to conducting wind surveys, Rera-Tech needs accurate and durable wind measurement technology that can be easily installed and relocated across diverse geographic locations.

"WindCube is a valuable long-term asset for our business. It is very useful for wind resource observation because it can be used for constant observation and is not expensive to operate."

Toshinari Mito,
Director, Wind Observation Leader, Rera-Tech

THE APPROACH:

Uncompromising performance and flexibility

Rera-Tech utilizes a diverse range of wind measurement technologies and relies on Vaisala WindCube vertical profiling lidar for its superior capability in conducting WRA and high-altitude wind measurements. The lidar's ease of installation and portability – requiring very little space and power – makes it an easy choice over traditional meteorological masts.

Trusted as the industry gold standard, WindCube excels in every aspect of wind measurement projects – onshore and offshore, from simple to complex terrain. This is crucial for Rera-Tech, as precise wind measurements are essential to their business.

THE RESULTS:

Set up for long-term success

WindCube's ability to perform continuous wind measurements has proven to be cost-effective and invaluable in optimizing wind farm performance and planning.

Rera-Tech values WindCube for its long-term accuracy and reliability, as well as durability and performance in winter snow, which are important as they serve many customers in demanding environments. The organization also benefits from local WindCube service and support, ensuring top performance for years to come.

Rera-Tech's experience with WindCube highlights its effectiveness and versatility in conducting WRA, making it an essential tool for wind energy farm developers and operators.

Why Vaisala?

We are innovators, scientists, and discoverers who are helping fundamentally change how the world is powered. Vaisala elevates wind and solar customers around the globe so they can meet the greatest energy challenges of our time. Our pioneering approach reflects our priorities of thoughtful evolution in a time of change and extending our legacy of leadership.

Vaisala is the only company to offer 360° of weather intelligence for smarter renewable energy, nearly anywhere on the planet. Every solution benefits from our nearly 90 years of experience, deployments in 170+ countries, and unrivaled thought leadership.

Our innovation story, like the renewable energy story, continues.

