

## WindCube® and WRA 12 resources for effective operations and insights

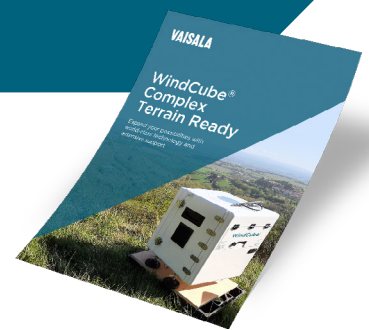
*Lidar is on the rise around the world, supplementing or replacing meteorological (met) masts for wind measurements. It's easy to understand why: Speed and ease of deployment, measuring accuracy with ever-growing hub heights, cost and reusability to name a few.*

*As the use of lidar accelerates in offshore and onshore wind energy, innovation abounds for industry professionals who want to lead with lidar in Wind Resource Assessment (WRA). This list of resources including solutions, case studies, reports and more provides valuable insights about using lidar for WRA — today and into the future.*

### 1 WindCube Complex Terrain Ready offering

Confidently expand into complex terrain with WindCube's integrated and patented Flow Complexity Recognition (FCR) software and the proven Computational Fluid Dynamics (CFD) correction method.

[Download brochure](#)



### 2 WindCube Dual Lidar Ready offering

Learn how dual lidar for offshore WRA provides high flexibility, exceptional cost efficiency, and drastically reduced uncertainty.

[Download presentation](#)



“WindCube Dual Lidar is a game changer: We can get the whole wind picture with scanning lidar. There are too many good values to describe scanning lidar, and I cannot find a better partner than Vaisala and EKO. Without their expertise, we would not be able to make this happen.”

Atsushi Yoshimura, Manager  
Green Power Investment, a subsidiary of Pattern Energy Group

## 3 Hybrid wind reconstruction algorithm

Discover how this innovative hybrid method further increases measurement quality and reduces its uncertainty level – included with WindCube v2.1 and fully IEC classified.

[Read online](#)



## 4 Turbulence intensity and machine learning

Learn how machine learning can significantly improve the correlation between lidar and cup anemometer turbulence intensity measurements.

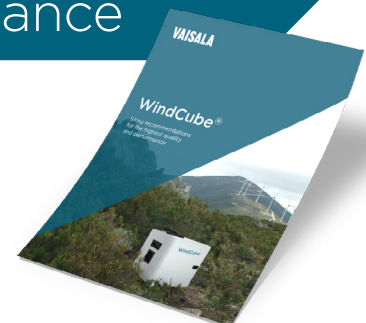
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## 5 WindCube siting recommendations for the highest quality and performance

Take advantage of this set of recommendations to maximize data recovery and quality over the most common field deployment scenarios.

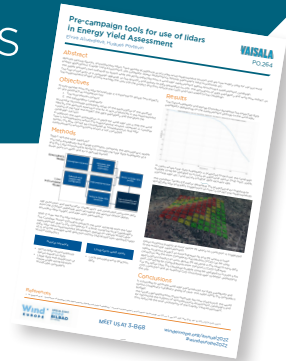
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# 6 Pre-campaign tools for use of lidars in Energy Yield Assessment

Learn about two methods to assess what should be expected from a wind lidar measurement before launching a measurement campaign.

[Download report](#)



# 7 Case study: Comparing WindCube lidar and met mast data

A real-world performance study for wind energy development.

[Download case study](#)



# 8 Case study: Efficient on-site WRA for offshore wind development

More accurate offshore WRA campaigns with on-site WindCube measurements.

[Download case study](#)



# 9 Case study: Reaching higher wind measurements in complex terrain in Croatia

Going beyond the limits of met masts with standalone WindCube.

[Download case study](#)



Lidar is gaining ground over met masts for Wind Resource Assessment. Offshore, Floating Lidar systems and fixed lidar installations have almost completely replaced them. Onshore, the number is about 10% — and growing.

# 10 Case study: Evolving from traditional met masts to modern lidar

Reducing risk and improving site knowledge with WindCube lidar.

[Download case study](#)



# 11 Case study: WRA offshore from the shore in Japan

Leveraging WindCube Scan Dual Lidar to efficiently measure the full wind profile for a competitive new project.

[Download case study](#)



# 12 Webinar: How lidar is becoming standard for Wind Resource Assessment development

From major milestones to success stories, find out what's happening in the industry today with information provided by Deutsche WindGuard® and Vaisala.

[Watch now](#)



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