

# Renewable Energy Assessment & Forecasting

## Why Choose Vaisala 3TIER Services

### Cutting-Edge Science

3TIER Services have pioneered the use of advanced weather science within the wind and solar industries for over a decade. For accuracy, we use proven numerical weather prediction (NWP) modeling, satellite technologies, and statistical techniques to tune our state-of-the-art resource data using quality controlled observations.

Today our world-class computing infrastructure and experts in weather, climate, engineering, and risk deliver customized services to a majority of the largest energy companies around the world.

### Superior Results

Other providers may cut corners to reduce computing costs, such as downscaling from averaged values. This can result in misleading or inaccurate information. Our primary goal is to help clients mitigate exposure to risk, so instead we use every time step of available data and employ a variety of NWP modeling techniques.

In other words, we do not subscribe to a single model or process, but continually innovate. We employ a robust approach that compares numerous results to provide the most accurate answer at a specific location.

### Strong Leadership

Our forecasting and assessment teams are led by established experts in the field with combined industry experience of over 30 years.

Global Director, Dr. Pascal Storck, is an internationally recognized expert on renewable energy and has been with the company since its inception.

Matt Hendrickson, Energy Assessment Lead, has extensive technical knowledge, having personally managed the energy assessment program for 3,700 MW of installed projects and a pipeline of over 20,000 MW at EDPR North America.

Dr. Jeffrey Lerner, Energy Forecasting Lead, has managed the forecasting team for 6 years and helped expand service to 4 different continents while continually improving accuracy and functionality through in-house research and development.

### Experience

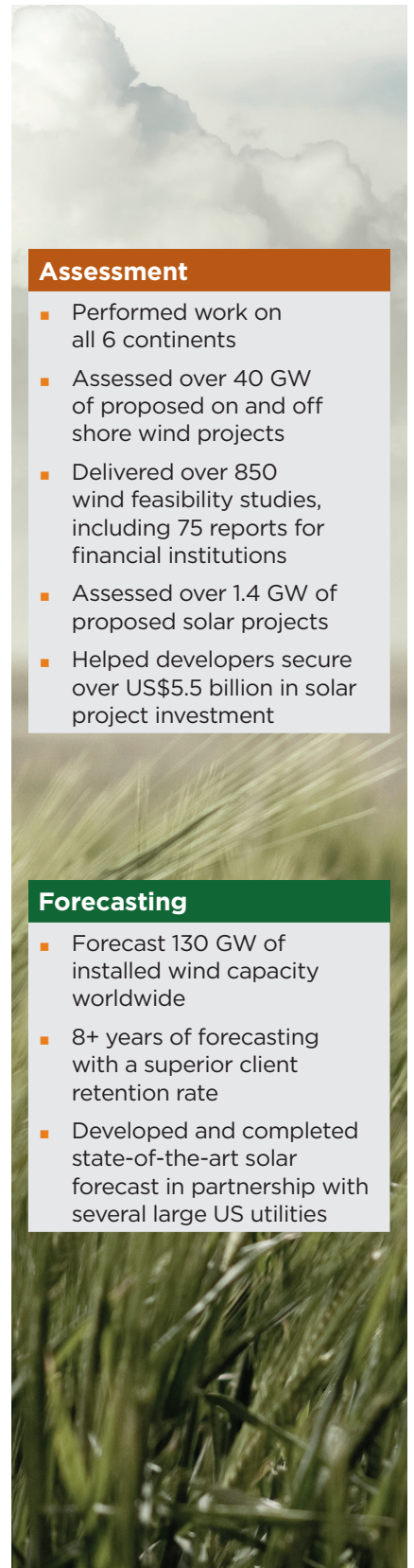
3TIER Services has supported clients in challenging climates and complex terrain around the globe. We are a trusted assessment partner for hundreds of developers and financiers as well as one of the largest and most successful wind forecasters in the world.

#### Assessment

- Performed work on all 6 continents
- Assessed over 40 GW of proposed on and off shore wind projects
- Delivered over 850 wind feasibility studies, including 75 reports for financial institutions
- Assessed over 1.4 GW of proposed solar projects
- Helped developers secure over US\$5.5 billion in solar project investment

#### Forecasting

- Forecast 130 GW of installed wind capacity worldwide
- 8+ years of forecasting with a superior client retention rate
- Developed and completed state-of-the-art solar forecast in partnership with several large US utilities





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### Transparency

We believe in being transparent about our techniques and accuracy. We are so confident in our process that we provide clients with documentation on our methodologies, and our forecasts include industry-leading verification tools that allow you to see exactly how we are performing.

### Customer Service

Every member of our assessment and forecasting teams has an advanced degree in meteorology or atmospheric science as well as years of practical experience. Our team is not only knowledgeable, but also readily available and always responsive to customer questions and concerns. Rather than dictating the process and final product, we work with you to find a solution tailored to your specific problem.

- Top rated customer service
- Fast turnaround
- Guaranteed 24/7 forecast availability

### Stronger Together

Vaisala combines reliable observations and pragmatic science-based approaches with a deep understanding of your business. We solve weather-related issues, opening new doors and removing growth barriers for renewable energy, while reducing uncertainty, financial risks, and costs for our clients.



Project Feasibility

Energy Marketing

Asset Management

Please contact us at  
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