

Greensolver partners with Tipspeed to strengthen wind farm performance services



More than 2.2 GW of assessments showed that on roughly half of sites, the main cause of the performance gap was not turbine underperformance.

Paris, 2 April 2026 - Greensolver has partnered with Tipspeed to integrate independent wind and performance analysis into its wind asset management and advisory services. The partnership follows more than 2 GW assessed by Tipspeed across 30 wind farms, for which half showed underperformances.

For wind farm operators, the challenge is often not seeing that production is below expectation, but understanding why. The nacelle anemometer, the default wind sensor on every turbine, is mounted behind the rotor, where readings are influenced by the blades and nacelle. Although it is the standard tool, it is difficult to use as an independent wind and performance reference, and its transfer function can also shift over time. Lidars are accurate, but they cover one turbine at a time and can become costly and slow to deploy across a full site.

Tipspeed's physics-based digital twin offers an alternative. Using existing data, including pre-construction measurements and satellite imagery, it models wind conditions, wake effects and expected production at every turbine across a site, without additional hardware. A full farm can typically be fully assessed in a month's time, modelling full years of past performance.

According to the analyses carried out so far, roughly half of the sites assessed did not primarily suffer from turbine underperformance. In many cases, the main explanation for the gap was elsewhere, including lower-than-expected wind resource, wake losses higher than assumed, or the impact of neighbouring wind farms. For asset managers, this can be just as valuable as finding a fault, because it helps explain deviations, reframe expectations and avoid spending time on an issue that is not there.

Where correctable issues were found, the most common ones were curtailment rules relying on biased temperature or wind speed signals, controller settings, and yaw misalignment. Clients have already recovered a combined 31 GWh of annual energy production after corrective actions were implemented and verified. Additional actions are still ongoing.

The partnership is intended to address the next step, moving from diagnosis to implementation. Identifying a likely issue is one thing. Getting an OEM to investigate a controller setting, acknowledge a yaw offset, or implement a correction can take time, technical credibility and persistence. Greensolver also brings complementary services such as inspections, additional analyses and follow-up support when needed.

“With independent and reliable wind data at every turbine, discussions with OEMs become more specific,” said Carla Vico, CEO of Greensolver. “This partnership helps turn a performance question into a technical case that can be investigated and acted on.”

“Sometimes the result is a recoverable issue. Sometimes it is a clearer understanding of what the site actually received from the wind,” said Florian Rebeyrat, co-founder of Tipspeed. “In both cases, operators need a reliable reference to understand asset performance and decide where to focus their efforts.”

Tipspeed will present a new hybrid approach to operational wake modelling at WindEurope Annual Event in Madrid, in the plenary session “Wakes at Scale”, on 22 April 2026, from 14:00 to 15:00, in Room N106. Greensolver will also be present at the event.

About Greensolver — <https://greensolver.net/>

Greensolver is a consultancy that supports renewable energy players in wind, solar and storage technologies, with asset management, technical consultancy and structuring of public-private partnership agreements. Greensolver, a pioneer in BESS asset management in the UK since 2021, currently manages a portfolio of 15 BESS assets totalling over 500MWh in France and the UK. This unique operational expertise will be put to good use in this partnership.

About Tipspeed — <https://www.tipspeed.com/>

Tipspeed provides a physics-based digital twin for wind farm performance analysis. By modeling wind, wake effects, and turbine performance across an entire site, it gives operators and asset managers an independent benchmark to assess production, detect underperformance, and prioritize corrective actions - without extra hardware. Founded in 2023, the company has worked with 20+ customers over 2 GW. Selected for the Iberdrola PERSEO NewTech Challenge and the TotalEnergies ON program at Station F.