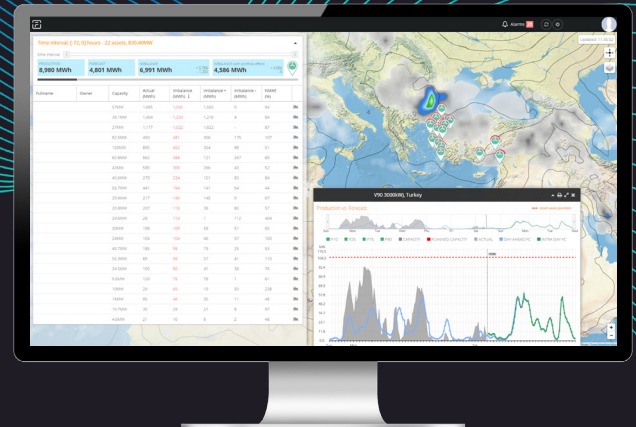## FLUENCE NISPERA™

Generation Forecasting

Increase asset trading, balancing, and maintenance planning efficiency with site specific wind and PV forecasts

Renewable asset owners and operators looking to maximize project value face uncertainty around variable power production. Accurate wind and solar forecasts are critical to reducing this uncertainty but developing and maintaining reliable forecasts can be challenging. Managing the volume and complexity of inputs, including current and future weather data (wind speed, solar radiation, etc.) and technical data (measured power at the site, scheduled availability, etc.) is just the start. In-house teams must also synthesize this information with data harmonization, preparation, and time matching. And finally, these forecasts must be continually tested and refined to stay up-to-date in a fast-paced, dynamic environment.

Nispera provides highly reliable 24/7 forecasts calibrated to the specific characteristics of your wind or photovoltaic plant. Our state-of-the-art artificial neural networks are periodically re-trained for continuous improvements to forecasting accuracy. Forecasting outputs can be adapted to your teams' specific needs – including market operators, traders, and O&M managers.
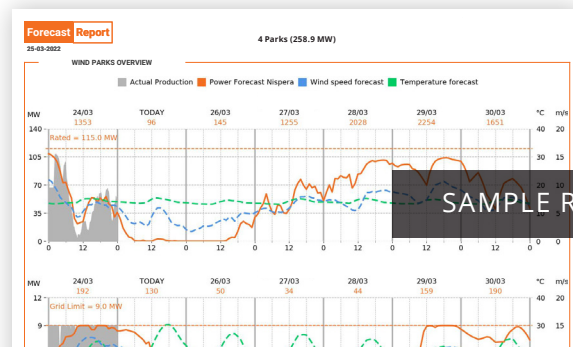
Forecast Optimization

O&M Planning
Typically provided by the O&M personnel or site manager

+

Real-Time Asset Information
To calibrate short-term forecasts and allow for imbalance monitoring

+

Curtailment
Limitations can come from the TSO, other regulatory bodies, or the OEM provider

SAMPLE REPORT

"In Nispera we have found a reliable and flexible provider and we are happy to work together in a continuous effort to improve accuracy of renewable energy production forecasting."

MICHELE GIORDANO
Responsible for short term wind and PV forecasts at Terna