CASE STUDY

LPS (Lightning Protection System) Study

Using data to identify risk levels associated to blade damage occurrence & re-occurrence

SKYSPECS

HORIZON Powered by SKYSPECS

KEY CHALLENGES

- A lack of understanding of the relationship between lightning damages and LPS component failures
- No data-driven method to approach it, nor a system to facilitate such a study

CUSTOMER

Our customer is an owner and operator of a large renewable power portfolio including solar and wind assets in North America and Western Europe.

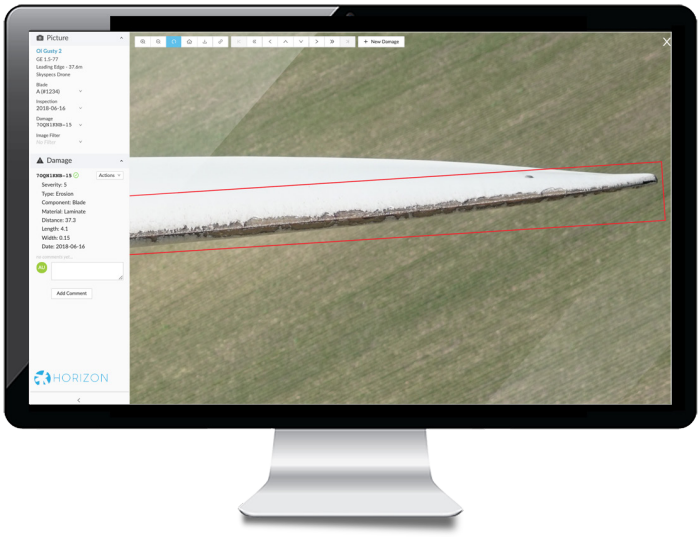
OVERVIEW

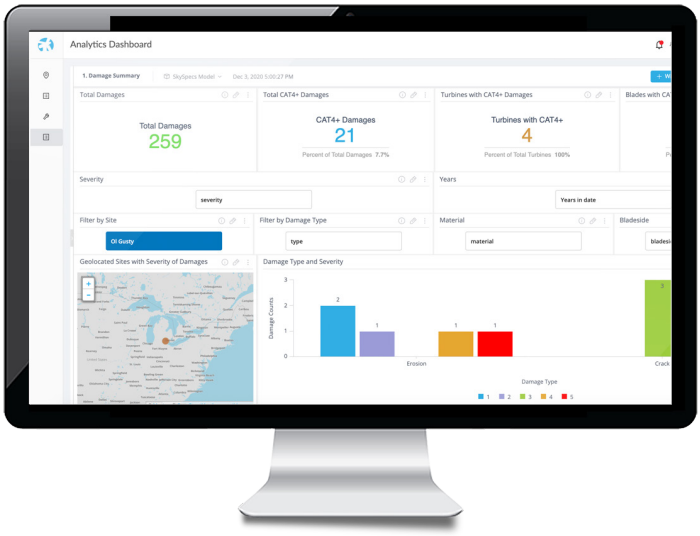
Our customer wanted to better understand how to mitigate the damage caused by lightning, and more strategically plan for repairs based on priority and a better understanding of risk levels.

"Lightning strikes are major contributors to blade damages, potentially leading to failure & downtime. UC Berkeley scientists, along with others, found lightning strikes would increase by about 12% for every 1C of warming, resulting in about 50% more strikes by 2100."

RESULTS

- SkySpecs assessed & correlated blade damages to lightning protection system (LPS) test measurements
- This data was then used to plan maintenance that ultimately avoided costly repairs and replacements
- SkySpecs identified risk levels associated to blade damage occurrence & re-occurrence





Talk to us about your Blade Maintenance Strategy

SCHEDULE A CALL