

HORIZON

Automating the Operations & Maintenance of Wind Farms Using Horizon



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What are Horizon users saying?

“

Original approaches to inspections were very rigid and often not based on data. Horizon enables us to make informed decisions based on necessity and knowledge - not antiquated inspection schedules.

“

We believe in having a collaborative platform and automate as much as possible. Automate the nuts and bolts of bookkeeping, cleaning and scrubbing the flow of repairs. Share data, analytics and auditing. Having that data in one place is very beneficial.

“

Some specific blade types need to be inspected and repaired on a specific schedule, at different intervals. Propagation rates are different. We like to start with a fleet survey and target that inspection to identify high-risk, known issues. Then we can customize ongoing inspection campaigns within Horizon.

“

Horizon can be used for dispositions - repair in 6 months or leave for a year, for example. Then we can see if progression did happen and at what rate, and ultimately ask if we are comfortable with the original disposition. We don't want to leave revenue on the table by leaving a turbine offline because we weren't certain we could operate the asset safely.

Let us show you Horizon:

[Book Demo](#)

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Solving Complex Challenges with Technology & Expertise

As a relatively new industry, there are myriad moving parts, both from a resource standpoint and an operational, in wind energy.

Reducing the cost of turbine maintenance and overall costs is one of the overarching challenges that owners are tasked with solving. It's not always easy to gain the kind of control and transparency needed to devise a plan addressing all of these problems in a linear and efficient fashion.

To add to the complexity, years of transitions between acquisitions and merger activities, due diligence processes and operational data shifts make such control very difficult.

Let's take a closer look at some of the issues SkySpecs is working through with our customer using Horizon:

DATA CHALLENGES

A tremendous amount of disparate data from multiple data sources that include everything from inspection and repair data, to SCADA and weather-related data

Not enough searchable historical data and difficulty linking up historical damage data and repair progress

An excessive amount of data that doesn't clearly indicate trends from one year to another

A lack of standardization and quantification, and an over-reliance on photo-based, subjective data

SYSTEMS & PROCESS CHALLENGES

Disorganized tracking systems -- Excel files, blade inspection trackers, ERPs

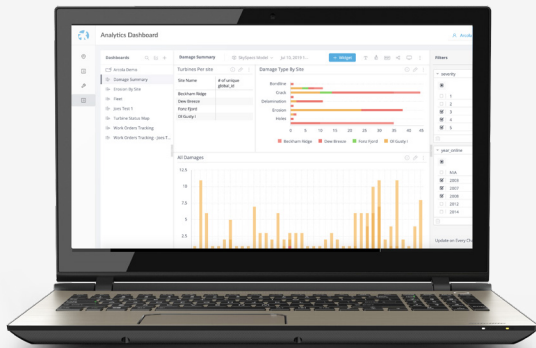
Difficulty coordinating and prioritizing repairs, leading to a lack of efficiency

Changes in ownership and continuity between stages: for example, repairs that are performed by OEMs during the warranty period are often stored in different places and then can all but disappear when ownership changes hands

How Does Horizon Provide Solutions to Some Of These Challenges?

SkySpecs built Horizon to serve as a tool for customers to view, analyze, report, and collaborate on data captured from our autonomous blade inspections. With the benefit of 70,000+ wind turbine blade inspections, Horizon matured into a standalone platform, offering functionality and value for decision making that changes the way key stakeholders work and think about their assets.

Digitizing data and making this data useful is precisely what Horizon was built to do. Horizon will continue to offer functionality that serves our customers' most pressing O&M needs, and begins to standardize systems and processes to ultimately align the industry and make renewable energy more accessible.



Increased usability

Ability to maintain a searchable database, run data visualizations, and control data flow and export

Increased Organizational Efficiency

One platform on which to collaborate = less miscommunication and more clarity on decisions

Tailor your workflows to those that best fit your organizations'

Horizon will wrap more under one roof, decreasing resources and increasing productivity

Organization Of Data

Leveraging the value of data by providing one central location for reporting data, downtime and losses, and failure modes



Better Analytics & Tracking

Locations and visualizations allow customers to spot trends and serial defects - both of which require quantifiable data to promote sound analysis

Tracking modules enable wind operators who are forced to run lean, to focus their resources, time and priorities

Confident Repair Decisions

Digitization of data enables efficiency and accuracy, and provides a trackable visual catalog of damages and severity, along with annotations and observations

Track details of repair campaigns from repair data collection to repair crew assignment, enabling quicker and more confident decision making

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Interested in learning more about Horizon?

Our team of experts will sit down with you to better understand your challenges, and come up with a fully integrated solution.

info@skyspecs.com



Simplify the management of
renewable energy assets.