



EDF Renewable Services Partners with Romax to Streamline End of Warranty Inspections Using Field Pro™

Client

EDF Renewable Services

Challenge

Reduce the amount of time and rework associated with generating high quality End of Warranty (EOW) inspection reports

Solution

Field Pro™ service and inspection app and web portal for reducing wind turbine inspection and reporting time

Benefits

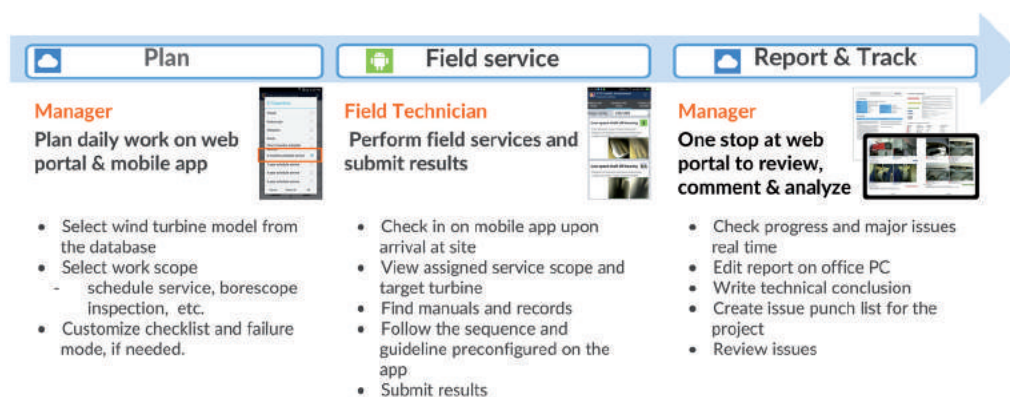
Romax InSight's Field Pro significantly reduces the time spent manually creating inspection reports and allows for real-time communication between engineering management and field technicians, resulting in less rework and increased consistency in reporting

EDF Renewable Services (EDF RS) extensive turbine and operations experience coupled with Romax's drivetrain knowledge and Field Pro™ technology, allow for high quality inspections of the nacelle and drivetrain, while significantly reducing manual reporting time.

On a recent End of Warranty (EOW) project, Romax InSight and EDF RS partnered to perform full scope inspections on over 100 wind turbines. To eliminate the tedious administrative work required to generate inspection reports, the team utilized Field Pro, Romax's mobile service and inspection application.

Standardizing and Improving the EOW Process

Field Pro integrates easily into an EOW inspection process. Before inspections, engineering managers can establish a standardized works scope by job type, turbine model and task. In the field, the mobile app enables the technicians to take pictures and add failure modes, comments and ratings to each component based upon this standardized inspection checklist. The results of the inspection are then uploaded to a Cloud server which automatically converts the data into a report. The engineering manager can review results and provide comments in real time, while the inspection team remains up-tower and reports can be finalized the same day. Additionally, the standardized terminology for issue classification allows for the creation of a useful database to analyze failure data across a farm or fleet.



David Feldkamp, Project Deployment & Support Technician for EDF Renewable Services had this to say "Field Pro was easy to use and it guided me through the End of Warranty inspection process from start to finish. After the inspections were completed, Field Pro converted the pictures I took and comments I wrote into a report and sent it to the project manager. I didn't have to spend time in the evening renaming photos, writing reports, or uploading files."

Thousands of issues (some major, some minor) were found as a result of this EOW project, which is extremely valuable data. However, it's a lot of data to handle without the right tool. With PDF or handwritten reports, it is not possible to make good use of such volumes of information. With Field Pro, however, issues are stored in the Cloud database and visualised within the web portal, allowing windfarm operator to search, analyse and track the issues. All the inspection and service data on the wind turbine is traceable for the life of the asset.

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David Feldkamp

Project Deployment & Support Technician

EDF Renewable Services

There are over 300 inspection points to check on a wind turbine and its components. Field Pro provides best practice for inspections with sequence and specific instructions at each point. It reduces the overall time for a single inspection and drives quality up, leveraging individual experience and setting improved standards of work.

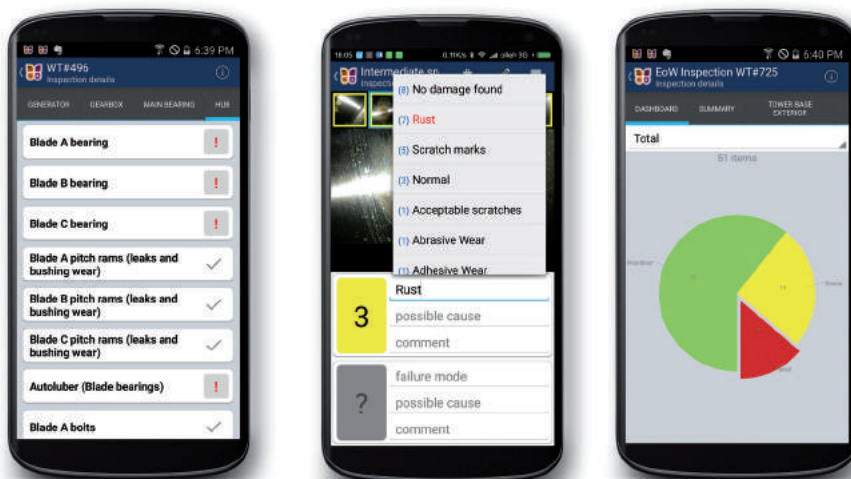
Project manager, Jason Shapiro, relates from the experience of using Field Pro for large EOW projects; "We are very excited with this product as we have found it invaluable when managing field reporting. For full scope EOW, Field Pro saved us 6 man hours per turbine, which provides a cost savings of around \$40,000 on a 100 turbine project. In addition to time and cost savings, this tool increases the quality and consistency of data and reports for field work".

Evolving, Integrating, Upgrading

The new release of Field Pro provides borescope integration where the images from gearbox and main bearing inspections are seamlessly transferred into the Field Pro database. Like with other images, the inspection report is automatically populated and the reviewing engineer can quickly accept and edit as required, the damage ratings and comments.

"I have just finished an EOW project where we did not use Field Pro. I would have loved to use Field Pro instead of a paper work folder, then manually transferring the data to a spreadsheet and manually loading pictures at the end of the day."

*David Feldkamp
Project Deployment & Support Technician
EDF Renewable Services*



Real life screenshots of mobile app inspection tasks and photograph tagging using Romax InSight Field Pro™



Benefits

- **Maximize productivity**
- **Data-driven wind farm management**
- **Assurance of work safety**
- **Teamwork with no delay**

Click or Call:

e: insight.marketing@romaxtech.com
t: +1 303 351 5418 / +44 155 951 8800
w: www.romaxtech.com