

# PowerCurve

We shape power performance

## CALCULATE TURBINE-SPECIFIC AEP LOSS

What is the real cost of blade damages and surface degradation? With AeroVista, you don't need to guess. By using drone inspection data combined with a detailed aerodynamic model, AeroVista can calculate the performance impact of every blade damage.



### Key benefits of AeroVista

- Calculate AEP loss
- Turbine-specific results
- Prioritized blade repair campaigns
- Fully-automated process

### Optimize site profitability

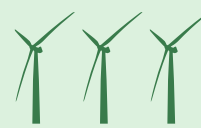
Armed with a complete overview of turbine-specific AEP losses, it is possible to plan O&M operations that will maximize limited repair budgets. Know exactly which turbine should be repaired first – follow the data to make an informed decision that will yield the largest AEP improvement. AeroVista is driven by an aerodynamic model of the actual turbine in question. It is fully-automated, repeatable and consistent.



Drone inspection  
metadata



Fully automated  
high-fidelity tool



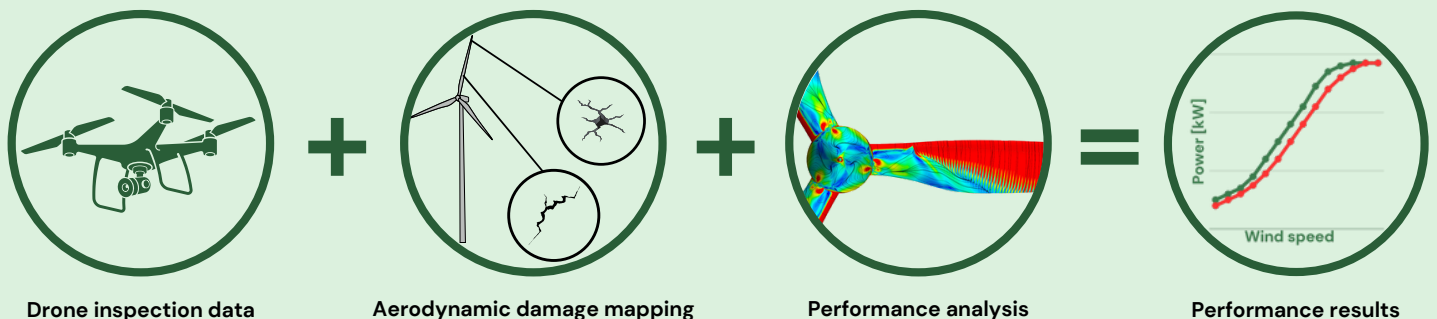
Calculate AEP loss and identify  
best/worst performers

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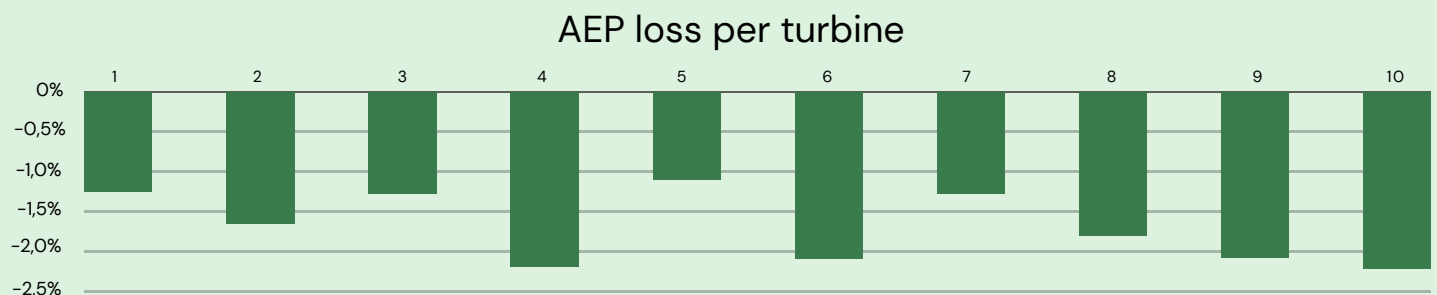
## Mapping the process step-by-step

By using high fidelity drone inspection data and mapping the aerodynamic damages, AeroVista is able to model the aerodynamic impact of the damages. Once the condition of the blades have been determined, a full rotor performance analysis will be conducted. The results from the performance analysis are used to compare with turbine baseline performance and determine AEP loss.



## Identify turbine-specific performance

Different turbines on the same site are uniquely impacted by blade surface degradation. AeroVista enables you to identify the turbines on the site with the highest and lowest AEP loss. In a site of 100 turbines, a random sample of 10 turbines illustrated the wide range of different degradation severity and AEP loss that can occur.



## Improved optimization and repair campaigns with limited O&M budget

AeroVista provides turbine-specific here-and-now asset performance monitoring. This allows the optimization of site profitability given a limited O&M budget and a data-driven approach to be used when considering blade upgrades or repair campaigns.