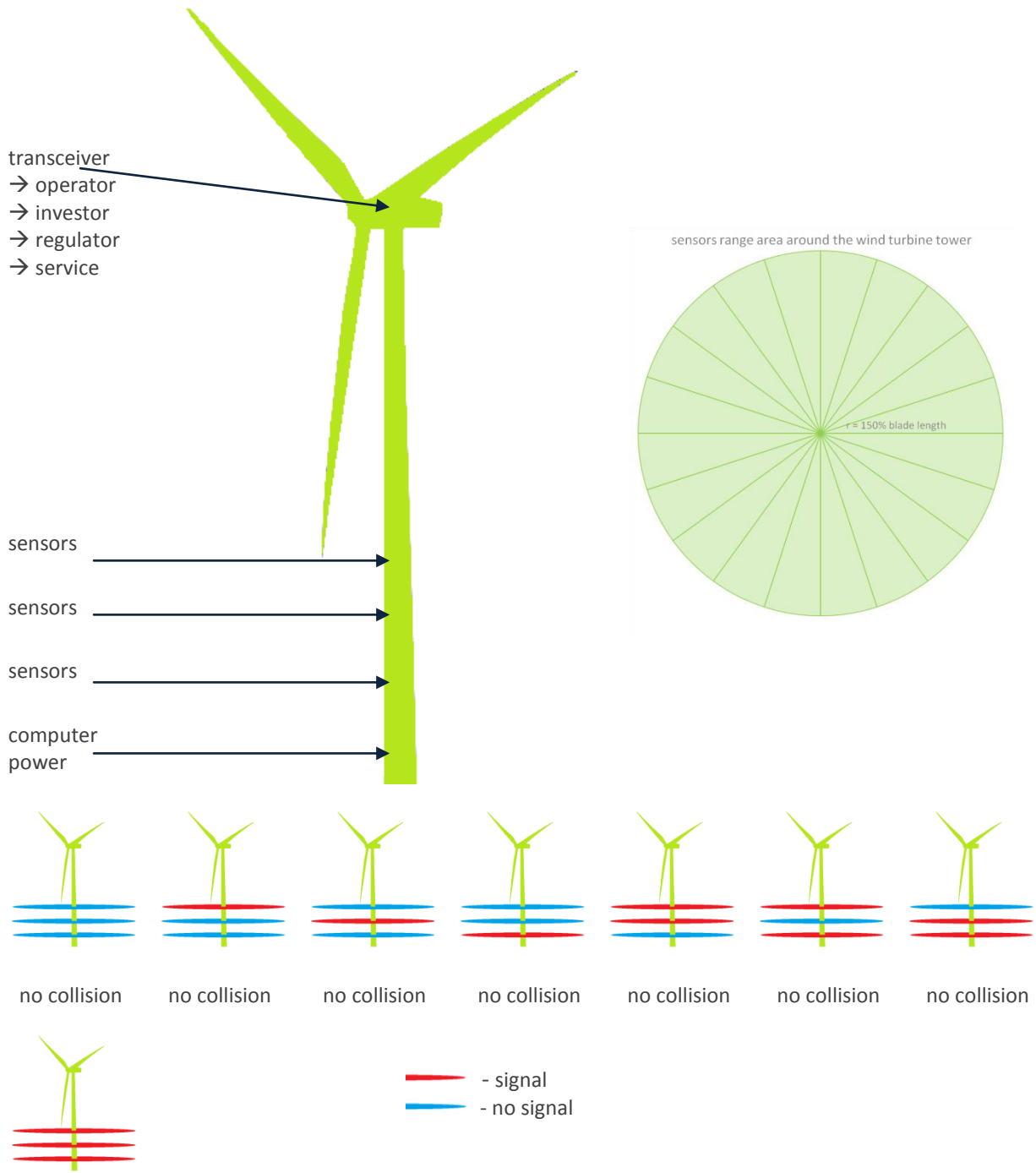


B-FINDER

automatic bats & birds mortality monitoring














how B-finder works?



collision is detected after crossing all zones in defined time and across defined sections

The basic principle of Batfinder is the sequence of recording animal's flight across sensors zones. The flight down of some death or injured animals has different parameters than alive. The algorithm differences them and reports only collisions. The report is send as an e-mail or SMS with information about time of collision and coordinates of the victim.

comparison of bats & birds mortality monitoring methods

		method						
								
human/automatic	category							
								
factor		1	2	3	4	5	6	7
day operation		YES	YES	YES	YES	YES	YES	YES
night operation		YES	YES	NO	YES	YES	YES	YES
day species identification		YES	YES	YES	NO	NO	NO	YES
night spec. identification		YES	YES	NO	NO	NO	NO	YES
searching support		NO	YES	NO	NO	NO	YES	YES
victims location		YES	YES	NO	NO	NO	YES	YES
weather influence		YES	YES	YES	NO	NO	NO	NO
observer influence		YES	YES	NO	NO	NO	NO	NO
analyst influence		YES	YES	YES	YES	NO	NO	NO
vegetation influence		YES	YES	NO	NO	NO	NO	NO
scavenger influence		YES	YES	NO	NO	NO	NO	NO
time-consuming		YES	YES	NO	YES	NO	NO	NO
efficiency*		5-80% ²	70-80% ⁵	<50% ³	>50% ³	>50% ³	100% ³	100% ³
barotrauma ready		YES	YES	NO	YES	NO	YES	YES
offshore operation		NO	NO	YES	YES	YES	YES	YES
automatic online report		NO	NO	NO	NO	YES	YES	YES
standard		NO	NO	NO	NO	YES	YES	YES
results compared		NO	NO	NO	NO	YES	YES	YES
TOTAL STRENGTHS		6	7	7	8	12	16	18
TOTAL WEAKNESSES		12	11	11	10	6	2	0

*- Sources: 1. Arnett E. B., G. D., Johnson W. P., Erickson, C. D. Hein. 2013. A synthesis of operational mitigation studies to reduce bat fatalities at wind energy facilities in North America. A report submitted to the National Renewable Energy Laboratory. Bat Conservation International. Austin, Texas, USA. 2. Hein, C., Gruver, J., Arnett, E. 2013. Relating Pre-Construction Bat Activity and Post-Construction Bat Fatality to Predict Risk at Wind Energy Facilities: A Synthesis. Report by Bat Conservation International, Theodore Roosevelt Conservation Partnership, and Western Ecosystems Technology Inc (WEST). 3. Przybycin M. 2016. Batfinder. Feasibility study. EMPEKO S.A.

category description

- 1 victims search
- 2 victims search + dog
- 3 day camera recording and picture analyze
- 4 day & night camera recording and picture analyze
- 5 udar sensors
- 6 B-finder
- 7 B-finder + species identification

B-finder is breakthrough patented innovation for knock-out from wind power sector unclear monitoring methods, and gives the industry simple, automatic, universal, worldwide, onshore and offshore ready, transparent tool for bats & birds mortality monitoring.

B **BEST** method of bats & birds mortality monitoring for onshore and offshore projects.

A **AUTOMATION** and permanent monitoring, independent of environmental conditions and human activity. You get personalized reports, wherever you are.

T **TRANSPARENCY** and simplicity of the monitoring method. No human interference. You get direct information.

F **FUNCTIONALITY** in every geographical region, from hot Australia to the cold Arctic: no weather, no vegetation, no scavenger, no observer influences.

I **INDEPENDENCY.** You know what's going on, without third side opinion. You can share the results direct with the regulator or bank to prove your project impact in a simple way.

N **NORM & standard.** Results from every single wind turbine with Batfinder are gathered the same way, so the results are standardized and comparable worldwide: N collision/turbine/time.

D **DAY AND NIGHT** 24 h 365 d monitoring enables bats and birds observation. Reports contain time of collisions and localization of victims – local team can quick reach and take on the animal and help its.

E **EFFICIENCY** 100% unreachable by competitive methods, is trustworthy for regulators and investors.

R **RISK ASSESSMENT.** Full efficiency of monitoring gives reliable basis for identification time and periods with high and low collision rate and eliminate unclear precautionary principle from your project.

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