

DTBird® FACT SHEET COLLISION AVOIDANCE & STOP CONTROL MODULES ONSHORE

Collision Probability in WTGs equipped with DTBird® Collision Avoidance and/or Stop Control Modules Onshore

Study Period:	January 2013 - June 2015	
Study Area:	All Wind Farms equipped with DTBird® Collision Avoidance and/or Stop Control Modules, located in: France, Greece, Italy, Poland, Spain, Sweden, Switzerland and USA.	
Wind Turbine Generators (WTGs) Studied:	All WTGs equipped with DTBird® Collision Avoidance and/or Stop Control Modules (>40 WTGs)	
Radius of the Surveillance area around the WTG:	Bird wingspan	Radius
	>150 cm	150-250 m
	75-150 cm	75-150 m
	<75 cm	25-75 m
Service Period:	Daylight (>50 lux)	
Collision probability for a bird detected within the Surveillance area ¹	<0,1 ‰ (<1 collision / 10.000 birds)	
Mean Nº Bird Collisions	<0,05 collisions/WTG/Year	

¹ Overall probabilities of all DTBird® Systems installed worldwide since 2013 with DTBird® Collision Avoidance and/or Stop Control Modules in operation. Probabilities have been calculated for all birds detected by DTBird® Detection Module within the Surveillance area around every WTG (excluded flocks of birds detected flying above the Rotor Swept Area, without any collision risk). For a particular WTG, the probabilities provided can vary, depending on the features of the WTG (tower height, blades length), local environmental conditions, and Species composition.