

# Bat Monitoring & Reduction of Collision Risk with wind Turbines

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# Bat Protection Automatic & Real-Time

DTBat<sup>®</sup> System automatically surveys the airspace around Wind Turbines (WTG) detecting bat passes in real-time; and optionally, reduces the collision risk by triggering WTG Stops linked to bat activity thresholds and/or environmental variables measured in real-time.

DTBat® has 2 modules available: Detection and Stop Control.



# Bat Detection

Automatic and real-time detection of bats with ultrasound recognition.

## Features

- Detection sensors: Bat microphones installed 2 or 3 units. Models Q2 & Q3.
- Optional Environmental Sensors: Temperature, Rain and Humidity and Wind Speed (from the WTG).
- Location: WTG Tower (steel or concrete) and/or Nacelle.
- Surveillance Area: WTG tower, Transition Piece and/or Nacelle.
- Service period: Continuous monitoring during bat activity periods.
- Precision of real-time detection > 0.97 (97% of detections are actual bats).
- Testsignal speaker in microphones.

## Recorded Data

- · Sonograms of every bat pass.
- Bat calls (.wav files)
- Environmental data and WTG operational parameters.
- Automatic species ID. Project specific.







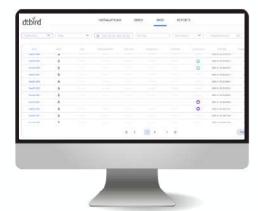
Automatic WTG Shutdown linked to real-time bat detection.

#### Features

- Interface with WTG: DTBat® hardware and software compatible with all WTG manufacturers.
- Automatic Stop trigger: linked to real-time bat activity thresholds and/or environmental variables.
- Stop trigger: < 2 s after bat pass detection.
- Stop duration according to bat activity detected. Typical stop program covers > 90% of bat activity. Adjustable to Client/Environmental Authority requirements.
- Automatic notification of every Stop: Trigger (first notification), end time and duration (second notification).

## Recorded Data

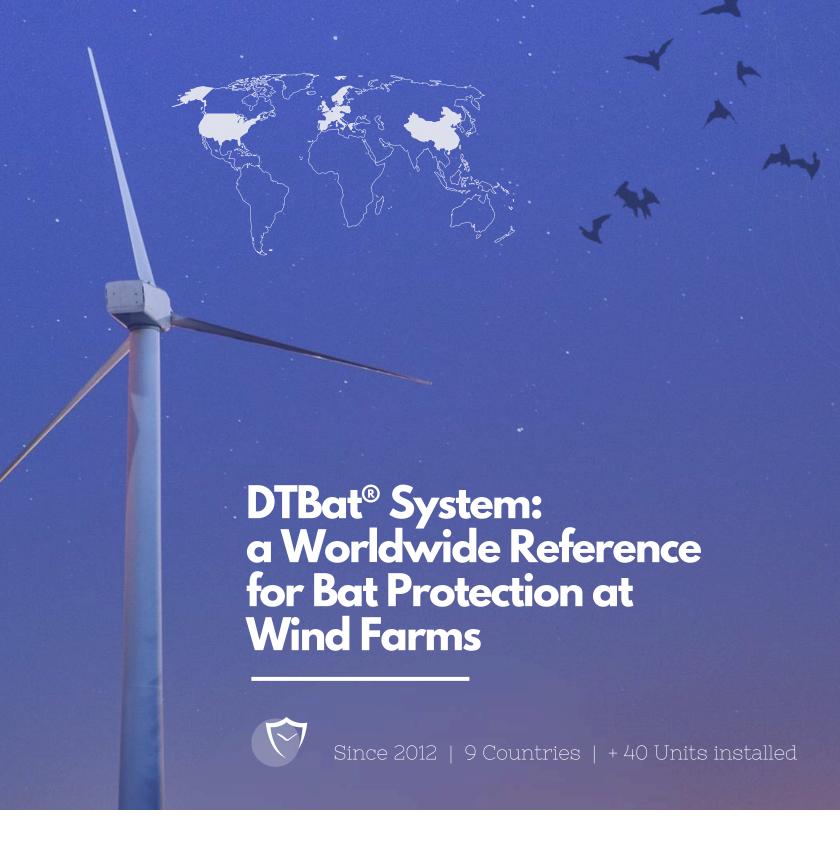
- Stop time data: Init time, end time and duration.
- Sonograms of all bat passes detected.



# Nest Platform

### Features

- Access to bat calls, environmental data, WTG operational parameters, and shutdown actions.
- Data summarization in charts and graphics.



DTBird® & DTBat® features are demanded by environmental administrations of an increasing number of countries. +500 DTBird® & DTBat® units have been installed at over 110 existing / projected, onshore / offshore wind farms in 17 countries (Austria, Belgium, China, Djibouti, France, Germany, Greece, Italy, Norway, Poland, Spain, Sweden, Switzerland, Taiwan, The Netherlands, the United Kingdom and the United States). DTBat is operating at WTG since 2012.



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