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Bat Biology in Relation to Wind Energy Development

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Message from the Guest Editors

Wind-turbine-related bat mortality is a major conservation concern as hundreds of thousands of bats are killed annually at wind farms worldwide. The issue is compounded by a lack of knowledge regarding 1) the population size and trends for many of the species impacted, 2) the behavior and physiological characteristics that attract bats to wind turbines, and 3) bat activity and movement patterns. Advances in population analyses, thermal video cameras, and machine learning, and radiotracking and GPS tags may help to improve our ability to assess and mitigate the potential population-level risk of land-based and offshore wind turbines on bats by improving the effectiveness of impact reduction strategies, such as smart curtailment and ultrasonic deterrents.

This Special Issue focuses on advancements in the methodologies used to assess bat populations, technologies used to study bat activity and behavior, and physiological characteristics that relate to how bats respond to various stimuli (e.g., audio, visual, electromagnetic) that may serve as either attractors or deterrents to wind turbines.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

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