STATE OF NEW YORK

7284

2025-2026 Regular Sessions

IN SENATE

April 8, 2025

Introduced by Sen. HARCKHAM -- read twice and ordered printed, and when printed to be committed to the Committee on Energy and Telecommunications

AN ACT directing the department of public service, New York state energy research and development authority, and the power authority of the state of New York to commission a study on the utilization of directional noise reduction optimization technology for wind turbines in New York state

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. The department of public service, in conjunction with the New York state energy research and development authority, and the power authority of the state of New York shall commission a study on the utilization of directional noise reduction optimization technology for wind turbines in New York state. The study shall evaluate the effectiveness of directional noise reduction optimization technology in reducing noise levels and its impact on energy production as compared with other operational methods of reducing wind turbine noise levels.

§ 2. Such study shall include:

a. an assessment of current operational noise mitigation methods implemented across New York State at currently operating wind facilities;

b. an assessment of the current deployment of directional noise reduction optimization in wind turbines within New York state and other regions with similar conditions, as appropriate;

c. an analysis of existing peer-reviewed studies on directional noise reduction optimization and related noise reduction technologies, if available;

d. an analysis of current directional noise reduction optimization technology, including existing directional noise reduction optimization

EXPLANATION--Matter in *italics* (underscored) is new; matter in brackets [-] is old law to be omitted.

LBD11566-01-5

technologies and their effectiveness in different environmental conditions;

e. collaboration with existing wind facilities within New York state to gather data on noise levels, turbine operations, and energy output, at facilities implementing directional noise reduction optimization compared with facilities implementing other noise mitigation methods; and

f. a comparison of energy production of turbines with and without directional noise reduction optimization implementation under various operational conditions, including a comparison of energy production with noise reduction techniques that more broadly apply these techniques in all wind directions.

§ 3. Upon completion of the study, the department of public service, in conjunction with the New York state energy research and development authority, and the power authority of the state of New York shall jointly provide recommendations for the utilization of directional noise reduction optimization technology in the state and, if appropriate, suggest statutory or regulatory amendments needed to support the integration of directional noise reduction optimization in the state's renewable energy strategy.

§ 4. The study shall be commissioned within one hundred eighty days of the effective date of this act and submitted, with recommendations, to the legislature within one year from the date of such commissioning.

§ 5. This act shall be effective immediately.