# STATE OF NEW YORK

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# IN SENATE

January 24, 2019

Introduced by Sens. PARKER, BIAGGI, BRESLIN, COMRIE, FUNKE, HARCKHAM, SAVINO, THOMAS -- read twice and ordered printed, and when printed to be committed to the Committee on Energy and Telecommunications -- committee discharged, bill amended, ordered reprinted as amended and recommitted to said committee -- reported favorably from said committee, ordered to first and second report, ordered to a third reading, amended and ordered reprinted, retaining its place in the order of third reading

AN ACT to amend the energy law, in relation to directing the state energy planning board to conduct a study of the technical and economic feasibility of a one hundred percent renewable energy system and a reduction in greenhouse gas emissions

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

Section 1. The energy law is amended by adding a new section 6-110 to read as follows:

**§ 6-110. Supplemental study on the technical and economic feasibility of a one hundred percent renewable energy system and a reduction in greenhouse gas emissions. 1. On or before September first, two thousand twenty, and every four years thereafter, the board shall publish and update a comprehensive study to determine the technical and economic feasibility of meeting the following goals:**

**(a) one hundred percent of the electricity consumed in the state generated by renewable energy resources by the year two thousand thirty, and, alternatively, the year two thousand fifty.**

**(b) reducing greenhouse gas emissions from all anthropogenic sources one hundred percent below the levels of greenhouse gas emissions in the year nineteen hundred ninety by the year two thousand fifty, with an incremental target of at least a fifty percent reduction in greenhouse gas emissions below the levels of greenhouse gas emissions in the year nineteen hundred ninety by the year two thousand thirty.**

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

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2. Such study shall include, at a minimum, an assessment of each of the following:

(a) the timing, costs, economic impacts, and feasibility associated with pathways to meet these goals. In terms of the evaluation of costs, the study shall:

(i) evaluate, using the best available economic models, emission estimation techniques and other scientific methods, the total potential costs and potential economic and non-economic benefits of meeting these goals;

(ii) evaluate the economic impact of meeting the goals on the state's businesses, jobs, ratepayers and residents assuming:

(A) the renewable and greenhouse gas emissions goals of other states and regions in the United States are at least fifty percent lower than New York state's goals;

(B) the renewable and greenhouse gas emissions goals of other states and regions in the United States are as those in place as of the date of the study;

(C) the existence of technology in place as of the date of the study.

(b) the technical and cost impact on maintaining electric system reliability, including but not limited to, the need for and type of back-up power supplies and of energy storage systems to maintain electric system reliability.

(c) the short-term and long-term actions to feasibly meet the goals across all economic sectors, including industry, transportation, agriculture, building construction and energy production, including:

(i) an analysis of the anticipated emission reductions, and the economic implications thereof, as a result of each action.

(ii) identification of the anticipated life-cycle implications, consequences, benefits and costs of implementing each action, including implications, consequences, benefits and costs to New York state, local governments, businesses, ratepayers and residents from implementation of each action.

(d) estimated timelines for considering and implementing such actions.

(e) exploration of various renewable technology and energy efficiency deployment scenarios.

(f) a requirement for any new vehicles sold in the state to be powered by electricity generated by renewable energy resources or otherwise to be free of emissions.

(g) proposals for new structures constructed in the state to be net zero emission structures.

(h) transition to renewable heating and cooling provided by heat pumps powered by renewable energy resources or other means resulting in net zero emissions.

(i) the economic and social benefits of greenhouse gas emissions reductions, taking into account the federal social cost of carbon, any other tools that the board deems useful and pertinent for this analysis, and any environmental, economic and public health co-benefits (such as the reduction of co-pollutants and the diversification of energy sources).

3. Such study shall build upon relevant expertise already at the board's disposal.

4. The board may contract with an independent and competitively selected contractor to undertake such study.

5. The board, and any contractors it may retain for such purposes, shall consult with entities that have resources and expertise to assist in such study, including, but not limited to, academic partners, elec-

tric corporations, electricity generating companies, trade organizations, environmental justice groups, and other stakeholders.

6. The board shall prepare a report on such study's findings. The board shall transmit such report along with the study to the governor, the speaker of the assembly, the temporary president of the senate, the chair of the assembly energy committee, and the chair of the senate energy and telecommunications committee no later than thirty days after the study's completion.

7. The Long Island power authority and the power authority of the state of New York are authorized, as deemed feasible and advisable by their respective boards, to make a voluntary contribution toward the study.

§ 2. This act shall take effect immediately.