



General Assembly

February Session, 2024

***Raised Bill No. 5440***

LCO No. 2479



Referred to Committee on ENERGY AND TECHNOLOGY

Introduced by:  
(ET)

***AN ACT CONCERNING LIFECYCLE GREENHOUSE GAS EMISSIONS OF BIOFUELS.***

Be it enacted by the Senate and House of Representatives in General Assembly convened:

1 Section 1. Subsection (a) of section 22a-200b of the general statutes is  
2 repealed and the following is substituted in lieu thereof (*Effective October*  
3 *1, 2024*):

4 (a) The Commissioner of Energy and Environmental Protection shall,  
5 with the advice and assistance of a nonprofit association organized to  
6 provide scientific, technical, analytical and policy support to the air  
7 quality and climate programs of northeastern states: (1) Not later than  
8 December 1, 2009, publish an inventory of greenhouse gas emissions to  
9 establish a baseline for such emissions for the state and publish a  
10 summary of greenhouse gas emission reduction strategies on the  
11 Department of Energy and Environmental Protection's Internet web  
12 site, (2) not later than July 1, 2010, publish results of various modeling  
13 scenarios concerning greenhouse gas emissions, including, but not  
14 limited to, an evaluation of the potential economic and environmental  
15 benefits and opportunities for economic growth based on such

16 scenarios, (3) not later than July 1, 2011, analyze greenhouse gas  
17 emission reduction strategies and, after an opportunity for public  
18 comment, make recommendations on which such strategies will achieve  
19 the greenhouse gas emission levels specified in section 22a-200a, and (4)  
20 not later than July 1, 2012, and every three years thereafter, develop,  
21 with an opportunity for public comment, a schedule of recommended  
22 regulatory actions by relevant agencies, policies and other actions  
23 necessary to show reasonable further progress towards achieving the  
24 greenhouse gas emission levels specified in section 22a-200a. On and  
25 after October 1, 2024, any report or inventory that the commissioner  
26 publishes pursuant to this section that analyzes or models greenhouse  
27 gas emissions shall measure lifecycle greenhouse gas emissions using  
28 the Argonne National Laboratory's greenhouse gases, regulated  
29 emissions, and energy use in technologies model, or a successor model.

30 Sec. 2. Section 22a-200d of the general statutes is repealed and the  
31 following is substituted in lieu thereof (*Effective October 1, 2024*):

32 In order to achieve the emission reduction requirements established  
33 in section 22a-200a, the state shall implement the following:

34 (1) The Department of Energy and Environmental Protection shall  
35 monitor the development of low-carbon fuel standards in other states or  
36 jurisdictions, evaluate the potential of any such standard to achieve net  
37 carbon reductions, and [assess whether the analytical framework used  
38 to determine the carbon benefit measures] analyze the full lifecycle of  
39 greenhouse gas emissions, including direct and indirect emissions of  
40 greenhouse gas caused by changes in land use or other factors. [Such  
41 assessment] The department shall [include, but not be limited to, the  
42 modeling tools developed by the California Air Resources Board and  
43 the United States Environmental Protection Agency. The analytical  
44 framework used to measure actual lifecycle greenhouse gas emissions  
45 for fuel shall include all stages of fuel and feedstock production,  
46 delivery and use of the finished fuel to the ultimate consumer, and shall  
47 adjust the mass values for all greenhouse gas emissions relative to such  
48 emissions' relative global warming potential.] perform such analysis

49 using the Argonne National Laboratory's greenhouse gases, regulated  
50 emissions, and energy use in technologies model, or a successor model.

51 (2) The Department of Transportation shall, within available  
52 appropriations, continue to investigate the potential for improvements  
53 to the state's transportation system that will reduce greenhouse gas  
54 emissions and coordinate with the northeastern states on regional  
55 strategies to incorporate greenhouse gas emission reductions into  
56 regional transportation planning, including, but not limited to, high  
57 speed rail, light-rail passenger service and freight rail service within the  
58 northeast region.

59 (3) The Department of Energy and Environmental Protection may  
60 work with interested states and Canadian provinces to develop and  
61 implement market-based compliance mechanisms to achieve the  
62 greenhouse gas levels and limits established by section 22a-200a,  
63 including, but not limited to, cap and trade programs.

64 Sec. 3. Subsection (e) of section 16a-3d of the general statutes is  
65 repealed and the following is substituted in lieu thereof (*Effective October*  
66 *1, 2024*):

67 (e) For the Comprehensive Energy Strategy next approved after  
68 October 1, [2021] 2023, and every Comprehensive Energy Strategy  
69 prepared thereafter, the Commissioner of Energy and Environmental  
70 Protection shall consider: (1) [the] The reductions in greenhouse gas  
71 emissions resulting from the use of low-carbon fuel blends [used] in  
72 home heating oil, as measured on a [life-cycle] lifecycle basis [,] using  
73 the Argonne National Laboratory's greenhouse gases, regulated  
74 emissions, and energy use in technologies model, or a successor model;  
75 (2) possible contributions to the state's greenhouse gas emissions  
76 mandated levels, pursuant to section 22a-200a, in connection with the  
77 reduction of greenhouse gas emissions on a [life-cycle] lifecycle basis; [,]  
78 (3) the ability of a thermal portfolio standard to further reductions in  
79 greenhouse gas emissions, as measured on a [life-cycle] lifecycle basis  
80 [,] using the Argonne National Laboratory's greenhouse gases,

81 regulated emissions, and energy use in technologies model, or a  
 82 successor model; and (4) five-year, ten-year and twenty-year projections  
 83 that compare the relative value of [the] (A) reductions in greenhouse gas  
 84 emissions [on a life-cycle basis] achieved by biodiesel and other low-  
 85 carbon fuel blends currently used [currently] in the state, as measured  
 86 on a lifecycle basis using the Argonne National Laboratory's greenhouse  
 87 gases, regulated emissions, and energy use in technologies model, or a  
 88 successor model, [compared with] and (B) [the value of future projected]  
 89 reductions in greenhouse gas emissions [reductions] achieved by the  
 90 retail heating oil industry, as measured on a [life-cycle] lifecycle basis  
 91 [five, ten, and twenty years into the future using the Department of  
 92 Energy and Environmental Protections' contemporaneous projection of  
 93 renewable energy utilized] using the Argonne National Laboratory's  
 94 greenhouse gases, regulated emissions, and energy use in technologies  
 95 model, or a successor model.

This act shall take effect as follows and shall amend the following sections:		
Section 1	<i>October 1, 2024</i>	22a-200b(a)
Sec. 2	<i>October 1, 2024</i>	22a-200d
Sec. 3	<i>October 1, 2024</i>	16a-3d(e)

**Statement of Purpose:**

To require the Department of Energy and Environmental Protection to use the greenhouse gases, regulated emissions, and energy use in technologies, or "GREET", model in measuring lifecycle greenhouse gas emissions of biofuels.

*[Proposed deletions are enclosed in brackets. Proposed additions are indicated by underline, except that when the entire text of a bill or resolution or a section of a bill or resolution is new, it is not underlined.]*