# HOUSE . . . . . . . . . . . . . No. 832

### The Commonwealth of Massachusetts

PRESENTED BY:

Joan Meschino

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled:

The undersigned legislators and/or citizens respectfully petition for the adoption of the accompanying bill:

An Act to create a 2050 roadmap to a clean and thriving commonwealth.

#### PETITION OF:

NAME:	DISTRICT/ADDRESS:
Joan Meschino	3rd Plymouth
Bruce J. Ayers	1st Norfolk
Ruth B. Balser	12th Middlesex
Christine P. Barber	34th Middlesex
John Barrett, III	1st Berkshire
David Biele	4th Suffolk
Natalie M. Blais	1st Franklin
Michelle L. Ciccolo	15th Middlesex
Mike Connolly	26th Middlesex
Edward F. Coppinger	10th Suffolk
Daniel R. Cullinane	12th Suffolk
Julian Cyr	Cape and Islands
Mindy Domb	3rd Hampshire
Daniel M. Donahue	16th Worcester
Michelle M. DuBois	10th Plymouth
Nika C. Elugardo	15th Suffolk
Tricia Farley-Bouvier	3rd Berkshire
Paul R. Feeney	Bristol and Norfolk

Dylan A. Fernandes	Barnstable, Dukes and Nantucket
Denise C. Garlick	13th Norfolk
Carmine Lawrence Gentile	13th Middlesex
Carlos Gonzalez	10th Hampden
Kenneth I. Gordon	21st Middlesex
Tami L. Gouveia	14th Middlesex
James K. Hawkins	2nd Bristol
Jonathan Hecht	29th Middlesex
Natalie M. Higgins	4th Worcester
Kate Hogan	3rd Middlesex
Patrick Joseph Kearney	4th Plymouth
Mary S. Keefe	15th Worcester
Kay Khan	11th Middlesex
Kathleen R. LaNatra	12th Plymouth
David Henry Argosky LeBoeuf	17th Worcester
Jack Patrick Lewis	7th Middlesex
David Paul Linsky	5th Middlesex
Jay D. Livingstone	8th Suffolk
Adrian C. Madaro	1st Suffolk
Paul McMurtry	11th Norfolk
Christina A. Minicucci	14th Essex
Liz Miranda	5th Suffolk
Frank A. Moran	17th Essex
Mathew J. Muratore	1st Plymouth
Brian W. Murray	10th Worcester
Harold P. Naughton, Jr.	12th Worcester
Tram T. Nguyen	18th Essex
Marc R. Pacheco	First Plymouth and Bristol
Alice Hanlon Peisch	14th Norfolk
Smitty Pignatelli	4th Berkshire
Denise Provost	27th Middlesex
Rebecca L. Rausch	Norfolk, Bristol and Middlesex
David Allen Robertson	19th Middlesex
Maria Duaime Robinson	6th Middlesex
David M. Rogers	24th Middlesex
Jeffrey N. Roy	10th Norfolk
Daniel J. Ryan	2nd Suffolk
Thomas M. Stanley	9th Middlesex
Andres X. Vargas	3rd Essex

RoseLee Vincent	16th Suffolk
Tommy Vitolo	15th Norfolk

## HOUSE . . . . . . . . . . . . . . No. 832

By Ms. Meschino of Hull, a petition (accompanied by bill, House, No. 832) of Joan Meschino and others for legislation to address climate protection, green economy and global warming solutions. Environment, Natural Resources and Agriculture.

### The Commonwealth of Alassachusetts

In the One Hundred and Ninety-First General Court (2019-2020)

An Act to create a 2050 roadmap to a clean and thriving commonwealth.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

- SECTION 1. Section 1 of chapter 21N of the General Laws, as appearing in the 2016
- 2 Official Edition, is hereby amended by striking out the definition of "Direct emissions", in lines
- 3 17 to 20, inclusive, and inserting in place thereof the following definition:-
- 4 "Direct emissions", emissions from sources that are owned or operated, in whole or in
- 5 part, by any person, entity, or facility including, but not limited to, emissions from any
- 6 transportation vehicle, any building or structure, or any residential, commercial, institutional,
- 7 industrial or manufacturing process.
- 8 SECTION 2. Section 1 of chapter 21N of the General Laws, as appearing in the 2016
- 9 Official Edition, is hereby amended by inserting after the definition of "Greenhouse gas
- emissions source", in lines 44 to 49, inclusive, the following definition:-
- "Greenhouse gas-emitting priority", matter that emits or is capable of emitting a
- 12 greenhouse gas when burned including, without exception, natural gas, petroleum, coal, and any

solid, liquid or gaseous fuel derived therefrom as well as all others identified as such by the department.

SECTION 3. Section 1 of chapter 21N of the General Laws, as appearing in the 2016

Official Edition, is hereby amended by striking out the definition of "Indirect emissions", in lines
50 to 52, inclusive, and inserting in place thereof the following definition:-

"Indirect emissions", emissions associated with the consumption of any greenhouse gasemitting priority or purchased electricity, steam and heating or cooling by an entity or facility.

SECTION 4. Section 1 of chapter 21N of the General Laws, as appearing in the 2016 Official Edition, is hereby amended by striking out the definition of "Market-based compliance mechanism", in lines 56 to 65, inclusive, and inserting in place thereof the following definition:-

"Market-based compliance mechanism", any form of priced compliance system imposed on sources or categories of sources, or pricing mechanism imposed directly on greenhouse gasemitting priorities or on their the distribution or sale, designed to reduce emissions as required by this act including, but not limited to (i) a system of market-based declining annual aggregate emissions limitations for sources or categories of sources that emit greenhouse gases; or (ii) greenhouse gas emissions exchanges, banking, credits and other transactions governed by rules and protocols established by the secretary or a regional program that result in the same greenhouse gas emissions reduction, over the same time period, as direct compliance with a greenhouse gas emissions limit or emission reduction measure adopted by the executive office

34	pursuant to this chapter; or (iii) a system of charges or exactions imposed in order to reduce
35	statewide greenhouse gas emissions in whole or in part.
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37	SECTION 5. Subsection (a) of section 2 of chapter 21N of the General Laws, as
38	appearing in the 2016 Official Edition, is hereby amended by striking out its first sentence and
39	inserting in place thereof the following:-
40	The department shall monitor and regulate greenhouse gas-emitting priorities and direct
41	and indirect emissions of greenhouse gases with the goal of reducing those emissions in order to
42	achieve greenhouse gas emissions limits established by and pursuant to chapters 21N and
43	21N1/2.
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45	SECTION 6. Subpart (4) of subsection (b) of section 3 of chapter 21N of the General
46	Laws, as appearing in the 2016 Official Edition, is hereby amended by striking it out and
47	inserting in place thereof the following:-
48	(4) a 2050 statewide emissions limit that achieves at least net zero statewide greenhouse
49	gas emissions.
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51	SECTION 7. Chapter 298 of the Acts of 2008 is hereby amended by striking out section
52	16 in its entirety.

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SECTION 8. The General Laws are hereby amended by inserting after chapter 21N the following chapter:-

Chapter 21N1/2. Global Warming Solutions Implementation Act.

Section 1. Unless otherwise defined herein, terms defined in section 1 of chapter 21N have the same meaning when used in this chapter.

Section 2. No later than December 31, 2020, the secretary shall conduct and publish the results of detailed, quantitative modeling and analysis of the commonwealth's energy economy and emissions in their regional context, to include the regional electric grid, sufficient to identify multiple technically and economically feasible pathways of reducing statewide emissions consistent with the 2050 emissions limit required by section 3(b) of chapter 21N. Such modeling and analysis shall employ back-casting methodology, shall be comparable to that conducted by the European Union in support of its Roadmap 2050 effort, may be conducted in conjunction with other states or regional entities as part of an analysis of reducing regional emissions in 2050 to a level consistent with those required by chapter 21N for the commonwealth, and shall include or be accompanied by analysis quantitatively assessing for each pathway economic, environmental, and public health impacts particularly those that may benefit or burden low or moderate income people or any environmental justice populations. The secretary shall publish the results of the modeling and analysis required by this section, and shall also make available for public inspection and use the model, all model assumptions, and all input and output data.

Section 3. In conjunction with the modeling and analysis required in section 2, and in any case no later than December 31, 2020, the secretary shall adopt the interim 2030 and 2040 emissions limits consistent with that analysis and as required by section 3(b) of chapter 21N. The

interim 2030 emissions limit shall be at least 50 per cent below the 1990 level, and the interim 2040 emissions limit shall be at least 75 per cent below the 1990 level. In setting the interim 2030 and 2040 emissions limits, the secretary shall comply with the second sentence of subsection (a) of section 4 chapter 21N and with subsections (b), (c), (d), (e), (f) and (g) of section 4 chapter 21N.

Section 4. After conducting the modeling and analysis required in section 2, and in any case no later than December 31, 2021, the secretary shall issue a 2050 emissions reduction roadmap plan in lieu of the plan update required by section 4(h) of chapter 21N. The 2050 emissions reduction roadmap plan shall describe in detail the commonwealth's plan to achieve the 2050 emissions limit required by section 3(b) of chapter 21N, as well as the interim 2030 and 2040 emissions limits, by means of one or more technically and economically feasible pathways selected to reduce statewide emissions. The 2050 emissions reduction roadmap plan must address all sources or categories of sources that emit greenhouse gas emissions and indicate for each how, to what extent, and when the commonwealth will act to reduce their emissions as part of a plan achieve the 2050 emissions limit required by section 3(b) of chapter 21N. In developing the 2050 emissions reduction roadmap plan, the secretary shall comply with section 4 of chapter 21N as described in section 3. The secretary shall update the 2050 emissions reduction roadmap plan at least once every thirty months. This section 4 reporting requirement supersedes and replaces that required by subsection (h) of section 4 of chapter 21N.

Section 5. Separate from the plan required by section 4, the secretary shall after conducting the modeling and analysis required in section 2, and no later than December 31, 2021, issue the report required by section 5 of chapter 21N, hereinafter referred to as the Global Warming Solutions Act implementation assessment report. The report must quantitatively assess

the effectiveness of all regulations and programs designed to reduce greenhouse gas emissions directly or indirectly and must also address all elements required by section 5 of chapter 21N, except that the secretary shall update and file the Global Warming Solutions Act implementation assessment report annually.

Section 6. No later than December 31, 2022, the commonwealth and its agencies shall promulgate regulations regarding all sources or categories of sources and all greenhouse gas emitting priorities sufficient to achieve the 2050 emissions limit required by section 3(b) of chapter 21N. The development of such regulations shall be coordinated by the secretary, and shall be consistent with the modeling and analysis required in section 2, with achievement of the adopted interim 2030 and 2040 emissions limits as required by section 3, and with the plan required by section 4, and shall be designed to ensure that the commonwealth achieves its required emissions reductions equitably and in a manner that protects, and where feasible improves the condition of, low and moderate income persons and environmental justice populations while creating, where feasible, additional employment and economic development in the commonwealth. The regulations required by this section 6 may include any market-based compliance mechanism or other carbon pricing for any greenhouse gas or greenhouse gasemitting priority that the Secretary has determined to be likely to contribute to the cost-effective reduction of direct or indirect emissions as required by chapters 21N and 21N1/2.

Section 7. No later than six months after this chapter is enacted, the department may, in consultation with the secretary, impose a schedule of fees on regulated sources of greenhouse gas emissions sufficient to recover, for each fiscal year, the costs of implementation of chapters 21N and 21N1/2. Revenues collected pursuant to this section shall be deposited in a Global Warming

Solutions Act Implementation Fund for use, as directed by the legislature or the secretary, solely for the purpose of carrying out chapters 21N and 21N1/2.

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Section 8. All municipal electric departments and municipal light boards as defined in section 1 of chapter 164A are subject to chapters 21N and 21N1/2 and shall be included in all regulations and programs associated therewith unless the secretary determines their inclusion will not contribute to the commonwealth's achievement of the greenhouse gas emissions limits established by those chapters. When including municipal electric departments and municipal light boards in any such regulation or program, the secretary shall consult with the municipal electric departments and municipal light boards and shall take into account, where relevant, their size and structure as well as their existing programs, contractual obligations and asset ownership. In lieu of, or in conjunction with, the inclusion of municipal electric departments and municipal light boards in any such regulation or program, the secretary may order or allow a municipal electric department or municipal light board to submit for the secretary's review and approval, pursuant to chapter 30A of the General Laws, a comprehensive plan detailing that department or board's plan to achieve or exceed the greenhouse gas emissions limits established by chapters 21N and 21N1/2. The secretary shall enforce any such plan so approved and may revoke approval for non-compliance.