The Commonwealth of Massachusetts

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

SENATE, January 23, 2020.

The committee on Senate Ways and Means to whom was referred the Senate Bill to encourage the deployment of heat pumps (Senate, No. 1925) (also based on Senate, Nos. 524, 1926, 1929, 1935, 1957 and 2011), - reports, recommending that the same ought to pass with an amendment substituting a new draft entitled "An Act setting next-generation climate policy" (Senate, No. 2477).

For the committee, Michael J. Rodrigues **SENATE No. 2477**

The Commonwealth of Massachusetts

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

An Act setting next-generation climate policy.

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

1 SECTION 1. Section 1 of chapter 21N of the General Laws, as appearing in the 2018

Official Edition, is hereby amended by striking out the definition of "Market-based compliance

mechanism" and inserting in place thereof the following definition:-

"Market-based compliance mechanism", a pricing or compliance mechanism or system, imposed on sources or categories of sources of greenhouse gas-emitting substances or on the distribution or sale of greenhouse gas-emitting substances, designed to reduce emissions as required by this chapter, including, but not limited to, any mechanism or system of: (i) market-

8 based declining annual aggregate emissions limitations for sources or categories of sources that

emit greenhouse gases; (ii) greenhouse gas emissions exchanges, banking, credits and other

transactions governed by rules and protocols established by the secretary, a regional program or

other interested states that results in the same greenhouse gas emissions reductions, over the

same time period, as direct compliance with a greenhouse gas emissions limit or emissions

reduction measure adopted pursuant to this chapter; or (iii) charges or exactions imposed to

reduce statewide greenhouse gas emissions in whole or in part.

SECTION 2. Subsection (a) of section 2 of said chapter 21N, as so appearing, is hereby amended by striking out the first sentence and inserting in place thereof the following sentence:

The department shall monitor and regulate emissions of greenhouse gases with the goal of reducing emissions in order to achieve the greenhouse gas emissions limits adopted pursuant to this chapter.

SECTION 3. Section 3 of said chapter 21N, as so appearing, is hereby amended by striking out subsection (b) and inserting in place thereof the following subsection:-

(b) To maximize the ability of the commonwealth to realize the 2050 emissions limit, the secretary shall, in consultation with the department and the department of energy resources, adopt the following statewide greenhouse gas emissions limits: (i) a 2020 statewide greenhouse gas emissions limit; (ii) a 2025 statewide greenhouse gas emissions limit; (iii) a 2030 statewide greenhouse gas emissions limit; (iv) a 2035 statewide greenhouse gas emissions limit; (v) a 2040 statewide greenhouse gas emissions limit; (vi) a 2045 statewide greenhouse gas emissions limit; and (vii) a 2050 statewide greenhouse gas emissions limit of not more than net-zero emissions. Each limit shall be accompanied by a comprehensive, clear and specific plan to realize the adopted limit.

SECTION 4. Said chapter 21N is hereby amended by inserting after section 3 the following 2 sections:-

Section 3A. (a) The secretary shall, in consultation with the secretary of housing and economic development and the secretary of transportation, adopt sector-based statewide greenhouse gas emissions sublimits as components of each statewide greenhouse gas emissions limit adopted pursuant to subsection (b) of section 3. Each source or category of sources of

emissions shall be subject to statewide emissions sublimits, including, but not limited to, electric power, transportation, commercial and industrial heating and cooling, residential heating and cooling, industrial processes, solid waste, agriculture and natural gas distribution and service.

(b) Sector-based statewide greenhouse gas emissions sublimits for a given year shall not, in the aggregate, exceed the statewide greenhouse gas emissions limit for the year and shall be designed to allow the commonwealth to realize the 2050 statewide greenhouse gas emissions limit.

Section 3B. Not later than February 1 of every third year, the secretary shall, for each plan approved under section 21 of chapter 25, set a goal, expressed in tons of carbon dioxide equivalent, for the succeeding plan's necessary contribution to meeting each statewide greenhouse gas emissions limit and sublimit adopted pursuant to this chapter.

SECTION 5. Subsection (a) of section 4 of said chapter 21N, as so appearing, is hereby amended by inserting after the first sentence the following 2 sentences:- The 2030 statewide greenhouse gas emissions limit adopted pursuant to clause (iii) of said subsection (b) of said section 3 shall be not less than 50 per cent below the 1990 emissions level. The 2040 statewide greenhouse gas emissions limit adopted pursuant to clause (v) of said subsection (b) of said section 3 shall be not less than 75 per cent below the 1990 emissions level.

SECTION 6. Said subsection (a) of said section 4 of said chapter 21N, as so appearing, is hereby further amended by striking out the last sentence and inserting in place thereof the following sentence:- The 2020, 2025, 2030, 2035, 2040, 2045 and 2050 statewide greenhouse gas emissions limits and the accompanying plans for realizing the limits shall comply with the requirements of this section and section 5.

SECTION 7. Subsection (b) of said section 4 of said chapter 21N, as so appearing, is hereby amended by striking out, in line 17, the words "limit established in subsection (a)" and inserting in place thereof the following words:- limits adopted pursuant to subsection (b) of section 3.

SECTION 8. Subsection (g) of said section 4 of said chapter 21N, as so appearing, is hereby amended by striking out, in line 42, the words "emission limit and implementing plan" and inserting in place thereof the following words:- 2025, 2030, 2035, 2040, 2045 and 2050 statewide greenhouse gas emissions limits and the accompanying plans for realizing the limits.

SECTION 9. Said section 4 of said chapter 21N, as so appearing, is hereby further amended by striking out subsection (h) and inserting in place thereof the following section:-

(h) Not more than 18 months after the last day of 2020, 2025, 2030, 2035, 2040, 2045, 2050 and any other calendar year for which a statewide greenhouse gas emissions limit is adopted pursuant to statute or regulation, the secretary shall file a formal certificate of compliance with the climate policy commission established under chapter 21P, the clerks of the house of representatives and the senate, the house and senate committees on ways and means, the joint committee of telecommunications, utilities and energy and the joint committee on the environment, natural resources and agriculture. The certificate shall certify, drawing upon the best available data and measurements, the commonwealth's compliance with, or failure to comply with, the statewide greenhouse gas emissions limit. The certificate shall include a quantification of the extent to which emissions exceed or do not exceed the limit and an analysis of the lessons learned from the success or failure to comply with the limit. If emissions exceeded the limit, the certificate shall include comprehensive, clear and specific remedial steps to offset

the excess emissions and ensure compliance with the next upcoming limit adopted pursuant to statute or regulation.

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SECTION 10. Said chapter 21N is hereby further amended by striking out sections 5 to 7, inclusive, as so appearing, and inserting in place thereof the following 3 sections:-

Section 5. (a) The secretary shall monitor the implementation of plans and regulations relative to climate change. To the extent practicable, the plans required by subsection (b) of section 3 for 2025, 2030, 2035, 2040, and 2045 shall be consistent with each other, cumulative in effect and constructed to realize the 2050 statewide greenhouse gas emissions limit imposed by said subsection (b) of said section 3. Each plan, including the 2050 plan, shall: (i) address each sector subject to a statewide greenhouse gas emissions sublimit imposed by section 3A of this chapter; (ii) indicate for each sector how, to what extent and when the commonwealth will act to reduce its emissions in order to realize the 2050 statewide greenhouse gas emissions limit; (iii) quantify the emissions reductions to be realized due to the electric and gas energy efficiency programs established under sections 19 and 21 of chapter 25; (iv) set numerical benchmarks and track adoption within the commonwealth of emissions reduction products, solutions and improvements used to achieve the statewide greenhouse gas emissions limits and sublimits, including, but not be limited to, electric vehicles, electric vehicle charging stations, solar photovoltaic and solar thermal technologies, energy storage capacity and air-source and groundsource heat pumps; (v) consider whether activities undertaken to comply with statewide greenhouse gas emissions limits and sublimits disproportionately impact moderate-income and low-income communities and recommend actions that may be taken to eliminate any such impacts; (vi) consider overall societal benefits, including reductions of other air pollutants, diversification of energy sources and other benefits to the economy, environment and public

health; (vii) consider whether activities undertaken to comply with statewide greenhouse gas emissions limits and sublimits minimize costs and administrative burdens and maximize total benefits to the commonwealth; (viii) consider whether activities undertaken to comply with statewide greenhouse gas emissions limits and sublimits minimize leakage; (ix) ensure that greenhouse gas emissions reductions are real, permanent, quantifiable, verifiable and enforceable; and (x) make recommendations for future policy action.

Section 6. The secretary shall promulgate all regulations necessary to achieve the limits imposed by subsection (b) of section 3 and sublimits imposed by section 3A. The regulations shall be designed to ensure that the commonwealth achieves the required emissions reductions equitably and in a manner that protects and, where feasible, improves the condition of low-income and moderate-income persons while creating, where feasible, additional employment and economic development in the commonwealth.

Section 7. (a) The secretary shall promulgate regulations establishing market-based compliance mechanisms for: (i) the transportation sector; provided, however, that the regulations shall, at a minimum, be designed to reduce emissions from passenger vehicles and light duty trucks; (ii) the commercial, industrial and institutional sectors, including, but not limited to, buildings and industrial, manufacturing and other business processes; and (iii) the residential building sector.

(b) Market-based compliance mechanisms established pursuant to this section shall be designed to: (i) maximize the ability of the commonwealth to achieve the statewide greenhouse gas emissions limits established pursuant to this chapter; (ii) ensure that the commonwealth achieves the required emissions reductions equitably and in a manner that protects and, where

feasible, improves the condition of low-income and moderate-income persons; (iii) prevent increases in the emissions of toxic air contaminants and criteria air pollutants, including, but not limited to emissions of nitrous oxide, sulfur dioxide and mercury; (iv) identify manufacturing sectors, economic sectors, economic subsectors or individual employers at risk of adverse impacts due to such mechanisms and mitigate the impacts; and (v) maximize additional environmental and economic benefits for the commonwealth.

- (c) The executive office and the department may work with the participating regional greenhouse gas initiative states, other interested states and Canadian provinces to develop a plan to expand market-based compliance mechanisms such as the regional greenhouse gas initiative to other sources and sectors necessary or desirable to facilitate the achievement of the statewide greenhouse gas emissions limits.
- (d) The secretary may adopt regulations governing the use of market-based compliance mechanisms by regulated entities subject to the statewide greenhouse gas emissions limits and mandatory emissions reporting requirements to achieve compliance with such limits.
- (e) The executive office shall monitor compliance with this chapter and enforce any rule, regulation, order, emissions limit, emissions reduction measure or market-based compliance mechanism adopted by the secretary or department under this chapter. The department may impose a civil administrative penalty pursuant to section 16 of chapter 21A for a violation of any rule, regulation, order, emissions limitation, emissions reduction measure or other measure adopted by the secretary pursuant to this chapter.
- SECTION 11. The General Laws are hereby amended by inserting after chapter 210 the following chapter:--

Chapter 21Q.

Climate Policy Commission.

Section 1. As used in this chapter, the following terms shall have the following meanings unless the context clearly requires otherwise:

"Commission", the climate policy commission established pursuant to section 2.

"Greenhouse gas emissions", emission of a greenhouse gas as defined in section 1 of chapter 21N.

"State agency", a state agency as defined in section 1 of chapter 29.

Section 2. (a) There shall be established a state agency known as the climate policy commission. The commission shall be an independent public entity not subject to the supervision and control of any other executive office, department, commission, board, bureau, agency or political subdivision of the commonwealth.

(b) There shall be a board, with duties and powers established pursuant to this chapter, that shall govern the commission and that shall consist of: the secretary of energy and environmental affairs, who shall serve ex officio; 2 members appointed by the attorney general who shall have expertise in energy economics, public health, climate science or statistics, 1 of whom shall be selected from a list of not less than 3 individuals nominated by the energy efficiency advisory council under section 22 of chapter 25; and 6 members appointed by the governor, 4 of whom shall be selected from a list comprised of 1 individual nominated by each president or chancellor of an institution of higher education in the commonwealth classified by the Carnegie Classification System as a doctorate-granting university with very high research

activity, 1 of whom shall have expertise in energy economics, public health, climate science or statistics and 1 of whom shall be selected from a list of not less than 3 individuals nominated by the greenhouse gas emissions reduction measures advisory committee established under section 8 of chapter 21N. All persons appointed to the commission shall be selected without regard to political affiliation and solely on the basis of the qualifications and experience that the appointing authorities determine are necessary to fulfilling the mission of the commission.

A vacancy occurring on the commission shall be filled within 90 days by the original appointing authority. A person appointed to fill a vacancy shall serve initially only for the unexpired term. Members of the commission shall be eligible for reappointment. The commission shall annually elect 1 of its members to serve as chair and 1 member to serve as vice-chair.

Members shall serve without pay, but shall be reimbursed for actual expenses necessarily incurred in the performance of their duties. No appointed member shall hold full or part-time employment in the executive branch of state government. Each member of the commission shall be a resident of the commonwealth.

(c) Any action of the commission may take effect immediately and need not be published or posted unless otherwise provided by law. Meetings of the commission shall be subject to sections 18 to 25, inclusive, of chapter 30A; provided, however, that said sections 18 to 25, inclusive, of said chapter 30A shall not apply to any meeting of members of the commission serving ex officio in the exercise of their duties as officers of the commonwealth if no matters relating to the official business of the commission are discussed and decided at the meeting. The commission shall be subject to all other provisions of said chapter 30A and records pertaining to

the administration of the commission shall be subject to section 42 of chapter 30 and section 10 of chapter 66. All moneys of the commission shall be considered to be public funds for purposes of chapter 12A. Except as otherwise provided in this section, the operations of the commission shall be subject to chapter 268A and chapter 268B.

The commission shall not be required to obtain the approval of any officer or employee of any executive agency in connection with the collection or analysis of any information. The commission shall not be required to obtain the approval of any officer or employee of any executive agency with respect to the substance of any reports that the commission has prepared under this chapter before publication.

(d) The commission shall appoint an executive director by a majority vote. The executive director shall be selected without regard to political affiliation and solely on the basis of the qualifications and experience that the commission determines necessary to fulfill the mission of the commission. The executive director shall supervise the administrative affairs and general management and operations of the commission and also serve as secretary of the commission, ex officio. The executive director shall receive a salary commensurate with the duties of the office. The executive director may, with the approval of the commission, appoint other officers and employees of the commission necessary to the functioning of the commission.

The executive director shall not be required to obtain the approval of any other executive agency in connection with appointment of employees. Sections 9A, 45, 46 and 46C of chapter 30, chapter 31 and chapter 150E shall not apply to the executive director of the commission. Sections 45, 46 and 46C of chapter 30 shall not apply to any employee of the commission. The

executive director may establish personnel regulations for the officers and employees of the commission.

Annually, not later than the first Wednesday in February, the executive director shall file a personnel report with the senate and house committees on ways and means containing the job classifications, duties and salary of each officer and employee within the commission, together with personnel regulations applicable to the officers and employees. The executive director shall file amendments to the report with the senate and house committees on ways and means whenever any changes become effective.

If the position of executive director is vacant, a successor shall be appointed in the same manner as the original appointment for the unexpired term. The executive director shall serve for a term of 5 years. No person shall be appointed as the executive director for more than 2 consecutive 5-year terms.

The commission may remove the executive director from office, for cause, by a majority vote. The reasons for removal of the executive director shall be stated in writing and shall include the basis for such removal.

The executive director shall, with the approval of the commission: (i) plan, direct, coordinate and execute administrative functions in conformity with the policies and directives of the commission; (ii) employ professional and clerical staff as necessary; (iii) report to the commission on all operations under their control and supervision; (iv) prepare an annual budget and manage the administrative expenses of the commission; and (v) undertake any other activities necessary to implement the powers and duties under this chapter.

The commission may approve the use of funds from receipt of up to 2 per cent, not to exceed \$5,000,000, of any monies collected by the commonwealth from market-based compliance mechanisms used to address greenhouse gas emissions, including, but not limited to, the regional greenhouse gas initiative established under section 22 of chapter 21A, to support the annual budget of the commission, in addition to funds from any other source and any funds appropriated therefor by the general court. The commission shall not be required to obtain the approval of another executive agency in connection with the development and administration of its annual budget.

The commission shall adopt and amend rules and regulations for the administration of its duties and powers and to effectuate this chapter pursuant to chapter 30A.

Section 3. The commission shall be responsible for tracking and assessing public and private sector progress, or lack thereof, towards meeting any and all limits, sublimits, goals and milestones set by statute or regulation with respect to greenhouse gas emissions and reductions thereto and facilitating such progress.

The focus of the commission shall be comprehensive and economy-wide, including, but not limited to, the specific sectors of electric power, transportation, commercial and industrial heating and cooling, residential heating and cooling, industrial processes, solid waste, agriculture and natural gas transmission, distribution and service.

The commission shall:

(i) assess and comment and issue recommendations on the content, design, management and likely effectiveness of specific policies, programs and initiatives proposed or undertaken to reduce or avoid greenhouse gas emissions or substitute non-emitting energy sources;

(ii) assess and comment and issue recommendations on any roadmap, plan, policy,
program, initiative, regulation, law or certification issued, proposed, prepared, noticed,
undertaken or completed by the commonwealth or any of its political subdivisions with respect
to matters within the purview of the commission, including the implications for, and risks to,
underserved communities and communities with a high percentage of low-income households,
populations and regions of the commonwealth;

- (iii) monitor the adoption of the best available technology and the best standards and practices for reducing greenhouse gas emissions or substituting non-emitting energy sources;
 - (iv) conduct hearings and undertake inquiries;

- (v) make recommendations to state agencies with respect to changes in an agency's data collection practices or scope;
- (vi) review all certificates of compliance issued by the secretary of energy and environmental affairs under section 4 of chapter 21N or by the department of public utilities under section 21 of chapter 25;
- (vii) meet at least annually with the advisory council established under section 7; and (viii) gather, serve as a central repository for and disseminate data and analysis to the public and policymakers from any and all sources that the commission deems relevant to carrying out its charge.
- Section 4. (a) The commission shall hold not less than 3 public hearings in geographically diverse locations on each certification filed under section 4 of chapter 21N, not

less than 2 of which shall be held in underserved communities and communities with a high percentage of low-income households.

(b) Not later than 60 days after the department of public utilities issues a certificate of compliance under section 21 of chapter 25, the commission shall, hold a public hearing examining the degree to which the activities undertaken pursuant to each plan contributed to meeting statewide greenhouse gas emission limits imposed by statute or regulation.

For each public hearing, the commission may require witnesses and testimony from stakeholders, as deemed appropriate by the commission.

Section 5. The commission shall periodically report to the governor, the senate president, the speaker of the house of representatives, the senate and house committees on ways and means, the senate and house committees on global warming and climate change, the joint committee on telecommunications, utilities and energy and the joint committee on environment, natural resources and agriculture on the matters within its purview, including but not limited to, the commonwealth's progress towards meeting any and all limits, sublimits, goals and milestones set by statute or regulation with respect to greenhouse gas emissions and the reduction of greenhouse gas emissions; provided, however, that the commission shall report not less than twice a year. The reports shall be public and shall be posted on the commission's website.

Section 6. The commission shall have the authority to examine, retain and publish all documents and data produced, collected or kept by any state agency that the commission deems relevant to carrying out its charge; provided, however, that a document that a state agency deems not to be a public record under section 3 of chapter 66 shall remain not a public record under the control of the commission.

Section 7. There shall be an advisory council to the commission. The advisory council shall provide advice and input on the overall operation and policy of the commission. The council shall be appointed by the governor and comprised of members representing the following sectors: environmental protection, low-income and moderate-income population advocacy, electric power generation and distribution, transportation, consumer protection, housing, commercial development, industrial and manufacturing, transportation and local government.

SECTION 12. Section 9 of chapter 23J of the General Laws, as appearing in the 2018 Official Edition, is hereby amended by striking out, in line 33, the words "and (iii) by" and inserting in place thereof the following words:- (iii) funding research, design and evaluation of pilots to promote energy innovation; and (iv).

SECTION 13. Said section 9 of said chapter 23J, as so appearing, is hereby further amended by inserting after the word "facilities", in line 45, the following words:- and with the distribution and consumption of fossil fuels, including, but not limited to, oil and gases that contain methane and other hydrocarbon fuels.

SECTION 14. Chapter 25 of the General Laws is hereby amended by inserting after section 1 the following section:-

Section 1A. In discharging its responsibilities under this chapter and chapter 164, the department shall, with respect to itself and the entities it regulates, prioritize safety, security, reliability of service, affordability and reductions in greenhouse gas emissions to meet statewide greenhouse gas emission limits established pursuant to section 3 of chapter 21N.

SECTION 15. Section 19 of said chapter 25, as appearing in the 2018 Official Edition, is hereby amended by inserting after the word "practicable", in line 29, the following words:-;

provided, however, that when determining cost-effectiveness, the calculation of program benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 16. Said section 19 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "practicable", in line 41, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of program benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 17. Said section 19 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "program", in line 58, the following words:- "; provided, however, that when determining cost-effectiveness, the calculation of program and system benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 18. Section 21 of said chapter 25, as so appearing, is hereby amended by inserting after the word "supply", in line 5, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of system benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 19. Said section 21 of said chapter 25, as so appearing, is hereby further amended by inserting after the figure "22", in line 17, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of system benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 20. Said section 21 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "bodies", in line 21, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of system benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 21. Said section 21 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "supply", in line 25, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of system benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 22. Said section 21 of said chapter 25, as so appearing, is hereby further amended by striking out, in line 69, the words "and (ix)", and inserting in place thereof the following words:- (ix) an estimate of the social value of greenhouse gas emissions reductions that will result from the plan, including a numerical value of the plan's contribution to meeting each statewide greenhouse gas emissions limit and sublimit set by statute or regulation, together with provisions for giving each value prominent display in communications and plan documents; and (x).

SECTION 23. Said section 21 of said chapter 25, as so appearing, is hereby further amended by striking out, in line 73, the word "reducing", the second time it appears, and inserting in place thereof the following words:- greenhouse gas emissions or.

SECTION 24. Said section 21 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "program", in line 81, the first time it appears, the following words:-; provided, however, that when determining cost-effectiveness, the calculation of program benefits shall include calculations of the social value of greenhouse gas emissions reductions.

SECTION 25. Said section 21 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "accordingly", in line 113, the following words:- ";

provided, however, that when determining cost-effectiveness, the calculation of program benefits shall include calculations of the social value of greenhouse gas emissions reductions".

SECTION 26. Subsection (d) of said section 21 of said chapter 25, as so appearing, is hereby amended by adding the following 2 paragraphs:-

- (4) The plans shall be constructed to meet the goal set by the secretary pursuant to section 3B of chapter 21N.
- (5) Not later than 15 months after the conclusion of the final year of each plan, the department shall issue a formal certificate of compliance, drawing upon the most accurate and most complete data and measurements available, that certifies and quantifies the degree to which the activities undertaken pursuant to each plan contributed to meeting greenhouse gas emission limits imposed by statute or regulation.

SECTION 27. Section 22 of said chapter 25, as so appearing, is hereby amended by inserting after the word "date", in line 63, the following words:-, a quantification of the degree to which the activities undertaken pursuant to each plan contribute to meeting any and all greenhouse gas emission limits imposed by statute or regulation.

SECTION 28. Said section 22 of said chapter 25, as so appearing, is hereby further amended by inserting after the word "year", in line 69, the following words:- and a quantification of the degree to which the activities undertaken pursuant to each plan contribute to meeting any and all greenhouse gas emission limits imposed by statute or regulation.

SECTION 29. Section 6 of chapter 25A of the General Laws, as so appearing, is hereby amended by striking out clauses (12) and (13) and inserting in place thereof the following 3 clauses:-

- (12) intervene and advocate on behalf of small commercial and industrial users before the department of public utilities in any dispute between such businesses and generation or distribution companies, as defined pursuant to section 1 of chapter 164;
- (13) plan, develop, oversee and operate the commercial sustainable energy program, with the Massachusetts Development Finance Agency, in accordance with the provisions of chapter 23M. In accordance with this section, the department shall approve each commercial PACE project prior to the issuance of a PACE bond under chapter 23M and in so doing shall consider whether the energy cost savings of the commercial energy improvements over the useful life of such improvements exceed the costs of such improvements; and
- (14) develop and adopt, as an appendix to the state building code, in consultation with the board of building regulations and standards, a municipal opt-in specialized stretch energy code that includes, but is not limited to, a definition of net-zero building.
- SECTION 30. Subsection (c) of section 10 of said chapter 25A, as so appearing, is hereby amended by striking out, in line 38, the words "and (6)" and inserting in place thereof the following words:- (6) opt-in to the specialized stretch energy code promulgated pursuant to clause (14) of section 6; and (7).
- SECTION 31. Said chapter 25A is hereby further amended by inserting after section 17 the following section:-

Section 18. (a) For the purposes of this section, the following words shall have the following meanings unless the context clearly requires otherwise:-

"Energy", electricity, natural gas, steam, hot or chilled water, heating oil, propane or other product designated by the department used for heating, cooling, lighting, water heating or for powering or fueling other end uses.

"Energy use benchmarking tool", the ENERGY STAR Portfolio Manager, an online energy use benchmarking tool used by the United States Environmental Protection Agency for reporting and managing the energy performance, water efficiency and greenhouse gas emissions of building, or a tool capable of: (i) performing all the functions relevant to compliance with this section; (ii) allowing for reporting by third parties, including, but not limited to, gas distribution and electric distribution companies; and (iii) exchanging information and data with the ENERGY STAR Portfolio Manager.

"Gross floor area", the total number of square feet measured between the principal exterior surfaces of enclosing fixed walls.

"Non-residential building", a building or multiple buildings on a parcel of which not less than 50 per cent of the gross floor area, including hallways or other common space, but excluding parking, is used for commercial, retail, office, professional, educational or other non-residential purposes or any grouping of non-residential buildings designated by the department as an appropriate reporting unit for the purposes of this chapter; provided, however, that "non-residential building" shall not include a state-owned building.

"Owner,", the owner of record of a building, or a designated agent thereof, including, but not limited to, the association or organization of unit owners responsible for management in the case of a condominium, the board of directors in the case of a cooperative apartment corporation, and the net lessee in the case of a building subject to a net lease with a term of not less than 49 years, inclusive of all renewal options.

"Residential building", a building or multiple buildings on a parcel comprised of 35 or more individual dwelling units of which not less than 50 per cent of the gross floor area, including hallways and other common space serving residents, but excluding parking, is used for dwelling purposes or any grouping of residential buildings designated by the department or a municipality as an appropriate reporting unit for the purposes of this chapter; provided, however, that "residential building" shall not include a state-owned building.

"State-owned building", a building: (i) owned by the commonwealth or an agency or political subdivision thereof; or (ii) for which the commonwealth or an agency or political subdivision thereof regularly pays all annual energy bills.

"Tenant", any tenant, tenant-stockholder of a cooperative apartment corporation or condominium unit owner.

- (b) For any building identified in subsection (c), the department shall undertake energy use benchmarking to determine whether the building utilizes more or less energy, and emits more or less greenhouse gas, than buildings of comparable size, occupancies and uses. To conduct the benchmarking, the department shall create, procure or designate an energy use benchmarking tool and shall provide technical support and assistance on the use of the benchmarking tool to the owners of buildings subject to this section.
- (c)(1) Not later than May 1 of each year, the owner of each residential building, each non-residential building consisting of not less than 35,000 square feet of gross floor area and

each state-owned building consisting of not less than 35,000 square feet of gross floor area shall utilize the energy use benchmarking tool to accurately report to the department, or cause to be accurately reported to the department, the building's energy use for the previous calendar year and any other building characteristics determined by the department to be necessary to establish the absolute and relative energy use of the building. The owner of a building subject to this subsection may authorize a gas or electric distribution company or other third party to report building-specific data to the department, but such authorization shall not relieve an owner from compliance with this section. The department shall establish a deadline extension process for owners who, in the judgment of the department, demonstrate cause for a deadline extension. To administer this section, the department may establish building types, including, but not limited to, classifications by region, size and occupancy and use, including whether tenant-occupied units or spaces are separately metered, and may establish varying reporting requirements for each type.

(2) Annually, an owner of a building with separately-metered and tenant-occupied units or spaces shall request from each tenant of the building all information necessary to comply with the requirements of paragraph (1) and each tenant shall report the required information to the owner. Between January 1 and March 31, an owner shall, in a manner approved by the department, request information relative to a tenant's energy use in the previous calendar year. Upon receipt of an informational request pursuant to this subsection, a tenant of a building shall report to the owner the required information not later than May 31. If a separately-metered tenant has occupied all or a portion of a building subject to the reporting requirements of this section and has vacated the space before reporting energy use to the owner, the owner may immediately request such information for any period of occupancy relevant to the owner's obligation to report

and the tenant shall respond within 30 days. The department shall develop values or formulas that an owner may use to estimate whole-building energy use where the owner has made goodfaith efforts to obtain required energy use information from a current or former tenant and has been unsuccessful. Failure of a tenant to report energy use information shall not relieve an owner from complying with this section. Failure of an owner to report energy use information to the department shall not impose liability on a tenant.

- (3) The department shall allow a city or town to collect the energy use information required under paragraph (1) in lieu of collection by the department and to require owners of appropriate buildings within its borders to report the information to the city or town if the municipality: (i) notifies the department by October 31 that it will assume the reporting responsibilities required under this section; and (ii) utilizes an energy use benchmarking tool.

 Annually, not later than April 1, a city or town that collects energy use information under this paragraph shall collect and forward to the department, on a building-by-building basis, the required energy use information from the previous calendar year. The department may designate standardized units of measure and standardized formats to be utilized by a city or town in the reporting and collection of building energy use information. The department shall make reasonable efforts to streamline reporting requirements in a city or town that collects energy use information under this paragraph.
- (4) If an occupied building subject to the requirements of this section is transferred, the buyer shall make reasonable efforts to report energy use information for the building for the entire calendar year, if practicable.

(d) Annually, not later than October 1, the department shall make available on its website energy use information for the preceding calendar year for each building subject to this section. For each building, the information made available shall include, but not be limited to: (i) the municipality in which is the building is located; (ii) the building's energy intensity in kBTU per square foot and greenhouse gas emissions per square foot in pounds of carbon dioxide equivalent per square foot; (iii) the breakdown of the building's energy sources into electricity, gas, steam and other sources; and (iv) an energy performance rating or assessment score, where available, as determined by the energy use benchmarking tool. The department shall maintain a privacy and quality assurance process to improve the accuracy and completeness of the available information, including an opportunity for the owner to review and comment on the information. The department shall provide owners the opportunity to submit contextual information related to energy use in their buildings and shall disclose such information upon request by the owner.

- (e) The department shall prepare an annual comprehensive report on the energy performance of buildings utilizing the information and data collected pursuant to this section. The report shall be protective of privacy information and include, but not be limited to, an analysis of energy performance and greenhouse gas emissions by building size, occupancy, use, energy source, region and, when available, energy performance and greenhouse gas emissions over time. The report shall be posted on the department's website and filed with the house and senate committees on ways and means and the joint committee on telecommunication, utilities and energy not later than December 31.
- (f) On the basis of the comprehensive reports prepared by the department pursuant to subsection (e) and other information and data as deemed necessary by the secretary of energy and environmental affairs, the secretary shall conduct annual reviews of improvements or the

lack thereof in the energy performance of buildings specified in subsection (c). If the reviews indicate a lack of substantial improvement from year to year in the energy performance of a building subject to this section, the secretary may recommend energy actions, assessments, audits and performance standards to improve the energy performance of the building.

- (g) The department shall ensure that electric distribution companies and municipal aggregators provide to owners subject to this section up-to-date information regarding energy efficiency opportunities or actions available to increase energy efficiency, including incentives in utility-administered or other energy efficiency programs and changes in energy assessment technology. The department shall prioritize those buildings that have not displayed improvement year-to-year in reducing energy usage.
- (g) Nothing in this section shall preempt a city or town from maintaining an energy use benchmarking program.
- SECTION 32. Section 93 of chapter 143 of the General Laws, as appearing in the 2018 Official Edition, is hereby amended by striking out, in line 6, the word "eleven" and inserting in place thereof the following figure:- 15.
- SECTION 33. Said section 93 of said chapter 143, as so appearing, is hereby further amended by striking out, in line 8, the word "both" and inserting in place thereof the following words:- 1 of whom shall be the commissioner of energy resources or a designee and all 3.
- SECTION 34. Said section 93 of said chapter 143, as so appearing, is hereby further amended by striking out, in line 9, the word "nine" and inserting in place thereof the following figure:- 12.

SECTION 35. Said section 93 of said chapter 143, as so appearing, is hereby further amended by inserting after the word "department", in line 17, the following words:- ", 1 of whom shall be an expert in commercial building energy efficiency, 1 of whom shall be an expert in residential building energy efficiency, 1 of whom shall be an expert in advanced building technology".

SECTION 36. The second paragraph of said section 93 of said chapter 143, as so appearing, is hereby further amended by adding the following sentence:- The board shall keep detailed and accurate minutes of its meetings and shall publish such minutes within 30 days of each meeting.

SECTION 37. Said section 93 of said chapter 143, as so appearing, is hereby further amended by inserting after the word "designee", in line 46, the following words:- ", in consultation with the commissioner of energy resources,".

SECTION 38. Section 94 of said chapter 143, as so appearing, is hereby amended by striking out, in lines 110 to 113, inclusive, the words ", together with any more stringent energy-efficiency provisions that the board, in consultation with the department of energy resources, concludes are warranted".

SECTION 39. Section 96 of said chapter 143, as so appearing, is hereby amended by inserting, in line 7, after the word "to" the following words:-, the specialized stretch energy code developed and adopted by the department of energy resources.

SECTION 40. Section 97 of said chapter 143, as so appearing, is hereby amended by striking out, in line 22, the words "a reasonable time" and inserting in place thereof the following words:- 45 days.

SECTION 41. Section 94 of said chapter 164, as so appearing, is hereby amended by inserting after the word "charge", in line 54, the following words:- or the impact of said rate, price or charge on statewide greenhouse gas emissions and on the ability of the commonwealth to achieve greenhouse gas emission limits and sublimits imposed by statute or regulation.

SECTION 42. Said section 94 of said chapter 164, as so appearing, is hereby further amended by inserting after the word "contract", in line 71, the following words:-, or the emissions impacts of such contract,

SECTION 43. Section 94A of chapter 164, as so appearing, is hereby amended by inserting after the word "review", in line 17, the following words:-, taking into account the impact of the contract on statewide greenhouse gas emissions and on the ability of the commonwealth to achieve greenhouse gas emission limits and sublimits imposed by statute or regulation.

SECTION 44. Section 16 of chapter 298 of the acts of 2008 is hereby amended by striking out the words ", and shall expire on December 31, 2020".

SECTION 45. Section 11 of chapter 75 of the acts of 2016 is hereby amended by adding the following 2 subsections:-

(d) For any solar incentive program developed pursuant to this section, the department of energy resources shall set aside a portion of each capacity block to be allocated to solar tariff generation units that primarily serve low-income customers, including, but not limited to, low-income solar tariff generation units, low-income property solar tariff generation units and low-income community solar tariff generation units, as defined by the department, respectively.

(e) In implementing the set-aside required by subsection (d), the department of energy resources shall hold not less than 3 public hearings in communities with a high proportion of low-income customers, as defined by the department. The department shall develop and execute an outreach program to educate and inform low-income customers and residents of low-income and moderate-income housing about the benefits and savings associated with participation in the solar incentive programs established pursuant to this section.

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SECTION 46. The department of public utilities may, upon application of a gas company as defined in section 1 of chapter 164 of the General Laws, authorize 1 or more pilot projects for the development of utility-scale renewable thermal energy. Such application shall be filed with the department on or before Jan. 1, 2023. The department may, under a pilot, approve recovery of costs for projects situated in the commonwealth that demonstrate the costs and benefits of: (i) utility-scale renewable thermal energy sources, systems or technologies capable of substituting for fossil-based natural gas; or (ii) utility-scale renewable thermal energy replacements for, or alternative uses of, infrastructure constructed originally to generate, transmit or distribute fossilbased natural gas; provided, however, that such substitute renewable thermal energy sources, systems or technologies, and such replacements or alternative uses, have a reasonable likelihood of facilitating substantial reductions in greenhouse gas emissions. In determining whether to approve a pilot project, the department shall consider the reasonableness of the size, scope and scale of the pilot project and related budget and whether the benefits of the proposed pilot justify the proposed cost to both participating and non-participating customers; provided, however, that the calculation of benefits shall include calculations of the social value of greenhouse gas emissions reductions. The department may promulgate rules or regulations to implement this section.

SECTION 47. To develop the specialized stretch energy code required by section 6 of chapter 25A, the department of energy resources shall: (i) hold not less than 3 public hearings, 1 of which shall be held in an underserved community or community with a high percentage of low-income households; and (ii) consider the development of a tiered implementation plan for the adoption of the stretch energy code including, but not limited to, phasing in requirements based on building type or uses.

SECTION 48. The secretary of energy and environmental affairs shall set the first goal required by section 3B of chapter 21N of the General Laws not later than February 1, 2021.

SECTION 49. The 2025 and 2030 statewide greenhouse gas emission limits required by subsection (b) of section 3 of chapter 21N of the General Laws, the 2025 and 2030 sector-based emissions sublimits required by section 3A of said chapter 21N and the 2030 emissions reduction plan required by said section 3 to realize the 2025 and 2030 limit and sublimits shall be adopted and published not later than January 1, 2022.

SECTION 50. The 2035 statewide greenhouse gas emissions limit required by subsection (b) of section 3 of chapter 21N of the General Laws, the 2035 sector-based emissions sublimits required by section 3A of said chapter 21N and the emissions reduction plan required by said section 3 to realize the 2035 limit and sublimits shall be adopted and published not later than January 1, 2028.

SECTION 51. The 2040 statewide greenhouse gas emissions limit required by subsection (b) of section 3 of chapter 21N of the General Laws, the 2040 sector-based emissions sublimits required by section 3A of said chapter 21N and the emissions reduction plan required by said

section 3 to realize the 2040 limit and sublimits shall be adopted and published not later than January 1, 2033.

SECTION 52. The 2045 statewide greenhouse gas emissions limit required by subsection (b) of section 3 of chapter 21N of the General Laws, the 2045 sector-based emissions sublimit required by section 3A of said chapter 21N and the emissions reduction plan required by said section 3 to realize the 2045 limit and sublimits shall be adopted and published not later than January 1, 2038.

SECTION 53. The 2050 sector-based emissions sublimits required by section 3A of chapter 21N and the emissions reduction plan required by subsection (b) of section 3 of said chapter 21N to realize the 2050 limit and sublimits shall be adopted and published not later than January 1, 2023; provided, however, that the sublimits and plan shall be subject to revision and improvement by emissions reduction sublimits and plans adopted and published for 2030, 2035, 2040 and 2045.

SECTION 54. The regulations required pursuant to clause (i) of subsection (a) of section 7 of chapter 21N of the General Laws shall be promulgated and in effect not later than January 1, 2022.

SECTION 55. The regulations required pursuant to clause (ii) of subsection (a) of section 7 of chapter 21N of the General Laws shall be promulgated and in effect not later than January 1, 2025.

SECTION 56. The regulations required pursuant to clause (iii) of subsection (a) of section 7 of chapter 21N of the General Laws shall be promulgated and in effect not later than January 1, 2030.

SECTION 57. Not later than June 30, 2021, the department of energy resources shall: (i) create, procure or designate the energy use benchmarking tool required by subsection (b) of section 18 of chapter 25A of the General Laws; and (ii) commence providing technical assistance and support to owners of buildings covered by said subsection (b) of said section 18 of said chapter 25A.

SECTION 58. The first year of energy use reporting required by subsection (c) of section 18 of chapter 25A of the General Laws shall be for the calendar year beginning on January 1, 2022. In said reporting year, the department of energy resources may make available on its website limited energy use information, including, but not limited to, whether the information provided for a given building is accurate and complete.

SECTION 59. Notwithstanding section 2 of chapter 21Q of the General Laws, 3 members of the climate policy commission shall be initially appointed for terms of 1 year, 3 members shall be appointed for terms of 3 years and 3 members shall be appointed for terms of 5 years, with the length of each term to be determined by the elected chair.

SECTION 60. Section 30 shall take effect on January 1, 2028.

SECTION 61. Section 42 shall only apply to contracts entered into on or after the effective date of this act.