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# The Commonwealth of Massachusetts

## PRESENTED BY:

## Erika Uyterhoeven

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 investing in a prosperous, clean Commonwealth by 2030.

## PETITION OF:

NAME:	DISTRICT/ADDRESS:	DATE ADDED:
Erika Uyterhoeven	27th Middlesex	1/20/2023
David Henry Argosky LeBoeuf	17th Worcester	2/1/2023
James B. Eldridge	Middlesex and Worcester	2/22/2023

## HOUSE DOCKET, NO. 3697 FILED ON: 1/20/2023

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By Representative Uyterhoeven of Somerville, a petition (accompanied by bill, House, No. 3231) of Erika Uyterhoeven, David Henry Argosky LeBoeuf and James B. Eldridge relative to transitioning to 100 percent renewable electricity and net zero carbon emissions across all sectors of the Commonwealth by the year 2030. Telecommunications, Utilities and Energy.

## [SIMILAR MATTER FILED IN PREVIOUS SESSION SEE HOUSE, NO. 3372 OF 2021-2022.]

## The Commonwealth of Massachusetts

In the One Hundred and Ninety-Third General Court (2023-2024)

An Act investing in a prosperous, clean Commonwealth by 2030.

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. The commonwealth should lead the nation by transitioning to 100%
2	renewable electricity and net zero carbon emissions across all sectors by 2030. Climate scientists
3	estimate that we must halve global emissions by 2030 to stop catastrophic climate change;
4	therefore, an equitable and sustainable future necessitates that the commonwealth aggressively
5	transition energy use entirely away from fossil fuels to renewable energy generation. However,
6	climate change is intertwined with social inequities that will not be solved by simply
7	transitioning to renewable energy. To fully address the scope of the climate crisis, all of the
8	interdependencies of the crisis must be acknowledged and addressed, such that: (1) the laws and
9	energy policies of the commonwealth are aligned with the scientific consensus around the
10	climate crisis; (2) all have access to clean air, water, and land; (3) we center justice and equity

for environmental justice communities, frontline and fenceline communities - particularly poor,
Black and brown, and indigenous communities - and other populations that have been
disproportionately affected by the climate crisis; (4) the commonwealth increases energy security
and democratization by eliminating the use of fossil fuels and maximizing renewable energy
production in our region; and (5) there is a just transition for workers amidst this energy
transition by creating green, local, unionized jobs with wage and benefit parity and by
prioritizing workers affected by the transition for green job training programs.

18 SECTION 2. Section 1 of Chapter 21N of the General Laws, is hereby amended by
19 striking out the definition of "direct emissions" and inserting in place thereof the following
20 definition:-

"Direct emissions", emissions from sources that are owned or operated, in whole or in
part, by any person, entity or facility in the commonwealth including, but not limited to,
emissions from any transportation vehicle; building; structure; fugitive source; reduction in
carbon carrying capacity associated with land use; resource extraction or development;
distribution system; or residential, commercial, institutional, industrial, waste management,
agricultural, or manufacturing process.

SECTION 3. Said section 1 of said chapter 21N, as so appearing, is hereby further
 amended by inserting the following 4 definitions:-

29 "Negative emissions", removal of greenhouse gases from the atmosphere measured in 30 tons of carbon dioxide equivalent, reported in the greenhouse gas registry in accordance with 31 subsection a of section 2 of chapter 21N.

32 "Net statewide greenhouse gas emissions", statewide greenhouse gas emissions minus33 negative emissions.

34 "Land carbon carrying capacity", the capacity of land to sequester greenhouse gases
 35 measured in tons of carbon dioxide equivalent, including that embodied in organic matter
 36 contained in forests, wetlands or soils.

37 "Changes in land use resulting in a reduction in carbon carrying capacity", any process
38 which causes a reduction in land carbon carrying capacity including development, deforestation,
39 draining, landfill, or resource extraction.

SECTION 4: Section 2 of said chapter 21N, as so appearing, is hereby amended by
striking out subsection (a) and inserting in place thereof the following subsection:-

42 (a) The department shall monitor and regulate emissions of greenhouse gases with the 43 goal of reducing those emissions. The department shall adopt regulations to require the reporting 44 and verification of statewide greenhouse gas emissions and to monitor and enforce compliance 45 with this chapter. The regulations shall: (1) establish a greenhouse gas registry and reporting 46 system for greenhouse gas emission sources; provided, however, that in establishing the 47 greenhouse gas registry and reporting system, the department may collaborate with other states 48 or a regional consortium; (2) annually require the owner or operator of any facility that is 49 required to report air emissions data to the department pursuant to Title V of the federal Clean 50 Air Act and that has stationary emissions sources that emit greenhouse gases to report annually 51 to the regional registry direct stack emissions of greenhouse gases from such sources; (3) require 52 the owner or operator of a facility that has stationary emissions sources that emit greenhouse 53 gases in excess of 5,000 tons of greenhouse gases per year in carbon dioxide equivalents to

54 report annually to the registry direct emissions of greenhouse gases from such sources; provided, 55 however, that the department shall develop a simplified estimation form to assist facilities in 56 determining who shall report emissions and shall consider, on an annual basis, requiring the 57 expansion of reporting to the greenhouse gas registry; (4) require the owner or developer of a 58 property that has undergone a reduction in carbon carrying capacity in excess of 5,000 tons of 59 carbon dioxide equivalent in a given year to report to the registry direct emissions of greenhouse 60 gases from such sources; (5) provide for the voluntary reporting of emissions and negative 61 emissions of greenhouse gases to the greenhouse gas registry by entities and facilities that are not 62 required to submit information pursuant to clauses (2) and (3); provided, however, that the 63 greenhouse gas emissions reported shall be of a type and format that the greenhouse gas registry 64 can accommodate; (6) require reporting of greenhouse gas emissions from generation sources 65 producing all electricity consumed, including transmission and distribution line losses from 66 electricity generated within the commonwealth or imported from outside the commonwealth; 67 provided, however, that this requirement shall apply to all retail sellers of electricity, including 68 electric utilities, municipal electric departments and municipal light boards as defined in section 69 1 of chapter 164A; (7) require reporting of fugitive greenhouse gas emissions from distribution 70 of natural gas consumed for all residential, commercial and industrial purposes; provided, 71 however, that this requirement shall apply to all owners of infrastructure used for distribution of 72 natural gas including gas companies as defined in section 1 of chapter 164 of the General Laws; 73 (8) ensure rigorous and consistent accounting of emissions and provide reporting tools and 74 formats to ensure collection of necessary data; and (9) ensure that greenhouse gas emissions 75 sources maintain comprehensive records of all reported greenhouse gas emissions.

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SECTION 5: 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:-

78 (b) The secretary shall, in consultation with the department and the department of energy 79 resources, adopt the following statewide greenhouse gas emissions limits: (i) an interim 2025 80 statewide greenhouse gas emissions limit; (ii) an interim 2025 net statewide greenhouse gas 81 emissions limit; (iii) an interim 2030 statewide greenhouse gas emissions limit; (iv) an interim 82 2030 net statewide greenhouse gas emissions limit; (v) an interim 2035 statewide greenhouse gas 83 emissions limit; (vi) an interim 2035 net statewide greenhouse gas emissions limit; (vii) an 84 interim 2040 statewide greenhouse gas emissions limit; (viii) an interim 2040 net statewide 85 greenhouse gas emissions limit; (ix) an interim 2045 statewide greenhouse gas emissions limit; 86 (x) an interim 2045 net statewide greenhouse gas emissions limit; (xi) a 2050 statewide 87 greenhouse gas emissions limit; (xii) a 2050 net statewide greenhouse gas emissions limit that 88 achieves at least a net emissions reduction of 110 per cent below the 1990 level provided, 89 however, that in no event shall the level of net statewide greenhouse gas emissions after 2030 be 90 higher than zero and provided that in no event shall the level of statewide greenhouse gas 91 emissions after 2040 be higher than zero. Each limit shall be accompanied by publication of a 92 comprehensive, clear and specific roadmap plan to realize said limit.

93 SECTION 6: Subsection (a) of section 4 of said chapter 21N, as so appearing, is hereby
94 amended by inserting after the first sentence the following sentence:- The secretary shall further
95 adopt the 2040 net statewide greenhouse gas emissions limit pursuant to clause (8) of subsection
96 (b) of section 3, which shall be not less than 105 per cent below the 1990 emissions level and
97 shall plan to achieve that reduction pursuant to subsection (h) of section 4.

98 SECTION 7: Said section 4 of said chapter 21N, as so appearing, is hereby amended by
99 inserting after subsection (h) the following subsection:-

100	(i) The secretary shall produce a comprehensive set of criteria defining negative
101	emissions. Said criteria will be explicitly designed to (1) ensure that negative emissions represent
102	removal of atmospheric greenhouse gases during the year in which they are recorded, (2) avoid
103	double counting negative emissions in any way, (3) promote the growth of carbon negative
104	practices in the commonwealth. The criteria shall be updated by the secretary every year.
105	SECTION 8. Section 6 of chapter 21A of the General Laws, is hereby amended by
106	adding the following sentences:- Subject to appropriation, the secretary shall appoint an expert
107	aide with the duties of developing policies, plans or programs to: (1) monitor and regulate
108	emissions of greenhouse gases; (2) adopt the statewide greenhouse gas emissions limits; and (3)
109	produce a comprehensive set of criteria defining negative emissions. Subject to appropriation,
110	the secretary shall appoint an expert aide with the duties of developing policies, plans or
111	programs to assist municipalities reach the zero emissions targets.
112	SECTION 9. Notwithstanding any general or special law to the contrary, the secretary of
113	the executive office of energy and environmental affairs shall hire the expert aides set forth in
114	section 8 of this act within 60 days of the start of fiscal year 2024, subject to appropriation.
115	SECTION 10. Section 16 of chapter 298 of the acts of 2008 is hereby amended by
116	striking out, in lines 3 and 4, the words ", and shall expire on December 31, 2020".
117	SECTION 11. Section 11F 1/2 of chapter 25A of the General Laws, is hereby amended
118	by striking out, in subsection (a), the words "(4) an additional 2 per cent of sales each year
119	thereafter until December 31, 2029; and (5) an additional 1 per cent of sales every year

thereafter" and inserting in place thereof the following words:- (4) 33 per cent of total sales by
December 31, 2022; (5) 40 per cent of total sales by December 31, 2023; (6) 48 per cent of total
sales by December 31, 2024; (7) 55 per cent of total sales by December 31, 2025; (8) 65 per cent
of total sales by December 31, 2026; (9) 75 per cent of total sales by December 31, 2027; (10) 87
per cent of total sales by December 31, 2028; and (11) 100 per cent of total sales by December
31, 2029."

SECTION 12. Section 11F of chapter 25A of the General Laws, is hereby amended bystriking out subsection (b) and inserting in place thereof the following subsection:-

128 (b) For the purposes of this subsection, a renewable energy generating source is one 129 which generates electricity using any of the following: (1) solar photovoltaic or solar thermal 130 electric energy; (2) wind energy; (3) ocean thermal, wave or tidal energy; (4) fuel cells utilizing 131 renewable fuels; (5) landfill gas; (6) naturally flowing water and hydroelectric; or (7) geothermal 132 energy. The following technologies and fuels shall not be considered renewable energy sources: 133 (A) coal; (B) petroleum coke; (C) oil; (D) natural gas; (E) construction and demolition debris 134 including, but not limited to, chemically-treated wood; (F) nuclear power; (G) biomass power 135 and (H) hydropower facilities that have nameplate capacity of more than 30MW. A renewable 136 energy generating source may be located behind the customer meter within the ISO-NE, as 137 defined in section 1 of chapter 164, control area if the output is verified by an independent 138 verification system participating in the New England Power Pool Generation Information 139 System, in this section called NEPOOL GIS, accounting system and approved by the department. 140 SECTION 13. Said section 11F, as so appearing, is hereby amended by striking out 141 subsection (c) and inserting in place thereof the following subsection:-

142 (c) New renewable energy generating sources meeting the requirements of this subsection 143 shall be known as Class I renewable energy generating sources. For the purposes of this 144 subsection, a Class I renewable energy generating source is one that began commercial operation 145 after December 31, 1997, or represents the net increase from incremental new generating 146 capacity after December 31, 1997 at an existing facility, where the facility generates electricity 147 using any of the following: (1) solar photovoltaic or solar thermal electric energy; (2) wind 148 energy; (3) ocean thermal, wave or tidal energy; (4) fuel cells utilizing renewable fuels; (5) 149 landfill gas; (6) energy generated by new hydroelectric facilities, or incremental new energy 150 from increased capacity or efficiency improvements at existing hydroelectric facilities; provided, 151 however, that (i) each such new facility or increased capacity or efficiency at each such existing 152 facility must meet appropriate and site-specific standards that address adequate and healthy river 153 flows, water quality standards, fish passage and protection measures and mitigation and 154 enhancement opportunities in the impacted watershed as determined by the department in 155 consultation with relevant state and federal agencies having oversight and jurisdiction over 156 hydropower facilities; (ii) only energy from new facilities having a capacity up to 30 megawatts 157 or attributable to improvements that incrementally increase capacity or efficiency by up to 30 158 megawatts at an existing hydroelectric facility shall qualify; and (iii) no such facility shall 159 involve pumped storage of water or construction of any new dam or water diversion structure 160 constructed later than January 1, 1998; (7) marine or hydrokinetic energy as defined in section 3; 161 or (8) geothermal energy. The following technologies and fuels shall not be considered 162 renewable energy sources: (A) coal; (B) petroleum coke; (C) oil; (D) natural gas; (E) 163 construction and demolition debris including, but not limited to, chemically-treated wood; (F) 164 nuclear power; (G) biomass power and (H) hydropower facilities that have nameplate capacity of more than 30MWA. Class I renewable generating sources may be located behind the customer
 meter within the ISO–NE control area if the output is verified by an independent verification

167 system participating in the NEPOOL GIS accounting system and approved by the department.

SECTION 14. Said section 11F, as so appearing, is hereby amended by striking out
subsection (d) and inserting in place thereof the following subsection:-

170 (d) Every retail electric supplier providing service under contracts executed or extended 171 on or after January 1, 2009, shall provide a minimum percentage of kilowatt-hour sales to end-172 use customers in the commonwealth from Class II renewable energy generating sources. For the 173 purposes of this section, a Class II renewable energy generating source is one that began 174 commercial operation before December 31, 1997 and generates electricity using any of the 175 following: (1) solar photovoltaic or solar thermal electric energy; (2) wind energy; (3) ocean 176 thermal, wave or tidal energy; (4) fuel cells utilizing renewable fuels; (5) landfill gas; (6) energy 177 generated by existing hydroelectric facilities, provided that such existing facility shall meet 178 appropriate and site-specific standards that address adequate and healthy river flows, water 179 quality standards, fish passage and protection measures and mitigation and enhancement 180 opportunities in the impacted watershed as determined by the department in consultation with 181 relevant state and federal agencies having oversight and jurisdiction over hydropower facilities; 182 and provided further, that only energy from existing facilities up to 7.5 megawatts shall be 183 considered renewable energy and no such facility shall involve pumped storage of water nor 184 construction of any new dam or water diversion structure constructed later than January 1, 1998; 185 (7) marine or hydrokinetic energy as defined in section 3; or (8) geothermal energy. The 186 following technologies and fuels shall not be considered renewable energy sources: (A) coal; (B) 187 petroleum coke; (C) oil; (D) natural gas; (E) construction and demolition debris including, but

not limited to, chemically-treated wood; (F) nuclear power; (G) biomass power and (H)
hydropower facilities that have nameplate capacity of more than 30MW. A Class II renewable
generating source may be located behind the customer meter within the ISO–NE control area
provided that the output is verified by an independent verification system participating in the
NEPOOL GIS accounting system and approved by the department.

SECTION 15. Section 11F 1/2 of chapter 25A of the General Laws, is hereby amended
by striking out subsection (a) and inserting in place thereof the following subsection:-

195 (a) The department shall establish an alternative energy portfolio standard for all retail 196 electricity suppliers selling electricity to end-use customers in the commonwealth. Every retail 197 electric supplier providing service under contracts executed or extended on or after January 1, 198 2009 shall provide a minimum percentage of kilowatt-hour sales, as determined by the 199 department, to end-use customers in the commonwealth from alternative energy generating 200 sources and the department shall annually thereafter determine the minimum percentage of 201 kilowatt-hour sales to end-use customers in the commonwealth which shall be derived from 202 alternative energy generating sources. For the purposes of this section, "alternative energy 203 generating source" shall mean a source which generates energy using any of the following: (i) 204 flywheel energy storage; (ii) energy efficient steam technology; or (iii) fuel cells. The following 205 technologies and fuels shall not be considered alternative energy supplies: (A) coal; (B) 206 petroleum coke; (C) oil; (D) natural gas; (E) construction and demolition debris including, but 207 not limited to, chemically-treated wood and (F) nuclear power.

SECTION 16. Said section 11F 1/2, as so appearing, is hereby amended by striking out in
 subsection (b) the following text:-

210 (b) The department, in consultation with the department of environmental protection, 211 shall set: (i) emission performance standards that are protective of public health, including 212 standards for eligible biomass, biogas and liquid biofuel technologies that limit eligibility only to 213 best-in-class commercially-feasible technologies, inclusive of energy conversion and emissions 214 controls, with regard to reducing emissions of particulate matter sized 2.5 microns or less and 215 carbon monoxide and other air pollutants; (ii) for eligible biomass, biogas and liquid biofuel 216 technologies, a requirement of 50 per cent reduction in life-cycle greenhouse gas emissions 217 compared to a high efficiency unit utilizing the fuel that is being displaced or, for a new load, a 218 high-efficiency natural gas unit, if natural gas is available at reasonable cost to the site or 219 otherwise the fuel that is most likely to be utilized; (iii) for eligible biomass, biogas and liquid 220 biofuel technologies, requirements for thermal storage or other means to minimize any 221 significant deterioration of efficiency or emissions due to boiler cycling, if feasible; (iv) for 222 eligible biomass, biogas and liquid biofuel technologies, fuel conversion efficiency performance 223 standards achievable by best-in-class commercially-feasible technologies; and (v) in consultation 224 with the department of conservation and recreation, for forest-derived biomass, requirements that 225 fuel shall be provided by means of sustainable forestry practices; provided, however, that the 226 department shall adopt any existing or new biomass fuel sustainability standards if deemed 227 appropriate by the department after a public comment process.

- SECTION 17. Said section 11F 1/2, as so appearing, is hereby amended by striking out
   subsections (c) and (d) and inserting in place thereof the following subsections:-
- (b) The department shall adopt regulations allowing for a retail supplier to discharge its
  obligations under this section by making an alternative compliance payment in an amount
  established by the department. Such regulations shall outline procedures by which each retail

supplier shall annually submit for the department's review a filing illustrating the retail supplier'scompliance with the requirements of this section.

(c) A municipal lighting plant shall be exempt from the obligations under this section so
long as and insofar as it is exempt from the requirements to allow competitive choice of
generation supply under section 47A of chapter 164.

SECTION 18. Said section 11F 1/2, as so appearing, is hereby amended by striking out
 subsection (e) and inserting in place thereof the following subsection:-

(d) The department may provide that for fuel cells and certain nonemitting renewable
thermal technologies, an alternative energy credit shall be earned for less than 3,412,000 British
thermal units of net useful thermal energy so as to stimulate the development of new on-site
energy generating sources.

SECTION 19. Notwithstanding any general or special law to the contrary, the department of energy resources shall require distribution companies, as defined in section 1 of chapter 164 of the General Laws, to jointly and competitively conduct additional offshore wind generation solicitations and procurements of up to approximately 6,000 megawatts of aggregate nameplate capacity, in addition to the solicitations and procurements required by section 83C of chapter 169 of the acts of 2008, as amended by chapter 188 of the acts of 2016, and may require said additional solicitations and procurements by December 31, 2029.

251 SECTION 20. Subsection (b) of section 83C of chapter 169 of the acts of 2008, inserted 252 by chapter 188 of the acts of 2016 and amended by section 21 of chapter 27 of the acts of 2018 253 shall be hereby amended by striking out the following words:- "; provided, however, that the 254 department of public utilities shall not approve a long-term contract that results from a subsequent solicitation and procurement period if the levelized price per megawatt hour, plus associated transmission costs, is greater than or equal to the levelized price per megawatt hour plus transmission costs that result from the previous procurement."

SECTION 21. Said subsection (b) in section 83C is hereby further amended by striking out the following words:- "(3) provide for an annual remuneration for the contracting distribution company up to 2.75 cent of the annual payments under the contract to compensate the company for accepting the financial obligation of the long-term contract, such provision to be acted upon by the department of public utilities at the time of contract approval;"

263 SECTION 22. In responding to any solicitations issued by distribution companies for the 264 procurement of offshore wind generation, proposals for long-term contracts shall include an 265 environmental and fisheries mitigation plan for the construction and operation of such offshore 266 wind facilities, provided such plan shall include, but not be limited to, an explicit description of 267 the best management practices and any on- or off-site mitigation the bidder will employ, 268 informed by the latest science at the time the proposal is made, that will avoid, minimize and 269 mitigate any impacts to: wildlife, including but not limited to threatened or endangered species 270 such as North Atlantic right whales; coastal and marine habitats; natural resources; ecosystems; 271 and traditional or existing water-dependent uses, including, but not limited to, commercial and 272 recreational fishing. The plan should also include pre- and post-construction monitoring to 273 understand the effects of facilities on marine and avian species.

The department of energy resources shall establish an environmental working group and a fisheries working group comprised of key experts and stakeholders to provide input on best practices for avoiding, minimizing and mitigating any impacts to: wildlife, including but not 277 limited to threatened or endangered species such as North Atlantic right whales; coastal and 278 marine habitats; natural resources; ecosystems; and traditional or existing water-dependent uses, 279 including, but not limited to, commercial and recreational fishing, during the construction and 280 operation of facilities eligible pursuant to this section. The working groups shall conduct ongoing 281 review of implemented monitoring and mitigation programs and provide feedback and 282 recommendations on an as-needed basis, to be considered by the department. Pre-construction 283 engagement of these working groups will correspond with project development, solicitation, and 284 permitting, and the federal consistency process.

Proposals must include a commitment to, if selected and approved, provide financial and technical assistance to support robust monitoring of wildlife and habitat through a minimum \$10,000 per megawatt contribution to regional research on the impacts of offshore wind on wildlife and habitat to inform strategies to avoid and mitigate any impacts to the marine environment. The department of energy resources, in consultation with the environmental and fisheries working groups, shall determine how the funds will be used to advance the responsible development of the offshore wind energy industry, not necessarily the proposed project.

SECTION 23. Notwithstanding any general or special law to the contrary, the department of energy resources shall require offshore wind bids to allocate at least 1% of the cost of the project to a general fund in support of Massachusetts-based offshore wind power research and workforce development provided further, that this fund shall be administered by the Massachusetts Clean Energy Center, provided further, that a portion of this fund shall be used to cover reasonable administrative costs of MassCEC. SECTION 24. Notwithstanding any general or special law to the contrary, the department of energy resources shall require retail suppliers, as defined in section 1 of chapter 164 of the General Laws, to jointly and competitively conduct additional solar photovoltaic electric energy generation solicitations and procurements of up to approximately 6,000 megawatts of aggregate nameplate capacity, in addition to the solicitations and procurements required by section 4 of chapter 75 of the acts of 2016, and may require said additional solicitations and procurements by December 31, 2029.

305 SECTION 25. In responding to any solicitations from retail suppliers for the procurement 306 of solar generation, proposals for long-term contracts shall include an environmental mitigation 307 plan for the construction and operation of such solar facilities, provided such plan shall include, 308 but not be limited to, an explicit description of the best management practices and any on- or off-309 site mitigation the bidder will employ, informed by the latest science at the time the proposal is 310 made, that will avoid, minimize and mitigate any impacts to: wildlife, including but not limited 311 to threatened or endangered species; wetlands, including but not limited to impacts on water 312 quality and vegetation diversity; forests, including impacts from deforestation and removal of 313 trees; natural resources; and ecosystems. The plan should also include pre- and post-construction 314 monitoring to understand the effects of facilities on wetlands, forests, and land on which solar 315 facilities are installed.

The department of energy resources shall establish an environmental working group comprised of key experts and stakeholders to provide input on best practices for avoiding, minimizing and mitigating any impacts to: wildlife, including but not limited to threatened or endangered species; wetlands, including but not limited to impacts on water quality and vegetation diversity; forests, including impacts from deforestation and removal of trees; natural

321 resources; and ecosystems. The working groups shall conduct ongoing review of implemented 322 monitoring and mitigation programs and provide feedback and recommendations on an as-323 needed basis, to be considered by the department. Pre-construction engagement of these working 324 groups will correspond with project development, solicitation, and permitting, and the federal 325 consistency process.

Proposals must include a commitment to, if selected and approved, provide financial and technical assistance to support robust monitoring of wildlife, ecosystems and habitat through a minimum \$10,000 per megawatt contribution to regional research on the impacts of solar on wildlife and habitat to inform strategies to avoid and mitigate any impacts to the environment. The department of energy resources, in consultation with the environmental working groups, shall determine how the funds will be used to advance the responsible development of the solar energy industry, not necessarily the proposed project.

333 SECTION 26. Section 139 of chapter 164 of the General Laws, is hereby amended by
334 inserting after the word "entity", in line 96, the following words:- "or publicly-assisted housing
335 or its residents."

336 SECTION 27. Said section 138 of said chapter 164, as so appearing, is hereby further 337 amended by striking out the words:- "or (2) of which the municipality or other governmental 338 entity is assigned 100 per cent of the output." and inserting in place thereof the following words:-339 "or (2) of which the municipality, other governmental entity, low income or environmental 340 justice households or publicly-assisted housing or its residents are assigned 100 per cent of the 341 output or net metering credits."

342	SECTION 28. Said section 138 of said chapter 164, as so appearing, is hereby further
343	amended by inserting after the definition of "Net metering facility of a municipality or other
344	governmental entity" the following definition:-
345	"Publicly-assisted housing", as defined in section 1 of chapter 40T.
346	SECTION 29. Section 139 of chapter 164 of the General Laws, is hereby amended by
347	striking out, in lines 62 and 63, the words "and that are located in the same ISO-NE load zone
348	to" and inserting in place thereof the following words:-, "regardless of which ISO-NE load zone
349	the customers are located in, to."
350	SECTION 30. Said section 139, as so appearing, is hereby further amended by inserting
351	after the word "charges", in line 85, the second time it appears, the following words:- ",
352	including demand charges as part of a monthly minimum reliability contribution except as
353	authorized under subsection (j)."
354	SECTION 31. Said section 139 of said chapter 164, as so appearing, is hereby amended
355	by striking out subsection (f) of said section 139 and inserting in place thereof the following
356	subsection:-
357	(f) No aggregate net metering cap shall apply to a solar net metering facility.
358	SECTION 32. Section 138 of chapter 164, as appearing in the 2020 Official Edition, is
359	hereby amended by inserting after the definition of "customer" the following definitions:-
360	"Low-income", includes low-income households as defined under section 1 of chapter
361	40T.

362 "Environmental justice", the right to be protected from environmental pollution and to
363 live in and enjoy a clean and healthful environment regardless of race, income, class, tribal
364 affiliation, gender identity, sexual orientation, national origin, ethnicity or ancestry, religious
365 belief, or English language proficiency. Environmental justice shall include the equal protection
366 and meaningful involvement of all people with respect to the development, implementation, and
367 2 of 5 enforcement of environmental laws, regulations, and policies and the equitable distribution
368 of energy and environmental benefits and environmental burdens.

369 "Environmental Justice Population", a neighborhood that meets 1 or more of the 370 following criteria: (i) the annual median household income is not more than 65 per cent of the 371 statewide annual median household income; (ii) minorities comprise 40 per cent or more of the 372 population; (iii) 25 per cent or more of households lack English language proficiency; or (iv) 373 minorities comprise 25 per cent or more of the population and the annual median household 374 income of the municipality in which the neighborhood is located does not exceed 150 per cent of 375 the statewide annual median household income; provided, however, that for a neighborhood that 376 does not meet said criteria, but a geographic portion of that neighborhood meets at least 1 377 criterion, the secretary may designate that geographic portion as an environmental justice 378 population upon the petition of at least 10 residents of the geographic portion of that 379 neighborhood meeting any such criteria; provided further, that the secretary may determine that a 380 neighborhood, including any geographic portion thereof, shall not be designated an 381 environmental justice population upon finding that: (A) the annual median household income of 382 that neighborhood is greater than 125 per cent of the statewide median household income; (B) 383 majority of persons age 25 and older in that neighborhood have a college education; (C) the 384 neighborhood does not bear an unfair burden of environmental pollution; and (D) the

neighborhood has more than limited access to natural resources, including open spaces and water
 resources, playgrounds and other constructed outdoor recreational facilities and venues.

387 "Environmental Justice Household", includes households within Environmental Justice388 Populations.

389 "Low income solar net metering facility", a solar net metering facility that allocates all of 390 its output and net metering credits to (1) the providers or residents of publicly-assisted housing 391 under section 1 of chapter 40T or (2) low income and environmental justice households; or (3) 392 entities primarily serving such persons. The department of energy resources may establish an 393 alternate minimum threshold or thresholds for allocation of output and net metering credits to 394 determine project eligibility if the department determines a lower threshold is necessary in order 395 to facilitate economic viability of low-income solar net metering facilities or to deliver 24 396 meaningful economic benefit to recipients.

397 "Community shared solar net metering facility", a solar net metering facility with three or 398 more eligible recipients of credits, provided that (1) no more than 50 per cent of the net metering 399 credits produced by the facility are allocated to any one recipient, (2) no more than three 400 recipients may receive net metering credits in excess of those produced annually by 25 kW of 401 nameplate AC capacity and the combined share of said participants' capacity shall not exceed 50 402 per cent of the total capacity of the Generation Unit, unless otherwise allowed by the department 403 of energy resources, and (3) the recipients have an interest in the production of the facility or the 404 entity that owns the facility, in the form of formal ownership, a lease agreement, or a net 405 metering allocation agreement.

406 SECTION 33. Said section 138 of said chapter 164, as so appearing, is hereby further 407 amended in the definition of "market net metering credit" by striking out the following words:-408 "that credits shall only be allocated to an account of a municipality or government entity." and 409 inserting in place thereof the following words:- "that credits shall only be allocated to an account 410 of a municipality or government entity or low-income and environmental justice households."

411 SECTION 34. Section 139 of said chapter 164, as so appearing, is hereby further
412 amended by adding the following subsections:-

413 (1) Notwithstanding any provision of special or general law to the contrary, a low income 414 solar net metering facility shall receive credits equal to the excess kilowatt-hours by time of use 415 billing period, if applicable, multiplied by the sum of the distribution company's: (i) default 416 service kilowatt-hour charge in the ISO-NE load zone where the customer is located; (ii) 417 distribution kilowatt-hour charge; (iii) transmission kilowatt-hour charge; and (iv) transition 52 418 kilowatt-hour charge; provided, however, that this shall not include the demand side 4 of 5 419 management and renewable energy kilowatt-hour charges set forth in sections 19 and 20 of 420 chapter 25.

(m) Notwithstanding any provision of special or general law to the contrary, a community shared solar net metering facility that allocates at least 50 per cent of its credits to low income and environmental justice households or the providers or residents of publicly-assisted housing under section 1 of chapter 40T or (3) entities primarily serving such persons shall receive credits equal to the excess kilowatt-hours by time of use billing period, if applicable, multiplied by the sum of the distribution company's: (i) default service kilowatt-hour charge in the ISO-NE load zone where the customer is located; (ii) distribution kilowatt-hour charge; (iii) transmission kilowatt-hour charge; and (iv) transition kilowatt-hour charge; provided, however, that this shall
not include the demand side management and renewable energy kilowatt-hour charges set forth
in sections 19 and 20 of chapter 25.

431 SECTION 35. Said section 139 of said chapter 164, as so appearing, is hereby amended 432 by striking out in subsection (f) the following words:- "The aggregate net metering capacity of 433 facilities that are not net metering facilities of a municipality or other governmental entity shall 434 not exceed 7 per cent of the distribution company's peak load. The aggregate net metering 435 capacity of net metering facilities of a municipality or other governmental entity shall not exceed 436 8 per cent of the distribution company's peak load."

437 SECTION 36. Chapter 25A of the General Laws is hereby amended by inserting after
438 section 11I the following section:-

439 Section 11J. For any solar incentive program created by the department of energy 440 resources, under general law, session law, or other authority, the program shall designate 50 per 441 cent of the incentive to equitably share the economic and environmental benefits of the program 442 in communities facing barriers to access. This shall include low-income solar net metering 443 facilities, as defined in section 138 of chapter 164, as well as rental housing or residents thereof. 444 The department may, at its discretion, dedicate part of the incentive to resolve other barriers to 445 equitable access to solar energy if such barriers are identified. The department shall also specify 446 in program design its plans to reach communities whose primary language is not English.

# 447 SECTION 37. Chapter 25A of the General Laws is hereby amended by inserting after 448 section 11F1/2 the following section:-

449 Section 11F 3/4. (a) Each municipal lighting plant shall establish a greenhouse gas
450 emissions standard, which shall be known as the "Municipal Lighting Plant GGES."

(b) A Municipal Lighting Plant GGES shall set the minimum percentage of renewable
energy sold by each municipal lighting plant to all retail end-user customers purchasing
electricity pursuant to rates established pursuant to section 58 of chapter 164 as follows: 100 per
cent energy sales from renewable sources achieving net-zero greenhouse gas emissions by 2030.

455 (c) For the purpose of this section, "renewable sources" shall mean: energy from facilities 456 using the following generation technologies, but only to the extent that any renewable energy 457 credits, emission free energy certificates or other evidentiary non-carbon emitting documentation 458 associated therewith have not been sold, retired, claimed or otherwise represented by another 459 party as part of electrical energy output or sales or used to satisfy obligations in jurisdictions 460 other than the commonwealth: (1) solar photovoltaic; (2) solar thermal electric; (3) hydroelectric, 461 including imports into the New England wholesale electric market as administered by ISO New 462 England Inc.; (4) marine or hydrokinetic energy; (5) geothermal energy; (6) wind energy; and (7) 463 any other generation qualifying for renewable portfolio standards pursuant to section 11F.

(d) A municipal lighting plant shall file an annual report with the department, using a form specified by the department, demonstrating compliance with this section. If a municipal lighting plant fails to comply with the requirements of this section, it shall make a one-time alternative compliance payment, to be known as the "Municipal Lighting Plant ACP" for the year of non-compliance, and on the anniversary of each year that said non-compliance continues thereafter, in the amount 0.25 times the Renewable Portfolio Standard ACP set forth in the department's regulations at 225 C.M.R. 14.00 et seq. per kilowatt hour based on the amount of 471 such deficiency, escalated annually by the Consumer Price Index. Such Municipal Lighting Plant 472 ACP shall be deposited into a fund that shall be maintained and administered by the municipal 473 light plant and such fund shall be used by the municipal light plant to fund greenhouse gas 474 emissions reduction and related programs in its service territory. 475 SECTION 38. Chapter 90 of the General Laws is hereby amended by inserting after 476 section 7CC the following section:-477 Section 7DD (a) For the purposes of this section the following words shall have the 478 following meanings:-479 "Consumer", a buyer, other than for purposes of resale, of a motor vehicle, any person to 480 whom such motor vehicle is transferred during the period of any express or statutory warranty 481 under this section applicable to such motor vehicle, and any other person entitled by the terms of 482 such warranty to enforce its obligations. 483 "Dealer", any person engaged in the business of selling, offering for sale, or negotiating 484 the retail sale of used motor vehicles or selling motor vehicles as broker or agent for another, 485 including the officers, agents and employees of such person and any combination or association 486 of dealers, but not including a bank or other financial institution, or the commonwealth, its 487 agencies, bureaus, boards, commissions, authorities, nor any of its political subdivisions. A 488 person shall be deemed to be engaged in the business of selling used motor vehicles if such 489 person has sold more than three used motor vehicles in the preceding twelve months. 490 "Motor vehicle" or "vehicle", any motor vehicle as defined in section one, sold or 491 replaced by a dealer or manufacturer, except that it shall not include auto homes, vehicles built

492 primarily for off-road use or any vehicle used primarily for business purposes.

"Used motor vehicle" or "used vehicle", any vehicle driven more than the limited use
necessary in moving or road testing a new vehicle prior to delivery to a consumer, including a
demonstrator vehicle, except that it shall not include auto homes, vehicles built primarily for off
road use, motorcycles, or any vehicle used primarily for business purposes.

497 "New motor vehicle" or "new vehicle", any vehicle not satisfying the definition of used498 motor vehicle.

499 "Plug-in vehicle", a battery electric vehicle that draws propulsion energy solely from an 500 on-board electrical energy storage device during operation that is charged from an external 501 source of electricity or a plug-in hybrid electric vehicle with an on-board electrical energy 502 storage device that can be recharged from an external source of electricity which also has the 503 capability to run on another fuel.

504 "Zero-emission vehicle", a motor vehicle that produces no engine exhaust emissions.

505 (b) Beginning on January 1st 2027, no new motor vehicle shall be sold in the 506 commonwealth by a dealer to a consumer unless the vehicle is a plug-in vehicle.

507 (c) Beginning on January 1st 2030, no new motor vehicle shall be sold in the

508 commonwealth by a dealer to a consumer unless the vehicle is a zero-emission vehicle.

509 SECTION 39. Section 16 of chapter 25A of the General Laws, is hereby amended by 510 inserting after the word "section", in line 1, the following words:- and section 18.

511 SECTION 40. Subsection (a) of said section 16 of said chapter 25A, as so appearing, is
512 hereby amended by adding the following definition:-

513 "Zero-emission vehicle", a motor vehicle that produces no engine exhaust emissions.

514 SECTION 41. Said chapter 25A is hereby further amended by inserting after section 17
515 the following section:-

516	Section 18. (a) The commissioner shall, subject to appropriation, establish a program to
517	provide rebates or other financial incentives to consumers who purchase or lease a zero-emission
518	vehicle. Vehicles qualifying for rebates under this section shall: (i) be manufactured primarily for
519	use on public streets, roads and highways; (ii) not be modified from the original manufacturer's
520	specification; and (iii) have been acquired for use or lease by the consumer and not for resale.
521	(b) A rebate under this section shall not be less than \$1,500 per vehicle; provided,
522	however, that no rebate shall be available for a vehicle with a sales price that exceeds
523	\$50,000.
524	(c) The commissioner may promulgate regulations to administer the program established
525	under this section. At least once per calendar year, the commissioner shall provide outreach to
526	underserved consumers and consumers in communities with a high percentage of low-income
527	households with information about the zero-emission vehicle incentive program established
528	under this section.
529	(d) The commissioner shall publish and regularly update data regarding program usage
530	including, but not limited to: (i) the number and amount of rebates or incentives provided each
531	month; (ii) the make, model and type of vehicle for which the rebate or incentive was
532	issued; (iii) the zip code in which the vehicle is registered; and (iv) the estimated total

533 greenhouse gas emissions reductions achieved from the rebate or incentive issued.

534 SECTION 42. Section 94 of chapter 143 of the General Laws, is hereby amended by
535 inserting after subsection (r) the following subsections:-

536 (s) In consultation with the department of energy resources, to adopt and fully integrate

537 into the state building code requirements that new construction of commercial and 538 residential buildings, as well as major reconstruction, renovation and repair of such buildings, 539 include building electrical service, conduit systems, and level-2 or higher electric vehicle 540 chargers sufficient to support the minimum number of zero-emission vehicle parking spaces; 541 provided, however, that the minimum number of zero-emission vehicle parking spaces shall be at 542 least 1 parking space or not less than 75 per cent of the total number of parking spaces, 543 whichever is greater. For the purposes of this section, "zero-emission vehicle" shall mean a 544 motor vehicle that produces no engine exhaust emissions.

(t) In consultation with the department of energy resources, to adopt and fully integrate into the state building code requirements that new construction of parking facilities as well as major reconstruction, renovation and repair of such facilities, include building building electrical service, and conduit systems, and level-2 or higher electric vehicle chargers sufficient to support the minimum number of zero-emission vehicle parking spaces; provided, however, that the minimum number of zero-emission vehicle parking spaces shall be at least 1 parking space or not less than 75 per cent of the total number of parking spaces, whichever is greater.

552 SECTION 43. Section 3 of chapter 448 of the acts of 2016 is hereby amended by striking 553 out, in lines 3 and 4, the words "may include requirements for electric vehicle charging for 554 residential and appropriate commercial" and inserting in place thereof the following words:- shall include requirements for electric vehicle charging for appropriate residential andcommercial.

557	SECTION 44. Section 1 of Chapter 90 of the General Laws, as appearing in the 2016
558	Official Edition, is hereby amended by adding the following definitions:-
559	"Electric vehicles" are vehicles that rely solely on electric motors for propulsion and
560	includes non-combustion vehicles.
561	"Zero-emission infrastructure" means electric battery chargers, trolleybus and railway
562	catenary wire, and other equipment to support the operation of electric vehicles.
563	SECTION 43. Chapter 21N is hereby amended by inserting after Section 7, the following
564	section:-
565	Section 71/2. To contribute to the Commonwealth's greenhouse gas reduction targets, the
566	Secretary, in consultation with the department of energy resources, department of transportation,
567	department of environmental protection, and department of public utilities, shall set and enforce
568	targets for public fleet electrification.
569	(a) The Massachusetts Bay Transportation Authority shall operate a fully electric bus
570	fleet by 2030 and meet the following interim targets: (i) 100 percent of all MBTA procurements
571	shall be electric vehicles as defined in section 1 of chapter 90 by December 31, 2023; (ii) 40
572	percent of all MBTA buses should be electric by 2025; (iii) 60 percent of all MBTA buses
573	should be electric by 2027; (iv) 80 percent of all MBTA buses should be electric by 2028; (v) 90
574	percent of all MBTA buses should be electric by 2029. The MBTA shall establish and meet

575 goals for charging its bus infrastructure with renewable energy generating sources as defined in576 chapter 25A, section 11F.

(b) The MBTA shall work with the department of public health and department of
environmental protection to establish air monitoring stations around bus maintenance facilities
and to improve air quality around such facilities.

(c) The MBTA and its commuter rail contractor shall operate a fully electric commuterrail system by 2030.

(d) Regional transit authorities (RTAs) shall operate a fully electric bus fleet by 2035 and
meet the following interim targets: (i) 100 percent of all RTA procurements shall be electric by
December 31, 2026; (ii) 40 percent of all RTA buses should be electric by 2025; (iii) 60 percent
of all RTA buses should be electric by 2028; (iv) 80 percent of all RTA buses should be electric
by 2032; (v) 90 percent of all RTA buses should be electric by 2034.

587 SECTION 46. Chapter 161A is hereby amended by inserting the following paragraphs in 588 section 7 after the term "under Section 6C":

(a) The MBTA governing board shall establish deadlines for MBTA bus maintenance
facilities to support an all electric bus fleet. Construction of new 100 percent electric bus garages
and modernization of old garages, as needed for electric bus infrastructure, shall be complete at
least one year prior to full bus fleet electrification in 2030.

(b) The MBTA governing board shall direct the MBTA to update and operate existing
 zero-emission vehicle infrastructure and to expand its zero-emission infrastructure. Removal of
 existing zero-emission infrastructure shall be permitted for temporary road, catenary, or public

utility work. Any replacements for electric vehicles in operation must meet or exceed the
availability of the current zero-emission fleet, with no auxiliary systems. For all diesel-electric
hybrid buses, the MBTA shall develop robust monitoring about the locations where such buses
are operating on diesel power versus electric power and provide this data to the public on a
timely basis.

601 (c) The MBTA governing board shall direct the MBTA to operate electric buses with a 602 priority for operating such buses on routes serving environmental justice populations. The 603 MBTA governing board shall direct the MBTA to operate electric buses on bus routes serving 604 residents of Chelsea, Everett, Revere, Somerville, Chinatown, Roxbury, Dorchester, Lynn, and 605 Mattapan by 2025. The MBTA governing board shall direct MBTA staff to conduct robust 606 community outreach and engagement with residents of environmental justice populations, 607 municipal officials in cities and towns that have environmental justice populations, and with 608 transportation and environmental justice advocates. The MBTA staff shall report to the MBTA 609 governing board at least six times per year the progress of electrifying the bus and rail fleet. As 610 part of the public reports, MBTA staff shall explain the cost analysis of all procurements of fossil 611 fuel infrastructure and the reasons for procuring fossil fuel infrastructure in lieu of zero-emission 612 infrastructure.

(d) The MBTA governing board shall electrify the commuter rail fleet in two phases.
Phase I includes electrification of the Providence Line, Fairmount Line, and Newburyport /
Rockport Line at least through the Beverly Depot Station by December 31, 2024. Phase II
includes electrification of the Framingham/Worcester Line by December 31, 2026;
Middleborough/ Lakeville Line by December 31, 2027, and the remaining routes that pass
through environmental justice populations, but do not offer passenger service by December 31,

619 2030: South Coast (Phase 2 via Downtown Taunton), Haverhill, Lowell, Fitchburg, Franklin,
620 Plymouth/Kingston, Greenbush, Foxborough, Newburyport/ Rockport beyond Beverly Depot,
621 Cape Cod Extension, NH Capitol Corridor.

622 SECTION 47. Section 6 of chapter 161B is hereby amended by adding after paragraph623 (r), the following paragraph:

624 (s) The authorities shall operate electric buses with a priority for operating such buses on 625 routes serving environmental justice populations. Authorities shall conduct robust community 626 outreach and engagement with residents of environmental justice populations, municipal officials 627 in cities and towns that have environmental justice populations, and with transportation and 628 environmental justice advocates. The authorities shall report annually to the Regional Transit 629 Authority Council pursuant to Section 27 of chapter 161B the progress of electrifying the bus 630 fleet. As part of the public reports, authorities shall explain the cost analysis of all procurements 631 of fossil fuel infrastructure and the reasons for procuring internal combustion engines and fossil 632 fuel infrastructure in lieu of electric vehicles and zero-emission infrastructure.

- 633 SECTION 48. Section 1 of Chapter 90 of the General Laws, as appearing in the 2016
  634 Official Edition, is hereby amended by adding the following definitions:-
- 635 "Electric vehicles" are vehicles that rely solely on electric motors for propulsion and636 includes non-combustion vehicles.
- 637 "Emergency vehicle", any publicly owned vehicle operated by a peace officer in
- 638 performance of their duties, any authorized emergency vehicle used for fighting fires or
- 639 responding to emergency fire calls, any publicly owned authorized emergency vehicle used by an
- 640 emergency medical technician or paramedic, or used for towing or servicing other vehicles, or

641	repairing damaged lighting or electrical equipment, any motor vehicle of mosquito abatement,
642	vector control, or pest abatement agencies and used for those purposes, or any ambulance used
643	by a private entity under contract with a public agency.
644	SECTION 49. Section 1 of chapter 21N is hereby amended by inserting the following
645	definitions:
646	"Motor vehicles", as defined in section 1 of chapter 90.
647	"Motor vehicle fleet" is a set of at least twenty-five motor vehicles under the same
648	ownership or control and registered in the Commonwealth of Massachusetts.
649	"Motor vehicle fleet serving a public purpose" is a motor vehicle fleet of which a portion
650	is leased, rented, or contracted by the Commonwealth of Massachusetts or a municipality or any
651	political subdivision thereof from a person or entity other than the Commonwealth of
652	Massachusetts or a municipality to provide a public service or for its own use, including school
653	buses and paratransit vehicles.
654	"Public motor vehicle fleet" is a motor vehicle fleet owned by the Commonwealth of
655	Massachusetts, a transportation authority, a school district, a public university, a quasi-public
656	agency, or a municipality or in the shared ownership of multiple municipalities, or any political
657	subdivision thereof. A public motor vehicle fleet includes vehicles under the same ownership of
658	the Commonwealth or a municipality, even if a portion of the motor vehicle fleet is under the
659	management or control of separate secretariats, departments, agencies, or offices.
660	"Electric vehicle", as defined in section 1 of chapter 90.

661 SECTION 50. Chapter 21N is hereby amended by inserting after section 7 the following
 662 sections: -

663 Section 7A. The Secretary, in consultation with the department of energy resources, 664 department of transportation, department of environmental protection, and department of public 665 utilities, shall develop a transition to an electric motor vehicle fleet program and promulgate 666 regulations to require the following motor vehicle fleet standards: (a) fifty percent of all public 667 motor vehicle fleets and motor vehicle fleets serving a public purpose shall be electric vehicles 668 by 2025; (b) seventy-five percent of all public motor vehicle fleets and motor vehicle fleets 669 serving a public purpose shall be electric vehicles by 2027; and (c) one hundred percent of all 670 public motor vehicle fleets and motor vehicle fleets serving a public purpose shall be electric 671 vehicles by 2030.

In reaching the Commonwealth's public fleet requirements defined in this section, the Secretary shall prioritize for electrification any vehicles cited as medium- or high-priority by the study commissioned pursuant to section 6 of chapter 448 of the acts of 2016. To meet the deadlines established in this section, the Secretary shall prioritize electric vehicle deployment in locations serving environmental justice populations as defined in the general laws or, in the absence of a statutory definition, the environmental justice policy of the executive office of energy and environmental affairs, as may be amended.

Section 7B. Notwithstanding section 9A of chapter 7, vehicles subject to the electric
vehicle public motor vehicle fleet program include: all public motor vehicle fleets, all motor
vehicle fleets serving a public purpose, and all motor vehicle fleets that are owned, leased,
rented, or contracted, by quasi-public agencies, excluding emergency vehicles. The Department

683 of Energy Resources, with input from the Department of Environmental Protection, Department 684 of Public Utilities, and Department of Transportation, shall: (i) establish goals for private motor vehicle fleets conversion; (ii) identify and implement incentives to support electric vehicle 685 686 purchases; (iii) work with owners of motor vehicle fleets used, at least in part, for the purpose of 687 commercial ride-sharing and ride-hailing and passenger transportation, including vehicles 688 regulated pursuant to chapter  $159A^{\frac{1}{2}}$  to transition to electric vehicles; (iv) work with owners of 689 motor vehicle fleets used for public transportation licensed to operate in the Commonwealth 690 pursuant to chapter 90 or chapter 159A to transition to electric vehicles; and (v) work with 691 owners of motor vehicle fleets used as commercial motor carriers, freight services, limousine 692 services, and taxis registered to operate in the Commonwealth to transition to electric vehicles.

Section 7C. The Secretary, in consultation with the executive office for administration
and finance, shall require that new motor vehicles purchased by the Commonwealth shall be
electric vehicles according to the following deadlines:(i) forty percent of all purchases in 2024;
(ii) sixty percent of all purchases in 2025; (iii) eighty percent of all purchases in 2026; (iv) ninety
percent of all purchases in 2027; and (v) one hundred percent of all purchases in 2028.

698 Section 7D. The Department of Energy Resources shall design and implement an 699 incentive program to encourage the conversion of private fleets to electric vehicles. Should an 700 owner of a motor vehicle fleet fail to comply with electric vehicle program requirements, the 701 Department of Energy Resources shall remove the incentive for that owner and require 702 reimbursement of the incentive. As part of the incentive program, the Department of Energy 703 Resources shall ensure a specific pool of funds, not less than ten percent of all funds allocated to 704 the incentive program, is available to municipalities to promote the transition to electric vehicle 705 motor vehicle fleet.

706	SECTION 51. Beginning in 2024 and every five years thereafter through 2040, the
707	Secretary shall submit a report to the Legislature that measures the Commonwealth's progress
708	towards implementation of the electric vehicle motor vehicle fleet program. The report shall: (i)
709	assess the electric vehicle market in the Commonwealth; (ii) identify funding sources to serve as
710	incentives for purchasing electric vehicles to offset costs to agencies, municipalities, and
711	businesses; (iii) identify barriers to increased penetration of electric vehicles; and (iv)
712	recommend legislative and regulatory action to address those barriers.
713	SECTION 52. The Secretary may provide education, training, and technical assistance to
714	motor vehicle fleet operators to support electric vehicle penetration.
715	SECTION 53. The regulations required pursuant to sections 7A through 7D of said
716	chapter 21N shall be promulgated and in effect not later than 270 days following the effective
717	date.
718	SECTION 54. Section 6 of chapter 25A of the General Laws, is hereby amended by
719	inserting after clause (11) the following clause:-
720	(12) develop and adopt, as an appendix to the state building code, in consultation with the
721	board of building regulations and standards, a specialized net-zero energy code that includes, but
722	is not limited to, a definition of net-zero building.
723	SECTION 55. Section 96 of said chapter 143, as so appearing, is hereby amended by
724	inserting, in line 7, after the word "to" the following words:- , the specialized net-zero energy
725	code developed and adopted by the department of energy resources.

SECTION 56. 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.

729 SECTION 57. To develop the specialized net-zero energy code required by section 6 of 730 chapter 25A of the General Laws, the department of energy resources shall hold not less than 5 731 public hearings in geographically diverse locations throughout the commonwealth that shall 732 represent the distinguishing characteristics of rural, suburban and urban households, 3 of which 733 shall be held in an underserved community or community with a high percentage of low-income 734 households. The specialized net-zero energy code required by said section 6 of said chapter 25A 735 shall be developed, adopted and incorporated as an appendix to the state building code not later 736 than 1 year after the passage of this act.

737

SECTION 58. Section 94 of chapter 143 of the General Laws, is hereby amended by
 striking out subsection (o) and inserting in place thereof the following subsection:

740 (o) To adopt and fully integrate as part of the state building code: (i) the latest 741 International Energy Conservation Code, (ii) the net-zero energy code required by section 6 of 742 chapter 25A of the General Laws for new residential construction beginning on January 1st 743 2025, (iii) the net-zero energy code required by said section 6 of said chapter 25A for new 744 commercial construction beginning on January 1st 2028, and (iv) any more stringent energy-745 efficiency provisions that the board, in consultation with the department of energy resources, 746 concludes are necessary to achieve the emissions limits established by subsection (b) of section 3 747 of chapter 21N of the General Laws as amended, and the renewable energy requirements

established by subsection (a) of section 3 of chapter 25D of the General Laws as amended. The
energy provisions of the state building code shall be updated within 1 year of any revision to the
International Energy Conservation Code.

SECTION 59. Section 94 of chapter 143 of the General Laws, is hereby amended by
 striking out subsection (q) and inserting in place thereof the following subsection:

753 (q) In consultation with the department of energy resources, to develop requirements and 754 promulgate regulations as part of the state building code, in addition to the requirements 755 enumerated in subsection (o) of Section 94 of chapter 143 of the General Laws, requiring a 756 process to ensure that all new non-residential buildings larger than 10,000 square feet and any 757 major reconstruction, alteration or repair of all such buildings perform as designed with respect 758 to energy consumption by undergoing building commissioning or acceptance testing. Such 759 commissioning must be completed before the issuance of a certificate of occupancy. 760 SECTION 60. Amendments to the state building and electric code required under section 761 A4 and A8 shall be in effect not later than 18 months after the effective date of this act. 762 SECTION 61. Chapter 121B of the General Laws is hereby amended by inserting after

763 section 38D the following section:-

Section 38D <sup>1</sup>/<sub>2</sub>. (a) The department shall develop a program to transition the entire public
housing stock of the Commonwealth into highly energy-efficient homes that produce on-site, or
procure, enough carbon-free renewable energy to meet total energy consumption annually.

(b) Projects pursuant to this section may include a mix of extremely low income
households, low or moderate income households and market-rate housing and may utilize any
available source of rental subsidy or financial assistance.

770 (c) The local housing authority shall: (i) comply with section 12, related to wages, labor 771 requirements and the Social Security Act; (ii) comply with section 29, related to wage rates and 772 collective bargaining; (iii) retain the same number of public housing units as existed before 773 participation in this program and to the greatest extent possible: (A) provide for full tenant 774 participation, including public hearings, on adoption or material amendment of its annual plan as 775 required under subsection (h); (B) provide for a tenant lease and grievance procedure 776 substantially similar to that in effect prior to entry into this program; (C) provide that evictions 777 shall be only for good cause; (D) assure that housing assisted under this program is decent, safe 778 and sanitary and that, excepting any market-rate housing, the housing is deed restricted to 779 occupancy by extremely low income households, very low income households or low and 780 moderate income households at affordable rents or sales prices, in perpetuity or for such other 781 term as may be approved by the department, consistent with funding sources; and (E) assure that 782 proceeds from the disposition of public housing and funds generated from new affordable and 783 market-rate housing created to replace public housing, unless restricted to a particular use, shall 784 be allocated to the reconstruction, rehabilitation or repair of public housing developments; (iv) 785 assure that if a participating housing authority redevelops its public housing units, all households 786 residing in the units at the time of planned redevelopment shall receive relocation assistance, if 787 eligible, under this chapter or other applicable statutes; provided however, that such households 788 shall have the right to return to the redeveloped public housing, unless such household is 789 determined to be in unlawful occupancy prior to the approval of the housing authority's

application, has materially breached the lease agreement or has been evicted for cause, under
applicable law, subject to units of the appropriate size and requirements being available;
provided further, that such households shall have priority for placement over new applicants; (v)
comply with chapter 334 of the acts of 2006; and (vi) comply with the audit requirements of
section 29.

(d) The department shall maximize tenant participation and management by low- and
very low-income individuals in the rehabilitation, upgrade, and transition of public housing
through education, training, and jobs, all of which are to be funded by the Workforce Training
Fund established in section 2RR of chapter 29.

SECTION 62. Chapter 21N of the General Laws is hereby amended by inserting aftersection 11 the following section:-

801 Section 12. To achieve the mobilization required to reach 100% renewable electricity and 802 energy by 2030, a just transition for workers is necessary. The attorney general must ensure that 803 the following criteria are met amidst this energy transition:

804 (a) Any job created in the transition to 100% renewables must be a high-quality union job
805 with guaranteed wage and benefit parity for workers affected by the transition.

(b) Workers affected by the energy transition, including but not limited to fossil fuel
workers, mechanics, laborers, are to be prioritized for training and advancement opportunities
that allow for them to shift to renewable energy jobs.

(c) After the training referenced in subsection b has been completed, workers affected by
the transition are guaranteed a job created in the mobilization to 100% renewables, and will be
prioritized over other applicants.

- (d) The commonwealth, through the powers of the attorney general, will fund and
  provide pensions for workers impacted by the transition age 50 or older who elect to retire early
  in lieu of participation in the training programs described in subsection (b).
- 815 (e) The commonwealth, through the department of labor services, will fund training and
  816 advancement opportunities, pensions, and the wage and benefit parity for each worker affected
  817 by the transition.