

SENATE No.

The Commonwealth of Massachusetts

PRESENTED BY:

Robert A. O'Leary

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 passage of the accompanying bill:

An Act relative to expanding energy efficiency in the Commonwealth.

PETITION OF:

NAME:

Robert A. O'Leary

DISTRICT/ADDRESS:

Cape and Islands

The Commonwealth of Massachusetts

In the Year Two Thousand and Nine

AN ACT RELATIVE TO EXPANDING ENERGY EFFICIENCY IN THE COMMONWEALTH.

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.** (A) Section 2 of chapter 25B of the general laws as appearing in the 2006 official edition, is
2 hereby amended by inserting, after line 8, the following: -

3 “Bottle-type water dispenser” means a water dispenser that uses a bottle or reservoir as the source of
4 potable water.”

5 (B) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
6 inserting, after line 10, the following: -

7 “Combination television” means a system in which a television or television monitor and an
8 additional device or devices including, but not limited to, a DVD player, an HDD player or a
9 VCR, are combined into a single unit and which meets all of the following criteria: the
10 additional devices are included in the television casing;

11 “Commercial hot food holding cabinet” means a heated, fully-enclosed compartment with one or
12 more solid or glass doors that is designed to maintain the temperature of hot food that has been
13 cooked in a separate appliance. It shall not include heated glass merchandizing cabinets, drawer
14 warmers, or cook-and-hold appliances.

15 (C) Said Section 2 of said chapter 25B of the general laws, as so appearing, is further amended by
16 inserting, after line 11, the following: -

17 “Compact audio product,” also known as a mini, mid, micro, or shelf audio system, means an
18 integrated audio system encased in a single housing that includes an amplifier and radio tuner,
19 attached or separable speakers, and can reproduce audio from one or more of the following media:
20 magnetic tape, CD, DVD, or flash memory. “Compact audio product” does not include products that
21 can be independently powered by internal batteries or that have a powered external satellite antenna,
22 or that can provide a video output signal.”

23 “Component television” means a television composed of two or more separate components (e.g.,
24 separate display device and tuner) marketed and sold as a television under one model or system
25 designation. The system may have more than one power cord.”

26 “Computer monitor” means an analog or digital device designed primarily for the display of
27 computer generated signals, is “plug and play,” and is not marketed for use as a television.”
28 (D) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
29 inserting the following language after line 13:

30 “Digital versatile disc” and “DVD” mean a laser-encoded plastic medium capable of storing a large
31 amount of digital audio, video, and computer data.”

32 “Digital versatile disc player” and “digital versatile disc recorder” mean commercially-available
33 electronic products encased in a single housing that includes an integral power supply and for which
34 the sole purpose is, respectively, (1) the decoding and (2) production or recording of digitized video
35 signal on a DVD. “DVD recorder” does not include models that have an electronic programming
36 guide function that provides an interactive, onscreen menu of television listings, and that downloads
37 program information from the vertical blanking interval of a regular television signal.”

38 (E) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
39 inserting, after line 54, the following: -

40 “On mode” means the television is connected to a power source and produces sound and a picture.”

41 “Portable electric spa” means a factory-built electric spa or hot tub, supplied with equipment for
42 heating and circulating water.”

43 “Portable luminaire” means a luminaire which connects to a power supply by means of a power cord
44 and plug.”

45 (F) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
46 inserting, after line 102, the following: -

47 “Standby-passive mode” means the television is connected to a power source, produces
48 neither sound nor images but can be switched into another mode with a remote control unit or
49 an internal signal.”

50 (G) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
51 inserting, after line 115, the following: -

52 “Television” means an analog or digital device designed primarily for the display and
53 reception of a terrestrial, satellite, cable internet protocol tv (IPTV) or other broadcast or
54 recorded transmission of analog or digital signals. Televisions include combination
55 televisions, television monitors, component televisions, and any product that is marketed as a
56 television. Televisions do not include computer monitors.”

57 “Television monitor” means a television that does not have an internal tuner or receiver or
58 playback device.”

59 (H) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
60 inserting, after line 127, the following: -

61 “Water dispenser” means a factory –made assembly that mechanically cools and heats potable water and
62 that dispenses the cooler or heated water by integral or remote means.”

63 **Section 2.** (A) section 3 of chapter 25B of the general laws, as so appearing, is hereby amended by
64 inserting, after subsection (j) the following subsections: -

65 (k) bottle-type water dispensers;

66 (l) commercial hot food holding cabinets;

67 (m) compact audio products;

68 (n) digital versatile disc players (DVD) and digital versatile disc recorders;

69 (o) portable electric spas;

70 (p) portable luminaires

71 (q) televisions (TVs); and

72 (r) any other products as may be designated by the Commissioner in accordance with

73 Section 7 of Chapter 25 of the general laws.

74 (B) Said section 3 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
75 inserting, after line 29, the following: -

76 “; or new products manufactured in the state and sold outside the state; new products manufactured
77 outside the state and sold at wholesale inside the state for final retail sale and installation outside the state;
78 products installed in mobile manufactured homes at the time of construction; or products designed
79 expressly for installation and use in recreational vehicles”

80 **Section 3.** (A)Section 4 of chapter 25B of the general laws, as so appearing, is hereby amended by
81 striking out the words “clauses (a) to (e) in line 1, and inserting in place thereof the words “clauses (a) to
82 (r)

83 (B) Said section 4 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
84 striking out the words “clauses (a) to (e) in line 6 and inserting in place thereof the words “clauses (a) to
85 (r)

86 **Section 4.** (A) Section 5 of chapter 25B of the general laws, as so appearing, is hereby amended by
87 inserting, after the word “ninety” in line 12 the following language: -

88 “ Said commissioner may also by regulation increase the level of energy efficiency standards for bottle –
89 type water dispensers, commercial hot food holding cabinets, compact audio products, digital versatile
90 disc players (DVDs) and recorders, portable luminaries, portable electric spas, and televisions (TVs).

91 (B) Said section 5 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
92 inserting, after the word “users” in line 14, the following: -

93 “and promote energy conservation in the commonwealth,”

94 Said section 5 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
95 striking out the words “clauses (f) to (s) in line 23 and inserting in place thereof the words “clauses (a) to
96 (r)”.

97 (C) Said section 5 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
98 inserting, after subsection (5) the following subsections: -

99 (6) Bottle-type water dispensers designed for dispensing both hot and cold water shall not have
100 standby energy consumption greater than 1.2 kilowatt-hours per day, as measured in accordance with
101 the test criteria contained in version 1 of the U.S. environmental protection agency’s “Energy Star
102 Program Requirements for Bottled Water Coolers,” except units with an integral, automatic timer
103 shall not be tested using Section D, “timer usage,” of the test criteria.

104 (7) Commercial hot food holding cabinets shall have a maximum idle energy rate of 40 watts per
105 cubic foot of interior volume, as determined by the "idle energy rate-dry test" in ASTM F2140-01,
106 “Standard Test Method for Performance of Hot Food Holding Cabinets” published by ASTM
107 International. Interior volume shall be measured in accordance with the method shown in the U.S.
108 environmental protection agency’s “Energy Star Program Requirements for Commercial Hot Food
109 Holding Cabinets” as in effect on August 15, 2003.

110 (8) Compact audio products shall not use more than 2 watts in standby-passive mode for those
111 without a permanently illuminated clock display and 4 watts in standby-passive mode for those
112 with a permanently illuminated clock display, as measured in accordance with the international
113 electrotechnical commission (IEC) test method 62087:2002(E), “Methods of measurement for the
114 power consumption of audio, video, and related equipment.”

115 (9) Digital versatile disc players and digital versatile disc recorders shall not use more than 3 watts in
116 standby-passive mode, as measured in accordance with international electrotechnical commission
117 (IEC) test method 62087:2002(E), “Methods of measurement for the power consumption of
118 audio, video, and related equipment.”

119 (10) Portable luminaires shall meet one or more of the following requirements:

120 (i) Be equipped with a dedicated fluorescent lamp socket connected to a high frequency electronic
121 ballast contained within the luminaire. Dedicated fluorescent luminaires must meet the requirements
122 of the U.S. environmental protection agency’s “Energy Star Program for Residential Light Fixtures
123 Version 4.2”.

124 (ii) Be equipped with only GU-24 line voltage sockets and not be rated for use with incandescent
125 lamps of any type, including line voltage or low voltage;

126 (iii) Be an LED luminaire or a luminaire with an LED light engine with integral heat sink and
127 comply with the following minimum requirements:

- 128 a. Minimum light output: 200 lumens (initial)
- 129 b. Minimum LED luminaire efficacy: 29 lumens/watt
- 130 c. Minimum LED light engine efficacy: 40 lumens/watt
- 131 d. Color Correlated Temperature (CCT): 2700K through 5000K
- 132 e. Minimum Color Rendering Index (CRI): 75

133 (iv) Be equipped with an E12, E17, or E26 screw-based socket and be prepackaged and sold
134 together with one screw-based compact fluorescent lamp or screw-based LED lamp for each
135 screw-based socket on the luminaire. The compact fluorescent or LED lamps prepackaged with
136 the luminaire shall be fully compatible with any luminaire controls incorporated into the
137 luminaire (e.g., luminaires with dimmers shall be packed with dimmable lamps). Compact
138 fluorescent lamps prepackaged with luminaires shall meet the requirements of the U.S.
139 Environmental Protection Agency's Energy Star Program for CFLs Version 4.0.

140 (v) Be equipped with one or more single-ended, non-screw based halogen lamp sockets (line or
141 low voltage), a dimmer control or high-low control, and be rated for a maximum of 100W.

142 Artwork luminaires that meet all of the following requirements are not required to be
143 prepackaged and sold together with compact fluorescent or LED lamps: -

144 (a) designed only to be mounted directly to art work only for the purpose of illuminating
145 that art work;

146 (b) fitted only with E-12 screw-based line-voltage sockets;

147 (c) having no more than three sockets per luminaire; and

148 (d) controlled with an integral high/low switch.

149 Art work luminaires with a single socket shall have a maximum relamping rated wattage of 25
150 watts, luminaires with two or three sockets shall have a maximum relamping rated wattage of 15
151 watts per socket, as listed on a permanent label in accordance with Underwriters Laboratories
152 (UL) 153.

153 (11) Portable electric spas shall not have a standby power greater than $5(V^{2/3})$ Watts where V=the total
154 volume in gallons, as measured in accordance with the test method for portable electric spas contained in
155 section 1604, title 20, California code of regulations.

156 (12) Televisions shall use no more than $(0.20 \times \text{screen area (in}^2) + 32)$ watts in on mode and no more than
157 one (1) watt in standby-passive mode. On and after January 1, 2013, televisions shall use no more than
158 $(0.12 \times \text{screen area (in}^2) + 25)$ watts in on mode and no more than one (1) watt in standby passive mode.
159 Television on mode energy use shall be measured according to International
160 Electrotechnical Commission (IEC) 62087, Edition 2.0 "Methods of Measurement for Power
161 Consumption of Audio, Video, and Related Equipment," as applied by the U.S. Environmental Protection
162 Agency in the "Energy Star Program Requirements for Televisions, Version 3.0" Television standby-
163 passive mode energy use shall be measured according to international electrotechnical commission (IEC)
164 62301, Edition 1.0: household electrical appliances -measurement of standby power," as applied by the
165 U.S. environmental protection agency in the "Energy Star Program Requirements for Televisions, Version
166 3.0"

167 (D) Said section 5 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
168 inserting, in line 75, after the figure "2008" the following: -

169 “On or after January 1, 2011, no new bottle-type water dispenser, commercial hot food holding cabinet,
170 compact audio product, digital versatile disc player or digital versatile disc recorder, portable electric spa,
171 portable luminaire or television may be sold or offered for sale in the state unless the efficiency of the
172 new product meets or exceeds the efficiency standards set forth in the regulations adopted pursuant to
173 Section 5.”