

HOUSE No.

The Commonwealth of Massachusetts

PRESENTED BY:

Frank I. Smizik

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:	DISTRICT/ADDRESS:
Frank I. Smizik	15th Norfolk

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
2 edition, is 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
4 of potable water.

5

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

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9 “Combination television” means a system in which a television or television monitor and an
10 additional device or devices including, but not limited to, a DVD player, an HDD player or a VCR, are
11 combined into a single unit and which meets all of the following criteria: the additional devices are
12 included in the television casing; it is not possible to measure the power requirements of the
13 components separately without the removal of the television casing; and the system is
14 powered through a single power cable.

15

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

20

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

23

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

30

31 "Component television" means a television composed of two or more separate components (e.g.,
32 separate display device and tuner) marketed and sold as a television under one model or system
33 designation. The system may have more than one power cord.

34

35 "Computer monitor" means an analog or digital device designed primarily for the display of
36 computer generated signals, is "plug and play," and is not marketed for use as a television.

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41 (D) Said section 2 of said chapter 25B of the general laws, as so appearing, is hereby further amended by
42 inserting the following language after line 13:

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44 "Digital versatile disc" and "DVD" mean a laser-encoded plastic medium capable of storing a large
45 amount of digital audio, video, and computer data.

46

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

53

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

56

57 "On mode" means the television is connected to a power source and produces sound and a picture.

58

59 "Portable electric spa" means a factory-built electric spa or hot tub, supplied with equipment for
60 heating and circulating water.

61

62 "Portable luminaire" means a luminaire which connects to a power supply by means of a power cord
63 and plug.

64

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

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68 "Standby-passive mode" means the television is connected to a power source, produces neither
69 sound nor images but can be switched into another mode with a remote control unit or an internal
70 signal.

71

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

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75 "Television" means an analog or digital device designed primarily for the display and reception of a
76 terrestrial, satellite, cable internet protocol tv (IPTV) or other broadcast or recorded transmission of
77 analog or digital signals. Televisions include combination televisions, television monitors,
78 component televisions, and any product that is marketed as a television. Televisions do not include
79 computer monitors.

80

81 "Television monitor" means a television that does not have an internal tuner or receiver or playback
82 device.

83

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

86 "Water dispenser" means a factory-made assembly that mechanically cools and heats potable water and
87 that dispenses the cooler or heated water by integral or remote means.

88

89

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

92 (k) bottle-type water dispensers;

93 (l) commercial hot food holding cabinets;

94 (m) compact audio products;

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

96 (o) portable electric spas;

97 (p) portable luminaires

98 (q) televisions (TVs); and

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

100 Section 7 of Chapter 25 of the general laws.

101

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

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

108

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

112

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

116

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

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

122

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

125 “and promote energy conservation in the commonwealth,”

126

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

130

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

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

138

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

145

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

151

152 (9) Digital versatile disc players and digital versatile disc recorders shall not use more than 3 watts
153 in standby-passive mode, as measured in accordance with international electrotechnical commission
154 (IEC) test method 62087:2002(E), "Methods of measurement for the power consumption of audio,
155 video, and related equipment."
156
157

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

159 (i) Be equipped with a dedicated fluorescent lamp socket connected to a high frequency
160 electronic ballast contained within the luminaire. Dedicated fluorescent luminaires must meet
161 the requirements of the U.S. environmental protection agency's "Energy Star Program for
162 Residential Light Fixtures Version 4.2".

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

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

- 167 a. Minimum light output: 200 lumens (initial)
- 168 b. Minimum LED luminaire efficacy: 29 lumens/watt
- 169 c. Minimum LED light engine efficacy: 40 lumens/watt
- 170 d. Color Correlated Temperature (CCT): 2700K through 5000K
- 171 e. Minimum Color Rendering Index (CRI): 75

172

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

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

182

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

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

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

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

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

190

191 Art work luminaires with a single socket shall have a maximum relamping rated wattage of 25
192 watts, luminaires with two or three sockets shall have a maximum relamping rated wattage of
193 15 watts per socket, as listed on a permanent label in accordance with Underwriters
194 Laboratories (UL) 153.

195

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

199

200 (12) Televisions shall use no more than $(0.20 \times \text{screen area (in}^2) + 32)$ watts in on mode and no more
201 than one (1) watt in standby-passive mode. On and after January 1, 2013, televisions shall use no more
202 than $(0.12 \times \text{screen area (in}^2) + 25)$ watts in on mode and no more than one (1) watt in standby passive
203 mode. Television on mode energy use shall be measured according to International
204 Electrotechnical Commission (IEC) 62087, Edition 2.0 "Methods of Measurement for Power
205 Consumption of Audio, Video, and Related Equipment," as applied by the U.S. Environmental Protection
206 Agency in the "Energy Star Program Requirements for Televisions, Version 3.0" Television standby-
207 passive mode energy use shall be measured according to international electrotechnical commission (IEC)
208 62301, Edition 1.0: household electrical appliances -measurement of standby power," as applied by the
209 U.S. environmental protection agency in the "Energy Star Program Requirements for Televisions, Version
210 3.0"

211

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

214

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