

By Mr. Ames of Easton, petition of John S. Ames III that provision be made for more efficient utilization of energy in new residential, commercial and public buildings. Urban Affairs.

The Commonwealth of Massachusetts

In the Year One Thousand Nine Hundred and Seventy-Five.

AN ACT TO PROVIDE FOR MORE EFFICIENT UTILIZATION OF ENERGY IN
NEW RESIDENTIAL, COMMERCIAL AND PUBLIC BUILDINGS.

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

1 Chapter 23B of the General Laws is hereby amended by
2 inserting after Section 19 the following new section 19A:—

3 *Section 1.* For the purposes of this section the following words
4 or phrases unless the context requires otherwise shall be
5 construed as follows:—

6 Structures — shall include residential dwelling whether single
7 or multi-family, permanent or transient, institutional or other
8 health aid facilities, schools, places of public assembly, public or
9 governmental buildings, and commercial establishments as more
10 specifically set forth in Section 3A.

11 Energy — shall include that derived from fossil or atomic fuels
12 and shall exclude that derived from solar, wind, geothermal or
13 other non-depletive sources.

14 Gross Square Foot of Floor Area — shall mean the total
15 measurable interior area of the building measured from outside
16 wall to outside wall determined by the American National
17 Standards Institute Standard ANSI Z-65-1972.

18 Process Equipment — shall mean machinery electrical or
19 mechanical not primarily designed to heat, cool or illuminate.

20 *Section 2.* Each application for a building permit for new
21 structures shall contain a certificate of compliance by a registered
22 architect or registered professional engineer that said structure

23 has been designed to comply with and does not exceed the
24 maximum energy consumption standards as delineated in Section
25 3 (a).

26 *Section 3 (a).* The designed maximum annual energy consump-
27 tion at building boundary excluding process equipment in
28 thousands of BTU's per gross square foot area (American
29 National Standards Institute Standard ANSI Z-65-1972) per
30 annum shall not exceed the following: —

31 For non-transient residential buildings to include but not be
32 limited to apartment houses, dormitories, rooming houses, and
33 one and two family dwellings — 125,000 BTU's per gross square
34 foot per annum.

35 For transient residential buildings to include but not be limited
36 to motels, hotels, and lodging houses — 125,000 BTU's per gross
37 square foot per annum.

38 For institutional buildings to include but not be limited to
39 infirmaries, sanitariums, nursing homes, convalescent homes,
40 maternity homes, children's homes, and penal institutions —
41 150,000 BTU's per gross square foot per annum.

42 For hospitals — 175,000 BTU's per gross square foot per
43 annum.

44 For schools to include but not be limited to elementary, junior
45 high, senior high, college, university, and laboratories — 125,000
46 BTU's per gross square foot per annum.

47 For large assemblies to include but not be limited to arenas,
48 auditoriums, gymnasiums, theaters, and music halls — 200,000
49 BTU's per gross square foot per annum.

50 For small assemblies to include but not be limited to armories,
51 art galleries, ballrooms, churches, dance halls, dining halls,
52 funeral chapels, museums, night clubs, and restaurants — 150,000
53 BTU's per gross square foot per annum.

54 For commercial buildings — 175,000 BTU's per gross square
55 foot per annum.

56 For industrial buildings to include but not be limited to
57 bakeries, breweries, creameries, distilleries, factories,
58 slaughterhouses, aircraft hangers, and automobile sales and
59 service buildings — 175,000 BTU's per gross square foot per
60 annum.

61 *Section 3 (b).* The method of determination of BTU per gross
62 square foot per annum for the purpose of this section should be as

63 set forth in ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers) Handbook of Fundamentals — 1972 or by other ASHRAE approved methods.

66 *Section 4.* Any violations of the above sections shall be subject
67 to the provisions of Article 1, Section 122 of the Massachusetts
68 State Building Code.

