

**SENATE . . . . . No. 1698**

---

**The Commonwealth of Massachusetts**

PRESENTED BY:

***James B. Eldridge***

*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 promoting the use of total energy impact analysis.**

PETITION OF:

NAME:

*James B. Eldridge*

DISTRICT/ADDRESS:

*Middlesex and Worcester*

**SENATE . . . . . No. 1698**

By Mr. Eldridge, a petition (accompanied by bill, Senate, No. 1698) of James B. Eldridge for legislation to promote the use of total energy impact analysis. State Administration and Regulatory Oversight.

**The Commonwealth of Massachusetts**

**In the One Hundred and Ninetieth General Court  
(2017-2018)**

An Act promoting the use of total energy impact analysis.

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

1 SECTION 1. Section 44M of chapter 149 of the General Laws, as appearing in the 2014  
2 Official Edition, is hereby amended by inserting after the definition of “Life cycle cost estimate”  
3 the following definition:-

4 “Life-cycle energy analysis”, a simple comprehensive analysis, in understandable units,  
5 based on existing measurements of the total carbon footprint across all domains, including water,  
6 electricity, transportation, gas, waste and materials.

7 SECTION 2. Said section 44M of said chapter 149 is hereby further amended by  
8 inserting in lines 20 and 25 after the words “life-cycle cost estimates” the following words:- and  
9 carbon footprint

10 SECTION 3. Said section 44M of said chapter 149 is hereby further amended by  
11 inserting in line 27 after the words “cost estimates” the following words:- and analysis

12 SECTION 4. Said section 44M of said chapter 149 is hereby further amended by  
13 inserting in line 32 after the words “cost estimates” the following words:- and carbon footprint

14 SECTION 5. Notwithstanding any general or special law to the contrary, state agencies  
15 required to conduct a life-cycle cost analysis of the construction of a new facility, or substantial  
16 renovation of an existing facility that includes the replacement of systems, components, and  
17 other building elements that affect energy or water consumption, and that is either owned or  
18 operated by the commonwealth, under section 331 of chapter 164 of the acts of 1997, shall also  
19 conduct a regular and periodic life-cycle energy analysis that analyzes, in understandable units,  
20 based on existing measurements, the total energy implications and consumptions of resources  
21 across all domains, including water, electricity, transportation, gas, waste and materials. Such  
22 state agency shall use such analyses to establish benchmarks for total energy impacts with the  
23 goal of improving sustainability.

24 Each such state agency shall also include in the report required under Section 331(a)(iv)  
25 of Chapter 164 of the Acts of 1997 its compliance with the provisions of this section.

26 The division of capital asset management and maintenance shall, no later than January 1,  
27 2019, establish a methodology for use by agencies in assessing life-cycle energy consumption.  
28 The department of energy resources shall include the compliance record of all state agencies with  
29 the provisions of this section in its annual report to the general court under section 331(c) of  
30 chapter 164 of the acts of 1997.