

Introduced: 4/1/75  
Referred: State Affairs and  
Finance

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1 IN THE HOUSE

2 HOUSE BILL NO. 368

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 NINTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act relating to the conservation of energy in  
7 public facilities."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

9 \* Section 1. The legislature hereby finds that

10 (1) major publicly owned or leased facilities have a signi-  
11 ficant impact on our state's consumption of energy;

12 (2) energy conservation practices adopted for the design,  
13 construction, and utilization of these facilities will have a bene-  
14 ficial effect on our overall supply of energy;

15 (3) the cost of the energy consumed by these facilities over  
16 the life of the facilities should be considered in addition to the  
17 initial cost of constructing them; and

18 (4) the cost of energy is significant and major facility  
19 designs should be based on the partial life-cycle cost, including the  
20 initial construction cost, and the cost, over the economic life of a  
21 major facility, of the energy consumed, and of the operation and main-  
22 tenance of a major facility as they affect energy consumption.

23 \* Sec. 2. The legislature declares that it is the public policy of this  
24 state to insure that energy conservation practices are employed in the design  
25 of major publicly owned or leased facilities. To this end the legislature  
26 authorizes and directs that public agencies analyze the cost of energy con-  
27 sumption of each major facility to be constructed or renovated after the  
28 effective date of this Act.

29 \* Sec. 3. AS 35.10 is amended by adding a new section to read:

1           Sec. 35.10.012. COST ANALYSIS REQUIRED. When a public agency  
2 determines that a major facility is to be constructed or renovated the  
3 agency shall cause to be included in the design phase of the construc-  
4 tion or renovation a provision that requires a partial life-cycle cost  
5 analysis to be prepared for the facility. The analysis shall be approved  
6 by the agency before the commencement of actual construction or renova-  
7 tion. A public agency may accept the facility design if the agency is  
8 satisfied that the partial life-cycle cost analysis provides for an  
9 efficient energy system based on the economic life of the facility.

10 \* Sec. 4. AS 35.25.020 is amended by adding new paragraphs to read:

11           (7) "economic life" means the projected or anticipated useful  
12 life of a major facility as expressed by a term of years;

13           (8) "energy-consumption analysis" means the evaluation by a  
14 professional engineer or licensed architect of all energy systems and  
15 components by demand and type of energy including the internal energy  
16 load imposed on a major facility by its occupants, equipment, and  
17 components, and the external energy load imposed on a major facility by  
18 the climactic conditions of its location; an energy consumption analysis  
19 of the operation of energy systems of a major facility shall include,  
20 but not be limited to, the following elements:

21                   (A) the comparison of three or more system alternatives;

22                   (B) the simulation of each system over the entire range  
23 of operation of such facility for a year's operating period; and

24                   (C) the evaluation of the energy consumption of com-  
25 ponent equipment in each system considering the operation of such  
26 components at other than full or rated outputs;

27           (9) "energy systems" means all utilities, including, but not  
28 limited to, heating, air-conditioning, ventilating, lighting, and the  
29 supplying of domestic hot water;

1 (10) "initial cost" means the money required for the capital  
2 construction or renovation of a major facility;

3 (11) "major facility" means any publicly owned or leased  
4 building having 10 thousand square feet or more of useable floor space;

5 (12) "partial life-cycle cost" means the cost of a major  
6 facility including its initial cost, the cost of the energy consumed  
7 over its economic life, and the energy consumption related cost of its  
8 operation and maintenance;

9 (13) "partial life-cycle cost analysis" includes, but is not  
10 limited to the following elements:

11 (A) the coordination and positioning of a major  
12 facility on its physical site;

13 (B) the amount and type of fenestration employed in a  
14 major facility;

15 (C) the amount of insulation incorporated into the  
16 design of a major facility;

17 (D) the variable occupancy and operating conditions of  
18 a major facility; and

19 (E) an energy-consumption analysis of a major facility;

20 (14) "public agency" means every state office, officer, board,  
21 commission, committee, bureau, department, home rule or general law city  
22 or borough, including but not limited to a unified municipality under  
23 AS 29.68;