GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2001

SENATE BILL 1077

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Short Title:	Energy Conservation/Pilot Program.	(Public)
Sponsors:	Senators Lee; Carter, Garwood, and Kinnaird.	
Referred to:	Commerce.	

April 5, 2001

1		A BILL TO BE ENTITLED
2	AN ACT	REQUIRING STATE AGENCIES TO USE LIFE-CYCLE COST
3	ANALYS	IS FOR THE DESIGN, CONSTRUCTION, OPERATION,
4	MAINTE	NANCE, AND RENOVATION OF STATE FACILITIES AND FOR
5	THE PUF	CHASE, OPERATION, AND MAINTENANCE OF EQUIPMENT FOR
6	THESE F	ACILITIES AND IMPLEMENTING A PILOT PROGRAM TO REVIEW
7	THE US	E OF THE TRIANGLE J COUNCIL OF GOVERNMENTS' HIGH
8	PERFOR	MANCE GUIDELINES IN THE RENOVATION OR CONSTRUCTION
9	OF STAT	E FACILITIES.
10	The General	Assembly of North Carolina enacts:
11		CTION 1. G.S. 143-64.10(a) reads as rewritten:
12	"(a) Th	e General Assembly hereby finds:
13	(1)	
14		undertaking energy conservation in North Carolina;
15	(2)	
16		consumption of energy;
17	(3)	
18		construction, operation, maintenance, and renovation of these facilities
19		and for the purchase, operation, and maintenance of equipment for
20		these facilities will have a beneficial effect on the State's overall
21		supply of energy;
22	(4)	
23		equipment for these facilities over the life of the facilities mustshall be
24		considered, in addition to the initial cost;
25	(5)	
26		take into consideration the total life-cycle cost, including the initial
27		construction cost, and the cost, over the economic life of the facility, of

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1 2 3 4 5 6	 the energy consumed, and of operation and maintenance of the facility as it affects energy consumption; and (6) That State government shouldshall undertake a program to reduce energy use in State facilities and equipment in those facilities in order to provide its citizens with an example of energy-use efficiency." SECTION 2. G.S. 143-64.11(2a) reads as rewritten:
7	"For purposes of this Article:
8	
9	(2a) <u>"Energy Division" Energy Office</u> means the <u>State</u> Energy
10 11	DivisionOffice of the Department of Commerce.Administration.
12	SECTION 3. G.S. 143-64.12 reads as rewritten:
13	"§ 143-64.12. Authority and duties of State agencies.
14	(a) The General Assembly authorizes and directs that State agencies shall carry
15	out the construction and renovation of State facilities, under their jurisdiction in such a
16	manner as to further the policy declared herein, insuring thatensuring the use of
17	life-cycle cost analyses and energy-conservation practices are considered and are
18	employed whenever feasible and practicable.practices.
19	(b) The Department of Administration shall, to the extent feasible and
20	practicable, shall develop and implement policies, procedures, and standards to ensure
21	that State purchasing practices improve energy efficiency and take the cost of the
22 23	product over the economic life of the product into consideration. The Department of Administration shall adopt and implement Building Energy Design Guidelines. These
23 24	guidelines shall include energy-use goals and standards, economic assumptions for
25	life-cycle cost analysis, and other criteria on building systems and technologies. The
26	Department of Administration shall modify the design criteria for construction and
27	renovation of facilities to require that a life-cycle cost analysis be conducted pursuant to
28	G.S. 143-64.15. The Department of Administration, as part of the Facilities Condition
29	and Assessment Program, shall identify and recommend energy conservation
30	maintenance and operating procedures that are designed to reduce energy consumption
31	within the facility and that require no significant expenditure of funds. State
32	departments, institutions, or agencies shall implement these recommendations. Where
33	energy management equipment is proposed for State facilities, the maximum
34 35	interchangeability and compatibility of equipment components shall be required. The Department of Administration shall develop a comprehensive energy
36	management program for State government. Each State agency shall develop and
37	implement an energy management plan that is consistent with the State's comprehensive
38	energy management program.
39	(c) through (g) Repealed by Session Laws 1993, c. 334, s. 4."
0	SECTION 4. G.S. 143-64.15(c) reads as rewritten:
1	"(c) The General Assembly encourages anyrequires each entity to conduct a
2	life-cycle cost analysis pursuant to this section for the construction of any State-assisted
.3	facility or the renovation of any State-assisted facility of 40,000 or more gross square
4	feet."

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SECTION 5. G.S. 143-64.15(f) reads as rewritten:

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2	"(f) Selection of the optimum system or combination of systems to be
3	incorporated into the design of the facility shall take into consideration the life-cycle
4	cost analysis over the economic life of the facility. Each State agency shall use the life-
5	cycle cost analysis over the economic life of the facility in selecting the optimum
6	system or combination of systems to be incorporated into the design of the facility."
7	SECTION 6. Part 1 of Article 3B of Chapter 143 of the General Statutes is
8	amended by adding a new section to read:
9	"§ 143-64.15A. Certification of life-cycle cost analysis.
10	Any State agency performing a life-cycle cost analysis for the purpose of
11	constructing or renovating any State facility shall, before selecting a design option,
12	submit the life-cycle cost analysis to the Department of Administration for certification.
13	The Department shall review the material submitted by the State agency and perform
14	any additional analysis, as necessary, to comply with G.S. 143-341(11)."
15	SECTION 7.(a) Triangle J Guidelines Pilot Program. – The General
16	Assembly recognizes the State's need to understand how energy conservation measures
17	are utilized in the construction or renovation of State facilities and how these measures
18	benefit the State through cost savings and the protection of our natural resources. The
19	General Assembly promotes the use of the Triangle J Council of Governments' High
20	Performance Guidelines to achieve these goals and encourages any State entity to rate
21	itself in accordance with these guidelines for the design, construction, operation,
22	maintenance, or renovation of any State-assisted or State-owned facility.
23	SECTION 7.(b) To accomplish the goals described in Section 7(a) of this
24	act, the Department of Administration shall implement a pilot program to review the use
25 26	of the Triangle J Guidelines in projects for the renovation or construction of State
26 27	facilities. The Board of Covernors of The University of North Caroline shell select at
27	The Board of Governors of The University of North Carolina shall select at least four projects to participate in the pilot program, and the State Board of Community
28 29	Colleges and the State Budget Office shall select at least three projects to participate in
30	the program. One-third of the projects participating in this program shall be projects for
31	the repair or renovation of a State facility, and the remaining projects shall be projects
32	for the construction of State facilities.
33	SECTION 7.(c) The Department of Administration shall oversee the pilot
34	program, and each entity involved shall submit all applicable information to the
35	Department as it deems necessary, including compiling and submitting energy usage
36	and cost data. The program shall include a one-year postoccupancy evaluation that shall
37	be included as part of the evaluation of the Triangle J Guidelines for each facility. The
38	entities participating in this program shall explore the concept of a "sustainably
39	designed facility" in assessing the use of the Triangle J Guidelines for these projects.
40	For purposes of this section, "sustainably designed facility" means a building and
41	surrounding environs designed using features that are energy efficient, incorporate
42	reusable and renewable resources, provide natural lighting, are nontoxic, require low
43	maintenance, are congruent with the natural characteristics of the site, and cause

1 minimum adverse impact to the environment as enacted in Section 2(11) of S.L.2 2000-143.

3 **SECTION 7.(d)** The Department of Administration shall submit an interim 4 report on the implementation of this program to the Senate and House of 5 Representatives Chairs of the Appropriations Committee, Chairs of General 6 Government Appropriations Subcommittee, and the Joint Legislative Commission on 7 Governmental Operations not later than December 15, 2002. The report shall discuss the 8 benefits of using the Triangle J Guidelines and make recommendations regarding the 9 use of the Triangle J Guidelines in the projects participating in the program and other projects. The Department of Administration shall submit a final report to the Senate and 10 11 House of Representatives Chairs of the Appropriations Committee, Chairs of General 12 Government Appropriations Subcommittee, and the Joint Legislative Commission on 13 Governmental Operations not later than 18 months after completion of the last project participating in this program, if practicable. 14

15 **SECTION 7.(e)** This act shall not be construed to obligate the General 16 Assembly to appropriate funds to implement the Triangle J Guidelines pilot program.

SECTION 8. This act becomes effective July 1, 2001.

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