GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2021

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HOUSE BILL 245 Committee Substitute Favorable 3/23/21

	Short Title:Efficient Government Buildings & Savings Act.(Public)
	Sponsors:
	Referred to:
	March 10, 2021
l	A BILL TO BE ENTITLED
2	AN ACT TO SAVE NORTH CAROLINA TAXPAYER DOLLARS BY REQUIRING
3	REDUCTIONS IN ENERGY AND WATER CONSUMPTION IN PUBLIC BUILDINGS
1	BY 2028.
5	The General Assembly of North Carolina enacts:
5	SECTION 1.(a) G.S. 143-64.12 reads as rewritten:
7	"§ 143-64.12. Authority and duties of the Department; State agencies and State institutions
3	of higher learning.

The Department of Environmental Quality through the State Energy Office shall 9 (a) 10 develop a comprehensive program to manage energy, water, and other utility use for State agencies and State institutions of higher learning and shall update this program annually. Each 11 12 State agency and State institution of higher learning shall develop and implement a management plan that is consistent with the State's comprehensive program under this subsection to manage 13 14 energy, water, and other utility use, and that addresses any findings or recommendations resulting from the energy audit required by subsection (b1) of this section. use. The energy consumption 15 per gross square foot for all State buildings in total shall be reduced by twenty percent (20%) by 16 17 2010 and 2010, thirty percent (30%) by 2015 2015, and forty percent (40%) by 2028 based on energy consumption for the 2002-2003 fiscal year. Each State agency and State institution of 18 higher learning shall update its management plan biennially and include strategies for supporting 19 20 the energy consumption reduction requirements under this subsection. Each community college 21 shall submit to the State Energy Office a biennial an annual written report of utility consumption 22 and costs. Management plans submitted biennially by State institutions of higher learning shall 23 include all of the following:

24

25 The Department of Administration, as part of the Facilities Condition and Assessment (b1) 26 Program, shall identify and recommend energy conservation maintenance and operating 27 procedures that are designed to reduce energy consumption within the facility of a State agency or a State institution of higher learning and that require no significant expenditure of funds. Every 28 29 State agency or State institution of higher learning shall implement these recommendations. 30 Where energy management equipment is proposed for any facility of a State agency or of a State institution of higher learning, the maximum interchangeability and compatibility of equipment 31 32 components shall be required. As part of the Facilities Condition and Assessment Program under 33 this section, the Department of Administration, in consultation with the State Energy Office, shall 34 develop an energy audit and a procedure for conducting energy audits. Every five years the 35 Department shall conduct an energy audit for each State agency or State institution of higher



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1	learning, and the energy	audits conducted shall serve as a preliminary energy	- survey. The State		
2	Energy Office shall be re	esponsible for system level detailed surveys.	·		
3	(b2) The Departm	ent of Administration shall submit a report of the end	ergy audit required		
4		nis section to the affected State agency or State in	U		
5	6	Energy Office. The State Energy Office shall review			
6		ected State agency or State institution of higher learni			
7	-	mendations into the management plan required by su	bsection (a) of this		
8	section.				
9	"				
10		(b) Article 3B of Chapter 143 of the General Statu	ites is amended by		
11	adding a new section to a				
12	" <u>§ 143-64.12A. Respon</u>				
13		d institutions of higher learning shall ensure that ligh			
14					
15					
16	-				
17		perty manager of each premises owned or leased by			
18	-	rning, or an appropriate designee, shall be respon	isible for ensuring		
19 20	compliance with this sec	<u>uon.</u> G.S. 143-64.17 reads as rewritten:			
20 21	"§ 143-64.17. Definition				
21	As used in this Part:				
22		gy conservation measure" means a facility or meter a	lteration training		
23 24		vices related to the operation of the facility or meter, v	-		
25		ng, or services provide anticipated energy savings			
26		<u>ue,</u> or capture lost revenue. Energy conservation me			
27		following:	usure merudes uny		
28	a.	Insulation of the building structure and sys	stems within the		
29		building.building, including proper building envelo			
30		of all applicable areas in the building.	<u>, </u>		
31	b.	Storm windows or doors, caulking, weatherstrip	pping, multiglazed		
32		windows or doors, heat-absorbing or heat-reflectiv			
33		window or door systems, additional glazing, reduc			
34		or other window or door system modifications t	-		
35		consumption.			
36	с.	Automatic energy control systems.			
37	d.	Heating, ventilating, or air-conditioning system	modifications or		
38		replacements.			
39	e.	Replacement or modification of lighting fixtures to			
40		efficiency of a lighting system without incre	U		
41		illumination of a facility, unless an increase i			
42		necessary to conform to the applicable State or loca	-		
43		is required by the light system after the proposed	modifications are		
44	_	made.			
45	f.	Energy recovery systems.	. .		
46	g.	Cogeneration systems that produce steam or forms			
47		heat, as well as electricity, for use primarily wi	thin a building or		
48	1	complex of buildings.			
49 50	h.	Repealed by Session Laws 2006-190, s. 2, effective	-		
50		and applicable to contracts entered into or renewo	eu on or after that		
51		date.			

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	i. Faucets with automatic or metered shut-off equipment, water meters, water recycling equi recovery systems.	
	j. Other energy conservation measures that consolite utilities.	serve energy, water, or
	k. Building analytics systems that allow for adva	nced software utilizing
	statistical modeling and machine learning,	
	unsupervised, to establish data-driven bench	_
	energy performance, and find additional energy	•
(2)	"Energy savings" means a measured reduction in fu	
	water costs, stormwater fees, other utility costs, or ope	erating costs, including
	environmental discharge fees, water and sewer n	naintenance fees, and
	increased meter accuracy, created from the implement	ntation of one or more
	energy conservation measures when compared with an	established baseline of
	previous costs, including captured lost revenues of	or generated revenues,
	developed by the governmental unit.	
"		
	FION 3. G.S. 143-135.37 reads as rewritten:	
	Energy and water use standards for public major fac	-
renov	vation projects; verification and reporting of energy a	and water use.
•••		
	gy-Efficiency Standard. – For every major facility con	1 0
	he building shall be designed and constructed so that	
consumption is at least thirty percent (30%) forty percent (40%) less than the energy consumption		
	ding as calculated using the energy-efficiency standard in	
•	facility renovation project of a public agency, the reno	-
0	nstructed so that the calculated energy consumption is	• •
	$\frac{1}{2}$ (30%) less than the energy consumption for the same the distribution of the same tendent in A SUB A E 00.1.2004.	
0	the energy-efficiency standard in ASHRAE 90.1-2004. I	1 1
	exception or special standard for a specific type of build luded in the ASHRAE 90.1-2004 standard.	ing lound in ASHRAE
		adility construction or
	or Potable Water Use Standard. – For every major f	-
renovation project of a public agency, the water system shall be designed and constructed so that the calculated indoor potable water use is at least twenty percent (20%) thirty percent (30%) less		
than the indoor potable water use for the same building as calculated using the fixture		
performance requirements related to plumbing under the 2006 North Carolina State Building		
Code.	anomonio related to prantonig ander the 2000 Roran e	Suronnu Stute Dunung
"		
SEC?	FION 4.(a) Each State agency and State institution of h	igher learning shall, no
	er 1, 2022, conduct a preliminary practicality and econo	0
	energy conservation measures for all buildings greater t	
	have been in use for more than 10 years. Energy cons	
III SIZE and that	conomically feasible if the resulting energy savings	
	continuently reastore in the resulting energy savings	will cover the cost of
deemed to be e	e measures within 10 years. Each State agency and Sta	
deemed to be end implementing the		te institution of higher
deemed to be en implementing the learning shall sub	e measures within 10 years. Each State agency and Sta	te institution of higher or institution of higher
deemed to be en implementing the learning shall sub learning determing	e measures within 10 years. Each State agency and Sta bmit its findings to the State Energy Office. If the agency	te institution of higher or institution of higher to implement energy
deemed to be ex- implementing the learning shall sub- learning determing conservation mea	e measures within 10 years. Each State agency and Sta bmit its findings to the State Energy Office. If the agency ines that it is not practical or economically feasible	te institution of higher or institution of higher to implement energy include findings of fact
deemed to be ex- implementing the learning shall sub- learning determing conservation mean supporting that do agency or State	e measures within 10 years. Each State agency and Sta bmit its findings to the State Energy Office. If the agency ines that it is not practical or economically feasible asures, the agency or institution of higher learning shall determination in the findings it submits to the State Ene institution of higher learning determines that it is prac-	te institution of higher or institution of higher to implement energy include findings of fact rgy Office. If the State tical and economically
deemed to be ex- implementing the learning shall sub- learning determing conservation means supporting that do agency or State feasible to implement	e measures within 10 years. Each State agency and State bmit its findings to the State Energy Office. If the agency ines that it is not practical or economically feasible asures, the agency or institution of higher learning shall determination in the findings it submits to the State Ene	te institution of higher or institution of higher to implement energy include findings of fact rgy Office. If the State tical and economically ution of higher learning

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for a guaranteed energy savings contract for all covered buildings owned by the agency or institution of higher learning. If the agency or institution of higher learning issues a request for proposal for a guaranteed energy savings contract for one or more buildings, the agency or institution of higher learning shall issue the request for proposal no later than April 1, 2023. The agency or institution of higher learning shall follow the process provided in Part 2 of Article 3B of Chapter 143 of the General Statutes. The definitions provided in G.S. 143-64.17 shall apply for purposes of this section.

8 **SECTION 4.(b)** No later than October 1, 2027, each State agency and State 9 institution of higher learning shall repeat the process set forth in subsection (a) of this section for 10 all buildings greater than 10,000 square feet in size and that have been in use for more than 10 11 years. If the agency or institution of higher learning issues a request for proposal for a guaranteed 12 energy savings contract for one or more buildings, the agency or institution of higher learning 13 shall issue the request for proposal no later than April 1, 2028.

14 **SECTION 4.(c)** This section shall not apply to any building for which a practicality 15 and economic feasibility analysis of implementing energy conservation measures has been 16 conducted within three years prior to the effective date of this section.

SECTION 4.(d) This section is effective when it becomes law. This section shall
not be interpreted to prohibit any State agency or State institution of higher learning from issuing
any request for proposal for a guaranteed energy savings contract.

20 **SECTION 5.(a)** For purposes of this act, "State institution of higher learning" has 21 the same meaning as in G.S. 143-64.11.

SECTION 5.(b) This act shall apply only to State buildings managed by the
Department of Administration pursuant to Article 36 of Chapter 143 of the General Statutes and
State institutions of higher learning.

SECTION 6. Except as otherwise provided, this act is effective when it becomes law. Section 3 of this act applies to every major facility construction project and every major facility renovation project of a public agency, as those terms are defined in G.S. 143-135.36, that has not entered the schematic design phase prior to the effective date of this act.