## GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2023

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## H.B. 570 Apr 4, 2023 HOUSE PRINCIPAL CLERK

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## HOUSE BILL DRH30139-MC-96

Short Title:	Efficient Government Buildings & Savings Act.	(Public)
Sponsors:	Representative Zenger.	
Referred to:		

1	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			
4	BY 2030.			
5	The General Assembly of North Carolina enacts:			
6	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			
8	of higher learning.			
9	(a) The Department of Environmental Quality through the State Energy Office shall			
10	develop a comprehensive program to manage energy, water, and other utility use for State			
11	agencies and State institutions of higher learning and shall update this program annually. Each			
12	State agency and State institution of higher learning shall develop and implement a management			
13	plan that is consistent with the State's comprehensive program under this subsection to manage			
14	energy, water, and other utility use, and that addresses any findings or recommendations resulting			
15	from the energy audit required by subsection (b1) of this section. use. The energy consumption			
16	per gross square foot for all State buildings in total shall be reduced by twenty percent (20%) by			
17	<del>2010 and 2010, thirty percent (30%) by 2015 2015, and forty percent (40%) by 2030 based on</del>			
18	energy consumption for the 2002-2003 fiscal year. Each State agency and State institution of			
19	higher learning shall update its management plan biennially and include strategies for supporting			
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 (b1) The Department of Administration, as part of the Facilities Condition and Assessment Program, shall identify and recommend energy conservation maintenance and operating 26 27 procedures that are designed to reduce energy consumption within the facility of a State agency 28 or a State institution of higher learning and that require no significant expenditure of funds. Every 29 State agency or State institution of higher learning shall implement these recommendations. Where energy management equipment is proposed for any facility of a State agency or of a State 30 31 institution of higher learning, the maximum interchangeability and compatibility of equipment 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 responsible for system-level detailed surveys.					
3	(b2) The Departm					
4	by subsection (b1) of the	by subsection (b1) of this section to the affected State agency or State institution of higher				
5	learning and to the State Energy Office. The State Energy Office shall review each audit and, in					
6	consultation with the affected State agency or State institution of higher learning, incorporate the					
7	audit findings and recom	mendations into the management plan required by subsection (a	t <del>) of this</del>			
8	section.					
9	" ••••					
10	<b>SECTION 1.(b)</b> Article 3B of Chapter 143 of the General Statutes is amended by					
11	adding a new section to read:					
12	" <u>§ 143-64.12A. Responsible lights out.</u>					
13	All State agencies and institutions of higher learning shall ensure that lighting in unoccupied					
14	interior spaces and upward-directed flood lighting is turned off, where feasible, on the premises					
15	of all buildings owned or leased by the State agency or institution of higher learning from					
16	midnight until 6:00 A.M., unless required for safety, emergency, or insurance purposes. The					
17	building manager or property manager of each premises owned or leased by a State agency or					
18	institution of higher learning, or an appropriate designee, shall be responsible for ensuring					
19	compliance with this sec					
20		. G.S. 143-64.17 reads as rewritten:				
21	"§ 143-64.17. Definition	ns.				
22	As used in this Part:					
23		gy conservation measure" means a facility or meter alteration, t	-			
24		vices related to the operation of the facility or meter, when the al				
25		ng, or services provide anticipated energy savings savings, s				
26		<u>ue, or capture lost revenue. Energy conservation measure inclu</u>	ides any			
27	of the	e following:				
28	а.	Insulation of the building structure and systems with				
29		building.building, including proper building envelope and duct	<u>t sealing</u>			
30		of all applicable areas in the building.				
31	b.	Storm windows or doors, caulking, weatherstripping, mul				
32		windows or doors, heat-absorbing or heat-reflective glazed o				
33		window or door systems, additional glazing, reductions in gla				
34		or other window or door system modifications that reduce	energy			
35		consumption.				
36	с.	Automatic energy control systems.				
37	d.	Heating, ventilating, or air-conditioning system modificat	tions or			
38		replacements.				
39	e.	Replacement or modification of lighting fixtures to increase the				
40		efficiency of a lighting system without increasing the				
41		illumination of a facility, unless an increase in illumin				
42		necessary to conform to the applicable State or local building				
43		is required by the light system after the proposed modificat	ions are			
44	c	made.				
45	f.	Energy recovery systems.	1			
46	g.	Cogeneration systems that produce steam or forms of energy				
47 49		heat, as well as electricity, for use primarily within a buil	laing or			
48	1	complex of buildings.	2 2005			
49 50	h.	Repealed by Session Laws 2006-190, s. 2, effective August 2 and applicable to contracts entered into or renewed on or a				
50 51		and applicable to contracts entered into or renewed on or a	ner mat			
51		date.				

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1	i.	Faucets with automatic or metered shu			
2 3		equipment, water meters, water recyclin recovery systems.	g equipment, and wastewater		
3 4	j.	Other energy conservation measures that	at conserve energy water or		
5	J·	other utilities.	at conserve energy, water, or		
6	<u>k.</u>	Building analytics systems that allow fo	r advanced software utilizing		
7	<u>K.</u>	statistical modeling and machine learn	<b>-</b>		
8		unsupervised, to establish data-driven	• •		
9		energy performance, and find additional	-		
10	(2) "Ener	gy savings" means a measured reduction			
11		costs, stormwater fees, other utility costs,			
12		onmental discharge fees, water and se	· · · ·		
13		ased meter accuracy, created from the imp			
14		y conservation measures when compared w			
15		ous costs, including captured lost reven			
16	-	oped by the governmental unit.	<u> </u>		
17	"				
18	SECTION 3	<b>G.S.</b> 143-135.37 reads as rewritten:			
19	"§ 143-135.37. Energy	and water use standards for public maj	or facility construction and		
20	renovation j	projects; verification and reporting of en	ergy and water use.		
21					
22	(b) Energy-Effic	iency Standard For every major facili	ity construction project of a		
23	public agency, the buil	ding shall be designed and constructed s	o that the calculated energy		
24	consumption is at least the	nirty percent (30%) forty percent (40%) less	than the energy consumption		
25	for the same building as	calculated using the energy-efficiency stan	dard in ASHRAE 90.1-2004.		
26	• • •	renovation project of a public agency, the			
27	designed and constructed so that the calculated energy consumption is at least twenty percent				
28	(20%) thirty percent (30%) less than the energy consumption for the same renovated building as				
29	calculated using the energy-efficiency standard in ASHRAE 90.1-2004. For the purposes of this				
30		subsection, any exception or special standard for a specific type of building found in ASHRAE			
31		the ASHRAE 90.1-2004 standard.			
32		ble Water Use Standard. – For every m	•		
33	1 0 1	bublic agency, the water system shall be des	-		
34 25	the calculated indoor potable water use is at least twenty percent (20%) thirty percent (30%) less				
35	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				
36 37	Code.	his related to plumbing under the 2006 N	orth Carolina State Building		
38		able Water Use Standard. – For every majo	r facility construction project		
38 39		vater system shall be designed and construct			
40		vater use and the harvested stormwater use			
41	-	outdoor potable water use and the harvested	• •		
42		sing the performance requirements related			
43	0	Building Code. Weather-based irrigation of	1 0		
44		ajor facility construction projects. For every			
45	•	cy, the Department shall determine on a	• •		
46		potable use or harvested stormwater use, if			
47	for the project. <u>Whenever practicable, every major facility construction project or major facility</u>				
48	renovation project of a public agency shall maintain or restore the predevelopment hydrology to				
49	reduce the rate and volume of stormwater runoff. The Department shall not require a greater				
50		red under this subsection for a major faci			
51	reduce the potable out	loor water as required under this subsection	ion, weather-based irrigation		

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controllers, landscape materials that are water use efficient, and irrigation strategies that include
 reuse and recycling of the water may be used.

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4 **SECTION 4.(a)** Each State agency and State institution of higher learning shall, no 5 later than October 1, 2024, conduct a preliminary practicality and economic feasibility analysis 6 of implementing energy conservation measures for all buildings greater than 20,000 square feet 7 in size and that have been in use for more than 10 years. Energy conservation measures are 8 deemed to be economically feasible if the resulting energy savings will cover the cost of 9 implementing the measures within 10 years. Each State agency and State institution of higher 10 learning shall submit its findings to the State Energy Office. If the agency or institution of higher 11 learning determines that it is not practical or economically feasible to implement energy 12 conservation measures, the agency or institution of higher learning shall include findings of fact 13 supporting that determination in the findings it submits to the State Energy Office. If the State 14 agency or State institution of higher learning determines that it is practical and economically 15 feasible to implement energy conservation measures, the agency or institution of higher learning 16 shall do so. The energy conservation measures may be achieved by issuing a request for proposal 17 for a guaranteed energy savings contract for all covered buildings owned by the agency or 18 institution of higher learning. If the agency or institution of higher learning issues a request for 19 proposal for a guaranteed energy savings contract for one or more buildings, the agency or 20 institution of higher learning shall issue the request for proposal no later than April 1, 2025. The 21 agency or institution of higher learning shall follow the process provided in Part 2 of Article 3B 22 of Chapter 143 of the General Statutes. The definitions provided in G.S. 143-64.17 shall apply 23 for purposes of this section.

SECTION 4.(b) No later than October 1, 2029, each State agency and State institution of higher learning shall repeat the process set forth in subsection (a) of this section for all buildings greater than 10,000 square feet in size and that have been in use for more than 10 years. 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, 2030.

30 **SECTION 4.(c)** This section shall not apply to any building for which a practicality 31 and economic feasibility analysis of implementing energy conservation measures has been 32 conducted within three years prior to the effective date of this section.

33 **SECTION 4.(d)** In implementing this section, a State agency or State institution of 34 higher learning may include additional improvements and upgrades to provide healthy indoor 35 environments, increase resilience, conserve water resources, and apply to building sustainability 36 rating or certification systems.

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

40 **SECTION 5.(a)** For purposes of this act, "State institution of higher learning" has 41 the same meaning as in G.S. 143-64.11.

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

45 **SECTION 6.** Except as otherwise provided, this act is effective when it becomes 46 law. Section 3 of this act applies to every major facility construction project and every major 47 facility renovation project of a public agency, as those terms are defined in G.S. 143-135.36, that 48 have not entered the schematic design phase prior to the effective date of this act.