GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2013

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PRINCIPAL CLERK

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SENATE DRS15170-MH-79 (3/5)

Short Title: Energy/Water Benchmarking for State Buildngs. (Public)

Sponsors: Senator Stein (Primary Sponsor).

Referred to:

A BILL TO BE ENTITLED

AN ACT TO FOSTER WISE STEWARDSHIP OF PUBLIC FUNDS BY ESTABLISHING A SYSTEM OF ENERGY AND WATER USE BENCHMARKING FOR CERTAIN BUILDINGS OWNED OR LEASED BY THE STATE.

Whereas, the General Assembly desires to grow the 21st century economy by removing barriers to smart decision making that will enable investment in, and returns from, better building systems, management, and operations; and

Whereas, the General Assembly recognizes the value of measurement and transparency as important tools to enable effective management of resources; and

Whereas, in order to have a significant impact on community-wide energy and water use in the coming decades, it is imperative that efficiency savings be achieved in buildings constructed prior to the adoption of current codes; and

Whereas, systems for lighting, heating, cooling, ventilation, plumbing, sewage conveyance, irrigation, and other services in public buildings require regular tuning to operate as designed, as well as periodic retrofits to meet modern standards for efficient use of energy and water; and

Whereas, by ensuring that the State is informed about the full set of opportunities to cost-effectively improve energy and water use efficiency in public buildings, and how those buildings are performing relative to a national baseline, public building decision makers will have incentive to make decisions in their own interest, to reduce utility costs, and provide wise stewardship of public funds; and

Whereas, the evaluation, upgrade, and optimized operation of public buildings will expand opportunities for skilled jobs in construction trades, engineering, operations, sales, and innovative technologies. Investing in energy efficiency will contribute to stable, long-term economic growth, encourage job creation, and enhance stewardship of natural resources; and

Whereas, cost-effective energy and water efficiency improvements are proven to lower building operating costs; and

Whereas, building energy and water efficiency is a core strategy to avoid the need for additional electric generating capacity and reduces the otherwise increasing strain on precious water resources; and

Whereas, the U.S. EPA's ENERGY STAR Portfolio Manager is both widely accepted as the national benchmarking tool of choice for both building energy use and building water use and is also free of charge; and

Whereas, public policy that promotes healthy, resilient, high-performing building operations and management complements existing policies relating to energy efficiency in newly constructed State buildings; Now, therefore,



General Assembly of North Carolina Session 2013 1 The General Assembly of North Carolina enacts: 2 **SECTION 1.** Chapter 143 of the General Statutes is amended by adding a new 3 Article to read: 4 "Article 8D. 5 "Energy and Water Use Benchmarking for Public Buildings. 6 "§ 143-135.45. Definitions. 7 The following definitions apply in this Article: 8 Benchmark. - Together with derivatives of the term, means the input of <u>(1)</u> 9 critical building information observed and recorded from building operations 10 and use into a tool intended for comparative analysis of established baselines 11 for building type, size, use, and location using the following procedures: Benchmarking building energy use means to input the total energy 12 13 consumed for a building during a 12-month period and other 14 benchmarking information as required by the ENERGY STAR 15 Portfolio Manager tool and to display results. 16 Benchmarking building water use means to input the total water <u>b.</u> 17 consumed for a building during a 12-month period and other benchmarking information as required by the ENERGY STAR 18 19 Portfolio Manager tool and to display results. 20 (2) Benchmarking information. – Information related to a building's energy 21 consumption and a building's water consumption, as generated by ENERGY 22 STAR Portfolio Manager, and descriptive information about the physical 23 building and its operational characteristics. The information shall include at 24 a minimum the following: 25 The building address. a. 26 <u>b.</u> Weather-normalized energy use intensity (EUI). 27 Annual carbon emissions. <u>c.</u> 28 <u>d.</u> Water use per gross square foot. 29 The energy performance score, including a comparison of the <u>e.</u> 30 building's performance in the areas benchmarked to that of similar 31 buildings, where available. Building Benchmarking Plan. - A written strategy to measure 32 (3) 33 building-related information associated with the benchmarking requirements 34 of this Article and establish protocols for informing action when 35 benchmarking results suggest a need for action. A Building Benchmarking 36 Plan must be updated once every five years. 37 Department. – The Department of Administration. (4) Energy. – Electricity, natural gas, steam, heating oil, or other product sold by 38 **(5)** 39 a utility to a customer of a building, or renewable on-site electricity 40 generation, for purposes of providing heating, cooling, lighting, water heating, or for powering or fueling other end-uses in the building and related 41 42 facilities. Energy performance score. – A numeric rating on a scale of one to 100 that 43 (6) 44 compares the energy usage of the building to that of similar buildings 45 generated by the ENERGY STAR Portfolio Manager. ENERGY STAR Portfolio Manager. - The tool developed and maintained 46 (7)

by the U.S. Environmental Protection Agency to track and assess the relative

Public building. – Any building of at least 10,000 gross square feet in area

that is owned by the State and has been occupied for at least 18 months and

energy performance and water performance of buildings nationwide.

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that is equipped with meters that measure water, electricity, and any other fuel consumed by the building.

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Public leased building. – A building of at least 10,000 gross square feet in <u>(9)</u> area where more than 5,000 rentable square feet is leased or rented by the State and occupied for at least 18 months.

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"§ 143-135.46. Benchmarking requirement.

Requirements. – All public buildings shall be annually benchmarked for building energy use and building water use for the previous fiscal year by the Department. The Department shall make a request to owners of public leased buildings for annual benchmarking and shall include an annual benchmarking requirement in any lease renewal for a public leased building or in any Request for Proposal issued to potential lessors for leased space that would meet the definition of a public leased building. Benchmarking shall be conducted in accordance with the schedule outlined in this section. Disclosure of benchmarking information shall be in accordance with G.S. 143-135.47.

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Schedule. – All public buildings shall be benchmarked on an annual basis no later than October 1 in accordance with the rules and procedures promulgated by the Department. The following shall be required by January 1 for the first year in which a public building or covered building is to be benchmarked:

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All available benchmarking information from the previous year collected (1) and accessible to the building owner.

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Building Benchmarking Plan. (2)

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"§ 143-135.47. Reporting and public disclosure of benchmarking information.

Annual Reporting for Public Buildings. – No later than April 1 after completing annual benchmarking for the prior fiscal year, the Department shall create a plan of action to unlock the cost-savings potential of information gathered from the benchmarking process, recommending improvements to building systems, equipment, materials, policies, and procurement.

(b) Disclosure of Benchmarking Information for Public Buildings. - The Department shall publish on its Web site and other means in its discretion the benchmarking information in accordance with rules and procedures established by the Department no later than one month after the date required for benchmarking completion in G.S. 143-135.46. Annual reporting of the information required in subsection (a) of this section shall be made public and available on the Department's Web site at the time of its publication.

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"§ 143-135.48. Rule-making authority.

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The Department of Administration shall promulgate any rules it deems necessary to carry out the provisions of this Article."

SECTION 2. This act is effective when it becomes law.