THE GENERAL ASSEMBLY OF PENNSYLVANIA

SENATE BILL No. 1061 ^{Session of} 2013

INTRODUCED BY RAFFERTY, FERLO, YUDICHAK, FONTANA, TEPLITZ, WASHINGTON, ERICKSON, BOSCOLA, WAUGH, BREWSTER, SCHWANK, COSTA, FARNESE, BROWNE, DINNIMAN AND SMITH, JULY 19, 2013

SENATOR YAW, ENVIRONMENTAL RESOURCES AND ENERGY, AS AMENDED, OCTOBER 6, 2014

AN ACT

1 2	Requiring the design, construction and renovation of certain State buildings to comply with specified energy and	<
3	environmental building standards.	
4	REQUIRING THE DESIGN, CONSTRUCTION AND RENOVATION OF CERTAIN	<
5	STATE-OWNED OR STATE-LEASED BUILDINGS TO COMPLY WITH	•
6	SPECIFIED ENERGY AND ENVIRONMENTAL BUILDING STANDARDS; AND	
7	PROVIDING FOR THE POWERS AND DUTIES OF THE DEPARTMENT OF	
8	GENERAL SERVICES.	
0	GENERAL SERVICES.	
9	The General Assembly of the Commonwealth of Pennsylvania	
10	hereby enacts as follows:	
11	Section 1. Short title.	<
12	This act shall be known and may be cited as the High-	
	THIS act shall be known and may be cited as the high-	
13	Performance State Government Buildings Standards Act.	
14	Section 2. Purpose.	
15	The General Assembly declares the purposes of this act as	
16	follows:	
17	(1) To promote effective energy and environmental	
1.0		
18	standards for construction, rehabilitation and maintenance of	-
19	buildings in this Commonwealth.	
20	(2) To optimize the energy performance of buildings	

1	throughout this Commonwealth.
2	(3) To increase the demand for environmentally-
3	preferable building materials, finishes and furnishings.
4	(4) To improve environmental quality in this
5	Commonwealth by decreasing the discharge of pollutants from
6	buildings and their manufacture.
7	(5) To create public awareness of new technologies that
8	can improve the health and productivity of building occupants-
9	by meeting advanced criteria for indoor air quality.
10	(6) To improve working conditions and reduce building-
11	related health problems.
12	(7) To reduce State government dependence upon imported
13	sources of energy through buildings that conserve energy and
14	utilize local and renewable energy sources.
15	(8) To protect and restore this Commonwealth's natural
16	resources by avoiding development of inappropriate building
17	sites.
18	(9) To reduce the burden on municipal water supply and
19	treatment by reducing potable water consumption.
20	(10) To reduce waste generation and to manage waste
21	through recycling and diversion from landfill disposal.
22	(11) To improve State government capacity to design,
23	build and operate high performance buildings and, in doing
24	so, to create new jobs and contribute to economic growth.
25	Section 3. Definitions.
26	The following words and phrases when used in this act shall
27	have the meanings given to them in this section unless the
28	context clearly indicates otherwise:
29	"Building project." The design, construction or renovation
30	of any inhabited physical structure and its associated project
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building site. 1 2 "Commonwealth agency." An executive agency, an independent 3 agency, a State affiliated entity or State related institution as defined by 62 Pa.C.S. § 103 (relating to definitions). The-4 term also includes the General Assembly, its officers and 5 agencies and the unified judicial system and its officers and 6 7 agencies. 8 "Department." The Department of General Services of the 9 Commonwealth. 10 "High-performance building." A building designed to achieveintegrated systems design and construction so as to 11 significantly reduce or eliminate the negative impact of the 12 13 built environment. 14 "Major facility project." Any of the following: 15 (1) A State-owned construction project in which the 16 building to be constructed is larger than 10,000 gross square feet. 17 18 (2) A State-owned building renovation project where the-19 State funding exceeds either 50% of the construction cost or \$500,000 in State funds. 20 21 (3) A new construction project in which the building to 22 be constructed is more than 10,000 gross square feet and in-23 which building a Commonwealth agency has agreed to lease 90%-24 of the gross square feet. 25 The term does not include a building, regardless of size, that 26 does not have conditioned space as defined by Standard 90.1 of the American Society of Heating, Refrigerating and Air-27 28 Conditioning Engineers, referred to as ASHRAE 90.1. 29 "Renovation project." A building project involving themodification or adaptive reuse of an existing facility. 30

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1 Section 4. Standards.

2	(a) Minimum criteria. The high performance building
3	standards applicable to this act shall meet the following
4	minimum criteria:
5	(1) Be consensus based, as defined by the Office of
6	Management and Budget, Circular No. A 119, dated February 10,
7	1998.
8	(2) At a minimum, include performance based categories
9	or credits that will foster achievement of the purposes set
10	forth under section 2(2), (3), (4), (6), (7), (8), (9) and
11	(10).
12	(3) Require documentation, verifiable calculations or
13	the equivalent procedure to substantiate and support any
14	claim made relating to paragraph (2).
15	(4) Employ third-party, postconstruction review and
16	verification for achievement of certification.
17	(5) Have been applied to green buildings in the United
18	States, buildings which have been certified by an approved
19	building agency.
20	(b) Level of performance. The performance required under-
21	the adopted high-performance building standards shall be at or
22	above the level beyond the minimum level required by the
23	selected standards.
24	(c) Energy Star ratings. In addition to meeting the
25	performance requirements of the adopted high performance
26	building standards, all projects are required to achieve an-
27	Environmental Protection Agency Energy Star rating of 85 or
28	above.
29	Section 5. Scope.
30	(a) Facilities owned by the Commonwealth.

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1	(1) All major facility projects shall meet or exceed the
2	standards as set forth under section 4 and the levels of
3	achievement as defined by the department.
4	(2) All other building projects shall meet or exceed the
5	prescribed level of achievement under the adopted high-
6	performance building standard as set forth under section 4.
7	(3) The level of achievement to be met under paragraph
8	(2) shall be set forth in the regulations adopted by the-
9	department.
10	(b) Major facility projects. When the department issues
11	funding, it shall require the use of standards adopted under-
12	section 6 during the design and construction phase of the-
13	project. Each major facility project shall meet or exceed the
14	level of achievement as set forth under section 4.
15	Section 6. Regulations.
16	(a) General ruleThe department, in consultation with the-
17	Department of Environmental Protection, shall develop and issue-
18	regulations for complying with this act. The purposes of the
19	regulations shall be to:
20	(1) Adopt high performance building standards selected
21	by the department, in consultation with the Department of
22	Environmental Protection, from among accepted industry
23	standards meeting the criteria prescribed in section 4(a).
24	(2) Define procedures and methods for verifying
25	compliance with the standards, as set forth in sections 4 and
26	5, in the design and construction of State-funded building-
27	projects under this act.
28	(b) Amendment. The department, in consultation with the
29	Department of Environmental Protection, may amend the
30	regulations as necessitated by the emergence of new or modified

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1	high performance building standards as defined under section 4.
2	Section 7. Report.
3	The department shall prepare and submit annually a report to-
4	the chairman and the minority chairman of the Environmental
5	Resources and Energy Committee of the Senate, the chairman and
6	the minority chairman of the Community, Economic and
7	Recreational Development Committee of the Senate and the
8	chairman and the minority chairman of the Environmental
9	Resources and Energy Committee of the House of Representatives.
10	The report shall at a minimum include:
11	(1) The number and type of buildings designed and
12	constructed utilizing each of the rating systems recognized
13	under this act.
14	(2) The levels of certification of each building
15	designed, constructed or renovated.
16	(3) Actual savings in energy costs.
17	(4) A description of all potential environmental
18	benefits, including, but not limited to, water resources-
19	savings and the reduction of waste generation.
20	(5) Any conflicts or barriers identified which hinder
21	the effective implementation of this act.
22	Section 8. Monitoring and evaluation.
23	The department, in consultation with the Department of
24	Environmental Protection, shall develop and implement a process-
25	to monitor and evaluate the energy and environmental benefits
26	associated with each building project designed, constructed or
27	renovated under this act. The monitoring and evaluation of each-
28	building project shall commence one year after the completion
29	and occupancy of the building project and continue for five-
30	years.

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1	Section 9. Applicability.
2	This act shall apply as follows:
3	(1) The provisions of this act shall apply to all
4	project design contracts initiated on or after the effective-
5	date of this section.
6	(2) The provisions of this act shall apply to all
7	project construction contracts initiated one year after the
8	effective date of this section.
9	Section 10. Effective date.
10	This act shall take effect as follows:
11	(1) Section 5 shall take effect in one year.
12	(2) The remainder of this act shall take effect in 60-
13	days.
14	SECTION 1. SHORT TITLE. <
15	THIS ACT SHALL BE KNOWN AND MAY BE CITED AS THE HIGH-
16	PERFORMANCE STATE BUILDING STANDARDS ACT.
17	SECTION 2. PURPOSE.
18	THE GENERAL ASSEMBLY DECLARES THE PURPOSES OF THIS ACT AS
19	FOLLOWS:
20	(1) TO PROMOTE EFFECTIVE ENERGY AND ENVIRONMENTAL
21	STANDARDS FOR CONSTRUCTION, REHABILITATION AND MAINTENANCE OF
22	BUILDINGS IN THIS COMMONWEALTH.
23	(2) TO OPTIMIZE THE ENERGY PERFORMANCE OF COMMONWEALTH
24	BUILDINGS.
25	(3) TO INCREASE THE DEMAND FOR ENVIRONMENTALLY
26	PREFERABLE BUILDING MATERIALS, FINISHES AND FURNISHINGS.
27	(4) TO IMPROVE ENVIRONMENTAL QUALITY IN THIS
28	COMMONWEALTH BY DECREASING THE DISCHARGE OF POLLUTANTS FROM
29	BUILDINGS AND THEIR MANUFACTURE.
30	(5) TO CREATE PUBLIC AWARENESS OF NEW TECHNOLOGIES THAT

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CAN IMPROVE THE HEALTH AND PRODUCTIVITY OF BUILDING OCCUPANTS
 BY MEETING ADVANCED CRITERIA FOR INDOOR AIR QUALITY.

3 (6) TO IMPROVE WORKING CONDITIONS AND REDUCE BUILDING4 RELATED HEALTH PROBLEMS.

5 (7) TO REDUCE THIS COMMONWEALTH'S DEPENDENCE UPON
6 IMPORTED SOURCES OF ENERGY THROUGH BUILDINGS THAT CONSERVE
7 ENERGY AND UTILIZE LOCAL AND RENEWABLE ENERGY SOURCES.

8 (8) TO PROTECT AND RESTORE THIS COMMONWEALTH'S NATURAL
 9 RESOURCES BY AVOIDING DEVELOPMENT OF INAPPROPRIATE BUILDING
 10 SITES.

11 (9) TO REDUCE THE BURDEN ON MUNICIPAL WATER SUPPLY AND
 12 TREATMENT BY REDUCING POTABLE WATER CONSUMPTION.

13 (10) TO REDUCE WASTE GENERATION AND TO MANAGE WASTE
 14 THROUGH RECYCLING AND DIVERSION FROM LANDFILL DISPOSAL.

15 (11) TO IMPROVE THE COMMONWEALTH'S CAPACITY TO DESIGN,
16 BUILD AND OPERATE HIGH-PERFORMANCE BUILDINGS AND, IN DOING
17 SO, TO CREATE NEW JOBS AND CONTRIBUTE TO ECONOMIC GROWTH.
18 SECTION 3. DEFINITIONS.

19 THE FOLLOWING WORDS AND PHRASES WHEN USED IN THIS ACT SHALL
20 HAVE THE MEANINGS GIVEN TO THEM IN THIS SECTION UNLESS THE
21 CONTEXT CLEARLY INDICATES OTHERWISE:

22 "BUILDING PROJECT." THE DESIGN, CONSTRUCTION OR RENOVATION 23 OF ANY PHYSICAL STRUCTURE AND ITS ASSOCIATED PROJECT BUILDING 24 SITE.

25 "COMMONWEALTH AGENCY." AN EXECUTIVE AGENCY, AN INDEPENDENT 26 AGENCY, A STATE-AFFILIATED ENTITY OR STATE-RELATED INSTITUTION 27 AS DEFINED BY 62 PA.C.S. § 103 (RELATING TO DEFINITIONS). THE 28 TERM ALSO INCLUDES THE GENERAL ASSEMBLY, ITS OFFICERS AND 29 AGENCIES AND THE UNIFIED JUDICIAL SYSTEM AND ITS OFFICERS AND 30 AGENCIES.

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1 "DEPARTMENT." THE DEPARTMENT OF GENERAL SERVICES OF THE

2 COMMONWEALTH.

3 "HIGH-PERFORMANCE BUILDING." A BUILDING DESIGNED TO ACHIEVE
4 INTEGRATED SYSTEMS DESIGN AND CONSTRUCTION SO AS TO
5 SIGNIFICANTLY REDUCE OR ELIMINATE THE NEGATIVE IMPACT OF THE
6 BUILT ENVIRONMENT.

7 "MAJOR FACILITY PROJECT." ANY OF THE FOLLOWING:

8 (1) A STATE-OWNED BUILDING PROJECT IN WHICH THE BUILDING
9 TO BE CONSTRUCTED IS LARGER THAN 20,000 GROSS SQUARE FEET.

10 (2) A NEW BUILDING PROJECT IN WHICH THE BUILDING TO BE
11 CONSTRUCTED IS MORE THAN 20,000 GROSS SQUARE FEET AND IN
12 WHICH BUILDING A COMMONWEALTH AGENCY HAS AGREED TO LEASE NO
13 FEWER THAN 90% OF THE GROSS SQUARE FEET.

14 (3) A RENOVATION PROJECT THAT IS LARGER THAN 20,000
15 GROSS SQUARE FEET AND AT LEAST 90% OF THE TOTAL SQUARE
16 FOOTAGE OF THE BUILDING.

17 THE TERM DOES NOT INCLUDE A BUILDING, REGARDLESS OF SIZE OR 18 OWNERSHIP INTEREST, THAT DOES NOT HAVE CONDITIONED SPACE AS 19 DEFINED BY STANDARD 90.1 OF THE AMERICAN SOCIETY OF HEATING, 20 REFRIGERATING AND AIR-CONDITIONING ENGINEERS, REFERRED TO AS 21 ASHRAE 90.1.

22 "RENOVATION PROJECT." A BUILDING PROJECT INVOLVING THE
23 MODIFICATION OR ADAPTIVE REUSE OF AN EXISTING FACILITY THAT IS
24 OWNED OR LEASED BY A COMMONWEALTH AGENCY.

25 SECTION 4. STANDARDS.

26 (A) MINIMUM CRITERIA.--THE HIGH-PERFORMANCE BUILDING
27 STANDARDS APPLICABLE TO THIS ACT SHALL MEET THE FOLLOWING
28 MINIMUM CRITERIA:

29 (1) AT A MINIMUM, INCLUDE PERFORMANCE-BASED CATEGORIES
 30 OR CREDITS THAT WILL FOSTER ACHIEVEMENT OF THE PURPOSES SET
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1 FORTH UNDER SECTION 2(2), (3), (4), (6), (7), (8), (9) AND 2 (10).

3 (2) REQUIRE DOCUMENTATION, VERIFIABLE CALCULATIONS OR
4 THE EQUIVALENT PROCEDURE TO SUBSTANTIATE AND SUPPORT ANY
5 CLAIM MADE RELATING TO PARAGRAPH (1).

6 (3) EMPLOY THIRD-PARTY, POSTCONSTRUCTION REVIEW AND
7 VERIFICATION FOR ACHIEVEMENT OF CERTIFICATION BY AN
8 ORGANIZATION THAT HAS A TRACK RECORD OF CERTIFIED GREEN
9 BUILDINGS IN THE UNITED STATES AND USES A CONSENSUS-BASED
10 RATING SYSTEM.

(B) LEVEL OF PERFORMANCE.--THE PERFORMANCE REQUIRED UNDER THE ADOPTED HIGH-PERFORMANCE BUILDING STANDARDS SHALL BE AT OR ABOVE THE LEVEL BEYOND THE MINIMUM LEVEL REQUIRED BY THE SELECTED STANDARDS.

15 (C) ACHIEVE ENERGY STAR RATINGS.--

16 (1) IN ADDITION TO MEETING THE PERFORMANCE REQUIREMENTS
17 OF THE ADOPTED HIGH PERFORMANCE BUILDING STANDARDS, ALL MAJOR
18 FACILITY PROJECTS ARE REQUIRED TO BE DESIGNED TO EARN ENERGY
19 STAR CERTIFICATION TO ACHIEVE AN ENVIRONMENTAL PROTECTION
20 AGENCY ENERGY STAR RATING OF 75 OR ABOVE.

(2) PARAGRAPH (1) SHALL APPLY ONLY TO MAJOR FACILITY
 PROJECTS WHICH COMMENCE AFTER THE EFFECTIVE DATE OF THIS ACT
 AND INVOLVE BUILDING TYPES FOR WHICH THE ENVIRONMENTAL
 PROTECTION AGENCY PROVIDES ENERGY STAR RATINGS.

(D) COST RECOVERY.--THE DIFFERENCE BETWEEN ANY ADDITIONAL
COST INCURRED IN A MAJOR FACILITY PROJECT AND THE LOWEST COST
ALTERNATIVE SHALL HAVE AN ESTIMATED RECOVERY PERIOD OF NOT MORE
THAN TEN YEARS.

29 SECTION 5. SCOPE.

30 ALL MAJOR FACILITY PROJECTS SHALL MEET OR EXCEED THE

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1 PRESCRIBED LEVEL OF ACHIEVEMENT UNDER THE HIGH-PERFORMANCE

2 BUILDING STANDARD ADOPTED UNDER SECTION 6.

3 SECTION 6. REGULATIONS.

4 THE DEPARTMENT SHALL DEVELOP AND ISSUE REGULATIONS FOR
5 COMPLYING WITH THIS ACT. THE PURPOSES OF THE REGULATIONS SHALL
6 BE TO:

7 (1) ADOPT HIGH-PERFORMANCE BUILDING STANDARDS SELECTED
8 BY THE DEPARTMENT FROM AMONG ACCEPTED INDUSTRY STANDARDS
9 MEETING THE CRITERIA PRESCRIBED IN SECTION 4 (A).

10 (2) DEFINE PROCEDURES AND METHODS FOR VERIFYING
11 COMPLIANCE WITH THE STANDARDS, AS SET FORTH UNDER SECTIONS 4
12 AND 5, IN THE DESIGN AND CONSTRUCTION OF MAJOR FACILITY
13 PROJECTS SUBJECT TO THIS ACT.

14 (3) SPECIFY THE LEVEL OF ACHIEVEMENT TO BE MET UNDER15 SECTION 5.

16 SECTION 7. REPORT.

17 THE DEPARTMENT SHALL PREPARE AND SUBMIT ANNUALLY A REPORT TO 18 THE CHAIRMAN AND THE MINORITY CHAIRMAN OF THE ENVIRONMENTAL 19 RESOURCES AND ENERGY COMMITTEE OF THE SENATE, THE CHAIRMAN AND 20 THE MINORITY CHAIRMAN OF THE ENVIRONMENTAL RESOURCES AND ENERGY 21 COMMITTEE OF THE HOUSE OF REPRESENTATIVES, THE CHAIRMAN AND 22 MINORITY CHAIRMAN OF THE STATE GOVERNMENT COMMITTEE OF THE 23 SENATE AND THE CHAIRMAN AND MINORITY CHAIRMAN OF THE STATE 24 GOVERNMENT COMMITTEE OF THE HOUSE OF REPRESENTATIVES. THE REPORT 25 SHALL AT A MINIMUM INCLUDE:

(1) THE NUMBER AND TYPE OF BUILDINGS DESIGNED AND
 CONSTRUCTED UTILIZING EACH OF THE RATING SYSTEMS RECOGNIZED
 UNDER THIS ACT.

29 (2) THE LEVELS OF CERTIFICATION OF EACH BUILDING30 DESIGNED, CONSTRUCTED OR RENOVATED.

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(3) A DESCRIPTION OF ALL POTENTIAL ENVIRONMENTAL
 BENEFITS, INCLUDING, BUT NOT LIMITED TO, WATER RESOURCES
 SAVINGS AND THE REDUCTION OF WASTE GENERATION.

4 (4) ANY CONFLICTS OR BARRIERS IDENTIFIED WHICH HINDER
5 THE EFFECTIVE IMPLEMENTATION OF THIS ACT.

6 SECTION 8. MONITORING AND EVALUATION.

7 THE DEPARTMENT SHALL DEVELOP AND IMPLEMENT A PROCESS TO
8 MONITOR AND EVALUATE THE ENERGY AND ENVIRONMENTAL BENEFITS
9 ASSOCIATED WITH EACH MAJOR FACILITY PROJECT DESIGNED,

10 CONSTRUCTED OR RENOVATED UNDER THIS ACT. THE COMMONWEALTH AGENCY 11 OCCUPYING THE BUILDING SHALL COMMENCE MONITORING AND EVALUATION 12 IN ACCORDANCE WITH THE DEPARTMENT-ESTABLISHED PROCESS ONE YEAR 13 AFTER THE COMPLETION AND OCCUPANCY OF THE MAJOR FACILITY PROJECT 14 AND CONTINUE FOR FIVE YEARS THEREAFTER.

15 SECTION 9. APPLICABILITY.

16 THIS ACT SHALL APPLY AS FOLLOWS:

17 (1) THE PROVISIONS OF THIS ACT SHALL APPLY TO ALL MAJOR
18 FACILITY PROJECTS WHERE DESIGN COMMENCES AT LEAST 60 DAYS
19 AFTER THE FINAL REGULATIONS ARE PROMULGATED BY THE DEPARTMENT
20 UNDER SECTION 6.

(2) THE PROVISIONS OF THIS ACT SHALL APPLY TO ALL
 PROJECT CONSTRUCTION CONTRACTS INITIATED AFTER ONE YEAR
 FOLLOWING THE EFFECTIVE DATE OF THIS SECTION.

24 SECTION 10. ENFORCEMENT.

THE DEPARTMENT SHALL NOT IMPLEMENT OR ENFORCE THE PROVISIONS OF THIS ACT AS THEY APPLY TO MAJOR FACILITY PROJECTS OWNED OR LEASED BY A COMMONWEALTH AGENCY UNTIL THE SECRETARY OF GENERAL SERVICES AND THE SECRETARY OF THE BUDGET DETERMINE THERE IS ADEQUATE FUNDING AVAILABLE TO COVER ADDITIONAL COSTS RESULTING FROM COMPLIANCE WITH THE REQUIREMENTS OF THIS ACT.

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- 1 SECTION 11. EFFECTIVE DATE.
- 2 THIS ACT SHALL TAKE EFFECT IN 60 DAYS.