117TH CONGRESS 1ST SESSION

H. R. 5889

To amend title VI of the Public Utility Regulatory Policies Act of 1978 to establish a Federal energy efficiency resource standard for retail electricity suppliers and retail natural gas suppliers, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

November 4, 2021

Mr. Welch (for himself and Ms. Clarke of New York) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To amend title VI of the Public Utility Regulatory Policies Act of 1978 to establish a Federal energy efficiency resource standard for retail electricity suppliers and retail natural gas suppliers, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE; FINDINGS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 "American Energy Efficiency Act".
- 6 (b) FINDINGS.—Congress finds that—
- 7 (1) the Federal energy efficiency resource
- 8 standard established by section 610 of the Public

| 1 | Utility Regulatory Policies Act of 1978 (as added by |
|----|--|
| 2 | this Act)— |
| 3 | (A) establishes nationwide minimum levels |
| 4 | of electricity and natural gas savings to be |
| 5 | achieved through utility efficiency programs, |
| 6 | building energy codes, appliance standards, and |
| 7 | related efficiency measures; and |
| 8 | (B) rewards energy-saving improvements |
| 9 | achieved through— |
| 10 | (i) end-use energy efficiency upgrades; |
| 11 | (ii) reduced losses in transmission and |
| 12 | distribution of energy; and |
| 13 | (iii) fuel switching, to the extent that |
| 14 | the switching results in reduced primary |
| 15 | energy use; and |
| 16 | (2) in light of the cost-effective energy effi- |
| 17 | ciency opportunities that exist across the United |
| 18 | States in every sector of the economy, retail elec- |
| 19 | tricity suppliers, retail natural gas suppliers, and |
| 20 | States should— |
| 21 | (A) include energy efficiency as a resource |
| 22 | in utility planning and procurement activities; |
| 23 | and |

| 1 | (B) seek to achieve all energy efficiency |
|----|--|
| 2 | measures that are available at lower cost than |
| 3 | other energy supply options. |
| 4 | SEC. 2. ENERGY EFFICIENCY RESOURCE STANDARD FOR |
| 5 | RETAIL ELECTRICITY AND NATURAL GAS |
| 6 | SUPPLIERS. |
| 7 | Title VI of the Public Utility Regulatory Policies Act |
| 8 | of 1978 (16 U.S.C. 2601 et seq.) is amended by adding |
| 9 | at the end the following: |
| 10 | "SEC. 610. FEDERAL ENERGY EFFICIENCY RESOURCE |
| 11 | STANDARD FOR RETAIL ELECTRICITY AND |
| 12 | NATURAL GAS SUPPLIERS. |
| 13 | "(a) Definitions.—In this section: |
| 14 | "(1) Affiliate.—The term 'affiliate' when |
| 15 | used in relation to a person, means another person |
| 16 | that owns or controls, is owned or controlled by, or |
| 17 | is under common ownership control with, that per- |
| 18 | son, as determined under regulations promulgated |
| 19 | by the Secretary. |
| 20 | "(2) ASHRAE, ANSI, AND IESNA.—The terms |
| 21 | 'ASHRAE', 'ANSI', and 'IESNA' mean the Amer- |
| 22 | ican Society of Heating, Refrigerating and Air Con- |
| 23 | ditioning Engineers, the American National Stand- |
| 24 | ards Institute, and the Illuminating Engineering So- |
| 25 | ciety of North America, respectively. |

| 1 | "(3) Base quantity.— |
|----|--|
| 2 | "(A) IN GENERAL.—The term 'base quan- |
| 3 | tity', with respect to a retail electricity supplier |
| 4 | or retail natural gas supplier, means, for each |
| 5 | calendar year for which a performance standard |
| 6 | is specified or established under subsection (c), |
| 7 | the average annual quantity of electricity deliv- |
| 8 | ered by the retail electricity supplier to electric |
| 9 | consumers, or the average annual quantity of |
| 10 | natural gas delivered by the retail natural gas |
| 11 | supplier to gas consumers, during the 3 cal- |
| 12 | endar years immediately preceding the year |
| 13 | that compliance is required under subsection |
| 14 | (c)(1). |
| 15 | "(B) Exclusion.—The term 'base quan- |
| 16 | tity', with respect to a retail natural gas sup- |
| 17 | plier, does not include natural gas delivered for |
| 18 | purposes of electricity generation. |
| 19 | "(4) CHP savings.—The term 'CHP savings' |
| 20 | means— |
| 21 | "(A) CHP system savings from a combined |
| 22 | heat and power system that commences oper- |
| 23 | ation after the date of enactment of this sec- |
| | |

tion; and

1 "(B) the increase in CHP system savings 2 from upgrading or replacing, after the date of 3 enactment of this section, a combined heat and 4 power system that commenced operation on or 5 before the date of enactment of this section.

"(5) CHP SYSTEM SAVINGS.—The term 'CHP system savings' means the electric output, and the electricity saved due to the mechanical output, of a combined heat and power system, adjusted to reflect any increase in fuel consumption by that system as compared to the fuel that would have been required to produce an equivalent useful thermal energy output in a separate thermal-only system, as determined in accordance with regulations promulgated by the Secretary.

"(6) Codes and standards savings' means a reduction in electricity or natural gas consumption as a result of the adoption and implementation, after the date of enactment of this section, of new or revised appliance and equipment efficiency standards or building energy codes.

"(7) COMBINED HEAT AND POWER SYSTEM.—
The term 'combined heat and power system' means
a system that uses the same energy source both for

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

the generation of electrical or mechanical power and the production of steam or another form of useful thermal energy, if—

- "(A) the system meets any requirements relating to efficiency and other operating characteristics that the Secretary promulgates by regulation; and
- "(B) the net wholesale sales of electricity by the applicable facility do not exceed 50 percent of total annual electric generation by the facility.

"(8) Cost-effective.—The term 'cost-effective' means, with respect to an energy efficiency program, that the program achieves a net present value of economic benefits over the life of the implemented measures, both directly to the energy consumer and to the economy, that is greater than the net present value of the cost of the program over the life of the program, both directly to the energy consumer and to the economy. The cost-effectiveness of an energy efficiency program shall be calculated using a societal benefit-cost test that uses the lower of a utility weighted average cost of capital or a social discount rate of 3 percent.

| 1 | "(9) Customer facility savings.—The term |
|----|--|
| 2 | 'customer facility savings' means a reduction in elec- |
| 3 | tricity or natural gas consumption, including waste |
| 4 | heat energy savings, at a facility of an electricity |
| 5 | consumer served by a retail electricity supplier or a |
| 6 | gas consumer served by a natural gas supplier, as |
| 7 | compared to— |
| 8 | "(A) in the case of new equipment that re- |
| 9 | places existing equipment with remaining useful |
| 10 | life— |
| 11 | "(i) consumption of the existing |
| 12 | equipment for the remaining useful life of |
| 13 | the equipment; and |
| 14 | "(ii) thereafter, consumption by new |
| 15 | equipment of average efficiency of the |
| 16 | same equipment type; |
| 17 | "(B) in the case of new equipment other |
| 18 | than new equipment described in subparagraph |
| 19 | (A), consumption by new equipment of average |
| 20 | efficiency of the same equipment type; |
| 21 | "(C) in the case of consumption, other |
| 22 | than consumption described in subparagraphs |
| 23 | (A) and (B), at an existing facility, consump- |
| 24 | tion at the facility during a base period of not |
| 25 | less than 1 year; and |

| 1 | "(D) in the case of consumption, other |
|----|---|
| 2 | than consumption described in subparagraphs |
| 3 | (A) and (B), at a new facility, consumption at |
| 4 | a reference new facility of average efficiency for |
| 5 | new facilities of the same type. |
| 6 | "(10) Electricity savings.—The term 'elec- |
| 7 | tricity savings' means reductions in electricity con- |
| 8 | sumption or losses, as determined in accordance |
| 9 | with regulations promulgated by the Secretary, |
| 10 | that— |
| 11 | "(A) are achieved through measures imple- |
| 12 | mented after the date of enactment of this sec- |
| 13 | tion; |
| 14 | "(B) are additional to business-as-usual— |
| 15 | "(i) customer purchase practices; and |
| 16 | "(ii) distribution system efficiency; |
| 17 | "(C) the retail electricity supplier claiming |
| 18 | or transferring the electricity savings has |
| 19 | played a significant role in achieving; |
| 20 | "(D) occur in the service territory of the |
| 21 | retail electricity supplier claiming or transfer- |
| 22 | ring the electricity savings; and |
| 23 | "(E) are limited to— |

| 1 | "(i) customer facility savings of elec- |
|----|--|
| 2 | tricity, adjusted to reflect any associated |
| 3 | increase in fuel consumption at the facility; |
| 4 | "(ii) reductions in distribution system |
| 5 | losses of electricity achieved by a retail |
| 6 | electricity supplier, as compared to losses |
| 7 | that would occur with new distribution sys- |
| 8 | tem equipment of average efficiency; |
| 9 | "(iii) CHP savings; |
| 10 | "(iv) codes and standards savings of |
| 11 | electricity; and |
| 12 | "(v) fuel-switching energy savings |
| 13 | that result in net savings of electricity. |
| 14 | "(11) Fuel-switching energy savings.— |
| 15 | "(A) IN GENERAL.—The term 'fuel-switch- |
| 16 | ing energy savings' means net energy savings, |
| 17 | calculated in accordance with subparagraph |
| 18 | (B), from consumer switches from one energy |
| 19 | source to another, as determined in accordance |
| 20 | with regulations promulgated by the Secretary. |
| 21 | "(B) CALCULATION.—For purposes of cal- |
| 22 | culating net energy savings under subparagraph |
| 23 | (A)— |
| 24 | "(i) electricity consumption shall be |
| 25 | evaluated based on the average additional |

| 1 | quantity of fuel burned at power plants to |
|----|--|
| 2 | supply each additional kilowatt-hour of |
| 3 | electricity consumption in the region; |
| 4 | "(ii) electricity and natural gas con- |
| 5 | sumption shall include losses in the trans- |
| 6 | mission and distribution systems; and |
| 7 | "(iii) fuel-switching that does not re- |
| 8 | sult in net cost savings to the consumer |
| 9 | shall not be counted. |
| 10 | "(12) Gas consumer.—The term 'gas con- |
| 11 | sumer' has the meaning given such term in section |
| 12 | 302. |
| 13 | "(13) Natural gas savings.—The term 'nat- |
| 14 | ural gas savings' means reductions in natural gas |
| 15 | consumption or losses, as determined in accordance |
| 16 | with regulations promulgated by the Secretary, |
| 17 | that— |
| 18 | "(A) are achieved through measures imple- |
| 19 | mented after the date of enactment of this sec- |
| 20 | tion; |
| 21 | "(B) are additional to business-as-usual— |
| 22 | "(i) customer purchase practices; and |
| 23 | "(ii) distribution system efficiency; |

| 1 | "(C) the retail natural gas supplier claim- |
|----|---|
| 2 | ing or transferring the natural gas savings has |
| 3 | played a significant role in achieving; |
| 4 | "(D) occur in the service territory of the |
| 5 | retail natural gas supplier claiming or transfer- |
| 6 | ring the natural gas savings; and |
| 7 | "(E) are limited to— |
| 8 | "(i) customer facility savings of nat- |
| 9 | ural gas, adjusted to reflect any associated |
| 10 | increase in electricity consumption or con- |
| 11 | sumption of other fuels at the facility; |
| 12 | "(ii) reductions in leakage, operational |
| 13 | losses, and consumption of natural gas to |
| 14 | operate a gas distribution system, achieved |
| 15 | by a retail natural gas supplier, as com- |
| 16 | pared to similar leakage, losses, and con- |
| 17 | sumption during a base period of not less |
| 18 | than 1 year; |
| 19 | "(iii) codes and standards savings of |
| 20 | natural gas; and |
| 21 | "(iv) fuel-switching energy savings |
| 22 | that results in net savings of natural gas. |
| 23 | "(14) Performance Standard.—The term |
| 24 | 'performance standard' means a standard— |

| 1 | "(A) established for a calendar year for cu- |
|----|--|
| 2 | mulative electricity savings or cumulative nat- |
| 3 | ural gas savings that is expressed as a percent- |
| 4 | age of base quantity; and |
| 5 | "(B) for each of calendar years 2021 |
| 6 | through 2035, that is labeled as cumulative |
| 7 | electricity savings percentage or cumulative nat- |
| 8 | ural gas savings percentage, as applicable, in |
| 9 | the table under subsection $(c)(2)$. |
| 10 | "(15) Power pool.—The term 'power pool' |
| 11 | means an association of two or more interconnected |
| 12 | electric systems that have entered into an agreement |
| 13 | to coordinate operations and planning for improved |
| 14 | reliability and efficiencies, including a Regional |
| 15 | Transmission Organization or an Independent Sys- |
| 16 | tem Operator, as determined by the Secretary. |
| 17 | "(16) Reporting Period.—The term 'report- |
| 18 | ing period' means— |
| 19 | "(A) calendar years 2021 through 2023; |
| 20 | and |
| 21 | "(B) each successive 2-calendar-year pe- |
| 22 | riod thereafter. |
| 23 | "(17) Retail electricity supplier.— |
| 24 | "(A) IN GENERAL.—The term 'retail elec- |
| 25 | tricity supplier' means, for any calendar year, |

| 1 | an electric utility that delivered not fewer than |
|----|--|
| 2 | 1,000,000 megawatt hours of electricity to elec- |
| 3 | tric consumers for purposes other than resale |
| 4 | during the preceding calendar year. |
| 5 | "(B) Inclusions and Limitations.—For |
| 6 | purposes of determining whether an electric |
| 7 | utility qualifies as a retail electricity supplier |
| 8 | under subparagraph (A)— |
| 9 | "(i) deliveries by any affiliate of the |
| 10 | electric utility to electric consumers for |
| 11 | purposes other than resale shall be consid- |
| 12 | ered to be deliveries by the electric utility; |
| 13 | and |
| 14 | "(ii) deliveries by any electric utility |
| 15 | to a lessee, tenant, or affiliate of the elec- |
| 16 | tric utility shall not be considered to be de- |
| 17 | liveries to electric consumers. |
| 18 | "(18) Retail natural gas supplier.— |
| 19 | "(A) IN GENERAL.—The term 'retail nat- |
| 20 | ural gas supplier' means, for any calendar year, |
| 21 | a local distribution company (as defined in sec- |
| 22 | tion 2 of the Natural Gas Policy Act of 1978), |
| 23 | that delivered to gas consumers more than |
| 24 | 5,000,000,000 cubic feet of natural gas for pur- |

| 1 | poses other than resale during the preceding |
|----|--|
| 2 | calendar year. |
| 3 | "(B) Inclusions and Limitations.—For |
| 4 | purposes of determining whether a local dis- |
| 5 | tribution company qualifies as a retail natural |
| 6 | gas supplier under subparagraph (A)— |
| 7 | "(i) deliveries of natural gas by any |
| 8 | affiliate of a local distribution company to |
| 9 | consumers for purposes other than resale |
| 10 | shall be considered to be deliveries by the |
| 11 | local distribution company; and |
| 12 | "(ii) deliveries of natural gas to a les- |
| 13 | see, tenant, or affiliate of a local distribu- |
| 14 | tion company shall not be considered to be |
| 15 | deliveries to gas consumers. |
| 16 | "(19) State regulatory authority.—The |
| 17 | term 'State regulatory authority' means any State |
| 18 | agency which has ratemaking authority with respect |
| 19 | to— |
| 20 | "(A) the sale of natural gas by any gas |
| 21 | utility (other than by such State agency); or |
| 22 | "(B) the sale of electric energy by any |
| 23 | electric utility (other than such State agency), |
| 24 | and in the case of an electric utility with re- |
| 25 | spect to which the Tennessee Valley Authority |

has ratemaking authority, such term means the
Tennessee Valley Authority.

"(20) Third-party efficiency provider' means any retailer, building owner, energy service company, financial institution, or other commercial, industrial, or nonprofit entity that is capable of providing electricity savings or natural gas savings in accordance with subsections (d) and (e).

"(21) Waste heat energy savings.—

"(A) In General.—The term 'waste heat energy savings' means a reduction in electricity or natural gas consumption that results from a modification of an industrial or commercial system that commenced operation before the date of enactment of this section, in order to recapture electrical, mechanical, or thermal energy that would otherwise be wasted, as determined in accordance with regulations promulgated by the Secretary.

"(B) Inclusion.—Waste heat energy savings shall be included as part of customer facility savings.

"(b) Establishment.—

| 1 | "(1) Regulations.—Not later than 1 year |
|----|---|
| 2 | after the date of enactment of this section, the Sec- |
| 3 | retary shall, by regulation, establish a program to |
| 4 | implement and enforce the requirements of this sec- |
| 5 | tion, including by— |
| 6 | "(A) establishing measurement and |
| 7 | verification procedures and standards under |
| 8 | subsection (e); |
| 9 | "(B) establishing requirements under |
| 10 | which retail electricity suppliers and retail nat- |
| 11 | ural gas suppliers shall— |
| 12 | "(i) demonstrate, document, and re- |
| 13 | port the compliance of the retail electricity |
| 14 | suppliers and retail natural gas suppliers |
| 15 | with the performance standards under sub- |
| 16 | section (c); and |
| 17 | "(ii) estimate the impact of the per- |
| 18 | formance standards on current and future |
| 19 | electricity and natural gas consumption in |
| 20 | the service territories of the suppliers; and |
| 21 | "(C) establishing requirements governing |
| 22 | applications for, and implementation of, State |
| 23 | programs under subsection (g). |
| 24 | "(2) Coordination with state programs.— |
| 25 | In establishing and implementing this section, the |

Secretary shall, to the maximum extent practicable, preserve the integrity and incorporate best practices of existing State energy efficiency programs.

"(c) Performance Standards.—

"(1) COMPLIANCE OBLIGATION.—Not later than May 1 of the calendar year immediately following each reporting period—

"(A) each retail electricity supplier shall submit to the Secretary a report, in accordance with regulations promulgated by the Secretary, demonstrating that such retail electricity supplier has achieved cumulative electricity savings (adjusted to account for any attrition of savings from measures implemented in prior years) in each calendar year of such reporting period that are equal to or greater than the applicable performance standard; and

"(B) each retail natural gas supplier shall submit to the Secretary a report, in accordance with regulations promulgated by the Secretary, demonstrating that such retail natural gas supplier has achieved cumulative natural gas savings (adjusted to account for any attrition of savings from measures implemented in prior years) in each calendar year of such reporting

period that are equal to or greater than the applicable performance standard.

3 "(2) Performance standards for 2021 4 Through 2035.—For each of calendar years 2021 5 through 2035, the performance standards are as fol-6 lows:

| "Calendar Year | Cumulative Electricity Savings Percentage | Cumulative Natural Gas Savings Percentage |
|----------------|--|--|
| 2021 | 1.00 | 0.50 |
| 2022 | 2.25 | 1.25 |
| 2023 | 3.75 | 2.00 |
| 2024 | 5.25 | 3.00 |
| 2025 | 7.00 | 4.00 |
| 2026 | 9.00 | 5.00 |
| 2027 | 11.00 | 5.50 |
| 2028 | 13.00 | 7.00 |
| 2029 | 15.00 | 8.50 |
| 2030 | 17.00 | 10.00 |
| 2031 | 19.00 | 12.00 |
| 2032 | 21.00 | 14.00 |
| 2033 | 23.00 | 16.00 |
| 2034 | 25.00 | 18.00 |
| 2035 | 27.00 | 20.00 |

"(3) Subsequent Years.—

"(A) Calendar years 2036 through 2045.—Not later than December 31, 2033, the Secretary shall promulgate regulations establishing performance standards for each of calendar years 2036 through 2045.

7

8

9

10

11

| 1 | "(B) Subsequent extensions.—Except |
|----|---|
| 2 | as provided in subparagraph (A), not later than |
| 3 | the last day of the penultimate reporting period |
| 4 | for which performance standards have been es- |
| 5 | tablished under this paragraph, the Secretary |
| 6 | shall promulgate regulations establishing per- |
| 7 | formance standards for the 10-calendar-year |
| 8 | period following the last calendar year for which |
| 9 | performance standards previously were estab- |
| 10 | lished. |
| 11 | "(C) REQUIREMENTS.—The Secretary |
| 12 | shall establish performance standards under |
| 13 | this paragraph at levels reflecting the maximum |
| 14 | achievable level of cost-effective energy effi- |
| 15 | ciency potential, taking into account— |
| 16 | "(i) cost-effective energy savings |
| 17 | achieved by leading retail electricity sup- |
| 18 | pliers and retail natural gas suppliers; |
| 19 | "(ii) opportunities for new codes and |
| 20 | standards savings; |
| 21 | "(iii) technology improvements; and |
| 22 | "(iv) other indicators of cost-effective |
| 23 | energy efficiency potential. |
| 24 | "(D) MINIMUM PERCENTAGE.—In no case |
| 25 | shall a performance standard established under |

| 1 | this paragraph for any calendar year be less |
|----|--|
| 2 | than the applicable performance standard for |
| 3 | calendar year 2035 (including any increase in |
| 4 | the standard for calendar year 2035 established |
| 5 | pursuant to paragraph (4)). |
| 6 | "(4) Midcourse review and adjustment of |
| 7 | PERFORMANCE STANDARDS.— |
| 8 | "(A) IN GENERAL.—Not later than De- |
| 9 | cember 31, 2029, and at 10-year intervals |
| 10 | thereafter, the Secretary shall— |
| 11 | "(i) review the most recent perform- |
| 12 | ance standards established under para- |
| 13 | graph (2) or (3); and |
| 14 | "(ii) increase the performance stand- |
| 15 | ards by regulation if the Secretary deter- |
| 16 | mines that additional cost-effective energy |
| 17 | efficiency potential is achievable, taking |
| 18 | into account the requirements described in |
| 19 | paragraph (3)(C). |
| 20 | "(B) Lead time.—If the Secretary revises |
| 21 | performance standards under this paragraph, |
| 22 | the regulations shall provide adequate lead time |
| 23 | to ensure that compliance with the increased |
| 24 | performance standards is feasible. |

| 1 | "(5) Delay of Submission for first re- |
|----|--|
| 2 | PORTING PERIOD.— |
| 3 | "(A) IN GENERAL.—Notwithstanding |
| 4 | paragraphs (1) and (2), for the first reporting |
| 5 | period, the Secretary may accept a request from |
| 6 | a retail electricity supplier or a retail natural |
| 7 | gas supplier to delay the required submission of |
| 8 | documentation of all or part of the required |
| 9 | savings for up to 2 years. |
| 10 | "(B) PLAN FOR COMPLIANCE.—The re- |
| 11 | quest for delay under subparagraph (A) shall |
| 12 | include a plan for coming into full compliance |
| 13 | by the end of the second reporting period. |
| 14 | "(6) Applying unused savings to future |
| 15 | YEARS.—If electricity savings or natural gas savings |
| 16 | achieved by a retail electricity supplier or retail nat- |
| 17 | ural gas supplier in a year exceed the applicable per- |
| 18 | formance standard specified or established under |
| 19 | this subsection, any savings in excess of the per- |
| 20 | formance standard may be applied toward perform- |
| 21 | ance standards specified or established for any of |
| 22 | the 2 immediately subsequent compliance years. |
| 23 | "(d) Transfers of Electricity or Natural Gas |
| 24 | Savings.— |

| 1 | "(1) Bilateral contracts for savings |
|----|--|
| 2 | TRANSFERS.—Subject to the limitations of this sub- |
| 3 | section, a retail electricity supplier or retail natural |
| 4 | gas supplier may use electricity savings or natural |
| 5 | gas savings purchased pursuant to a bilateral con- |
| 6 | tract from another retail electricity supplier or retail |
| 7 | natural gas supplier, a State, or a third-party effi- |
| 8 | ciency provider to meet the applicable performance |
| 9 | standard under subsection (c). |
| 10 | "(2) Requirements.—Electricity savings or |
| | |

- "(2) Requirements.—Electricity savings or natural gas savings purchased and used for compliance under this subsection shall be—
- 13 "(A) measured and verified in accordance 14 with subsection (e);
 - "(B) reported in accordance with subsection (c); and
 - "(C) achieved within the same State as is served by the retail electricity supplier or retail natural gas supplier.
 - "(3) EXCEPTION.—Notwithstanding paragraph (2)(C), a State regulatory authority may authorize a retail electricity supplier or a retail natural gas supplier regulated by the State regulatory authority to purchase savings achieved in a different State, if—

12

15

16

17

18

19

20

21

22

23

- 1 "(A) the savings are achieved within the 2 same power pool; and
 - "(B) the State regulatory authority that regulates the purchaser oversees the measurement and verification of the savings pursuant to the procedures and standards applicable in the State in which the purchaser is located.
 - "(4) Regulatory approval.—Nothing in this subsection limits or affects the authority of a State regulatory authority to require a retail electricity supplier or retail natural gas supplier that is regulated by the State regulatory authority to obtain the authorization or approval of the State regulatory authority of a contract for transfer of electricity savings or natural gas savings under this subsection.
 - "(5) LIMITATIONS.—To optimize the achievement of cost-effective energy efficiency potential, the Secretary may prescribe such limitations as the Secretary determines appropriate with respect to the proportion of the compliance obligation of a retail electricity or natural gas supplier under the applicable performance standards under subsection (c) that may be met using electricity savings or natural gas savings that are purchased under this subsection.

| 1 | "(e) EVALUATION, MEASUREMENT, AND |
|----|--|
| 2 | Verification of Savings.— |
| 3 | "(1) Regulations.—The regulations promul- |
| 4 | gated pursuant to subsection (b) shall— |
| 5 | "(A) be based on— |
| 6 | "(i) the Uniform Methods Project of |
| 7 | the Department of Energy; |
| 8 | "(ii) the National Standard Practice |
| 9 | Manual for Assessing the Cost-Effective- |
| 10 | ness of Energy Efficiency Resources, devel- |
| 11 | oped by the National Efficiency Screening |
| 12 | Project; and |
| 13 | "(iii) other best practices recognized |
| 14 | in the energy efficiency industry; and |
| 15 | "(B) include— |
| 16 | "(i) procedures and standards for |
| 17 | evaluating, measuring, and verifying elec- |
| 18 | tricity savings and natural gas savings that |
| 19 | count towards the performance standards |
| 20 | under subsection (c) that— |
| 21 | "(I) specify the types of energy |
| 22 | efficiency and energy conservation |
| 23 | measures that may be counted; |
| 24 | "(II) require that energy con- |
| 25 | sumption estimates for customer fa- |

| 1 | cilities or portions of facilities in the |
|----|---|
| 2 | applicable base and current years be |
| 3 | adjusted, as appropriate, to account |
| 4 | for changes in weather, level of pro- |
| 5 | duction, and building area; |
| 6 | "(III) do not prevent overall load |
| 7 | growth due to beneficial electrifica- |
| 8 | tion; |
| 9 | "(IV) account for the useful life |
| 10 | of energy efficiency and energy con- |
| 11 | servation measures; |
| 12 | "(V) allow for savings from a |
| 13 | program to be estimated based on ex- |
| 14 | trapolation from a representative sam- |
| 15 | ple of participating customers; |
| 16 | "(VI) include procedures for cal- |
| 17 | culating and documenting CHP sav- |
| 18 | ings, fuel-switching energy savings, |
| 19 | and waste heat energy savings; |
| 20 | "(VII) establish methods for cal- |
| 21 | culating codes and standards savings, |
| 22 | including— |
| 23 | "(aa) the use of verified |
| 24 | compliance rates; |

| 1 | "(bb) requiring that the |
|----|------------------------------------|
| 2 | baseline for calculating savings |
| 3 | from building energy codes shall |
| 4 | be the more stringent of— |
| 5 | "(AA) the 2021 Inter- |
| 6 | national Energy Conserva- |
| 7 | tion Code for residential |
| 8 | buildings, or the ASHRAE/ |
| 9 | ANSI/IESNA Standard |
| 10 | 90.1–2019 for commercial |
| 11 | buildings; or |
| 12 | "(BB) the applicable |
| 13 | State building code in effect |
| 14 | on the date of enactment of |
| 15 | this section; and |
| 16 | "(ce) requiring that the |
| 17 | baseline for calculating savings |
| 18 | from appliance and equipment |
| 19 | standards shall be the average ef- |
| 20 | ficiency of new appliances and |
| 21 | equipment in the applicable one |
| 22 | or more categories prior to the |
| 23 | adoption and implementation of |
| 24 | the new standard; |

| 1 | "(VIII) include procedures for |
|----|--|
| 2 | calculating and documenting— |
| 3 | "(aa) customer facility sav- |
| 4 | ings and reductions in distribu- |
| 5 | tion system losses of electricity |
| 6 | and natural gas that are achieved |
| 7 | as a result of smart grid deploy- |
| 8 | ment, as described in section |
| 9 | 1301 of the Energy Independ- |
| 10 | ence and Security Act of 2007; |
| 11 | and |
| 12 | "(bb) reductions in natural |
| 13 | gas distribution system losses at- |
| 14 | tributable to pipeline repair and |
| 15 | replacement programs; |
| 16 | "(IX) count only measures and |
| 17 | savings that are additional to busi- |
| 18 | ness-as-usual customer purchase prac- |
| 19 | tices; |
| 20 | "(X) ensure that the retail elec- |
| 21 | tricity supplier or retail natural gas |
| 22 | supplier claiming the electricity sav- |
| 23 | ings or natural gas savings, including |
| 24 | State and local codes and standards |
| 25 | savings, has played a significant role |

| 1 | in achieving the savings (including |
|----|--|
| 2 | through the activities of a designated |
| 3 | agent of the supplier); |
| 4 | "(XI) avoid double-counting of |
| 5 | savings used for compliance with this |
| 6 | section, including transferred savings; |
| 7 | "(XII) include electricity savings |
| 8 | or natural gas savings from programs |
| 9 | administered by retail electricity sup- |
| 10 | pliers or natural gas suppliers that |
| 11 | are funded by Federal, State, or other |
| 12 | sources, unless the funding source |
| 13 | specifies otherwise; |
| 14 | "(XIII) credit large customer |
| 15 | self-directed electricity savings or nat- |
| 16 | ural gas savings to the retail elec- |
| 17 | tricity supplier or retail natural gas |
| 18 | supplier if the large customer receives |
| 19 | incentives or rate reductions from the |
| 20 | retail electricity supplier or retail nat- |
| 21 | ural gas supplier for self-directed en- |
| 22 | ergy efficiency improvements; |
| 23 | "(XIV) include guidance, as ap- |
| 24 | propriate, for additional alternative |
| 25 | approaches to evaluate electricity sav- |

| 1 | ings and natural gas savings for large |
|----|---|
| 2 | commercial and industrial customers |
| 3 | in energy-intensive industries that are |
| 4 | subject to international competition; |
| 5 | "(XV) include procedures for |
| 6 | counting electricity savings and nat- |
| 7 | ural gas savings achieved by solar |
| 8 | heating and cooling technologies, solar |
| 9 | light pipe technology, geothermal heat |
| 10 | pumps, and other technologies uti- |
| 11 | lizing renewable resources that do not |
| 12 | produce electricity or gaseous fuel and |
| 13 | reduce on-site energy consumption; |
| 14 | "(XVI) include procedures for |
| 15 | counting electricity savings and nat- |
| 16 | ural gas savings achieved by weather- |
| 17 | ization measures, such as installing |
| 18 | mechanical insulation, repairing or re- |
| 19 | placing heating and cooling systems, |
| 20 | repairing or replacing windows and |
| 21 | doors, performing air sealing, and re- |
| 22 | placing lights and appliances with |
| 23 | more energy efficient models; |
| 24 | "(XVII) include procedures for |
| 25 | counting electricity savings and nat- |

| 1 | ural gas savings achieved from in- |
|----|--|
| 2 | creased utilization of mechanical insu- |
| 3 | lation for new, retrofit, and mainte- |
| 4 | nance construction for commercial, in- |
| 5 | dustrial, public, and nonprofit build- |
| 6 | ings and facilities; |
| 7 | "(XVIII) in any State in which |
| 8 | the State regulatory authority has |
| 9 | designated one or more entities to ad- |
| 10 | minister electric ratepayer-funded effi- |
| 11 | ciency programs approved by the |
| 12 | State regulatory authority, provide |
| 13 | that electricity savings and natural |
| 14 | gas savings achieved through those |
| 15 | programs shall be distributed propor- |
| 16 | tionally among retail electricity sup- |
| 17 | pliers and retail natural gas suppliers; |
| 18 | "(XIX) include guidance for re- |
| 19 | tail electricity suppliers and retail nat- |
| 20 | ural gas suppliers to calculate and |
| 21 | document business-as-usual consump- |
| 22 | tion projections; |
| 23 | "(XX) include guidance for esti- |
| 24 | mating savings using information |
| 25 | from the database established under |

| 1 | paragraph (3) based on similar meas- |
|----|--|
| 2 | ures and programs in other settings |
| 3 | with appropriate adjustments, as nec- |
| 4 | essary; and |
| 5 | "(XXI) incorporate advances in |
| 6 | methods of policy evaluation, such as |
| 7 | the use of— |
| 8 | "(aa) randomized control |
| 9 | trials; |
| 10 | "(bb) other experimental |
| 11 | and quasi-experimental ap- |
| 12 | proaches; and |
| 13 | "(cc) large data sets and |
| 14 | machine learning techniques; and |
| 15 | "(ii) procedures and standards for |
| 16 | third-party verification of reported elec- |
| 17 | tricity savings or natural gas savings. |
| 18 | "(2) National academy of sciences |
| 19 | STUDY.—Not later than 180 days after the date of |
| 20 | enactment of this section, the Secretary shall seek to |
| 21 | enter into an agreement with the National Academy |
| 22 | of Sciences, under which the Academy shall— |
| 23 | "(A) evaluate existing state-of-the-art |
| 24 | methods for evaluating energy efficiency policies |
| 25 | and measures; |

| 1 | "(B) identify approaches in program eval- |
|----|--|
| 2 | uation literature that may be brought into the |
| 3 | energy efficiency domain, including— |
| 4 | "(i) randomized control trials and |
| 5 | other experimental or quasi-experimental |
| 6 | approaches; |
| 7 | "(ii) control of confounding factors; |
| 8 | "(iii) longitudinal studies; |
| 9 | "(iv) assessments by neutral arbiters; |
| 10 | and |
| 11 | "(v) disclosure of data for replication; |
| 12 | and |
| 13 | "(C) not later than 18 months after the |
| 14 | date of enactment of this section, publish a re- |
| 15 | port that includes— |
| 16 | "(i) a description of the evaluation |
| 17 | under subparagraph (A); |
| 18 | "(ii) a description of the approaches |
| 19 | identified under subparagraph (B); and |
| 20 | "(iii) recommendations for advancing |
| 21 | and adopting rigorous state-of-the-art |
| 22 | methods for evaluating energy efficiency |
| 23 | policies and measures. |
| 24 | "(3) Energy efficiency program evalua- |
| 25 | TION DATABASE.— |

| 1 | "(A) In General.—The Secretary shall |
|----|--|
| 2 | establish and maintain a searchable public data- |
| 3 | base, accessible on the website of the Depart- |
| 4 | ment of Energy, that contains a list of random- |
| 5 | ized control trials and other experimental or |
| 6 | quasi-experimental evaluations of energy effi- |
| 7 | ciency programs. |
| 8 | "(B) Requirements.—Each trial or eval- |
| 9 | uation on the list described in subparagraph |
| 10 | (A) shall include, at a minimum— |
| 11 | "(i) the State in which the trial or |
| 12 | evaluation was conducted; |
| 13 | "(ii) the type of trial or evaluation |
| 14 | conducted; |
| 15 | "(iii) the type of program evaluated; |
| 16 | "(iv) an abstract or summary of the |
| 17 | program evaluated; |
| 18 | "(v) a summary of the trial or evalua- |
| 19 | tion methodology; |
| 20 | "(vi) the revealed energy savings from |
| 21 | the trial or evaluation; and |
| 22 | "(vii) to the extent practicable, the |
| 23 | underlying data used to conduct the trial |
| 24 | or evaluation. |
| 25 | "(f) Enforcement and Judicial Review.— |

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

- "(1) Review of retail supplier reports.—
- "(A) IN GENERAL.—The Secretary shall review each report submitted to the Secretary by a retail electricity supplier or retail natural gas supplier under subsection (c) to verify that the applicable performance standards under subsection (c) have been met.
 - "(B) EXCLUSION.—In determining compliance with the applicable performance standards under subsection (c), the Secretary shall exclude reported electricity savings or natural gas savings that are not adequately demonstrated and documented, in accordance with the regulations promulgated under this section.
 - "(2)PENALTY FOR **FAILURE** TO DEM-ONSTRATE.—If a retail electricity supplier or a retail natural gas supplier that is subject to the requirements of the Federal program established under this section fails to demonstrate compliance with an applicable performance standard under subsection (c), or a retail electricity supplier or a retail natural gas supplier that is subject to the requirements of a State program approved pursuant to subsection (g) fails to comply with a requirement to achieve electricity savings or natural gas savings under such

| 1 | State program, the Secretary shall assess against |
|----|---|
| 2 | the retail electricity supplier or retail natural gas |
| 3 | supplier a civil penalty in an amount equal to, as ad- |
| 4 | justed for inflation in accordance with such regula- |
| 5 | tions as the Secretary may promulgate— |
| 6 | "(A) \$100 per megawatt hour of electricity |
| 7 | savings or alternative compliance payment that |
| 8 | the retail electricity supplier failed to achieve or |
| 9 | make, respectively; or |
| 10 | "(B) \$10 per million Btu of natural gas |
| 11 | savings or alternative compliance payment that |
| 12 | the retail natural gas supplier failed to achieve |
| 13 | or make, respectively. |
| 14 | "(3) Offsetting state penalties.—The |
| 15 | Secretary shall reduce the amount of any penalty |
| 16 | under paragraph (2) by the amount paid by the rel- |
| 17 | evant retail electricity supplier or retail natural gas |
| 18 | supplier to a State for failure to comply with the re- |
| 19 | quirements of a State energy efficiency resource |
| 20 | standard during the same compliance period, if the |
| 21 | State standard— |
| 22 | "(A) is comparable in type to performance |
| 23 | standards under subsection (c); and |
| 24 | "(B) is more stringent than the applicable |
| 25 | performance standard under subsection (c). |

| 1 | "(4) Use of payments.— |
|----|---|
| 2 | "(A) DEFINITION OF COVERED RATE.—In |
| 3 | this paragraph, the term 'covered rate' means |
| 4 | the proportion that— |
| 5 | "(i) the amount of penalty payments |
| 6 | made by retail electricity suppliers and |
| 7 | natural gas suppliers in a State under |
| 8 | paragraph (2); bears to |
| 9 | "(ii) the total amount of penalty pay- |
| 10 | ments collected by the Secretary under |
| 11 | that paragraph. |
| 12 | "(B) Use of payments.—Penalty pay- |
| 13 | ments collected under paragraph (2) by the |
| 14 | Secretary shall be— |
| 15 | "(i) provided to each State at the cov- |
| 16 | ered rate for the State; and |
| 17 | "(ii) used by the State to implement |
| 18 | cost-effective energy efficiency programs |
| 19 | that— |
| 20 | "(I) to the maximum extent prac- |
| 21 | ticable, achieve electricity savings and |
| 22 | natural gas savings in the State suffi- |
| 23 | cient to make up the deficit associated |
| 24 | with the penalty payments; and |

| 1 | "(II) are measured and verified |
|----|--|
| 2 | in accordance with the applicable pro- |
| 3 | cedures and standards established |
| 4 | under subsection (e). |
| 5 | "(5) Enforcement procedures.—The Sec- |
| 6 | retary shall assess a civil penalty, as provided under |
| 7 | paragraph (2), in accordance with the procedures |
| 8 | described in section 333(d) of the Energy Policy and |
| 9 | Conservation Act. |
| 10 | "(6) Judicial review.— |
| 11 | "(A) IN GENERAL.—Any person adversely |
| 12 | affected by a final action taken by the Sec- |
| 13 | retary under this section, other than the assess- |
| 14 | ment of a civil penalty, may use the procedures |
| 15 | for review described in section 336(b) of the |
| 16 | Energy Policy and Conservation Act. |
| 17 | "(B) Reference.—In this paragraph, |
| 18 | references to a rule in section 336(b) of the En- |
| 19 | ergy Policy and Conservation Act shall be con- |
| 20 | sidered to refer also to all other final actions of |
| 21 | the Secretary under this section other than the |
| 22 | assessment of a civil penalty. |
| 23 | "(g) State Programs.— |
| 24 | "(1) In general.—Upon receipt of an applica- |
| 25 | tion from the Governor of a State (including the |

- 1 Mayor of the District of Columbia), the Secretary 2 may authorize the State to implement a State en-3 ergy efficiency program in lieu of the Federal pro-4 gram established under subsection (b) if the Sec-5 retary determines that the requirements of such 6 State program meet or exceed the requirements of 7 such Federal program, including— "(A) achieving electricity savings and nat-8 9 ural gas savings that are equal to or greater 10 than savings required under the applicable per-
 - "(B) reviewing reports and verifying electricity savings and natural gas savings achieved in the State (including savings transferred from outside the State); and

formance standards under subsection (c);

- "(C) if applicable, collecting any alternative compliance payments under paragraph (4) and using the payments to implement cost-effective energy efficiency programs.
- "(2) Secretarial Determination.—Not later than 180 days after the date on which a complete application is received by the Secretary under this subsection, the Secretary, after public notice and opportunity for comment, shall approve or disapprove such application.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

"(3) ALTERNATIVE MEASUREMENT AND VERIFICATION PROCEDURES AND STANDARDS.—As part of an application pursuant to paragraph (1), a State may request to use alternative measurement and verification procedures and standards from the procedures and standards described in subsection (e), if the State demonstrates that the alternative procedures and standards provide a level of accuracy of measurement and verification that are at least equivalent to the Federal procedures and standards under subsection (e).

"(4) ALTERNATIVE COMPLIANCE PAYMENTS.—

"(A) In GENERAL.—As part of an application submitted under paragraph (1), a State may permit retail electricity suppliers or retail natural gas suppliers to pay to the State, by not later than May 1 of the calendar year immediately following the applicable reporting period, an alternative compliance payment in an amount equal to, as adjusted for inflation in accordance with such regulations as the Secretary may promulgate, not less than—

"(i) \$50 per megawatt hour of electricity savings needed to make up any def-

| 1 | icit in achieving electricity savings required |
|----|--|
| 2 | under the applicable State program; or |
| 3 | "(ii) \$5 per million Btu of natural gas |
| 4 | savings needed to make up any deficit in |
| 5 | achieving natural gas savings required |
| 6 | under the applicable State program. |
| 7 | "(B) USE OF PAYMENTS.—Alternative |
| 8 | compliance payments collected by a State under |
| 9 | subparagraph (A) shall be used by the State to |
| 10 | implement the State program authorized under |
| 11 | this section and to implement cost-effective en- |
| 12 | ergy efficiency programs that— |
| 13 | "(i) to the maximum extent prac- |
| 14 | ticable, achieve electricity savings and nat- |
| 15 | ural gas savings in the State sufficient to |
| 16 | make up the deficit associated with the al- |
| 17 | ternative compliance payments; and |
| 18 | "(ii) can be measured and verified in |
| 19 | accordance with the applicable procedures |
| 20 | and standards under subsection (e) or |
| 21 | paragraph (3), as applicable. |
| 22 | "(5) Review of State Program.— |
| 23 | "(A) Periodic Review.—Every 2 years, |
| 24 | the Secretary shall review State programs au- |
| 25 | thorized under this section in approximately ½ |

| 1 | of the States with such authorized State pro- |
|----|---|
| 2 | grams, so that each such State program shall |
| 3 | be reviewed at least every 4 years. |
| 4 | "(B) Report.—To facilitate review under |
| 5 | subparagraph (A), the Secretary may require a |
| 6 | State to submit a report demonstrating the |
| 7 | State program authorized under this section |
| 8 | meets the requirements of this section, includ- |
| 9 | ing— |
| 10 | "(i) reports submitted by retail elec- |
| 11 | tricity suppliers and retail natural gas sup- |
| 12 | pliers to the State demonstrating compli- |
| 13 | ance with applicable requirements; |
| 14 | "(ii) the impact of applicable require- |
| 15 | ments on projected electricity and natural |
| 16 | gas demand within the State; |
| 17 | "(iii) an accounting of the use of al- |
| 18 | ternative compliance payments by the |
| 19 | State and the resulting electricity savings |
| 20 | and natural gas savings achieved; and |
| 21 | "(iv) any other information that the |
| 22 | Secretary determines appropriate. |
| 23 | "(C) REVIEW UPON PETITION.—Notwith- |
| 24 | standing subparagraph (A), upon receipt of a |
| 25 | public petition containing credible allegation of |

| 1 | substantial deficiencies of a State program au- |
|----|--|
| 2 | thorized under this section, the Secretary shall |
| 3 | promptly re-review the State program. |
| 4 | "(D) Deficiencies.— |
| 5 | "(i) In general.—In completing a |
| 6 | review of a State program authorized |
| 7 | under this section, if the Secretary finds |
| 8 | deficiencies, the Secretary shall— |
| 9 | "(I) notify the State of the defi- |
| 10 | ciencies; |
| 11 | "(II) direct the State to correct |
| 12 | the deficiencies; and |
| 13 | "(III) require the State to report |
| 14 | to the Secretary on progress made by |
| 15 | not later than 180 days after the date |
| 16 | on which the State receives notice |
| 17 | under subclause (I). |
| 18 | "(ii) Substantial deficiencies.—If |
| 19 | the deficiencies are substantial, the Sec- |
| 20 | retary shall— |
| 21 | "(I) disallow the reported elec- |
| 22 | tricity savings or natural gas savings |
| 23 | that the Secretary determines are not |
| 24 | credible due to deficiencies; |

| 1 | "(II) re-review the State program |
|----|---|
| 2 | 2 years after the date on which the |
| 3 | original review was completed; and |
| 4 | "(III) if substantial deficiencies |
| 5 | remain uncorrected after the review |
| 6 | provided for under subclause (II), re- |
| 7 | voke the authorization for the State to |
| 8 | implement a State program under this |
| 9 | section. |
| 10 | "(6) Calls for revision of state applica- |
| 11 | TIONS.—As a condition of maintaining the author- |
| 12 | ization to implement a State program under this |
| 13 | section, the Secretary may require the State to sub- |
| 14 | mit a revised application under paragraph (1) if the |
| 15 | Secretary has— |
| 16 | "(A) established new or revised perform- |
| 17 | ance standards under subsection (e); |
| 18 | "(B) promulgated new or substantially re- |
| 19 | vised measurement and verification procedures |
| 20 | and standards under subsection (e); or |
| 21 | "(C) otherwise substantially revised the |
| 22 | Federal program established under this section. |
| 23 | "(h) Information and Reports.—In accordance |
| 24 | with section 13 of the Federal Energy Administration Act |
| 25 | of 1974, the Secretary may require any retail electricity |

- 1 supplier, retail natural gas supplier, third-party efficiency
- 2 provider, or any other entity that the Secretary determines
- 3 appropriate, to provide any information the Secretary de-
- 4 termines appropriate to carry out this section.
- 5 "(i) STATE LAW.—Nothing in this section diminishes
- 6 or qualifies any authority of a State or political subdivision
- 7 of a State to adopt or enforce any law or regulation re-
- 8 specting electricity savings or natural gas savings, includ-
- 9 ing any law or regulation establishing energy efficiency re-
- 10 quirements that are more stringent than those under this
- 11 section.
- 12 "(j) Sense of Congress Regarding Cost Recov-
- 13 ERY, FIXED COST RECOVERY, AND SHAREHOLDER IN-
- 14 CENTIVES.—It is the sense of Congress that each State
- 15 regulatory authority is encouraged to review the rules and
- 16 regulations of the State regulatory authority to ensure
- 17 that retail electric suppliers and retail natural gas sup-
- 18 pliers under its jurisdiction can—
- "(1) recover the direct costs of energy efficiency
- 20 programs;
- 21 "(2) fully recover authorized fixed costs, includ-
- ing lost margins from lower annual sales due to en-
- ergy efficiency programs; and
- 24 "(3) earn an incentive for shareholders if the
- energy efficiency standards are achieved.".

1 SEC. 3. CONFORMING AMENDMENT.

- 2 The table of contents of the Public Utility Regulatory
- 3 Policies Act of 1978 (16 U.S.C. prec. 2601) is amended
- 4 by adding at the end of the items relating to title VI the
- 5 following:

"Sec. 609. Rural and remote communities electrification grants.

"Sec. 610. Federal energy efficiency resource standard for retail electricity and natural gas suppliers.".

 \bigcirc