S. 20

To amend the Public Utility Regulatory Policies Act of 1978 to establish a Federal clean energy standard.

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 29, 2010

Mr. Graham introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To amend the Public Utility Regulatory Policies Act of 1978 to establish a Federal clean energy standard.

- 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.
- 4 This Act may be cited as the "Clean Energy Stand-
- 5 ard Act of 2010".
- 6 SEC. 2. SENSE OF CONGRESS ON CLEAN ENERGY AND EN-
- 7 ERGY EFFICIENCY.
- 8 It is the sense of Congress that the Federal Govern-
- 9 ment should continue to support the use and expansion
- 10 of clean energy and energy efficiency in—

1	(1) the production and use of energy;
2	(2) the reduction of greenhouse gas emissions;
3	and
4	(3) the reduction of dependence on foreign oil.
5	SEC. 3. FEDERAL CLEAN ENERGY STANDARD.
6	(a) In General.—Title VI of the Public Utility Reg-
7	ulatory Policies Act of 1978 (16 U.S.C. 2601 et seq.) is
8	amended by adding at the end the following:
9	"SEC. 610. FEDERAL CLEAN ENERGY STANDARD.
10	"(a) Definitions.—In this section:
11	``(1) ADVANCED COAL GENERATION.—The term
12	'advanced coal generation' means the generation of
13	electricity produced from coal by a new or existing
14	coal generating facility that captures and perma-
15	nently sequesters or stores at least 65 percent of
16	greenhouse gases produced by the facility.
17	"(2) Affiliate.—The term 'affiliate' when
18	used with respect to a person, means another person
19	that directly or indirectly owns or controls, is owned
20	or controlled by, or is under common ownership or
21	control with, such person, as determined under regu-
22	lations issued by the Secretary.
23	"(3) Base quantity of electricity.—
24	"(A) IN GENERAL.—The term 'base quan-
25	tity of electricity' means the total quantity of

1	electricity sold by an electric utility to electric
2	consumers in a calendar year.
3	"(B) Exclusions.—The term 'base quan-
4	tity of electricity' does not include—
5	"(i) electricity generated by a hydro-
6	electric facility (including a pumped stor-
7	age facility but excluding qualified hydro-
8	power) owned by an electric utility or sold
9	under contract or rate order to an electric
10	utility to meet the needs of the retail cus-
11	tomers of the utility; or
12	"(ii) electricity generated through the
13	incineration of municipal solid waste owned
14	by an electric utility or sold under contract
15	or rate order to an electric utility to meet
16	the needs of the retail customers of the
17	utility.
18	"(4) Biomass.—The term 'biomass' means—
19	"(A) materials, precommercial thinnings,
20	or invasive species from National Forest Sys-
21	tem land and public lands (as defined in section
22	103 of the Federal Land Policy and Manage-
23	ment Act of 1976 (43 U.S.C. 1702)) that—
24	"(i) are byproducts of preventive
25	treatments that are removed—

1	"(I) to reduce hazardous fuels;
2	"(II) to reduce or contain disease
3	or insect infestation; or
4	"(III) to restore ecosystem
5	health;
6	"(ii) would not otherwise be used for
7	higher-value products; and
8	"(iii) are harvested in accordance
9	with—
10	"(I) applicable law and land
11	management plans; and
12	"(II) the requirements for—
13	"(aa) old-growth mainte-
14	nance, restoration, and manage-
15	ment direction of paragraphs (2),
16	(3), and (4) of subsection (e) of
17	section 102 of the Healthy For-
18	ests Restoration Act of 2003 (16
19	U.S.C. 6512); and
20	"(bb) large-tree retention of
21	subsection (f) of that section; or
22	"(B) any organic matter that is available
23	on a renewable or recurring basis from non-
24	Federal land or land belonging to an Indian or
25	Indian tribe that is held in trust by the United

1	States or subject to a restriction against alien-
2	ation imposed by the United States, including—
3	"(i) renewable plant material, includ-
4	ing—
5	"(I) feed grains;
6	"(II) other agricultural commod-
7	ities;
8	"(III) other plants and trees; and
9	"(IV) algae; and
10	"(ii) waste material, other than paper
11	commonly recycled, including—
12	"(I) crop residue;
13	"(II) other vegetative waste ma-
14	terial (including wood waste and wood
15	residues);
16	"(III) animal waste and byprod-
17	ucts (including fats, oils, greases, and
18	manure); and
19	"(IV) food waste and yard waste;
20	and
21	"(C) residues and byproducts from wood,
22	pulp, or paper products facilities.
23	"(5) CLEAN ENERGY.—The term 'clean energy'
24	means electric energy generated at a facility (includ-
25	ing a distributed generation facility) from—

1	"(A) solar, wind, geothermal, or ocean en-
2	ergy;
3	"(B) biomass;
4	"(C) landfill gas;
5	"(D) qualified hydropower;
6	"(E) marine and hydrokinetic renewable
7	energy (as defined in section 632 of the Energy
8	Independence and Security Act of 2007 (42
9	U.S.C. 17211));
10	"(F) incremental geothermal production;
11	"(G) coal-mined methane;
12	"(H) qualified waste-to-energy;
13	"(I) qualified nuclear energy;
14	"(J) advanced coal generation;
15	"(K) eligible retired fossil fuel generation;
16	or
17	"(L) another clean energy source based on
18	innovative technology, as determined by the
19	Secretary through rulemaking.
20	"(6) Distributed generation facility.—
21	The term 'distributed generation facility' means a
22	facility at or near a customer site that provides elec-
23	tric energy to 1 or more customers for purposes
24	other than resale other than to a utility through a
25	net metering arrangement.

1	"(7) Eligible retired fossil fuel genera-
2	TION.—The term 'eligible retired fossil fuel genera-
3	tion' means the generation of electricity from any
4	fossil fuel that is—
5	"(A) produced by a fossil fuel generating
6	facility (including any petroleum coke or oil-
7	fired steam unit or peaking facility) that had
8	average carbon dioxide emissions during the 3-
9	year period ending on the date of retirement in
10	excess of 2,250 pounds per megawatt hour of
11	generation; and
12	"(B) permanently retired during the period
13	beginning on the date of enactment of this sec-
14	tion and ending on January 1, 2015.
15	"(8) Geothermal energy.—The term 'geo-
16	thermal energy means energy derived from a geo-
17	thermal deposit (within the meaning of section
18	613(e)(2) of the Internal Revenue Code of 1986).
19	"(9) Incremental cost of compliance.—
20	"(A) IN GENERAL.—The term 'incremental
21	cost of compliance' means—
22	"(i) the costs attributable to all retail
23	sales of electricity incurred in a year by an
24	electric utility to—

1	"(I) generate clean energy eligi-
2	ble for Federal clean energy credits;
3	"(II) acquire Federal clean en-
4	ergy credits; or
5	"(III) make alternative compli-
6	ance payments in order to comply
7	with the requirements of subsection
8	(b); less
9	"(ii)(I) the costs the electric utility
10	would have incurred to serve all of the re-
11	tail customers of that electric utility in
12	that year to generate or acquire additional
13	electricity not eligible for clean energy
14	credits if the requirements of subsection
15	(b) did not apply to the electric utility; and
16	"(II) the costs of compliance with any
17	comparable State clean energy require-
18	ment.
19	"(B) Cost of electricity.—In calcu-
20	lating the incremental cost of compliance of an
21	electric utility under this section, the Secretary
22	shall take into account the reduction, if any, in
23	the cost of electricity generated with fossil fuels
24	associated with increased reliance on clean en-
25	ergy generation.

I	"(10) Incremental fossil fuel produc-
2	TION.—The term 'incremental fossil fuel production'
3	means the incremental quantity of electricity gen-
4	erated at an existing fossil fuel generation facility
5	over the average quantity of electricity generated at
6	the facility during the preceding 3-year period that
7	is attributable to permanent efficiency improvements
8	or capacity additions made on or after the date of
9	enactment of this section, if there is no increase in
10	greenhouse gas emissions associated with the effi-
11	ciency improvements or capacity additions when
12	compared to the average greenhouse gas emissions
13	during the preceding 3-year period.
14	"(11) Incremental Geothermal Produc-
15	TION.—
16	"(A) IN GENERAL.—The term 'incremental
17	geothermal production' means, for any year, the
18	excess of—
19	"(i) the total kilowatt hours of elec-
20	tricity produced from a facility (including a
21	distributed generation facility) using geo-
22	thermal energy; over
23	"(ii) the average number of kilowatt
24	hours produced annually at the facility for
25	5 of the previous 7 calendar years before

the date of enactment of this section after eliminating the highest and the lowest kilowatt hour production years in that 7-year period.

"(B) SPECIAL RULE.—A facility described in subparagraph (A) that was placed in service at least 7 years before the date of enactment of this section shall, commencing with the year in which that date of enactment occurs, reduce the amount calculated under subparagraph (A)(ii) each year, on a cumulative basis, by the average percentage decrease in the annual kilowatt hour production for the 7-year period described in subparagraph (A)(ii) with such cumulative sum, but not to exceed 30 percent.

"(12) Incremental hydropower.—

- "(A) IN GENERAL.—The term 'incremental hydropower' means additional energy generated as a result of efficiency improvements or capacity additions made on or after January 1, 1992.
- "(B) EXCLUSION.—The term 'incremental hydropower' does not include additional energy generated as a result of operational changes not directly associated with efficiency improvements or capacity additions.

1	"(C) Measurement and certifi-
2	CATION.—Efficiency improvements and capacity
3	additions referred to in subparagraph (A) shall
4	be—
5	"(i) measured on the basis of the
6	same water flow information used to deter-
7	mine a historic average annual generation
8	baseline for the hydroelectric facility; and
9	"(ii) certified by the Secretary or the
10	Federal Energy Regulatory Commission.
11	"(13) Incremental nuclear production.—
12	The term 'incremental nuclear production' means
13	the incremental quantity of energy generated by an
14	existing nuclear facility over the average quantity of
15	energy generated at the facility during the preceding
16	3-year period that is attributable to permanent effi-
17	ciency improvements or capacity additions made on
18	or after the date of enactment of this section.
19	"(14) Indian Land.—The term 'Indian land'
20	has the meaning given the term in section 2601 of
21	the Energy Policy Act of 1992 (25 U.S.C. 3501).
22	"(15) Qualified hydropower.—
23	"(A) IN GENERAL.—The term 'qualified
24	hydropower' means—
25	"(i) incremental hydropower;

1	"(ii) additions of capacity made on or
2	after January 1, 2001, or the effective
3	commencement date of an existing applica-
4	ble State clean or renewable electricity
5	standard program at an existing nonhydro-
6	electric dam, if—
7	"(I) the hydroelectric project in-
8	stalled on the nonhydroelectric dam—
9	"(aa) is licensed by the Fed-
10	eral Energy Regulatory Commis-
11	sion, or is exempt from licensing,
12	and is in compliance with the
13	terms and conditions of the li-
14	cense or exemption; and
15	"(bb) meets all other appli-
16	cable environmental, licensing,
17	and regulatory requirements, in-
18	cluding applicable fish passage
19	requirements;
20	"(II) the nonhydroelectric dam—
21	"(aa) was placed in service
22	before the date of enactment of
23	this section;

1	"(bb) was operated for flood
2	control, navigation, or water sup-
3	ply purposes; and
4	"(ce) did not produce hydro-
5	electric power as of the date of
6	enactment of this section; and
7	"(III) the hydroelectric project is
8	operated so that the water surface ele-
9	vation at any given location and time
10	that would have occurred in the ab-
11	sence of the hydroelectric project is
12	maintained, subject to any license re-
13	quirements imposed under applicable
14	law that change the water surface ele-
15	vation for the purpose of improving
16	the environmental quality of the af-
17	fected waterway, as certified by the
18	Federal Energy Regulatory Commis-
19	sion; and
20	"(iii) in the case of the State of Alas-
21	ka—
22	"(I) energy generated by a small
23	hydroelectric facility that produces
24	less than 50 megawatts;

1	"(II) energy from pumped stor-
2	age; and
3	"(III) energy from a lake tap.
4	"(B) Standards.—Nothing in this para-
5	graph or the application of this paragraph shall
6	affect the standards under which the Federal
7	Energy Regulatory Commission issues licenses
8	for and regulates hydropower projects under
9	part I of the Federal Power Act (16 U.S.C.
10	791a et seq.).
11	"(16) Qualified nuclear energy.—The
12	term 'qualified nuclear energy' means energy from a
13	nuclear generating unit placed in service on or after
14	the date of enactment of this section.
15	"(17) QUALIFIED WASTE-TO-ENERGY.—The
16	term 'qualified waste-to-energy' means energy from
17	the combustion of post-recycled municipal solid
18	waste, or from the gasification or pyrolization of
19	such waste and the combustion of the resulting gas
20	at the same facility, if the owner or operator of the
21	facility generating electricity from the energy pro-
22	vides to the Secretary, on an annual basis—
23	"(A) a certification that the facility is in
24	compliance with all applicable Federal and
25	State environmental permits:

1 "(B) in the case of a facility that com-2 mences operation before the date of enactment 3 of this section, a certification that the facility 4 meets emissions standards promulgated under 5 section 112 or 129 of the Clean Air Act (42 6 U.S.C. 7412, 7429) that apply as of the date 7 of enactment of this section to new facilities 8 within the relevant source category; and 9 "(C) in the case of the combustion, pyrolization, or gasification of municipal solid 10 11 waste, a certification that each local govern-12 ment unit from which such waste originates op-13 erates, participates in the operation of, con-14 tracts for, or otherwise provides for, recycling 15 services for residents of the local government

17 "(b) Clean Energy and Energy Efficiency Re-18 Quirement.—

19 "(1) REQUIREMENT.—

unit.

"(A) IN GENERAL.—Subject to subparagraph (B), each electric utility that sells electricity to electric consumers for a purpose other than resale shall obtain a percentage of the base quantity of electricity the electric utility

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1	sells to electric consumers in any calendar year
2	from clean energy or energy efficiency.
3	"(B) Percentage.—Except as provided
4	in section 611, the percentage obtained in a cal-
5	endar year under subparagraph (A) shall not be
6	less than the amount specified in the following
7	table:
	"Calendar year: Minimum annual percentage:
	2013 and 2014 13 2015 through 2019 15 2020 through 2024 20 2025 through 2029 25 2030 through 2034 30 2035 through 2039 35 2040 through 2044 40 2045 through 2049 45 2050 50
8	"(2) Means of compliance.—An electric util-
9	ity shall meet the requirements of paragraph (1)
10	by—
11	"(A) submitting to the Secretary clean en-
12	ergy credits issued under subsection (c);
13	"(B) submitting Federal energy efficiency
14	credits issued under subsection (i), except that
15	those credits may not be used to meet more
16	than 25 percent of the requirements under
17	paragraph (1) in any calendar year;
18	"(C) making alternative compliance pay-
19	ments to the Secretary at the rate of 3.5 cents
20	per kilowatt hour (as adjusted for inflation

1	under subsection (g)) if the electric utility does
2	not elect to petition the Secretary to waive the
3	requirements under subsection (d)(3)(C); or
4	"(D) a combination of activities described
5	in subparagraphs (A), (B), and (C).
6	"(3) Phase-in.—The Secretary shall prescribe,
7	by regulation, a reasonable phase-in of the require-
8	ments of paragraph (1) as the requirements apply to
9	an electric utility that becomes subject to this sec-
10	tion on or after January 1, 2013.
11	"(c) Federal Clean Energy and Energy Effi-
12	CIENCY CREDIT TRADING PROGRAMS.—
13	"(1) In General.—Not later than January 1,
14	2011, the Secretary shall establish a Federal clean
15	energy credit trading program, and a Federal energy
16	efficiency credit trading program, under which elec-
17	tric utilities shall submit to the Secretary Federal
18	clean energy credits and Federal energy efficiency
19	credits to certify the compliance of the electric utili-
20	ties with subsection (b)(1).
21	"(2) Administration.—As part of the pro-
22	gram, the Secretary shall—
23	"(A) issue clean energy credits to genera-
24	tors of electric energy from clean energy, re-
25	gardless of whether the energy is transmitted

1	over the national interstate transmission sys-
2	tem;
3	"(B) to the extent that clean sources of
4	electricity are used in combination with other
5	sources of energy, issue credits only to the ex-
6	tent that the electricity generated is from clean
7	energy resources;
8	"(C) issue clean energy credits to electric
9	utilities associated with State clean energy
10	standard compliance mechanisms pursuant to
11	subsection (h);
12	"(D) issue energy efficiency credits pursu-
13	ant to subsection (i);
14	"(E) subject to subparagraph (F), ensure
15	that a kilowatt hour, including the associated
16	clean energy credit or energy efficiency credit,
17	shall be used only once for purposes of compli-
18	ance with this Act;
19	"(F) allow double credits for generation
20	from facilities on Indian land, and triple credits
21	for generation from small clean energy distrib-
22	uted generators no larger than 1 megawatt, ex-
23	cept that no distributed clean energy generation
24	facilities on Indian land shall receive a greater
25	number of credits than triple credits;

1	"(G) ensure that, with respect to a pur-
2	chaser that, as of the date of enactment of this
3	section, has a purchase agreement from a clean
4	energy facility placed in service before that
5	date, the credit associated with the generation
6	of clean energy under the contract is issued to
7	the purchaser of the electric energy to the ex-
8	tent that the contract does not already provide
9	for the allocation of the Federal credit;
10	"(H) in the case of eligible retired fossil
11	fuel generation, issue 0.25 credits per kilowatt
12	hour during the 3 year-period beginning on the
13	date of retirement based on the average annual
14	quantity of electricity generated by eligible re-
15	tired fossil fuel generation during the final 3
16	years of operation of the facility;
17	"(I) calculate the quantity of clean energy
18	credits issued for advanced coal generation,
19	which shall be equal to the product obtained by
20	multiplying—
21	"(i) the kilowatt hours of electricity
22	generated by a facility and supplied to the
23	grid during the prior year; by
24	"(ii) during the same year, the ratio
25	of—

1	"(I) the quantity of carbon diox-
2	ide captured from the facility and se-
3	questered; bears to
4	"(II) the sum of—
5	"(aa) the quantity of carbon
6	dioxide captured from the facility
7	and sequestered; and
8	"(bb) the quantity of carbon
9	dioxide emitted from the facility;
10	"(J) issue double clean energy credits in
11	the case of the first 5 new advanced coal gen-
12	eration facilities that permanently sequester a
13	minimum of 1,000,000 tons per year of carbon
14	dioxide into deep geologic formations;
15	"(K) issue double credits in the case of the
16	first 5 retrofitted coal plants that are advanced
17	coal generators, if the retrofitted facilities cap-
18	ture at least 200 MWe equivalent of flue gas
19	and sequester carbon dioxide into deep geologic
20	formations;
21	"(L) in the case of credits issued under
22	subparagraphs (J) and (K), if the qualifying
23	project uses captured carbon dioxide for pur-
24	poses of enhanced hydrocarbon recovery, reduce
25	the credits by .25; and

1	"(M) issue clean energy credits for the
2	useful electric and thermal output from a facil-
3	ity that produces the output from biomass,
4	using a system under which—
5	"(i) in the case of efficiency that is
6	less than 50 percent, 1 clean energy credit
7	is awarded;
8	"(ii) in the case of efficiency that is
9	50 percent or more but less than 70 per-
10	cent, 1.1 clean energy credits are awarded
11	for the same unit output;
12	"(iii) in the case of efficiency that is
13	70 percent or more but less than 90 per-
14	cent, 1.25 clean energy credits are awarded
15	for the same unit output; and
16	"(iv) in the case of efficiency that is
17	90 percent or more, 1.5 clean energy cred-
18	its are awarded for the same unit output.
19	"(3) Clean energy credit borrowing.—At
20	any time before the end of calendar year 2015 and
21	any subsequent calendar year, an electric utility that
22	has reason to believe the electric utility will not have
23	sufficient clean energy credits to comply with sub-
24	section (b) may—

"(A) submit to the Secretary a plan that demonstrates that the electric utility, as a con-sequence of having facilities under construction at the time the plan is submitted, will earn suf-ficient clean energy credits during the subse-quent 3 calendar years to meet the require-ments of subsection (b) for calendar year 2015 and the subsequent calendar years affected; and

"(B) on approval of the plan by the Secretary, apply clean energy credits that the plan demonstrates will be earned during the subsequent 3 calendar years to meet the requirements of subsection (b) for each calendar year affected.

"(4) Credit trading and banking.—

"(A) IN GENERAL.—An electric utility that holds clean energy credits in excess of the quantity of credits needed to comply with subsection (b) may transfer the credits to another electric utility in the same utility holding company system or sell the credits to another electric utility.

"(B) CARRYING FORWARD.—A clean energy credit for any year that is not used to satisfy the minimum clean energy requirements of

1	subsection (b) for that year may be carried for-
2	ward for use in any subsequent year.
3	"(5) Delegation of Market Function.—
4	"(A) In General.—The Secretary may
5	delegate to—
6	"(i) an appropriate market-making
7	entity the administration of a national
8	clean energy credit market and a national
9	energy efficiency credit market for pur-
10	poses of creating a transparent national
11	market for the sale or trade of clean en-
12	ergy credits and energy efficiency credits
13	and
14	"(ii) regional entities the tracking of
15	dispatch of clean energy generation.
16	"(B) Administration.—Any delegation
17	under subparagraph (A) shall ensure that the
18	tracking and reporting of information con-
19	cerning the dispatch of clean energy generation
20	is transparent, verifiable, and independent of
21	any generation or load interests with obligations
22	under this section.
23	"(d) Enforcement.—

1	"(1) CIVIL PENALTIES.—Any electric utility
2	that fails to meet the requirements of subsection (b)
3	shall be subject to a civil penalty.
4	"(2) Amount of Penalty.—The amount of
5	the civil penalty shall be equal to the product ob-
6	tained by multiplying—
7	"(A) the number of kilowatt hours of elec-
8	tric energy sold to electric consumers in viola-
9	tion of subsection (b); by
10	"(B) 200 percent of the value of the alter-
11	native compliance payment, as adjusted for in-
12	flation under subsection (g).
13	"(3) MITIGATION OR WAIVER.—
14	"(A) Penalty.—
15	"(i) In General.—The Secretary
16	shall mitigate or waive a civil penalty
17	under this subsection if the electric utility
18	is unable to comply with subsection (b) due
19	to a reason outside of the reasonable con-
20	trol of the electric utility.
21	"(ii) Amount.—The Secretary shall
22	reduce the amount of any penalty deter-
23	mined under paragraph (2) by the amount
24	paid by the electric utility to a State for
25	failure to comply with the requirement of

a State clean or renewable energy program
if the State requirement is greater than
the applicable requirement of subsection
(b).

"(B) REQUIREMENT.—The Secretary may waive the requirements of subsection (b) for a period of up to 5 years with respect to an electric utility if the Secretary determines that the electric utility cannot meet the requirements due to a hurricane, tornado, fire, flood, earthquake, ice storm, or other natural disaster or act of God beyond the reasonable control of the utility.

"(C) RATEPAYER PROTECTION.—

"(i) IN GENERAL.—Subject to clause (ii), effective beginning June 1, 2013, and not later than June 1 of each year thereafter, an electric utility may petition the Secretary to waive, for the following compliance year, all or part of the requirements of subsection (b) in order to limit the rate impact of the incremental cost of compliance of the electric utility to not more than 4 percent per retail customer in any year.

1	"(ii) Requirements.—
2	"(I) Exhaustion of opportu-
3	NITIES.—The Secretary may waive all
4	or part of the requirements of sub-
5	section (b) only on a demonstration by
6	the petitioner that the petitioner has
7	exhausted all opportunities under this
8	section to comply with the require-
9	ments of subsection (b).
10	"(II) LIMITATIONS.—Any waiver
11	granted by the Secretary under this
12	subparagraph shall be limited to the
13	maximum extent practicable while en-
14	suring that the increased cost of com-
15	pliance does not exceed 4 percent per
16	retail customer for any year.
17	"(D) VARIANCE.—A State public utility
18	commission or electric utility may submit an
19	application to the Secretary that requests a
20	variance from the requirements of subsection
21	(b) for 1 or more calendar years (including sus-
22	pension or reduction of the requirements) on
23	the basis of transmission constraints preventing
24	delivery of clean energy.

1 "(4) PROCEDURE FOR ASSESSING PENALTY.—
2 The Secretary shall assess a civil penalty under this
3 subsection in accordance with the procedures pre4 scribed by section 333(d) of the Energy Policy and
5 Conservation Act (42 U.S.C. 6303(d)).

"(e) ALTERNATIVE COMPLIANCE PAYMENTS.—

"(1) IN GENERAL.—An electric utility may satisfy the requirements of subsection (b), in whole or in part, by submitting in accordance with this subsection, in lieu of each Federal clean energy credit or megawatt hour of demonstrated total annual electricity savings that would otherwise be due, a payment equal to the amount required under subsection (b) in accordance with such regulations as the Secretary may promulgate.

"(2) Payment to state funds.—Payments made under this subsection shall be made directly to the 1 or more States in which the electric utility is located, in proportion to the base quantity of a retail electric supplier that is within each applicable State, if the payments are deposited directly into a fund within the treasury of the State for use in accordance with paragraph (3).

1	"(3) Use of grants.—The Governor of any
2	State may expend amounts in a State clean energy
3	escrow account solely for purposes of—
4	"(A) increasing the quantity of electric en-
5	ergy produced from a clean energy source in the
6	State, including nuclear and advanced coal
7	technologies for carbon capture and sequestra-
8	tion;
9	"(B) promoting the deployment and use of
10	electric drive vehicles in the State, including the
11	development of electric drive vehicles and bat-
12	teries; and
13	"(C) offsetting the costs of carrying out
14	this section paid by electric consumers in the
15	State through—
16	"(i) direct grants to electric con-
17	sumers; or
18	"(ii) energy efficiency investments.
19	"(4) Information and reports.—As a condi-
20	tion of providing payments to a State under this
21	subsection, the Secretary may require the Governor
22	to keep such accounts or records, and furnish such
23	information and reports, as the Secretary determines
24	are necessary and appropriate for determining com-
25	pliance with this subsection.

1	"(f) Exemptions.—
2	"(1) In general.—During any calendar year
3	this section shall not apply to an electric utility—
4	"(A) that sold less than 4,000,000 mega-
5	watt hours of electric energy to electric con-
6	sumers during the preceding calendar year, ex-
7	cept that sales to an affiliate, lessee, or tenant
8	of the electric utility shall not be treated as
9	sales to electric consumers under this para-
10	graph; or
11	"(B) in Hawaii.
12	"(2) Administration.—
13	"(A) VOLUNTARY COVERAGE.—Paragraph
14	(1) shall not apply to an electric utility de-
15	scribed in paragraph (1) that voluntary elects
16	to be covered by this section.
17	"(B) Sale of Clean energy credits.—
18	An electric utility that is not covered by this
19	section and has not elected to be covered by
20	this section shall not be eligible to sell any cred-
21	its generated pursuant to this section to any
22	other person.
23	"(g) Inflation Adjustment.—Not later than De-
24	cember 31 of each year beginning in 2011, the Secretary

1	shall adjust for inflation the rate of the alternative compli-
2	ance payment under subsection (b)(2)(C).
3	"(h) State Programs.—
4	"(1) In general.—Subject to paragraph (2),
5	nothing in this section diminishes any authority of
6	a State or political subdivision of a State to adopt
7	or enforce any law or regulation respecting clean en-
8	ergy or energy efficiency, or the regulation of electric
9	utilities.
10	"(2) Compliance.—Except as provided in sub-
11	section (d)(3), no such law or regulation shall relieve
12	any person of any requirement otherwise applicable
13	under this section.
14	"(3) COORDINATION.—The Secretary, in con-
15	sultation with States having such clean energy and
16	energy efficiency programs, shall, to the maximum
17	extent practicable, facilitate coordination between
18	the Federal program and State programs.
19	"(4) Regulations.—
20	"(A) In General.—The Secretary, in con-
21	sultation with States, shall promulgate regula-
22	tions to ensure that an electric utility that is
23	subject to the requirements of this section and

is subject to a State renewable energy or clean

1	energy standard receives clean energy credits
2	if—
3	"(i) the electric utility complies with
4	the State standard by generating or pur-
5	chasing clean energy or renewable energy
6	certificates or credits representing clean
7	energy; or
8	"(ii) the State imposes or allows other
9	mechanisms for achieving the State stand-
10	ard, including the payment of taxes, fees,
11	surcharges, or other financial obligations.
12	"(B) Amount of credits.—The amount
13	of credits received by an electric utility under
14	this subsection shall equal—
15	"(i) in the case of subparagraph
16	(A)(i), the quantity of clean energy result-
17	ing from the generation or purchase by the
18	electric utility of clean energy; and
19	"(ii) in the case of subparagraph
20	(A)(ii), the pro rata share of the electric
21	utility, based on the contributions to the
22	mechanism made by the electric utility or
23	customers of the electric utility, in the
24	State, of the quantity of clean energy re-
25	sulting from those mechanisms.

1	"(C) Prohibition on double count-
2	ING.—The regulations promulgated under this
3	paragraph shall ensure that a kilowatt hour as-
4	sociated with a clean energy credit issued pur-
5	suant to this subsection shall not be used for
6	compliance with this section more than once.
7	"(i) Energy Efficiency Credits.—
8	"(1) Definitions.—In this subsection:
9	"(A) CUSTOMER FACILITY SAVINGS.—The
10	term 'customer facility savings' means a reduc-
11	tion in the consumption of end-use electricity at
12	a facility of an end-use consumer of electricity
13	served by an electric utility, as compared to—
14	"(i) consumption at the facility during
15	a base year, taking into account reductions
16	attributable to causes other than energy ef-
17	ficiency investments (such as economic
18	downturns, reductions in customer base,
19	favorable weather conditions, or other such
20	causes); or
21	"(ii) in the case of new equipment (re-
22	gardless of whether the new equipment re-
23	places existing equipment at the end of the
24	useful life of the existing equipment), con-
25	sumption by similar equipment of average

1	efficiency available for purchase at the
2	time that new equipment is acquired.
3	"(B) ELECTRICITY SAVINGS.—The term
4	'electricity savings' means—
5	"(i) customer facility savings of elec-
6	tricity consumption adjusted to reflect any
7	associated increase in fuel consumption at
8	the facility;
9	"(ii) reductions in distribution system
10	losses of electricity achieved by a retail
11	electricity distributor, as compared to
12	losses attributable to new or replacement
13	distribution system equipment of average
14	efficiency (as defined by the Secretary by
15	regulation); and
16	"(iii) the output of new combined heat
17	and power systems, to the extent provided
18	under paragraph (5).
19	"(C) QUALIFIED ELECTRICITY SAVINGS.—
20	The term 'qualified electricity savings' means
21	electricity saving that meet the measurement
22	and verification requirements of paragraph (4).
23	"(2) Petition.—On petition by the Governor
24	of a State or, in the case of the power service area
25	of the Tennessee Valley Authority, the Board of Di-

1	rectors of the Tennessee Valley Authority, the Sec-
2	retary shall allow up to 25 percent of the require-
3	ments of an electric utility under subsection (b)(1)
4	associated with the sales of electricity of the utility
5	in the State to be met by submitting Federal energy
6	efficiency credits issued pursuant to this subsection.
7	"(3) Issuance of energy efficiency cred-
8	ITS.—
9	"(A) IN GENERAL.—The Secretary shall
10	issue energy efficiency credits for qualified elec-
11	tricity savings achieved in States described in
12	paragraph (2) in accordance with this sub-
13	section.
14	"(B) QUALIFIED ELECTRICITY SAVINGS.—
15	Subject to subparagraph (C), in accordance
16	with regulations promulgated by the Secretary,
17	the Secretary shall issue credits for—
18	"(i) qualified electricity savings
19	achieved by an electric utility on or after
20	the date of enactment of this section; and
21	"(ii) qualified electricity savings
22	achieved by other entities (including State
23	agencies) on or after the date of enactment
24	of this section if—

1	"(I) the measures used to achieve
2	the qualified electricity savings were
3	installed or placed in operation by the
4	entity seeking the credit; and
5	"(II) an electric utility eligible to
6	receive efficiency credits did not pay a
7	substantial portion of the cost of
8	achieving the qualified electricity sav-
9	ings (unless the utility has waived any
10	entitlement to the credit).
11	"(C) Standards.—No credits shall be
12	issued for electricity savings achieved as a re-
13	sult of compliance with a national, State, or
14	local building, equipment, or appliance effi-
15	ciency standard.
16	"(4) Measurement and verification of
17	ELECTRICITY SAVINGS.—Not later than January
18	2012, the Secretary shall promulgate regulations re-
19	garding the measurement and verification of elec-
20	tricity savings under this subsection, including regu-
21	lations covering—
22	"(A) procedures and standards for defining
23	and measuring electricity savings that will be
24	eligible to receive credits under paragraph (3),
25	which shall—

1	"(i) specify the types of energy effi-
2	ciency and energy conservation that will be
3	eligible for the credits;
4	"(ii) require that energy consumption
5	for customer facilities or portions of facili-
6	ties in the applicable base and current
7	years be adjusted, as appropriate, to ac-
8	count for changes in weather, level of pro-
9	duction, and building area;
10	"(iii) account for the useful life of
11	electricity savings measures;
12	"(iv) include specified electricity sav-
13	ings values for specific, commonly-used ef-
14	ficiency measures; and
15	"(v) exclude electricity savings that—
16	"(I) are not properly attributable
17	to measures carried out by the entity
18	seeking the credit;
19	"(II) have already been credited
20	under this section to another entity;
21	or
22	"(III) do not result from actions
23	not intended to achieve electricity sav-
24	ings;

1	"(B) procedures and standards for third
2	party verification of reported electricity savings;
3	and
4	"(C) such requirements for information,
5	reports, and access to facilities as may be nec-
6	essary to carry out this subsection.
7	"(5) Combined heat and power.—
8	"(A) In General.—Under regulations
9	promulgated by the Secretary, the increment of
10	electricity output of a new combined heat and
11	power system that is attributable to the higher
12	efficiency of the combined system (as compared
13	to the efficiency of separate production of the
14	electric and thermal outputs), shall be consid-
15	ered electricity savings under this subsection.
16	"(B) Existing systems.—In addition to
17	subparagraph (A), the regulations shall apply to
18	the increment of electricity output of an exist-
19	ing combined heat and power system that is at-
20	tributable to permanent efficiency improve-
21	ments or capacity additions.
22	"(6) Incremental nuclear and incre-
23	MENTAL FOSSIL FUEL PRODUCTION.—
24	"(A) In general.—Subject to subpara-
25	graph (B), under regulations promulgated by

1	the Secretary, the increment of electricity out-
2	put attributable to incremental nuclear produc-
3	tion and incremental fossil fuel production shall
4	be considered electricity savings under this sub-
5	section.
6	"(B) LIMITATION.—The increment of elec-
7	tricity output described in subparagraph (A)
8	shall meet not more than 10 percent of the
9	total obligation of an electric utility under sub-
10	section (b).
11	"(j) Biomass Harvesting and Sustainability.—
12	The provisions of this section relating to biomass shall be
13	administered in accordance with section 203(e) of the En-
14	ergy Policy Act of 2005 (42 U.S.C. 15852(e)).
15	"(k) Loans for Projects To Comply With Fed-
16	ERAL CLEAN ENERGY STANDARD.—
17	"(1) Purposes.—The purposes of this sub-
18	section are—
19	"(A) to reduce the cost incurred by electric
20	utilities in complying with the requirements of
21	this section; and
22	"(B) to minimize the impact of the re-
23	quirements on electricity rates for consumers.
24	"(2) Loans.—The Secretary shall make loans
25	available to electric utilities to carry out qualified

1	projects approved by the Secretary to comply with
2	the requirements of this section.
3	"(3) Qualified projects.—
4	"(A) In GENERAL.—A loan may be made
5	under this subsection for a project—
6	"(i) to construct a clean energy gen-
7	eration facility;
8	"(ii) to install an energy efficiency or
9	electricity demand reduction technology; or
10	"(iii) to carry out any other project
11	approved by the Secretary that the Sec-
12	retary determines is consistent with the
13	purposes of this subsection.
14	"(B) DISAPPROVAL.—The Secretary may
15	disapprove an application for a loan for a
16	project under this subsection if the Secretary
17	determines that—
18	"(i) the revenues generated under the
19	project are unlikely to be sufficient to
20	cover the repayment obligations of the pro-
21	posed loan; or
22	"(ii) the project is not otherwise con-
23	sistent with the purposes of this sub-
24	section.

1	"(4) Terms.—A loan made by the Secretary to
2	an electric utility under this subsection shall—
3	"(A) be for a term of not to exceed 30
4	years; and
5	"(B) bear an annual interest rate that is
6	50 basis points more than the Federal funds
7	rate established by the Board of Governors of
8	the Federal Reserve System.
9	"(5) Priority.—Notwithstanding any other
10	provision of law, the debt to the Federal Government
11	under a loan made to an electric utility under this
12	subsection shall have priority in any case in which
13	the electric utility files for bankruptcy protection
14	under title 11, United States Code.
15	"(6) Authorization of appropriations.—
16	There are authorized to be appropriated such sums
17	as are necessary to carry out this subsection.
18	"(l) Reconsideration.—
19	"(1) Review.—
20	"(A) IN GENERAL.—Not later than Janu-
21	ary 15, 2017, and every 5 years thereafter, the
22	Secretary shall review and make recommenda-
23	tions to Congress on the program established
24	under this section.

1	"(B) Analysis.—The review shall analyze
2	whether—
3	"(i) the program established under
4	this section has contributed to an economi-
5	cally harmful increase in electricity rates in
6	regions of the United States;
7	"(ii) the program has resulted in net
8	economic benefits for the United States;
9	and
10	"(iii) new technologies and clean en-
11	ergy sources will advance the purposes of
12	this section.
13	"(2) Recommendations.—The Secretary shall
14	submit to Congress recommendations on whether—
15	"(A) the percentage of energy efficiency
16	credits eligible to be submitted under subsection
17	(b)(1) should be increased or decreased;
18	"(B) the percentage of clean energy elec-
19	tricity required under subsection (b)(1) should
20	be increased or decreased; and
21	"(C) the definition of 'clean energy' should
22	be expanded to reflect advances in technology
23	or previously unavailable sources of clean or re-
24	newable energy.

- 1 "(3) Report.—Not later than January 15,
- 2 2017, the Secretary shall submit to Congress a re-
- 3 port that describes any recommendations of the Sec-
- 4 retary on changes to the program established under
- 5 this section.
- 6 "(m) Regulations.—Not later than 1 year after the
- 7 date of enactment of this section, the Secretary shall pro-
- 8 mulgate regulations implementing this section.
- 9 "(n) TERMINATION OF AUTHORITY.—This section
- 10 and the authority provided by this section terminate on
- 11 December 31, 2050.".
- 12 (b) Table of Contents Amendment.—The table
- 13 of contents of the Public Utility Regulatory Policies Act
- 14 of 1978 (16 U.S.C. prec. 2601) is amended by adding at
- 15 the end of the items relating to title VI the following:

"Sec. 610. Federal clean energy standard.".

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