# [COMMITTEE PRINT]

	TH CONGRESS 1ST SESSION  H. R.
То 1	modernize energy infrastructure, build a 21st century energy and manufacturing workforce, bolster America's energy security and diplomacy, and promote energy efficiency and government accountability, and for other purposes.
	IN THE HOUSE OF REPRESENTATIVES
M	introduced the following bill; which was referred to the Committee on
	A BILL
To	modernize energy infrastructure, build a 21st century
	energy and manufacturing workforce, bolster America's
	energy security and diplomacy, and promote energy efficiency and government accountability, 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; TABLE OF CONTENTS.
4	(a) Short Title.—This Act may be cited as the
5	" Act of 2015".

# 1 (b) Table of Contents for

# 2 this Act is as follows:

Sec. 1. Short title; table of contents.

#### TITLE I—MODERNIZING AND PROTECTING INFRASTRUCTURE

- Sec. 1101. FERC process coordination.
- Sec. 1102. Resolving environmental and grid reliability conflicts.
- Sec. 1103. Emergency preparedness for energy supply disruptions.
- Sec. 1104. Critical electric infrastructure security.
- Sec. 1105. Strategic Transformer Reserve.
- Sec. 1106. Cyber Sense.
- Sec. 1107. State coverage and consideration of PURPA standards for electric
- Sec. 1108. Reliability and performance assurance in mandatory capacity markets.

#### TITLE II—21ST CENTURY WORKFORCE

Sec. 2101. Energy and manufacturing workforce development.

#### TITLE III—ENERGY SECURITY AND DIPLOMACY

- Sec. 3101. Sense of Congress.
- Sec. 3102. Energy security valuation.
- Sec. 3103. North American energy security plan.
- Sec. 3104. Collective energy security.
- Sec. 3105. Strategic Petroleum Reserve mission readiness plan.

## TITLE IV—ENERGY EFFICIENCY AND ACCOUNTABILITY

### Subtitle A—Energy Efficiency

### CHAPTER 1—FEDERAL AGENCY ENERGY EFFICIENCY

- Sec. 4111. Energy-efficient and energy-saving information technologies.
- Sec. 4112. Energy efficient data centers.
- Sec. 4113. Report on energy and water savings potential from thermal insulation
- Sec. 4114. Federal purchase requirement.

## CHAPTER 2—ENERGY EFFICIENT TECHNOLOGY AND MANUFACTURING

- Sec. 4121. Inclusion of Smart Grid capability on Energy Guide labels.
- Sec. 4122. Voluntary verification programs for air conditioning, furnace, boiler, heat pump, and water heater products.
- Sec. 4123. Facilitating consensus furnace standards.
- Sec. 4124. Future of Industry program.

## Chapter 3—Energy Performance Contracting

Sec. 4131. Use of energy and water efficiency measures in Federal buildings.

#### Chapter 4—School Buildings

Sec. 4141. Coordination of energy retrofitting assistance for schools.

## Subtitle B—Accountability

Chapter 1—Market Manipulation, Enforcement, and Compliance Sec. 4211. FERC Office of Compliance Assistance and Public Participation.

Chapter 2—Market Reforms

Sec. 4221. GAO study on wholesale electricity markets.

# 1 TITLE I—MODERNIZING AND 2 PROTECTING INFRASTRUCTURE

3	SEC. 1101. FERC PROCESS COORDINATION.
4	Section 15 of the Natural Gas Act (15 U.S.C. 717n)
5	is amended—
6	(1) by amending subsection (b)(2) to read as
7	follows:
8	"(2) Other agencies.—
9	"(A) IN GENERAL.—Each Federal and
10	State agency considering an aspect of an appli-
11	cation for Federal authorization shall cooperate
12	with the Commission and comply with the dead-
13	lines established by the Commission.
14	"(B) IDENTIFICATION.—The Commission
15	shall identify, as early as practicable after it is
16	notified by a prospective applicant of a potential
17	project requiring Commission authorization,
18	any Federal or State agency, local government,
19	or Indian tribe that may consider an aspect of
20	an application for that Federal authorization.
21	"(C) Notification.—

1	"(i) In general.—The Commission
2	shall notify any agency identified under
3	subparagraph (B) of the opportunity to co-
4	operate or participate in the review proc-
5	ess.
6	"(ii) Deadline.—A notification
7	issued under clause (i) shall establish a
8	deadline by which a response to the notifi-
9	cation shall be submitted, which may be
10	extended by the Commission for good
11	cause.";
12	(2) in subsection (e)—
13	(A) in paragraph (1)—
14	(i) by striking "and" at the end of
15	subparagraph (A);
16	(ii) by redesignating subparagraph
17	(B) as subparagraph (C); and
18	(iii) by inserting after subparagraph
19	(A) the following new subparagraph:
20	"(B) set deadlines for all such Federal au-
21	thorizations; and";
22	(B) by striking paragraph (2); and
23	(C) by adding at the end the following new
24	paragraphs:

1	"(2) Deadline for federal authoriza-
2	TIONS.—A final decision on a Federal authorization
3	is due no later than 90 days after the Commission
4	issues its final environmental document, unless a
5	schedule is otherwise established by Federal law.
6	"(3) Commission recommendation.—To en-
7	sure that timely decisions are made and that the re-
8	sponsibilities of each Federal and State agency are
9	met when making a decision with respect to a Fed-
10	eral authorization, the Commission shall coordinate
11	its efforts with Federal and State agencies and make
12	a recommendation on the scope of the environmental
13	review that the Commission determines to be appro-
14	priate. Each Federal and State agency shall give
15	deference to the Commission's recommendation as
16	appropriate and in accordance with applicable Fed-
17	eral law.
18	"(4) Concurrent reviews.—Each Federal
19	and State agency considering an aspect of an appli-
20	cation for a Federal authorization shall—
21	"(A) carry out the obligations of that
22	agency under applicable law concurrently, and
23	in conjunction, with the review required by the
24	National Environmental Policy Act of 1969 (42
25	U.S.C. 4321 et seq.), unless doing so would im-

1	pair the ability of the agency to conduct needed
2	analysis or otherwise carry out those obliga-
3	tions;
4	"(B) formulate and implement administra-
5	tive, policy, and procedural mechanisms to en-
6	able the agency to ensure completion of re-
7	quired Federal authorizations no later than 90
8	days after the Commission issues its final envi-
9	ronmental document; and
10	"(C) transmit to the Commission a state-
11	ment—
12	"(i) acknowledging receipt of the
13	schedule established under paragraph (1);
14	and
15	"(ii) setting forth the plan formulated
16	under subparagraph (B) of this paragraph.
17	"(5) Issue identification and resolu-
18	TION.—
19	"(A) IDENTIFICATION.—Federal and State
20	agencies that may consider an aspect of an ap-
21	plication for Federal authorization shall iden-
22	tify, as early as possible, any issues of concern
23	that may delay or prevent an agency from
24	working with the Commission to resolve such
25	issues and granting such authorization.

1	"(B) Issue resolution.—The Commis-
2	sion may forward any issue of concern identi-
3	fied under subparagraph (A) to the heads of
4	the relevant agencies (including, in the case of
5	a failure by the State agency, the Federal agen-
6	cy overseeing the delegated authority) for reso-
7	lution.
8	"(6) Failure to meet schedule.—If a Fed-
9	eral or State agency does not complete a proceeding
10	for an approval that is required for a Federal au-
11	thorization in accordance with the schedule estab-
12	lished by the Commission under paragraph (1)—
13	"(A) the applicant may pursue remedies
14	under section 19(d); and
15	"(B) the head of the relevant Federal
16	agency (including, in the case of a failure by a
17	State agency, the Federal agency overseeing the
18	delegated authority) shall notify Congress and
19	the Commission of such failure and set forth a
20	recommended implementation plan to ensure
21	completion of the proceeding for an approval.";
22	(3) by redesignating subsections (d) through (f)
23	as subsections (f) through (h), respectively; and
24	(4) by inserting after subsection (c) the fol-
25	lowing new subsections:

1	"(d) Application Processing.—The Commission,
2	and Federal and State agencies, may allow an applicant
3	seeking Federal authorization to fund a third party con-
4	tractor to assist in reviewing the application.
5	"(e) Accountability, Transparency, Effi-
6	CIENCY.—For applications requiring multiple Federal au-
7	thorizations, the Commission, with input from any Federal
8	or State agency considering an aspect of an application,
9	shall track and make available to the public on the Com-
10	mission's website information related to the actions re-
11	quired to complete permitting, reviews, and other actions
12	required. Such information shall include the following:
13	"(1) The schedule established by the Commis-
14	sion under subsection $(c)(1)$ .
15	"(2) A list of all the actions required by each
16	applicable agency to complete permitting, reviews,
17	and other actions necessary to obtain a final decision
18	on the Federal authorization.
19	"(3) The expected completion date for each
20	such action.
21	"(4) A point of contact at the agency account-
22	able for each such action.
23	"(5) In the event that an action is still pending
24	as of the expected date of completion, a brief expla-
25	nation of the reasons for the delay.".

1	SEC. 1102. RESOLVING ENVIRONMENTAL AND GRID RELI-
2	ABILITY CONFLICTS.
3	(a) Compliance With or Violation of Environ-
4	MENTAL LAWS WHILE UNDER EMERGENCY ORDER.—
5	Section 202(c) of the Federal Power Act (16 U.S.C.
6	824a(c)) is amended—
7	(1) by inserting "(1)" after "(c)"; and
8	(2) by adding at the end the following:
9	"(2) With respect to an order issued under this sub-
10	section that may result in a conflict with a requirement
11	of any Federal, State, or local environmental law or regu-
12	lation, the Commission shall ensure that such order re-
13	quires generation, delivery, interchange, or transmission
14	of electric energy only during hours necessary to meet the
15	emergency and serve the public interest, and, to the max-
16	imum extent practicable, is consistent with any applicable
17	Federal, State, or local environmental law or regulation
18	and minimizes any adverse environmental impacts.
19	"(3) To the extent any omission or action taken by
20	a party, that is necessary to comply with an order issued
21	under this subsection, including any omission or action
22	taken to voluntarily comply with such order, results in
23	noncompliance with, or causes such party to not comply
24	with, any Federal, State, or local environmental law or
25	regulation, such omission or action shall not be considered
26	a violation of such environmental law or regulation, or

- 1 subject such party to any requirement, civil or criminal
- 2 liability, or a citizen suit under such environmental law
- 3 or regulation.
- 4 "(4)(A) An order issued under this subsection that
- 5 may result in a conflict with a requirement of any Federal,
- 6 State, or local environmental law or regulation shall expire
- 7 not later than 90 days after it is issued. The Commission
- 8 may renew or reissue such order pursuant to paragraphs
- 9 (1) and (2) for subsequent periods, not to exceed 90 days
- 10 for each period, as the commission determines necessary
- 11 to meet the emergency and serve the public interest.
- 12 "(B) In renewing or reissuing an order under sub-
- 13 paragraph (A), the Commission shall consult with the pri-
- 14 mary Federal agency with expertise in the environmental
- 15 interest protected by such law or regulation, and shall in-
- 16 clude in any such renewed or reissued order such condi-
- 17 tions as such Federal agency determines necessary to min-
- 18 imize any adverse environmental impacts to the extent
- 19 practicable. The conditions, if any, submitted by such Fed-
- 20 eral agency shall be made available to the public. The
- 21 Commission may exclude such a condition from the re-
- 22 newed or reissued order if it determines that such condi-
- 23 tion would prevent the order from adequately addressing
- 24 the emergency necessitating such order and provides in

- 1 the order, or otherwise makes publicly available, an expla-
- 2 nation of such determination.
- 3 "(5) If an order issued under this subsection is subse-
- 4 quently stayed, modified, or set aside by a court pursuant
- 5 to section 313 or any other provision of law, any omission
- 6 or action previously taken by a party that was necessary
- 7 to comply with the order while the order was in effect,
- 8 including any omission or action taken to voluntarily com-
- 9 ply with the order, shall remain subject to paragraph
- 10 (3).".
- 11 (b) Temporary Connection or Construction by
- 12 Municipalities.—Section 202(d) of the Federal Power
- 13 Act (16 U.S.C. 824a(d)) is amended by inserting "or mu-
- 14 nicipality" before "engaged in the transmission or sale of
- 15 electric energy".
- 16 SEC. 1103. EMERGENCY PREPAREDNESS FOR ENERGY SUP-
- 17 PLY DISRUPTIONS.
- 18 (a) FINDING.—Congress finds that recent natural
- 19 disasters have underscored the importance of having resil-
- 20 ient oil and natural gas infrastructure and effective ways
- 21 for industry and government to communicate to address
- 22 energy supply disruptions.
- 23 (b) Authorization for Activities to Enhance
- 24 Emergency Preparedness for Natural Disas-

1	TERS.—The Secretary of Energy shall develop and adopt
2	procedures to—
3	(1) improve communication and coordination
4	between the Department of Energy's energy re-
5	sponse team, Federal partners, and industry;
6	(2) leverage the Energy Information Adminis-
7	tration's subject matter expertise within the Depart-
8	ment's energy response team to improve supply
9	chain situation assessments;
10	(3) establish company liaisons and direct com-
11	munication with the Department's energy response
12	team to improve situation assessments;
13	(4) streamline and enhance processes for ob-
14	taining temporary regulatory relief to speed up
15	emergency response and recovery;
16	(5) facilitate and increase engagement among
17	States, the oil and natural gas industry, and the De-
18	partment in developing State and local energy assur-
19	ance plans;
20	(6) establish routine education and training
21	programs for key government emergency response
22	positions with the Department and States; and
23	(7) involve States and the oil and natural gas
24	industry in comprehensive drill and exercise pro-
25	grams.

1	(c) Cooperation.—The activities carried out under
2	subsection (b) shall include collaborative efforts with State
3	and local government officials and the private sector.
4	(d) Report.—Not later than 180 days after the date
5	of enactment of this Act, the Secretary of Energy shall
6	submit to Congress a report describing the effectiveness
7	of the activities authorized under this section.
8	SEC. 1104. CRITICAL ELECTRIC INFRASTRUCTURE SECU-
9	RITY.
10	(a) Critical Electric Infrastructure Secu-
11	RITY.—Part II of the Federal Power Act (16 U.S.C. 824
12	et seq.) is amended by adding after section 215 the fol-
13	lowing new section:
14	"SEC. 215A. CRITICAL ELECTRIC INFRASTRUCTURE SECU-
15	RITY.
16	"(a) Definitions.—For purposes of this section:
17	"(1) Bulk-power system; electric reli-
18	ABILITY ORGANIZATION; REGIONAL ENTITY.—The
19	terms 'bulk-power system', 'Electric Reliability Or-
20	ganization', and 'regional entity' have the meanings
21	given such terms in paragraphs (1), (2), and (7) of
22	section 215(a), respectively.
23	"(2) Critical electric infrastructure.—
24	The term 'critical electric infrastructure' means a
25	system or asset of the bulk-power system, whether

1 physical or virtual, the incapacity or destruction of 2 which would negatively affect national security, eco-3 nomic security, public health or safety, or any combination of such matters. 4 5 "(3) Critical electric infrastructure in-6 FORMATION.—The term 'critical electric infrastruc-7 ture information' means information related to crit-8 ical electric infrastructure, or proposed critical elec-9 trical infrastructure, generated by or provided to the 10 Commission or other Federal agency, other than 11 classified national security information, that is des-12 ignated as critical electric infrastructure information 13 by the Commission under subsection (d)(2). Such 14 term includes information that qualifies as critical 15 energy infrastructure information under the Com-16 mission's regulations. 17 "(4) Defense critical electric 18 STRUCTURE.—The term 'defense critical electric in-19 frastructure' means any electric infrastructure lo-20 cated in the United States (including the territories) 21 that serves a facility designated by the Secretary 22 pursuant to subsection (c), but is not owned or oper-23 ated by the owner or operator of such facility. 24 "(5) Electromagnetic pulse.—The term 25 'electromagnetic pulse' means 1 or more pulses of

1	electromagnetic energy emitted by a device capable
2	of disabling or disrupting operation of, or destroy-
3	ing, electronic devices or communications networks,
4	including hardware, software, and data, by means of
5	such a pulse.
6	"(6) Geomagnetic Storm.—The term 'geo-
7	magnetic storm' means a temporary disturbance of
8	the Earth's magnetic field resulting from solar activ-
9	ity.
10	"(7) Grid Security Emergency.—The term
11	'grid security emergency' means the occurrence or
12	imminent danger of—
13	"(A)(i) a malicious act using electronic
14	communication or an electromagnetic pulse, or
15	a geomagnetic storm event, that could disrupt
16	the operation of those electronic devices or com-
17	munications networks, including hardware, soft-
18	ware, and data, that are essential to the reli-
19	ability of critical electric infrastructure or of de-
20	fense critical electric infrastructure; and
21	"(ii) disruption of the operation of such
22	devices or networks, with significant adverse ef-
23	fects on the reliability of critical electric infra-
24	structure or of defense critical electric infra-
25	structure, as a result of such act or event; or

1	"(B)(i) a direct physical attack on critical
2	electric infrastructure or on defense critical
3	electric infrastructure; and
4	"(ii) significant adverse effects on the reli-
5	ability of critical electric infrastructure or of de-
6	fense critical electric infrastructure as a result
7	of such physical attack.
8	"(8) Secretary.—The term 'Secretary' means
9	the Secretary of Energy.
10	"(b) Authority to Address Grid Security
11	EMERGENCY.—
12	"(1) Authority.—Whenever the President
13	issues and provides to the Secretary a written direc-
14	tive or determination identifying a grid security
15	emergency, the Secretary may, with or without no-
16	tice, hearing, or report, issue such orders for emer-
17	gency measures as are necessary in the judgment of
18	the Secretary to protect or restore the reliability of
19	critical electric infrastructure or of defense critical
20	electric infrastructure during such emergency. As
21	soon as practicable but not later than 180 days after
22	the date of enactment of this section, the Secretary
23	shall, after notice and opportunity for comment, es-
24	tablish rules of procedure that ensure that such au-
25	thority can be exercised expeditiously.

1	"(2) Notification of congress.—Whenever
2	the President issues and provides to the Secretary a
3	written directive or determination under paragraph
4	(1), the President shall promptly notify congres-
5	sional committees of relevant jurisdiction, including
6	the Committee on Energy and Commerce of the
7	House of Representatives and the Committee on En-
8	ergy and Natural Resources of the Senate, of the
9	contents of, and justification for, such directive or
10	determination.
11	"(3) Consultation.—Before issuing an order
12	for emergency measures under paragraph (1), the
13	Secretary shall, to the extent practicable in light of
14	the nature of the grid security emergency and the
15	urgency of the need for action, consult with appro-
16	priate governmental authorities in Canada and Mex-
17	ico, entities described in paragraph (4), the Elec-
18	tricity Sub-sector Coordinating Council, the Commis-
19	sion, and other appropriate Federal agencies regard-
20	ing implementation of such emergency measures.
21	"(4) Application.—An order for emergency
22	measures under this subsection may apply to—
23	"(A) the Electric Reliability Organization;
24	"(B) a regional entity; or

1	"(C) any owner, user, or operator of crit-
2	ical electric infrastructure or of defense critical
3	electric infrastructure within the United States.
4	"(5) Expiration and reissuance.—
5	"(A) IN GENERAL.—Except as provided in
6	subparagraph (B), an order for emergency
7	measures issued under paragraph (1) shall ex-
8	pire no later than 15 days after its issuance.
9	"(B) Extensions.—The Secretary may
10	reissue an order for emergency measures issued
11	under paragraph (1) for subsequent periods,
12	not to exceed 15 days for each such period, pro-
13	vided that the President, for each such period,
14	issues and provides to the Secretary a written
15	directive or determination that the grid security
16	emergency identified under paragraph (1) con-
17	tinues to exist or that the emergency measure
18	continues to be required.
19	"(6) Cost recovery.—
20	"(A) CRITICAL ELECTRIC INFRASTRUC-
21	TURE.—If the Commission determines that
22	owners, operators, or users of critical electric
23	infrastructure have incurred substantial costs to
24	comply with an order for emergency measures
25	issued under this subsection and that such costs

1 were prudently incurred and cannot reasonably 2 be recovered through regulated rates or market 3 prices for the electric energy or services sold by 4 such owners, operators, or users, the Commis-5 sion shall, consistent with the requirements of 6 section 205, after notice and an opportunity for 7 comment, establish a mechanism that permits 8 such owners, operators, or users to recover such 9 costs. 10 "(B) Defense critical electric infra-11 STRUCTURE.—To the extent the owner or oper-12 ator of defense critical electric infrastructure is 13 required to take emergency measures pursuant 14 to an order issued under this subsection, the 15 owners or operators of a critical defense facility 16 or facilities designated by the Secretary pursu-17 ant to subsection (c) that rely upon such infra-18 structure shall bear the full incremental costs of 19 the measures. 20 "(7) Temporary access to classified in-21 FORMATION.—The Secretary, and other appropriate 22 Federal agencies, shall, to the extent practicable and 23 consistent with their obligations to protect classified 24 information, provide temporary access to classified

information related to a grid security emergency for

25

1	which emergency measures are issued under para-
2	graph (1) to key personnel of any entity subject to
3	such emergency measures to enable optimum com-
4	munication between the entity and the Secretary and
5	other appropriate Federal agencies regarding the
6	grid security emergency.
7	"(c) Designation of Critical Defense Facili-
8	TIES.—Not later than 180 days after the date of enact-
9	ment of this section, the Secretary, in consultation with
10	other appropriate Federal agencies and appropriate own-
11	ers, users, or operators of infrastructure that may be de-
12	fense critical electric infrastructure, shall identify and des-
13	ignate facilities located in the United States (including the
14	territories) that are—
15	"(1) critical to the defense of the United States;
16	and
17	"(2) vulnerable to a disruption of the supply of
18	electric energy provided to such facility by an exter-
19	nal provider.
20	The Secretary may, in consultation with appropriate Fed-
21	eral agencies and appropriate owners, users, or operators
22	of defense critical electric infrastructure, periodically re-
23	vise the list of designated facilities as necessary.
24	"(d) Protection and Sharing of Critical Elec-
25	TRIC INFRASTRUCTURE INFORMATION —

1	"(1) Protection of Critical Electric in-
2	FRASTRUCTURE INFORMATION.—Critical electric in-
3	frastructure information—
4	"(A) shall be exempt from disclosure under
5	section 552(b)(3) of title 5, United States Code;
6	and
7	"(B) shall not be made available by any
8	Federal, State, political subdivision or tribal au-
9	thority pursuant to any Federal, State, political
10	subdivision or tribal law requiring disclosure of
11	information or records.
12	"(2) Designation and sharing of critical
13	ELECTRIC INFRASTRUCTURE INFORMATION.—Not
14	later than one year after the date of enactment of
15	this section, the Commission, in consultation with
16	the Secretary of Energy, shall promulgate such reg-
17	ulations and issue such orders as necessary to—
18	"(A) designate information as critical elec-
19	tric infrastructure information;
20	"(B) prohibit the unauthorized disclosure
21	of critical electric infrastructure information;
22	"(C) ensure there are appropriate sanc-
23	tions in place for Commissioners, officers, em-
24	ployees, or agents of the Commission who
25	knowingly and willfully disclose critical electric

1	infrastructure information in a manner that is
2	not authorized under this section; and
3	"(D) taking into account standards of the
4	Electric Reliability Organization, facilitate vol-
5	untary sharing of critical electric infrastructure
6	information with, between, and by—
7	"(i) Federal, State, political subdivi-
8	sion, and tribal authorities;
9	"(ii) the Electric Reliability Organiza-
10	tion;
11	"(iii) regional entities;
12	"(iv) information sharing and analysis
13	centers established pursuant to Presi-
14	dential Decision Directive 63;
15	"(v) owners, operators, and users of
16	critical electric infrastructure in the United
17	States; and
18	"(vi) other entities determined appro-
19	priate by the Commission.
20	"(3) Considerations.—In promulgating regu-
21	lations and issuing orders under paragraph (2), the
22	Commission shall take into consideration the role of
23	State commissions in reviewing the prudence and
24	cost of investments, determining the rates and terms
25	of conditions for electric services, and ensuring the

1 safety and reliability of the bulk-power system and 2 distribution facilities within their respective jurisdic-3 tions. "(4) Protocols.—The Commission shall, in 4 5 consultation with Canadian and Mexican authorities, 6 develop protocols for the voluntary sharing of critical 7 electric infrastructure information with Canadian 8 and Mexican authorities and owners, operators, and 9 users of the bulk-power system outside the United 10 States. "(5) No required sharing of informa-11 12 TION.—Nothing in this section shall require a person 13 or entity in possession of critical electric infrastruc-14 ture information to share such information with 15 Federal, State, local, or tribal authorities, or any 16 other person or entity. 17 "(6) DISCLOSURE OF NON-CRITICAL ELECTRIC 18 INFRASTRUCTURE INFORMATION.—In implementing 19 this section, the Commission shall segregate critical 20 electric infrastructure information within documents 21 and electronic communications, wherever feasible, to 22 facilitate disclosure of information that is not des-23 ignated as critical electric infrastructure informa-24 tion.

1	"(e) Security Clearances.—The Secretary shall
2	facilitate and, to the extent practicable, expedite the acqui-
3	sition of adequate security clearances by key personnel of
4	any entity subject to the requirements of this section, to
5	enable optimum communication with Federal agencies re-
6	garding threats to the security of the critical electric infra-
7	structure. The Secretary, the Commission, and other ap-
8	propriate Federal agencies shall, to the extent practicable
9	and consistent with their obligations to protect classified
10	and critical electric infrastructure information, share time-
11	ly actionable information regarding grid security with ap-
12	propriate key personnel of owners, operators, and users
13	of the critical electric infrastructure.
14	"(f) Clarifications of Liability.—
15	((1) Compliance with or violation of this
16	ACT.—Except as provided in paragraph (4), to the
17	extent any action or omission taken by an entity
18	that is necessary to comply with an order for emer-
19	gency measures issued under subsection (b)(1), in-
20	cluding any action or omission taken to voluntarily
21	comply with such order, results in noncompliance
22	with, or causes such entity not to comply with any
23	rule, order, regulation, or provision of this Act, in-
24	cluding any reliability standard approved by the
25	Commission pursuant to section 215, such action or

1	omission shall not be considered a violation of such
2	rule, order, regulation, or provision.
3	"(2) Relation to Section 202(c).—Except as
4	provided in paragraph (4), an action or omission
5	taken by an owner, operator, or user of critical elec-
6	tric infrastructure or of defense critical electric in-
7	frastructure to comply with an order for emergency
8	measures issued under subsection (b)(1) shall be
9	treated as an action or omission taken to comply
10	with an order issued under section 202(c) for pur-
11	poses of such section.
12	"(3) Sharing or receipt of information.—
13	No cause of action shall lie or be maintained in any
14	Federal or State court for the sharing or receipt of
15	information under, and that is conducted in accord-
16	ance with, subsection (d).
17	"(4) Rule of Construction.—Nothing in
18	this subsection shall be construed to require dis-
19	missal of a cause of action against an entity that,
20	in the course of complying with an order for emer-
21	gency measures issued under subsection $(b)(1)$ by
22	taking an action or omission for which they would
23	be liable but for paragraph (1) or (2), takes such ac-
24	tion or omission in a grossly negligent manner.".
25	(b) Conforming Amendments.—

1	(1) Jurisdiction.—Section 201(b)(2) of the
2	Federal Power Act (16 U.S.C. 824(b)(2)) is amend-
3	ed by inserting "215A," after "215," each place it
4	appears.
5	(2) Public utility.—Section 201(e) of the
6	Federal Power Act (16 U.S.C. 824(e)) is amended
7	by inserting "215A," after "215,".
8	SEC. 1105. STRATEGIC TRANSFORMER RESERVE.
9	(a) FINDING.—Congress finds that the storage of
10	strategically located spare large power transformers will
11	reduce the vulnerability of the United States to multiple
12	risks facing electric grid reliability, including physical at-
13	tack, cyber attack, electromagnetic pulse, geomagnetic dis-
14	turbances, severe weather, and seismic events.
15	(b) DEFINITIONS.—In this section:
16	(1) Bulk-power system.—The term "bulk-
17	power system" has the meaning given such term in
18	section 215(a) of the Federal Power Act (16 U.S.C.
19	824o(a)).
20	(2) Critically damaged large power
21	TRANSFORMER.—The term "critically damaged large
22	power transformer" means a large power trans-
23	former that—
24	(A) has sustained extensive damage such
25	that—

1	(i) repair or refurbishment is not eco-
2	nomically viable; or
3	(ii) the extensive time to repair or re-
4	furbish the large power transformer would
5	create an extended period of instability in
6	the bulk-power system; and
7	(B) prior to sustaining such damage, was
8	part of the bulk-power system.
9	(3) Electric reliability organization.—
10	The term "Electric Reliability Organization" has the
11	meaning given such term in section 215(a) of the
12	Federal Power Act (16 U.S.C. 824o(a)).
13	(4) Large power transformer.—The term
14	"large power transformer" means a power trans-
15	former with a maximum nameplate rating of 100
16	megavolt-amperes or higher, including related crit-
17	ical equipment, that is, or is intended to be, a part
18	of the bulk-power system.
19	(5) Secretary.—The term "Secretary" means
20	the Secretary of Energy.
21	(6) Spare large power transformer.—The
22	term "spare large power transformer" means a large
23	power transformer that is stored within the Stra-
24	tegic Transformer Reserve to be available to tempo-

1	rarily replace a critically damaged large power trans-
2	former.
3	(c) STRATEGIC TRANSFORMER RESERVE PLAN.—
4	(1) Plan.—Not later than one year after the
5	date of enactment of this Act, the Secretary, acting
6	through the Office of Electricity Delivery and En-
7	ergy Reliability, shall, in consultation with the Fed-
8	eral Energy Regulatory Commission, the Electricity
9	Sub-sector Coordinating Council, and the Electric
10	Reliability Organization, prepare and submit to Con-
11	gress a plan to establish a Strategic Transformer
12	Reserve for the storage, in strategically-located fa-
13	cilities, of spare large power transformers in suffi-
14	cient numbers to temporarily replace critically dam-
15	aged large power transformers.
16	(2) Inclusions.—The Strategic Transformer
17	Reserve plan shall include a description of—
18	(A) the appropriate number and type of
19	spare large power transformers necessary to
20	provide or restore sufficient resiliency to the
21	bulk-power system to mitigate significant im-
22	pacts to the electric grid resulting from—
23	(i) physical attack;
24	(ii) cyber attack;
25	(iii) electromagnetic pulse attack;

1	(iv) geomagnetic disturbances;
2	(v) severe weather; or
3	(vi) seismic events;
4	(B) other critical electric grid equipment
5	for which an inventory of spare equipment is
6	necessary to provide or restore sufficient resil-
7	iency to the bulk-power system;
8	(C) the degree to which utility sector ac-
9	tions or initiatives, including individual utility
10	ownership of spare equipment, joint ownership
11	of spare equipment inventory, sharing agree-
12	ments, or other spare equipment reserves or ar-
13	rangements, satisfy the needs identified under
14	subparagraphs (A) and (B);
15	(D) the potential locations for, and feasi-
16	bility and appropriate number of, strategic stor-
17	age locations for reserve equipment, including
18	consideration of—
19	(i) the physical security of such loca-
20	tions;
21	(ii) the protection of the confiden-
22	tiality of such locations; and
23	(iii) the proximity of such locations to
24	sites of potentially critically damaged large
25	power transformers, so as to enable effi-

1	cient delivery of spare large power trans-
2	formers to such sites;
3	(E) the necessary degree of flexibility of
4	spare large power transformers to be included
5	in the Strategic Transformer Reserve to con-
6	form to different substation configurations, in-
7	cluding consideration of transformer—
8	(i) power and voltage rating for each
9	winding;
10	(ii) overload requirements;
11	(iii) impedance between windings;
12	(iv) configuration of windings; and
13	(v) tap requirements;
14	(F) an estimate of the direct cost of the
15	Strategic Transformer Reserve, as proposed, in-
16	cluding—
17	(i) the cost of storage facilities for the
18	spare large power transformers;
19	(ii) the cost of the spare large power
20	transformers; and
21	(iii) management, maintenance, and
22	operation costs;
23	(G) the funding options available to estab-
24	lish, stock, manage, and maintain the Strategic
25	Transformer Reserve, including consideration of

1	fees on owners of bulk-power system facilities
2	relying on the Strategic Transformer Reserve,
3	use of Federal appropriations, and public-pri-
4	vate cost-sharing options;
5	(H) the ease and speed of transportation,
6	installation, and energization of spare large
7	power transformers to be included in the Stra-
8	tegic Transformer Reserve, including consider-
9	ation of factors such as—
10	(i) transformer transportation weight;
11	(ii) transformer size;
12	(iii) topology of critical substations;
13	(iv) availability of appropriate trans-
14	former mounting pads;
15	(v) flexibility of the spare large power
16	transformers as described in subparagraph
17	(E); and
18	(vi) ability to rapidly transition a
19	spare large power transformer from stor-
20	age to energization;
21	(I) eligibility criteria for withdrawal of
22	spare large power transformers from the Stra-
23	tegic Transformer Reserve to replace critically
24	damaged large power transformers;

1	(J) the process by which owners of criti-
2	cally damaged large power transformers may
3	apply for a withdrawal from the Strategie
4	Transformer Reserve;
5	(K) the process by which spare large power
6	transformers withdrawn from the Strategic
7	Transformer Reserve are returned to the Stra-
8	tegic Transformer Reserve or are replaced;
9	(L) possible fees to be paid by owners of
10	critically damaged large power transformers
11	that have withdrawn such spare large power
12	transformers from the Strategic Transformer
13	Reserve;
14	(M) possible fees to be paid by owners of
15	large power transformers to cover operating
16	costs of the Strategic Transformer Reserve;
17	(N) the domestic and international large
18	power transformer supply chain; and
19	(O) other considerations for designing,
20	constructing, stocking, funding, and managing
21	the Strategic Transformer Reserve.
22	(d) Establishment.—The Secretary may establish
23	a Strategic Transformer Reserve in accordance with the
24	plan prepared pursuant to subsection (c) after the date

- 1 that is 6 months after the date on which such plan is sub-
- 2 mitted to Congress.
- 3 (e) Disclosure of Information.—Any informa-
- 4 tion included in the Strategic Transformer Reserve plan,
- 5 or shared in the preparation and development of such
- 6 plan, the disclosure of which could cause harm to critical
- 7 electric infrastructure (as defined in section 215A of the
- 8 Federal Power Act), shall be exempt from disclosure under
- 9 section 552(b)(3) of title 5, United States Code, and any
- 10 State, tribal, or local law requiring disclosure of informa-
- 11 tion or records.
- 12 SEC. 1106. CYBER SENSE.
- 13 (a) In General.—The Secretary of Energy shall es-
- 14 tablish a voluntary Cyber Sense program to identify and
- 15 promote cyber-secure products intended for use in the
- 16 bulk-power system, as defined in section 215(a) of the
- 17 Federal Power Act (16 U.S.C. 824o(a)).
- 18 (b) Program Requirements.—In carrying out sub-
- 19 section (a), the Secretary of Energy shall—
- 20 (1) establish a Cyber Sense testing process to
- 21 identify products and technologies intended for use
- in the bulk-power system, including products relat-
- 23 ing to industrial control systems, such as supervisory
- 24 control and data acquisition systems;

1	(2) for products tested and identified under the
2	Cyber Sense program, establish and maintain cyber-
3	security vulnerability reporting processes and a re-
4	lated database;
5	(3) promulgate regulations regarding vulner-
6	ability reporting processes for products tested and
7	identified under the Cyber Sense program;
8	(4) provide technical assistance to utilities,
9	product manufacturers, and other electric sector
10	stakeholders to develop solutions to mitigate identi-
11	fied vulnerabilities in products tested and identified
12	under the Cyber Sense program;
13	(5) biennially review products tested and identi-
14	fied under the Cyber Sense program for
15	vulnerabilities and provide analysis with respect to
16	how such products respond to and mitigate cyber
17	threats;
18	(6) develop procurement guidance for utilities
19	for products tested and identified under the Cyber
20	Sense program;
21	(7) provide reasonable notice to the public, and
22	solicit comments from the public, prior to estab-
23	lishing or revising the Cyber Sense testing process;
24	(8) oversee Cyber Sense testing carried out by
25	third parties; and

1	(9) consider incentives to encourage the use in
2	the bulk-power system of products tested and identi-
3	fied under the Cyber Sense program.
4	(c) Disclosure of Information.—Any vulner-
5	ability reported pursuant to regulations promulgated
6	under subsection (b)(3), the disclosure of which could
7	cause harm to critical electric infrastructure (as defined
8	in section 215A of the Federal Power Act), shall be ex-
9	empt from disclosure under section 552(b)(3) of title 5,
10	United States Code, and any State, tribal, or local law
11	requiring disclosure of information or records.
12	(d) Federal Government Liability.—Consistent
13	with other voluntary Federal government certification pro-
14	grams, nothing in this section shall be construed to au-
15	thorize the commencement of an action against the United
16	States Government with respect to the testing and identi-
17	fication of a product under the Cyber Sense program.
18	SEC. 1107. STATE COVERAGE AND CONSIDERATION OF
19	PURPA STANDARDS FOR ELECTRIC UTILI-
20	TIES.
21	(a) State Consideration of Resiliency and Ad-
22	VANCED ENERGY ANALYTICS TECHNOLOGIES AND RELI-
23	ABLE GENERATION.—
24	(1) Consideration.—Section 111(d) of the
25	Public Utility Regulatory Policies Act of 1978 (16

1	U.S.C. 2621(d)) is amended by adding the following
2	at the end:
3	"(20) Improving the resilience of elec-
4	TRIC INFRASTRUCTURE.—
5	"(A) IN GENERAL.—Each electric utility
6	shall develop a plan to use resiliency-related
7	technologies and other approaches designed to
8	improve the resilience of electric infrastructure,
9	mitigate power outages, continue delivery of
10	vital services, and maintain the flow of power to
11	facilities critical to public health, safety, and
12	welfare, to the extent practicable using the most
13	current data, metrics, and frameworks related
14	to current and future threats, including phys-
15	ical and cyber attacks, electromagnetic pulse at-
16	tacks, geomagnetic disturbances, seismic events,
17	and severe weather and other environmental
18	stressors.
19	"(B) RESILIENCY-RELATED TECH-
20	NOLOGIES.—For purposes of this paragraph,
21	examples of resiliency-related technologies in-
22	clude—
23	"(i) advanced grid technologies capa-
24	ble of isolating or repairing problems re-
25	motely, such as advanced metering infra-

1	structure, high-tech sensors, grid moni-
2	toring and control systems, and remote re-
3	configuration and redundancy systems;
4	"(ii) all types of distributed and back-
5	up generation;
6	"(iii) microgrids;
7	"(iv) combined heat and power;
8	"(v) waste heat resources;
9	"(vi) energy storage technologies;
10	"(vii) wiring, cabling, and other dis-
11	tribution components, including submers-
12	ible distribution components, and enclo-
13	sures;
14	"(viii) electronically-controlled re-
15	closers and similar technologies for power
16	restoration; and
17	"(ix) advanced energy analytics tech-
18	nology (as described in paragraph (21)).
19	"(C) Rate recovery.—Each State regu-
20	latory authority (with respect to each electric
21	utility for which it has ratemaking authority)
22	shall consider authorizing each such electric
23	utility to recover any capital, operating expendi-
24	ture, or other costs of the electric utility related
25	to the procurement, deployment, or use of resil-

1	iency-related technologies, including a reason-
2	able rate of return on the capital expenditures
3	of the electric utility for the procurement, de-
4	ployment, or use of resiliency-related tech-
5	nologies.
6	"(21) Promoting investments in advanced
7	ENERGY ANALYTICS TECHNOLOGY.—
8	"(A) IN GENERAL.—Each electric utility
9	shall develop and implement a plan for deploy-
10	ing advanced energy analytics technology.
11	"(B) Rate recovery.—Each State regu-
12	latory authority (with respect to each electric
13	utility for which it has ratemaking authority)
14	shall consider confirming and clarifying, if nec-
15	essary, that each such electric utility is author-
16	ized to recover the costs of the electric utility
17	relating to the procurement, deployment, or use
18	of advanced energy analytics technology, con-
19	sistent with the Financial Accounting Stand-
20	ards Board standard entitled 'Customer's Ac-
21	counting for Fees Paid in a Cloud Computing
22	Arrangement' (ASU No. 2015–05), including a
23	reasonable rate of return on all such costs in-
24	curred by the electric utility for the procure-
25	ment, deployment, or use of advanced energy

1	analytics technology, provided such technology
2	is used by the electric utility for purposes of re-
3	alizing operational efficiencies, cost savings, en-
4	hanced energy management and customer en-
5	gagement, improvements in system reliability,
6	safety, and cybersecurity, or other benefits to
7	ratepayers.
8	"(C) ADVANCED ENERGY ANALYTICS
9	TECHNOLOGY.—For purposes of this para-
10	graph, examples of advanced energy analytics
11	technology include internet-based and cloud-
12	based computing solutions and subscription li-
13	censing models, including software as a service,
14	that use cyber-physical systems to allow the
15	correlation of data aggregated from appropriate
16	data sources and smart grid sensor networks,
17	and employ analytics and machine learning.
18	"(22) Assuring electric reliability with
19	RELIABLE GENERATION.—
20	"(A) ASSURANCE OF ELECTRIC RELI-
21	ABILITY.—Each electric utility shall adopt or
22	modify policies to ensure that such electric util-
23	ity incorporates reliable generation into its inte-
24	grated resource plan to assure the availability

1	of electric energy over a 10-year planning pe-
2	riod.
3	"(B) Reliable Generation.—For pur-
4	poses of this paragraph, 'reliable generation'
5	means electric generation facilities with reli-
6	ability attributes that include—
7	"(i) operational characteristics that
8	enable the generation of electric energy on
9	a continuous basis;
10	"(ii) in order to generate electric en-
11	ergy on a continuous basis—
12	"(I) possession of adequate fuel
13	on-site;
14	"(II) the operational ability to
15	generate electric energy from more
16	than one fuel source; or
17	"(III) fuel certainty, through
18	contractual obligations, that ensures
19	adequate fuel supply;
20	"(iii) operational characteristics that
21	enable the generation of electric energy
22	during emergency and severe weather con-
23	ditions; and

1	"(iv) essential reliability services, in-
2	cluding frequency support and voltage sup-
3	port, to maintain electric reliability.".
4	(2) Compliance.—
5	(A) Time limitations.—Section 112(b)
6	of the Public Utility Regulatory Policies Act of
7	1978 (16 U.S.C. 2622(b)) is amended by add-
8	ing at the end the following:
9	"(7)(A) Not later than 1 year after the date of
10	enactment of this paragraph, each State regulatory
11	authority (with respect to each electric utility for
12	which it has ratemaking authority) and each non-
13	regulated electric utility shall commence the consid-
14	eration referred to in section 111, or set a hearing
15	date for consideration, with respect to the standards
16	established by paragraphs (20) and (22) of section
17	111(d).
18	"(B) Not later than 2 years after the date of
19	the enactment of this paragraph, each State regu-
20	latory authority (with respect to each electric utility
21	for which it has ratemaking authority) and each
22	nonregulated electric utility shall complete the con-
23	sideration, and shall make the determination, re-
24	ferred to in section 111 with respect to each stand-

1 ard established by paragraphs (20) and (22) of sec-2 tion 111(d). 3 "(8)(A) Not later than 6 months after the date 4 of enactment of this paragraph, each State regu-5 latory authority (with respect to each electric utility 6 for which it has ratemaking authority) and each 7 nonregulated electric utility shall commence the con-8 sideration referred to in section 111, or set a hear-9 ing date for consideration, with respect to the stand-10 ard established by paragraph (21) of section 111(d). 11 "(B) Not later than 1 year after the date of en-12 actment of this paragraph, each State regulatory au-13 thority (with respect to each electric utility for which 14 it has ratemaking authority) and each nonregulated 15 electric utility shall complete the consideration, and 16 shall make the determination, referred to in section 17 111 with respect to the standard established by 18 paragraph (21) of section 111(d).". 19 (B) Failure to comply.—Section 112(c) 20 of the Public Utility Regulatory Policies Act of 21 1978 (16 U.S.C. 2622(c)) is amended by add-22 ing the following at the end: "In the case of the 23 standards established by paragraphs (20)24 through (22) of section 111(d), the reference 25 contained in this subsection to the date of en-

1	actment of this Act shall be deemed to be a ref-
2	erence to the date of enactment of such para-
3	graphs.".
4	(C) Prior state actions.—Section 112
5	of the Public Utility Regulatory Policies Act of
6	1978 (16 U.S.C. 2622(d)) is amended by add-
7	ing at the end the following new subsection:
8	"(g) Prior State Actions.—Subsections (b) and
9	(c) of this section shall not apply to a standard established
10	by paragraph (20), (21), or (22) of section 111(d) in the
11	case of any electric utility in a State if—
12	"(1) before the date of enactment of this sub-
13	section, the State has implemented for such utility
14	the standard concerned (or a comparable standard);
15	"(2) the State regulatory authority for such
16	State or relevant nonregulated electric utility has
17	conducted a proceeding to consider implementation
18	of the standard concerned (or a comparable stand-
19	ard) for such utility during the 3-year period ending
20	on the date of enactment of this subsection; or
21	"(3) the State legislature has voted on the im-
22	plementation of the standard concerned (or a com-
23	parable standard) for such utility during the 3-year
24	period ending on the date of enactment of this sub-
25	section.".

1	(b) Coverage for Competitive Markets.—Sec-
2	tion 102 of the Public Utility Regulatory Policies Act of
3	1978 (16 U.S.C. 2612) is amended by adding at the end
4	the following:
5	"(d) The requirements of this title do not apply to
6	the operations of an electric utility, or to proceedings re-
7	specting such operations, to the extent that such oper-
8	ations or proceedings relate to the competitive sale of re-
9	tail electric energy that is unbundled or separated from
10	the regulated provision or sale of distribution service.".
11	SEC. 1108. RELIABILITY AND PERFORMANCE ASSURANCE
12	IN MANDATORY CAPACITY MARKETS.
13	Part II of the Federal Power Act (16 U.S.C. 824 et
14	seq.) is amended [To be determined].".
15	TITLE II—21ST CENTURY
16	WORKFORCE
17	SEC. 2101. ENERGY AND MANUFACTURING WORKFORCE DE-
18	VELOPMENT.
19	(a) In General.—The Secretary of Energy (in this
20	section referred to as the "Secretary") shall establish and
21	carry out a comprehensive program to improve education
22	and training for energy and manufacturing-related jobs in
23	order to increase the number of skilled workers trained
24	
	to work in energy and manufacturing-related fields, in-

1	(1) encouraging underrepresented groups, in-
2	cluding religious and ethnic minorities, women, vet-
3	erans, individuals with disabilities, and
4	socioeconomically disadvantaged individuals to enter
5	into the science, technology, engineering, and mathe-
6	matics (in this section referred to as "STEM")
7	fields;
8	(2) encouraging the Nation's education system
9	to equip students with the skills, mentorships, train-
10	ing, and technical expertise necessary to fill the em-
11	ployment opportunities vital to managing and oper-
12	ating the Nation's energy and manufacturing indus-
13	tries;
14	(3) providing students and other candidates for
15	employment with the necessary skills and certifi-
16	cations for skilled, semiskilled, and highly skilled en-
17	ergy and manufacturing-related jobs; and
18	(4) strengthening and more fully engaging De-
19	partment of Energy programs and labs in carrying
20	out the Department's Minorities in Energy Initia-
21	tive.
22	(b) Priority.—The Secretary shall make educating
23	and training underrepresented groups for energy and
24	manufacturing-related jobs a national priority under the
25	program established under subsection (a).

1	(c) DIRECT ASSISTANCE.—In carrying out the pro-
2	gram established under subsection (a), the Secretary shall
3	provide direct assistance (including financial assistance
4	awards, technical expertise, wraparound services, career
5	coaching, mentorships, internships, and partnerships) to
6	schools, community colleges, workforce development orga-
7	nizations, nonprofit organizations, labor organizations, ap-
8	prenticeship programs, and minority serving institutions.
9	The Secretary shall distribute direct assistance in a man-
10	ner proportional to energy and manufacturing industry
11	needs and demand for jobs, consistent with information
12	obtained under subsections (e)(3) and (i).
13	(d) Clearinghouse.—In carrying out the program
14	established under subsection (a), the Secretary shall estab-
15	lish a clearinghouse to—
16	(1) maintain and update information and re-
17	sources on training and workforce development pro-
18	grams for energy and manufacturing-related jobs;
19	and
20	(2) act as a resource, and provide guidance, for
21	schools, community colleges, universities (including
22	minority serving institutions), workforce develop-
23	ment programs, labor management organizations,
24	and industry organizations that would like to de-

1	velop and implement energy and manufacturing-re-
2	lated training programs.
3	(e) Collaboration.—In carrying out the program
4	established under subsection (a), the Secretary—
5	(1) shall collaborate with schools, community
6	colleges, universities (including minority serving in-
7	stitutions), workforce training organizations, na-
8	tional laboratories, unions, State energy offices,
9	workforce investment boards, and the energy and
10	manufacturing industries;
11	(2) shall encourage and foster collaboration,
12	mentorships, and partnerships among organizations
13	(including unions, industry, schools, community col-
14	leges, workforce development organizations, and col-
15	leges and universities) that currently provide effec-
16	tive job training programs in the energy and manu-
17	facturing fields and institutions (including schools,
18	community colleges, workforce development pro-
19	grams, and colleges and universities) that seek to es-
20	tablish these types of programs in order to share
21	best practices and approaches that best suit local,
22	State, and national needs; and
23	(3) shall collaborate with the Bureau of Labor
24	Statistics, the Department of Commerce, the Bureau
25	of the Census, and the energy and manufacturing

1	industries to develop a comprehensive and detailed
2	understanding of the energy and manufacturing
3	workforce needs and opportunities by State and by
4	region, and publish an annual report on energy and
5	manufacturing job creation by the sectors enumer-
6	ated in subsection (i).
7	(f) Guidelines for Educational Institu-
8	TIONS.—
9	(1) In general.—In carrying out the program
10	established under subsection (a), the Secretary, in
11	collaboration with the Secretary of Education, the
12	Secretary of Commerce, the Secretary of Labor, the
13	National Science Foundation, and industry shall de-
14	velop guidelines for educational institutions of all
15	levels, including for elementary and secondary
16	schools and community colleges and for under-
17	graduate, graduate, and postgraduate university pro-
18	grams, to help provide graduates with the skills nec-
19	essary to work in energy and manufacturing-related
20	jobs.
21	(2) Input.—The Secretary shall solicit input
22	from the oil, gas, coal, renewable, nuclear, utility,
23	energy-intensive and advanced manufacturing, and
24	pipeline industries in developing guidelines under
25	paragraph (1).

1	(3) Energy and manufacturing efficiency
2	AND CONSERVATION INITIATIVES.—The guidelines
3	developed under paragraph (1) shall include grade-
4	specific guidelines for teaching energy and manufac-
5	turing efficiency and conservation initiatives to edu-
6	cate students and families.
7	(4) Stem education.—The guidelines devel-
8	oped under paragraph (1) shall promote STEM edu-
9	cation as it relates to job opportunities in energy
10	and manufacturing-related fields of study in schools,
11	community colleges, and universities nationally.
12	(g) Outreach to Minority Serving Institu-
13	TIONS.—In carrying out the program established under
14	subsection (a), the Secretary shall—
15	(1) give special consideration to increasing out-
16	reach to minority serving institutions (including his-
17	torically black colleges and universities, predomi-
18	nantly black institutions, Hispanic serving institu-
19	tions, and tribal institutions);
20	(2) make resources available to minority serving
21	institutions with the objective of increasing the num-
22	ber of skilled minorities and women trained to go
23	into the energy and manufacturing sectors;
24	(3) encourage industry to improve the opportu-
25	nities for students of minority serving institutions to

1	participate in industry internships and cooperative
2	work/study programs; and
3	(4) partner with the Department of Energy lab-
4	oratories to increase underrepresented groups' par-
5	ticipation in internships, fellowships, traineeships,
6	and employment at all Department of Energy lab-
7	oratories.
8	(h) Outreach to Displaced and Unemployed
9	Energy and Manufacturing Workers.—In carrying
10	out the program established under subsection (a), the Sec-
11	retary shall—
12	(1) give special consideration to increasing out-
13	reach to employers and job trainers preparing dis-
14	placed and unemployed energy and manufacturing
15	workers for emerging energy and manufacturing
16	jobs;
17	(2) make resources available to institutions
18	serving displaced and unemployed energy and manu-
19	facturing workers with the objective of training indi-
20	viduals to re-enter the energy and manufacturing
21	workforce; and
22	(3) encourage the energy and manufacturing in-
23	dustries to improve opportunities for displaced and
24	unemployed energy and manufacturing workers to

1	participate in internships and cooperative work/study
2	programs.
3	(i) Guidelines to Develop Skills for an En-
4	ERGY AND MANUFACTURING INDUSTRY WORKFORCE.—In
5	carrying out the program established under subsection (a),
6	the Secretary shall collaborate with representatives from
7	the energy and manufacturing industries (including the
8	oil, gas, coal, nuclear, utility, pipeline, renewable, petro-
9	chemical, manufacturing, and electrical construction sec-
10	tors) to identify the areas of highest need in each sector
11	and to develop guidelines for the skills necessary to de-
12	velop a workforce trained to go into the following sectors
13	of the energy and manufacturing sectors:
14	(1) Energy efficiency industry, including work
15	in energy efficiency, conservation, weatherization, or
16	retrofitting, or as inspectors or auditors.
17	(2) Pipeline industry, including work in pipeline
18	construction and maintenance or work as engineers
19	or technical advisors.
20	(3) Utility industry, including work in the gen-
21	eration, transmission, and distribution of electricity
22	and natural gas, such as utility technicians, opera-
23	tors, lineworkers, engineers, scientists, and informa-
24	tion technology specialists.

1	(4) Alternative fuels, including work in biofuel
2	development and production.
3	(5) Nuclear industry, including work as sci-
4	entists, engineers, technicians, mathematicians, or
5	security personnel.
6	(6) Oil and gas industry, including work as sci-
7	entists, engineers, technicians, mathematicians, pe-
8	trochemical engineers, or geologists.
9	(7) Renewable industry, including work in the
10	development, manufacturing, and production of re-
11	newable energy sources (such as solar, hydropower,
12	wind, or geothermal energy).
13	(8) Coal industry, including work as coal min-
14	ers, engineers, developers and manufacturers of
15	state-of-the-art coal facilities, technology vendors,
16	coal transportation workers and operators, or mining
17	equipment vendors.
18	(9) Manufacturing industry, including work as
19	operations technicians, operations and design in ad-
20	ditive manufacturing, 3–D printing, and advanced
21	composites, industrial energy efficiency management
22	systems, including power electronics, and other inno-
23	vative technologies.
24	(10) Chemical manufacturing industry, includ-
25	ing work in construction (such as welders, pipe-

1	fitters, and tool and die makers) or as instrument
2	and electrical technicians, machinists, chemical proc-
3	ess operators, chemical engineers, quality and safety
4	professionals, and reliability engineers.
5	(j) Enrollment in Training and Apprentice-
6	SHIP PROGRAMS.—In carrying out the program estab-
7	lished under subsection (a), the Secretary shall work with
8	industry, organized labor, and community-based workforce
9	organizations to help identify students and other can-
10	didates, including from underrepresented communities
11	such as minorities, women, and veterans, to enroll into
12	training and apprenticeship programs for energy and
13	manufacturing-related jobs.
14	TITLE III—ENERGY SECURITY
14 15	TITLE III—ENERGY SECURITY AND DIPLOMACY
15	AND DIPLOMACY
15 16	AND DIPLOMACY SEC. 3101. SENSE OF CONGRESS.
15 16 17	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:
15 16 17 18	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:  (1) North America's energy revolution has sig-
15 16 17 18	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:  (1) North America's energy revolution has significantly enhanced energy security in the United
115 116 117 118 119 220	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:  (1) North America's energy revolution has significantly enhanced energy security in the United States, and fundamentally changed the Nation's energy.
115 116 117 118 119 220 221	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:  (1) North America's energy revolution has significantly enhanced energy security in the United States, and fundamentally changed the Nation's energy future from that of scarcity to abundance.
115 116 117 118 119 220 221 222	AND DIPLOMACY  SEC. 3101. SENSE OF CONGRESS.  Congress finds the following:  (1) North America's energy revolution has significantly enhanced energy security in the United States, and fundamentally changed the Nation's energy future from that of scarcity to abundance.  (2) North America's energy abundance has in-

1	(3) Allies and trading partners of the United
2	States, including in Europe and Asia, are seeking
3	stable and affordable energy supplies from North
4	America to enhance their energy security.
5	(4) The United States has an opportunity to
6	improve its energy security and promote greater sta-
7	bility and affordability of energy supplies for its al-
8	lies and trading partners through a more integrated,
9	secure, and competitive North American energy sys-
10	tem.
11	(5) The United States also has an opportunity
12	to promote such objectives by supporting the free
13	flow of energy commodities and more open, trans-
14	parent, and competitive global energy markets, and
15	through greater Federal agency coordination relating
16	to regulations or agency actions that significantly af-
17	fect the supply, distribution, or use of energy.
18	SEC. 3102. ENERGY SECURITY VALUATION.
19	(a) Establishment of Energy Security Valu-
20	ATION METHODS.—Not later than one year after the date
21	of enactment of this Act, the Secretary of Energy shall
22	develop and transmit, after public notice and comment,
23	to the Committee on Energy and Commerce of the House
24	of Representatives and the Committee on Energy and
25	Natural Resources of the Senate a report that develops

1	recommended United States energy security valuation
2	methods. In developing the report, the Secretary may con-
3	sider the recommendations of the Administration's Quad-
4	rennial Energy Review released on April 21, 2015. The
5	report shall—
6	(1) evaluate and define United States energy
7	security to reflect modern domestic and global en-
8	ergy markets and the collective needs of United
9	States allies and partners;
10	(2) identify transparent and uniform or coordi-
11	nated procedures and criteria to ensure that energy-
12	related actions that significantly affect the supply,
13	distribution, or use of energy are evaluated with re-
14	spect to their potential impact on energy security,
15	including their impact on—
16	(A) consumers and the economy;
17	(B) energy supply diversity and resiliency;
18	(C) well-functioning and competitive en-
19	ergy markets;
20	(D) United States trade balance; and
21	(E) national security objectives; and
22	(3) include a recommended implementation
23	strategy that identifies and aims to ensure that the
24	procedures and criteria referred to in paragraph (2)
25	are—

1	(A) evaluated consistently across the Fed-
2	eral Government; and
3	(B) weighed appropriately and balanced
4	with environmental considerations required by
5	Federal law.
6	(b) Participation.—In developing the report re-
7	ferred to in subsection (a), the Secretary may consult with
8	relevant Federal, State, private sector, and international
9	participants, as appropriate and consistent with applicable
10	law.
11	SEC. 3103. NORTH AMERICAN ENERGY SECURITY PLAN.
12	(a) REQUIREMENT.—Not later than one year after
13	the date of enactment of this Act, the Secretary of Energy
14	shall develop and transmit to the Committee on Energy
15	and Commerce and the Committee on Foreign Affairs of
16	the House of Representatives and the Committee on En-
17	ergy and Natural Resources and the Committee on For-
18	eign Relations of the Senate the plan described in sub-
19	section (b).
20	(b) Purpose.—The plan referred to in subsection (a)
21	shall include—
22	(1) a recommended framework and implementa-
23	tion strategy to—
24	(A) improve planning and coordination
25	with Canada and Mexico to enhance energy in-

1	tegration, strengthen North American energy
2	security, and promote efficiencies in the explo-
3	ration, production, storage, supply, distribution,
4	marketing, pricing, and regulation of North
5	American energy resources; and
6	(B) address—
7	(i) North American energy public
8	data, statistics, and mapping collaboration;
9	(ii) responsible and sustainable best
10	practices for the development of unconven-
11	tional oil and natural gas; and
12	(iii) modern, resilient energy infra-
13	structure for North America, including
14	physical infrastructure as well as institu-
15	tional infrastructure such as policies, regu-
16	lations, and practices relating to energy de-
17	velopment; and
18	(2) a recommended framework and implementa-
19	tion strategy to improve collaboration with Carib-
20	bean and Central American partners on energy secu-
21	rity, including actions to support—
22	(A) more open, transparent, and competi-
23	tive energy markets;
24	(B) regulatory capacity building;

1	(C) improvements to energy transmission
2	and storage; and
3	(D) improvements to the performance of
4	energy infrastructure and efficiency.
5	(c) Participation.—In developing the plan referred
6	to in subsection (a), the Secretary of Energy may consult
7	with other Federal, State, private sector, and international
8	participants, as appropriate and consistent with applicable
9	law.
10	SEC. 3104. COLLECTIVE ENERGY SECURITY.
11	(a) Energy Security Forums.—Not later than one
12	year after date of enactment of this Act, the Secretary
13	of Energy, in collaboration with the Secretary of State,
14	shall convene not less than 2 forums to promote the collec-
15	tive energy security of the United States and its allies and
16	trading partners. The forums shall include participation
17	by the Secretary of Energy and the Secretary of State.
18	In addition, an invitation shall be extended to—
19	(1) appropriate representatives of foreign gov-
20	ernments that are allies or trading partners of the
21	United States; and
22	(2) independent experts and industry represent-
23	atives.
24	(b) REQUIREMENTS.—The forums shall—

1	(1) consist of at least one Trans-Atlantic and
2	one Trans-Pacific energy security forum;
3	(2) be designed to foster dialogue among gov-
4	ernment officials, independent experts, and industry
5	representatives regarding—
6	(A) the current state of global energy mar-
7	kets;
8	(B) trade and investment issues relevant to
9	energy; and
10	(C) barriers to more open, competitive, and
11	transparent energy markets; and
12	(3) be recorded and made publically available
13	on the Department of Energy's website, including,
14	not later than 30 days after each forum, publication
15	on the website any significant outcomes, including
16	any memorandums of understanding, made among
17	the participants.
18	(c) Notification.—At least 30 days before each of
19	the forums referred to in subsection (a), the Secretary of
20	Energy shall send a notification regarding the forum to—
21	(1) the chair and the ranking minority member
22	of the Committee on Energy and Commerce and the
23	Committee on Foreign Affairs of the House of Rep-
24	resentatives: and

1	(2) the chair and ranking minority member of
2	the Committee on Energy and Natural Resources
3	and the Committee on Foreign Relations of the Sen-
4	ate.
5	SEC. 3105. STRATEGIC PETROLEUM RESERVE MISSION
6	READINESS PLAN.
7	Not later than 180 days after date of enactment of
8	this Act, the Secretary of Energy shall conduct a long-
9	range strategic review of the Strategic Petroleum Reserve
10	and develop and transmit to Congress a plan that includes
11	an analysis and implementation schedule that—
12	(1) specifies near-term and long-term roles of
13	the Strategic Petroleum Reserve relative to United
14	States energy security and economic goals and objec-
15	tives;
16	(2) describes existing legal authorities gov-
17	erning the policies, configuration, and capabilities of
18	the Strategic Petroleum Reserve;
19	(3) identifies Strategic Petroleum Reserve con-
20	figuration and performance capabilities and rec-
21	ommends an action plan to achieve the optimal—
22	(A) capacity, location, and composition of
23	petroleum products in the Reserve; and
24	(B) storage and distributional capabilities;
25	and

1	(4) estimates the resources required to attain
2	and maintain the Strategic Petroleum Reserve's
3	long-term sustainability and operational effective-
4	ness.
5	TITLE IV—ENERGY EFFICIENCY
6	AND ACCOUNTABILITY
7	Subtitle A—Energy Efficiency
8	CHAPTER 1—FEDERAL AGENCY ENERGY
9	<b>EFFICIENCY</b>
10	SEC. 4111. ENERGY-EFFICIENT AND ENERGY-SAVING IN-
11	FORMATION TECHNOLOGIES.
12	(a) Amendment.—Subtitle C of title V of the En-
13	ergy Independence and Security Act of 2007 (Public Law
14	110–140; 121 Stat. 1661) is amended by adding at the
15	end the following:
16	"SEC. 530. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-
17	MATION TECHNOLOGIES.
18	"(a) Definitions.—In this section:
19	"(1) DIRECTOR.—The term 'Director' means
20	the Director of the Office of Management and Budg-
21	et.
22	"(2) Information technology.—The term
23	'information technology' has the meaning given that
24	term in section 11101 of title 40, United States
25	Code.

1	"(b) Development of Implementation Strat-
2	EGY.—Not later than 1 year after the date of enactment
3	of this section, each Federal agency shall coordinate with
4	the Director, the Secretary, and the Administrator of the
5	Environmental Protection Agency to develop an implemen-
6	tation strategy (that includes best practices and measure-
7	ment and verification techniques) for the maintenance,
8	purchase, and use by the Federal agency of energy-effi-
9	cient and energy-saving information technologies, taking
10	into consideration the performance goals established under
11	subsection (d).
12	"(c) Administration.—In developing an implemen-
13	tation strategy under subsection (b), each Federal agency
14	shall consider—
15	"(1) advanced metering infrastructure;
16	"(2) energy-efficient data center strategies and
17	methods of increasing asset and infrastructure utili-
18	zation;
19	"(3) advanced power management tools;
20	"(4) building information modeling, including
21	building energy management;
22	"(5) secure telework and travel substitution
23	tools; and

1	"(6) mechanisms to ensure that the agency re-
2	alizes the energy cost savings brought about through
3	increased efficiency and utilization.
4	"(d) Performance Goals.—
5	"(1) In general.—Not later than 180 days
6	after the date of enactment of this section, the Di-
7	rector, in consultation with the Secretary, shall es-
8	tablish performance goals for evaluating the efforts
9	of Federal agencies in improving the maintenance,
10	purchase, and use of energy-efficient and energy-sav-
11	ing information technology.
12	"(2) Best practices.—The Chief Information
13	Officers Council established under section 3603 of
14	title 44, United States Code, shall recommend best
15	practices for the attainment of the performance
16	goals, which shall include Federal agency consider-
17	ation of, to the extent applicable by law, the use
18	of—
19	"(A) energy savings performance con-
20	tracting; and
21	"(B) utility energy services contracting.
22	"(e) Reports.—
23	"(1) Agency reports.—Each Federal agency
24	shall include in the report of the agency under sec-

1	tion 527 a description of the efforts and results of
2	the agency under this section.
3	"(2) OMB GOVERNMENT EFFICIENCY REPORTS
4	AND SCORECARDS.—Effective beginning not later
5	than October 1, 2017, the Director shall include in
6	the annual report and scorecard of the Director re-
7	quired under section 528 a description of the efforts
8	and results of Federal agencies under this section.".
9	(b) Conforming Amendment.—The table of con-
10	tents for the Energy Independence and Security Act of
11	2007 is amended by adding after the item relating to sec-
12	tion 529 the following:
	"Sec. 530. Energy-efficient and energy-saving information technologies.".
13	SEC. 4112. ENERGY EFFICIENT DATA CENTERS.
13 14	SEC. 4112. ENERGY EFFICIENT DATA CENTERS.  Section 453 of the Energy Independence and Security
14	Section 453 of the Energy Independence and Security
14 15	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—
<ul><li>14</li><li>15</li><li>16</li></ul>	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "de-
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "pro-
14 15 16 17 18	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "proposed by the stakeholders";
<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li><li>19</li></ul>	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "proposed by the stakeholders";  (2) by striking subsection (b)(3); and
14 15 16 17 18 19 20	Section 453 of the Energy Independence and Security  Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "proposed by the stakeholders";  (2) by striking subsection (b)(3); and  (3) by striking subsections (c) through (g) and
14 15 16 17 18 19 20 21	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "proposed by the stakeholders";  (2) by striking subsection (b)(3); and  (3) by striking subsections (c) through (g) and inserting the following:
14 15 16 17 18 19 20 21 22	Section 453 of the Energy Independence and Security Act of 2007 (42 U.S.C. 17112) is amended—  (1) in subsection (b)(2)(D)(iv), by striking "determined by the organization" and inserting "proposed by the stakeholders";  (2) by striking subsection (b)(3); and  (3) by striking subsections (c) through (g) and inserting the following:  "(c) STAKEHOLDER INVOLVEMENT.—The Secretary

1	that accurately reflect the most relevant and useful infor-
2	mation available. In such collaboration, the Secretary and
3	the Administrator shall pay particular attention to organi-
4	zations that—
5	"(1) have members with expertise in energy ef-
6	ficiency and in the development, operation, and
7	functionality of data centers, information technology
8	equipment, and software, such as representatives of
9	hardware manufacturers, data center operators, and
10	facility managers;
11	"(2) obtain and address input from Department
12	of Energy National Laboratories or any college, uni-
13	versity, research institution, industry association
14	company, or public interest group with applicable ex-
15	pertise;
16	"(3) follow—
17	"(A) commonly accepted procedures for
18	the development of specifications; and
19	"(B) accredited standards development
20	processes; and
21	"(4) have a mission to promote energy effi-
22	ciency for data centers and information technology
23	"(d) Measurements and Specifications.—The
24	Secretary and the Administrator shall consider and assess
25	the adequacy of the specifications, measurements, best

1	practices, and benchmarks described in subsection (b) for
2	use by the Federal Energy Management Program, the En-
3	ergy Star Program, and other efficiency programs of the
4	Department of Energy or the Environmental Protection
5	Agency.
6	"(e) Study.—The Secretary, in collaboration with
7	the Administrator, shall, not later than 18 months after
8	the date of enactment of the $\llbracket$ Act of
9	2015], make available to the public an update to the Re-
10	port to Congress on Server and Data Center Energy Effi-
11	ciency published on August 2, 2007, under section 1 of
12	Public Law 109–431 (120 Stat. 2920), that provides—
13	"(1) a comparison and gap analysis of the esti-
14	mates and projections contained in the original re-
15	port with new data regarding the period from 2008
16	through 2015;
17	"(2) an analysis considering the impact of in-
18	formation technologies, including virtualization and
19	cloud computing, in the public and private sectors;
20	"(3) an evaluation of the impact of the com-
21	bination of cloud platforms, mobile devices, social
22	media, and big data on data center energy usage;
23	"(4) an evaluation of water usage in data cen-
24	ters and recommendations for reductions in such
25	water usage; and

1	"(5) updated projections and recommendations
2	for best practices through fiscal year 2020.
3	"(f) Data Center Energy Practitioner Pro-
4	GRAM.—The Secretary, in collaboration with key stake-
5	holders and the Director of the Office of Management and
6	Budget, shall maintain a data center energy practitioner
7	program that leads to the certification of energy practi-
8	tioners qualified to evaluate the energy usage and effi-
9	ciency opportunities in Federal data centers. Each Federal
10	agency shall consider having the data centers of the agen-
11	cy evaluated every 4 years, in accordance with section
12	543(f) of the National Energy Conservation Policy Act (42
13	U.S.C. 8253), by energy practitioners certified pursuant
14	to such program.
15	"(g) Open Data Initiative.—The Secretary, in col-
16	laboration with key stakeholders and the Director of the
17	Office of Management and Budget, shall establish an open
18	data initiative for Federal data center energy usage data
19	with the purpose of making such data available and acces-
20	sible in a manner that encourages further data center in-
21	novation, optimization, and consolidation. In establishing
22	the initiative, the Secretary shall consider the use of the
23	online Data Center Maturity Model.
24	"(h) International Specifications and
25	Metrics.—The Secretary, in collaboration with key

- 1 stakeholders, shall actively participate in efforts to har-
- 2 monize global specifications and metrics for data center
- 3 energy and water efficiency.
- 4 "(i) Data Center Utilization Metric.—The Sec-
- 5 retary, in collaboration with key stakeholders, shall facili-
- 6 tate the development of an efficiency metric that measures
- 7 the energy efficiency of a data center (including equipment
- 8 and facilities).
- 9 "(j) Protection of Proprietary Information.—
- 10 The Secretary and the Administrator shall not disclose
- 11 any proprietary information or trade secrets provided by
- 12 any individual or company for the purposes of carrying
- 13 out this section or the programs and initiatives established
- 14 under this section.".
- 15 SEC. 4113. REPORT ON ENERGY AND WATER SAVINGS PO-
- 16 TENTIAL FROM THERMAL INSULATION.
- 17 (a) REPORT.—Not later than 1 year after the date
- 18 of enactment of this Act, the Secretary of Energy, in con-
- 19 sultation with appropriate Federal agencies and relevant
- 20 stakeholders, shall submit to the Committee on Energy
- 21 and Natural Resources of the Senate and the Committee
- 22 on Energy and Commerce of the House of Representatives
- 23 a report on the impact of thermal insulation on both en-
- 24 ergy and water use systems for potable hot and chilled

water in Federal buildings, and the return on investment of installing such insulation. 3 (b) CONTENTS.—The report shall include— 4 (1) an analysis based on the cost of municipal 5 or regional water for delivered water and the avoided 6 cost of new water; and 7 (2) a summary of energy and water savings, in-8 cluding short-term and long-term (20 years) projec-9 tions of such savings. 10 SEC. 4114. FEDERAL PURCHASE REQUIREMENT. 11 Section 203(b) of the Energy Policy Act of 2005 (42) 12 U.S.C. 15852(b)) is amended by striking paragraph (2) 13 and inserting the following: 14 "(2) Renewable energy.—The term 'renew-15 able energy' means electric energy, or thermal en-16 ergy if resulting from a thermal energy project 17 placed in service after December 31, 2014, gen-18 erated from, or avoided by, solar, wind, biomass, 19 landfill gas, ocean (including tidal, wave, current, 20 and thermal), geothermal, municipal solid waste 21 (other than commonly recycled paper that is seg-22 regated from solid waste), qualified waste heat re-23 source, or new hydroelectric generation capacity 24 achieved from increased efficiency or additions of

new capacity at an existing hydroelectric project.

25

1	"(3) QUALIFIED WASTE HEAT RESOURCE.—The
2	term 'qualified waste heat resource' means—
3	"(A) exhaust heat or flared gas from any
4	industrial process;
5	"(B) waste gas or industrial tail gas that
6	would otherwise be flared, incinerated, or vent-
7	$\operatorname{ed};$
8	"(C) a pressure drop in any gas for an in-
9	dustrial or commercial process; or
10	"(D) such other forms of waste heat as the
11	Secretary determines appropriate.".
12	CHAPTER 2—ENERGY EFFICIENT
13	TECHNOLOGY AND MANUFACTURING
	TECHNOLOGY AND MANUFACTURING SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON EN-
14	
13 14 15 16	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON EN-
14 15	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.
14 15 16 17	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS. Section $324(a)(2)$ of the Energy Policy and Conserva-
14 15 16 17	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.  Section 324(a)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6294(a)(2)) is amended by adding the
14 15 16 17	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.  Section 324(a)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6294(a)(2)) is amended by adding the following at the end:
114 115 116 117 118	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.  Section 324(a)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6294(a)(2)) is amended by adding the following at the end:  "(J)(i) Not later than 1 year after the date
14 15 16 17 18 19 20	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.  Section 324(a)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6294(a)(2)) is amended by adding the following at the end:  "(J)(i) Not later than 1 year after the date of enactment of this subparagraph, the Com-
14 15 16 17 18 19 20 21	SEC. 4121. INCLUSION OF SMART GRID CAPABILITY ON ENERGY GUIDE LABELS.  Section 324(a)(2) of the Energy Policy and Conservation Act (42 U.S.C. 6294(a)(2)) is amended by adding the following at the end:  "(J)(i) Not later than 1 year after the date of enactment of this subparagraph, the Commission shall initiate a rulemaking to consider

1	"(I) Smart Grid capability is a fea-
2	ture of that product;
3	"(II) the use and value of that feature
4	depend on the Smart Grid capability of the
5	utility system in which the product is in-
6	stalled and the active utilization of that
7	feature by the customer; and
8	"(III) on a utility system with Smart
9	Grid capability, the use of the product's
10	Smart Grid capability could reduce the
11	customer's cost of the product's annual op-
12	eration as a result of the incremental en-
13	ergy and electricity cost savings that would
14	result from the customer taking full advan-
15	tage of such Smart Grid capability.
16	"(ii) Not later than 3 years after the date
17	of enactment of this subparagraph, the Com-
18	mission shall complete the rulemaking initiated
19	under clause (i).".
20	SEC. 4122. VOLUNTARY VERIFICATION PROGRAMS FOR AIR
21	CONDITIONING, FURNACE, BOILER, HEAT
22	PUMP, AND WATER HEATER PRODUCTS.
23	Section 326(b) of the Energy Policy and Conserva-
24	tion Act (42 U.S.C. 6296(b)) is amended by adding at
25	the end the following:

1	"(6) Voluntary Verification Programs for Air
2	CONDITIONING, FURNACE, BOILER, HEAT PUMP, AND
3	Water Heater Products.—
4	"(A) Reliance on voluntary programs.—
5	For the purpose of verifying compliance with energy
6	conservation standards and Energy Star specifica-
7	tions established under sections 324A, 325, and 342
8	for covered products described in paragraphs (3),
9	(4), (5), (9), and (11) of section 322(a) and covered
10	equipment described in subparagraphs (B), (C), (D),
11	(F), (I), (J), and (K) of section 340(1), the Sec-
12	retary and the Administrator of the Environmental
13	Protection Agency shall rely on testing conducted by
14	recognized voluntary verification programs that are
15	recognized by the Secretary in accordance with sub-
16	paragraph (B).
17	"(B) RECOGNITION OF VOLUNTARY
18	VERIFICATION PROGRAMS.—
19	"(i) In general.—Not later than 180
20	days after the date of enactment of this para-
21	graph, the Secretary shall initiate a negotiated
22	rulemaking in accordance with subchapter III
23	of chapter 5 of title 5, United States Code
24	(commonly known as the 'Negotiated Rule-
25	making Act of 1990') to develop criteria that

1	have consensus support for achieving recogni-
2	tion by the Secretary as an approved voluntary
3	verification program. Any subsequent amend-
4	ment to such criteria may be made only pursu-
5	ant to a subsequent negotiated rulemaking in
6	accordance with subchapter III of chapter 5 of
7	title 5, United States Code.
8	"(ii) MINIMUM REQUIREMENTS.—The cri-
9	teria developed under clause (i) shall, at a min-
10	imum, ensure that a voluntary verification pro-
11	gram—
12	"(I) is nationally recognized;
13	"(II) is operated by a third party and
14	not directly operated by a program partici-
15	pant;
16	"(III) satisfies any applicable ele-
17	ments of—
18	"(aa) International Organization
19	for Standardization standard num-
20	bered 17025; and
21	"(bb) any other relevant Inter-
22	national Organization for Standard-
23	ization standards identified and
24	agreed to through the negotiated rule-
25	making under clause (i);

1	"(IV) at least annually tests inde-
2	pendently obtained products following the
3	test procedures established under this title
4	to verify the certified rating of a represent-
5	ative sample of products and equipment
6	within the scope of the program;
7	"(V) maintains a publicly available
8	list of all ratings of products subject to
9	verification;
10	"(VI) requires the changing of the
11	performance rating or removal of the prod-
12	uct or equipment from the program if test-
13	ing determines that the performance rating
14	does not meet the levels the manufacturer
15	has certified to the Secretary;
16	"(VII) requires new program partici-
17	pants to substantiate ratings through test
18	data generated in accordance with Depart-
19	ment of Energy regulations;
20	"(VIII) allows for challenge testing of
21	products and equipment within the scope
22	of the program;
23	"(IX) requires program participants
24	to disclose the performance rating of all
25	covered products and equipment within the

1	scope of the program for the covered prod-
2	uct or equipment;
3	"(X) provides to the Secretary—
4	"(aa) an annual report of all test
5	results, the contents of which shall be
6	determined through the negotiated
7	rulemaking process under clause (i);
8	and
9	"(bb) test reports, on the request
10	of the Secretary or the Administrator
11	of the Environmental Protection
12	Agency, that note any instructions
13	specified by the manufacturer or the
14	representative of the manufacturer for
15	the purpose of conducting the
16	verification testing, to be exempted
17	from disclosure under section
18	552(b)(4) of title 5, United States
19	Code; and
20	"(XI) satisfies any additional require-
21	ments or standards that the Secretary and
22	Administrator of the Environmental Pro-
23	tection Agency shall establish consistent
24	with this subparagraph.

1	"(iii) Cessation of Recognition.—The
2	Secretary may only cease recognition of a vol-
3	untary verification program as an approved pro-
4	gram described in subparagraph (A) upon a
5	finding that the program is not meeting its obli-
6	gations for compliance through program review
7	criteria developed during the negotiated rule-
8	making conducted under subparagraph (B).
9	"(C) Administration.—
10	"(i) IN GENERAL.—The Secretary and the
11	Administrator of the Environmental Protection
12	Agency shall not require—
13	"(I) manufacturers to participate in a
14	recognized voluntary verification program
15	described in subparagraph (A); or
16	"(II) participating manufacturers to
17	provide information that has already been
18	provided to the Secretary or the Adminis-
19	trator.
20	"(ii) LIST OF COVERED PRODUCTS.—The
21	Secretary or the Administrator of the Environ-
22	mental Protection Agency may maintain a pub-
23	licly available list of covered products and
24	equipment that distinguishes between products
25	that are and are not covered products and

1	equipment verified through a recognized vol-
2	untary verification program described in sub-
3	paragraph (A).
4	"(iii) Periodic verification testing.—
5	The Secretary—
6	"(I) shall not subject products or
7	equipment that have been verification test-
8	ed under a recognized voluntary
9	verification program described in subpara-
10	graph (A) to periodic verification testing to
11	verify the accuracy of the certified per-
12	formance rating of the products or equip-
13	ment; but
14	"(II) may require testing of products
15	or equipment described in subclause (I)—
16	"(aa) if the testing is nec-
17	essary—
18	"(AA) to assess the overall
19	performance of a voluntary
20	verification program;
21	"(BB) to address specific
22	performance issues;
23	"(CC) for use in updating
24	test procedures and standards; or

1	"(DD) for other purposes
2	consistent with this title; or
3	"(bb) if such testing is agreed to
4	during the negotiated rulemaking con-
5	ducted under subparagraph (B).
6	"(D) EFFECT ON OTHER AUTHORITY.—Noth-
7	ing in this paragraph limits the authority of the Sec-
8	retary or the Administrator of the Environmental
9	Protection Agency to enforce compliance with any
10	law.".
11	[SEC. 4123. FACILITATING CONSENSUS FURNACE STAND-
12	ARDS.
13	[(a) Congressional Findings and Declaration
14	of Purpose.—]
15	[(1) FINDINGS.—Congress finds that—]
16	[(A) acting pursuant to the requirements
17	of section 325 of the Energy Policy and Con-
18	servation Act (42 U.S.C. 6295), the Secretary
19	of Energy is considering amending the energy
20	conservation standards applicable to residential
21	non-weatherized gas furnaces and mobile home
22	gas furnaces;]
23	[(B) numerous stakeholders, representing
24	manufacturers, distributors, and installers of

1	mobile home furnaces, natural gas utilities,
2	home builders, multifamily property owners,
3	and energy efficiency, environmental, and con-
4	sumer advocates have begun negotiations in an
5	attempt to agree on a consensus recommenda-
6	tion to the Secretary on levels for such stand-
7	ards that will meet the statutory criteria; and]
8	(C) the stakeholders believe these nego-
9	tiations are likely to result in a consensus rec-
10	ommendation, but several of the stakeholders
11	do not support suspending the current rule-
12	making.]
13	<b> [</b> (2) Purpose.—It is the purpose of this sec-
14	tion to provide the stakeholders described in para-
15	graph (1) with an opportunity to continue negotia-
16	tions for a limited time period to facilitate the pro-
17	posal for adoption of standards that enjoy consensus
18	support, while not delaying the current rulemaking
19	except to the extent necessary to provide such oppor-
20	tunity.]
21	[(b) Opportunity for a Negotiated Furnace
22	STANDARD.—Section 325(f)(4) of the Energy Policy and
23	Conservation Act (42 U.S.C. 6295(f)(4)) is amended by
24	adding after subparagraph (D) the following:

1	["(E)(i) Unless the Secretary has published such a
2	notice prior to the date of enactment of this Act, the Sec-
3	retary shall publish, not later than October 31, 2015, a
4	supplemental notice of proposed rulemaking or a notice
5	of data availability updating the proposed rule entitled
6	'Energy Conservation Program for Consumer Products:
7	Energy Conservation Standards for Residential Furnaces'
8	and published in the Federal Register on March 12, 2015
9	(80 Fed. Reg. 13119), to provide notice and an oppor-
10	tunity for comment on—]
11	$\llbracket$ "(I) dividing non-weatherized natural gas
12	furnaces into two or more product classes with
13	separate energy conservation standards based
14	on capacity; and
15	["(II) any other matters the Secretary de-
16	termines appropriate.]
17	["(ii) On receipt of a statement that is submitted on
18	or before January 1, 2016, jointly by interested persons
19	that are fairly representative of relevant points of view,
20	that contains recommended standards for non-weatherized
21	natural gas furnaces and mobile home gas furnaces that
22	are consistent with the requirements of this part (except
23	that the date on which such standards will apply may be
24	earlier or later than the date required under this part),
25	the Secretary shall evaluate the standards proposed in the

joint statement for consistency with the requirements of subsection (o), and shall publish notice of the potential 3 adoption of the standards proposed in the joint statement, 4 modified as necessary to ensure consistency with sub-5 section (o). The Secretary shall solicit public comment for 6 a period of at least 30 days with respect to such notice. 7 I"(iii) Not later than July 31, 2016, but not before 8 July 1, 2016, the Secretary shall publish a final rule containing a determination of whether the standards for non-10 weatherized natural gas furnaces and mobile home gas furnaces should be amended. Such rule shall contain any 12 such amendments to the standards.". 13 SEC. 4124. FUTURE OF INDUSTRY PROGRAM. 14 (a) IN GENERAL.—Section 452 of the Energy Inde-15 pendence and Security Act of 2007 (42 U.S.C. 17111) is amended by striking the section heading and inserting the 16 17 following: "FUTURE OF INDUSTRY PROGRAM". 18 (b) Definition of Energy Service Provider.— 19 Section 452(a) of the Energy Independence and Security 20 Act of 2007 (42 U.S.C. 17111(a)) is amended— 21 (1) by redesignating paragraphs (3) through 22 (5) as paragraphs (4) through (6), respectively; and 23 (2) by inserting after paragraph (2): 24 "(3) Energy service provider.—The term 25 'energy service provider' means any business pro-

1	viding technology or services to improve the energy
2	efficiency, water efficiency, power factor, or load
3	management of a manufacturing site or other indus-
4	trial process in an energy-intensive industry, or any
5	utility operating under a utility energy service
6	project.".
7	(c) Industrial Research and Assessment Cen-
8	TERS.—Section 452(e) of the Energy Independence and
9	Security Act of 2007 (42 U.S.C. 17111(e)) is amended—
10	(1) by redesignating paragraphs (1) through
11	(5) as subparagraphs (A) through (E), respectively,
12	and indenting appropriately;
13	(2) by striking "The Secretary" and inserting
14	the following:
15	"(1) IN GENERAL.—The Secretary";
16	(3) in subparagraph (A) (as redesignated by
17	paragraph (1)), by inserting before the semicolon at
18	the end the following: ", including assessments of
19	sustainable manufacturing goals and the implemen-
20	tation of information technology advancements for
21	supply chain analysis, logistics, system monitoring,
22	industrial and manufacturing processes, and other
23	purposes''; and
24	(4) by adding at the end the following:

1	"(2) Coordination.—To increase the value
2	and capabilities of the industrial research and as-
3	sessment centers, the centers shall—
4	"(A) coordinate with Manufacturing Ex-
5	tension Partnership Centers of the National In-
6	stitute of Standards and Technology;
7	"(B) coordinate with the Building Tech-
8	nologies Office of the Department of Energy to
9	provide building assessment services to manu-
10	facturers;
11	"(C) increase partnerships with the Na-
12	tional Laboratories of the Department of En-
13	ergy to leverage the expertise and technologies
14	of the National Laboratories for national indus-
15	trial and manufacturing needs; and
16	"(D) increase partnerships with energy
17	service providers and technology providers to le-
18	verage private sector expertise and accelerate
19	deployment of new and existing technologies
20	and processes for energy efficiency, power fac-
21	tor, and load management.
22	"(3) Outreach.—The Secretary shall provide
23	funding for—
24	"(A) outreach activities by the industrial
25	research and assessment centers to inform

1	small and medium-sized manufacturers of the
2	information, technologies, and services avail-
3	able; and
4	"(B) coordination activities by each indus-
5	trial research and assessment center to leverage
6	efforts with—
7	"(i) Federal and State efforts;
8	"(ii) the efforts of utilities and energy
9	service providers;
10	"(iii) the efforts of regional energy ef-
11	ficiency organizations; and
12	"(iv) the efforts of other industrial re-
13	search and assessment centers.
14	"(4) Small business loans.—The Adminis-
15	trator of the Small Business Administration shall, to
16	the maximum extent practicable, expedite consider-
17	ation of applications from eligible small business
18	concerns for loans under the Small Business Act (15
19	U.S.C. 631 et seq.) to implement recommendations
20	of industrial research and assessment centers estab-
21	lished under paragraph (1).".
22	(d) Conforming Amendment.—The item relating
23	to section 452 in the table of contents for the Energy
24	Independence and Security Act of 2007 is amended to
25	read as follows:

<sup>&</sup>quot;Sec. 452. Future of Industry program.".

## CHAPTER 3—ENERGY PERFORMANCE 1 2 CONTRACTING SEC. 4131. USE OF ENERGY AND WATER EFFICIENCY MEAS-3 4 URES IN FEDERAL BUILDINGS. 5 (a) Reports.—Section 548(b) of the National En-6 ergy Conservation Policy Act (42 U.S.C. 8258(b)) is 7 amended— 8 (1) in paragraph (3), by striking "and" at the 9 end: 10 (2) in paragraph (4), by striking the period at 11 the end and inserting "; and"; and 12 (3) by adding at the end the following new 13 paragraph: 14 "(5) the status of each agency's energy savings 15 performance contracts and utility energy service con-16 tracts, the investment value of such contracts, the 17 guaranteed energy savings for the previous year as 18 compared to the energy savings as measured and 19 verified for the previous year, the plan for entering 20 into such contracts in the coming year, and informa-21 tion explaining why any previously submitted plans 22 for such contracts were not implemented.". 23 (b) FEDERAL ENERGY MANAGEMENT Defini-TIONS.—Section 551(4) of the National Energy Conservation Policy Act (42 U.S.C. 8259(4)) is amended by insert-

1	ing "energy consuming devices and required support
2	structures that contribute to energy or water utility cost
3	savings," after "maintenance efficiencies,".
4	(e) Authority To Enter Into Contracts.—Sec-
5	tion 801(a)(2)(F) of the National Energy Conservation
6	Policy Act (42 U.S.C. 8287(a)(2)(F)) is amended—
7	(1) in clause (i), by striking "or" at the end;
8	(2) in clause (ii), by striking the period at the
9	end and inserting "; or"; and
10	(3) by adding at the end the following new
11	clause:
12	"(iii) limit the recognition of oper-
13	ation and maintenance savings associated
14	with systems modernized or replaced with
15	the implementation of energy conservation
16	measures, water conservation measures, or
17	any series of energy conservation measures
18	and water conservation measures.".
19	(d) MISCELLANEOUS AUTHORITY.—Section
20	801(a)(2) of the National Energy Conservation Policy Act
21	(42 U.S.C. 8287(a)) is amended by adding at the end the
22	following:
23	"(H) MISCELLANEOUS AUTHORITY.—Not-
24	withstanding any other provision of law, a Fed-
25	eral agency may sell or transfer energy savings

1	described in subparagraph (E) or (F) of section
2	804(2) and apply the proceeds of such sale or
3	transfer to fund a contract under this title.".
4	(e) Payment of Costs.—Section 802 of the Na-
5	tional Energy Conservation Policy Act (42 U.S.C. 8287a)
6	is amended by striking "(and related operation and main-
7	tenance expenses)" and inserting ", including related op-
8	erations and maintenance expenses".
9	(f) Energy Savings Performance Contracts
10	Definitions.—Section 804(2) of the National Energy
11	Conservation Policy Act (42 U.S.C. 8287c(2)) is amend-
12	$\operatorname{ed}$ —
13	(1) in subparagraph (A), by striking "federally
14	owned building or buildings or other federally owned
15	facilities" and inserting "Federal building (as de-
16	fined in section 551 (42 U.S.C. 8259))" each place
17	it appears;
18	(2) in subparagraph (C), by striking "; and"
19	and inserting a semicolon;
20	(3) in subparagraph (D), by striking the period
21	at the end and inserting a semicolon; and
22	(4) by adding at the end the following new sub-
23	paragraphs:
24	"(E) the use, sale, or transfer of energy in-
25	centives, rebates, or credits (including renew-

1	able energy credits) from Federal, State, or
2	local governments or utilities; and
3	"(F) any revenue generated from a reduc-
4	tion in energy or water use, more efficient
5	waste recycling, or additional energy generated
6	from more efficient equipment.".
7	CHAPTER 4—SCHOOL BUILDINGS
8	SEC. 4141. COORDINATION OF ENERGY RETROFITTING AS-
9	SISTANCE FOR SCHOOLS.
10	Section 392 of the Energy Policy and Conservation
11	Act (42 U.S.C. 6371a) is amended by adding at the end
12	the following:
13	"(e) Coordination of Energy Retrofitting As-
14	SISTANCE FOR SCHOOLS.—
15	"(1) Definition of School.—Notwith-
16	standing section 391(6), for the purposes of this
17	subsection, the term 'school' means—
18	"(A) an elementary school or secondary
19	school (as defined in section 9101 of the Ele-
20	mentary and Secondary Education Act of 1965
21	(20 U.S.C. 7801));
22	"(B) an institution of higher education (as
23	defined in section 102(a) of the Higher Edu-
24	cation Act of 1965 (20 U.S.C. 1002(a)));

1	"(C) a school of the defense dependents'
2	education system under the Defense Depend-
3	ents' Education Act of 1978 (20 U.S.C. 921 et
4	seq.) or established under section 2164 of title
5	10, United States Code;
6	"(D) a school operated by the Bureau of
7	Indian Affairs;
8	"(E) a tribally controlled school (as de-
9	fined in section 5212 of the Tribally Controlled
10	Schools Act of 1988 (25 U.S.C. 2511)); and
11	"(F) a Tribal College or University (as de-
12	fined in section 316(b) of the Higher Education
13	Act of 1965 (20 U.S.C. 1059c(b))).
14	"(2) Establishment of clearinghouse.—
15	The Secretary, acting through the Office of Energy
16	Efficiency and Renewable Energy, shall establish a
17	clearinghouse to disseminate information regarding
18	available Federal programs and financing mecha-
19	nisms that may be used to help initiate, develop, and
20	finance energy efficiency, distributed generation, and
21	energy retrofitting projects for schools.
22	"(3) Requirements.—In carrying out para-
23	graph (2), the Secretary shall—
24	"(A) consult with appropriate Federal
25	agencies to develop a list of Federal programs

1	and financing mechanisms that are, or may be,
2	used for the purposes described in paragraph
3	(2); and
4	"(B) coordinate with appropriate Federal
5	agencies to develop a collaborative education
6	and outreach effort to streamline communica-
7	tions and promote available Federal programs
8	and financing mechanisms described in sub-
9	paragraph (A), which may include the develop-
10	ment and maintenance of a single online re-
11	source that includes contact information for rel-
12	evant technical assistance in the Office of En-
13	ergy Efficiency and Renewable Energy that
14	States, local education agencies, and schools
15	may use to effectively access and use such Fed-
16	eral programs and financing mechanisms.".
17	Subtitle B—Accountability
18	CHAPTER 1—MARKET MANIPULATION,
19	ENFORCEMENT, AND COMPLIANCE
20	SEC. 4211. FERC OFFICE OF COMPLIANCE ASSISTANCE AND
21	PUBLIC PARTICIPATION.
22	Section 319 of the Federal Power Act (16 U.S.C.
23	825q-1) is amended to read as follows:

1	"SEC. 319. OFFICE OF COMPLIANCE ASSISTANCE AND PUB-
2	LIC PARTICIPATION.
3	"(a) Establishment.—There is established within
4	the Commission an Office of Compliance Assistance and
5	Public Participation (referred to in this section as the 'Of-
6	fice'). The Office shall be headed by a Director.
7	"(b) Duties of Director.—
8	"(1) IN GENERAL.—The Director of the Office
9	shall promote improved compliance with Commission
10	rules and orders by—
11	"(A) making recommendations to the Com-
12	mission regarding—
13	"(i) the protection of consumers;
14	"(ii) market integrity and support for
15	the development of responsible market be-
16	havior;
17	"(iii) the application of Commission
18	rules and orders in a manner that ensures
19	that—
20	"(I) rates and charges for, or in
21	connection with, the transmission or
22	sale of electric energy subject to the
23	jurisdiction of the Commission shall
24	be just and reasonable and not unduly
25	discriminatory or preferential; and

1	$(\Pi)$ markets for such trans-
2	mission and sale of electric energy are
3	not impaired and consumers are not
4	damaged; and
5	"(iv) the impact of existing and pro-
6	posed Commission rules and orders on
7	small entities, as defined in section 601 of
8	title 5, United States Code (commonly
9	known as the Regulatory Flexibility Act);
10	"(B) providing entities subject to regula-
11	tion by the Commission the opportunity to ob-
12	tain timely guidance for compliance with Com-
13	mission rules and orders; and
14	"(C) providing information to the Commis-
15	sion and Congress to inform policy with respect
16	to energy issues under the jurisdiction of the
17	Commission.
18	"(2) Reports and Guidance.—The Director
19	shall, as the Director determines appropriate, issue
20	reports and guidance to the Commission and to enti-
21	ties subject to regulation by the Commission, regard-
22	ing market practices, proposing improvements in
23	Commission monitoring of market practices, and ad-
24	dressing potential improvements to both industry
25	and Commission practices.

1	"(3) Outreach.—The Director shall promote
2	improved compliance with Commission rules and or-
3	ders through outreach, publications, and, where ap-
4	propriate, direct communication with entities regu-
5	lated by the Commission.".
6	CHAPTER 2—MARKET REFORMS
7	SEC. 4221. GAO STUDY ON WHOLESALE ELECTRICITY MAR-
8	KETS.
9	(a) STUDY AND REPORT.—Not later than 1 year
10	after the date of enactment of this Act, the Comptroller
11	General shall submit to the Committee on Energy and
12	Commerce of the House of Representatives and the Com-
13	mittee on Energy and Natural Resources of the Senate
14	a report describing the results of a study of whether and
15	how the current market rules, practices, and structures
16	of each regional transmission entity produce rates that are
17	just and reasonable by—
18	(1) facilitating fuel diversity, the availability of
19	generation resources during emergency and severe
20	weather conditions, resource adequacy, and reli-
21	ability, including the cost-effective retention and de-
22	velopment of needed generation;
23	(2) promoting the equitable treatment of busi-
24	ness models, including different utility types, the in-

1	tegration of diverse generation resources, and ad-
2	vanced grid technologies;
3	(3) identifying and addressing regulatory bar-
4	riers to entry, market-distorting incentives, and arti-
5	ficial constraints on competition;
6	(4) providing transparency regarding dispatch
7	decisions, including the need for out-of-market ac-
8	tions and payments, and the accuracy of day-ahead
9	unit commitments;
10	(5) facilitating the development of necessary
11	natural gas pipeline and electric transmission infra-
12	structure;
13	(6) ensuring fairness and transparency in gov-
14	ernance structures and stakeholder processes, in-
15	cluding meaningful participation by both voting and
16	non-voting stakeholder representatives;
17	(7) ensuring the proper alignment of the energy
18	and transmission markets by including both energy
19	and financial transmission rights in the day-ahead
20	markets;
21	(8) facilitating the ability of load-serving enti-
22	ties to self-supply their service territory load;
23	(9) considering, as appropriate, State and local
24	resource planning; and

1	(10) mitigating, to the extent practicable, the
2	disruptive effects of tariff revisions on the economic
3	decision-making of market participants.
4	(b) Definitions.—In this section:
5	(1) Load-serving entity.—The term "load-
6	serving entity" has the meaning given that term in
7	section 217 of the Federal Power Act (16 U.S.C.
8	824q).
9	(2) REGIONAL TRANSMISSION ENTITY.—The
10	term "regional transmission entity" means a Re-
11	gional Transmission Organization or an Independent
12	System Operator, as such terms are defined in sec-
13	tion 3 of the Federal Power Act (16 U.S.C. 796).