^{109TH CONGRESS} 1ST SESSION S. 1133

To authorize the Secretary of Energy to develop and implement an accelerated research, development, and demonstration program for advanced clean coal technologies for use in coal-based generation facilities and to provide financial incentives to encourage the early commercial deployment of advanced clean coal technologies through the retrofitting, repowering, replacement, and new construction of coal-based electricity generating facilities and industrial gasification facilities.

IN THE SENATE OF THE UNITED STATES

May 26, 2005

Mr. BYRD (for himself, Mr. ROCKEFELLER, and Mr. SPECTER) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

- To authorize the Secretary of Energy to develop and implement an accelerated research, development, and demonstration program for advanced clean coal technologies for use in coal-based generation facilities and to provide financial incentives to encourage the early commercial deployment of advanced clean coal technologies through the retrofitting, repowering, replacement, and new construction of coal-based electricity generating facilities and industrial gasification facilities.
 - Be it enacted by the Senate and House of Representa tives of the United States of America in Congress assembled,

1 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

- 2 (a) SHORT TITLE.—This Act may be cited as the
- 3 "Clean Coal Research, Development, Demonstration, and
- 4 Deployment Act of 2005".
- 5 (b) TABLE OF CONTENTS.—The table of contents of

6 this Act is as follows:

Sec. 1. Short title; table of contents. Sec. 2. Definitions.

TITLE I—CLEAN COAL INITIATIVE

Subtitle A-Clean Coal Research, Development, and Demonstration Program

- Sec. 101. Clean coal power initiative.
- Sec. 102. Research and development programs.
- Sec. 103. Authorization of appropriations.

Subtitle B—Coal-Based Electric Generation Deployment Program

- Sec. 111. Purpose.
- Sec. 112. Definitions.
- Sec. 113. Deployment incentive program.
- Sec. 114. Election of Federal financial incentives.
- Sec. 115. Qualifying advanced coal projects.
- Sec. 116. Advanced coal-based generation technology.
- Sec. 117. Federal project coordinator.
- Sec. 118. Applicability.
- Sec. 119. Investment tax credit and shortened recovery period.
- Sec. 120. Credit to holders of clean energy bonds.

TITLE II—INDUSTRIAL GASIFICATION INITIATIVE

- Sec. 201. Findings and purpose.
- Sec. 202. Definitions.

Subtitle A—Industrial Gasification Research, Development, and Demonstration Program

- Sec. 211. Establishment.
- Sec. 212. Cost and performance goals.
- Sec. 213. Study.
- Sec. 214. Authorization of appropriations.

Subtitle B—Industrial Gasification Deployment Program

- Sec. 221. Establishment of certification program.
- Sec. 222. Credit for production from certified industrial gasification projects.

7 SEC. 2. DEFINITIONS.

8 In this Act:

	9
1	(1) DEPARTMENT.—The term "Department"
2	means the Department of Energy.
3	(2) Secretary.—The term "Secretary" means
4	the Secretary of Energy.
5	TITLE I—CLEAN COAL
6	INITIATIVE
7	Subtitle A—Clean Coal Research,
8	Development, and Demonstra-
9	tion Program
10	SEC. 101. CLEAN COAL POWER INITIATIVE.
11	(a) IN GENERAL.—
12	(1) ESTABLISHMENT.—The Secretary shall es-
13	tablish a clean coal power initiative under which the
14	Secretary shall provide assistance under this subtitle
15	for projects described in paragraph (2).
16	(2) PROJECTS.—To be eligible to receive assist-
17	ance under this subtitle, a project shall—
18	(A) significantly advance efficiency, reli-
19	ability, environmental performance, and cost
20	competitiveness or develop alternative tech-
21	nology pathways beyond the levels of tech-
22	nologies that—
23	(i) are in commercial service as of the
24	date of enactment of this Act; or

1	(ii) have been demonstrated at scales
2	sufficient to demonstrate that commercial
3	service is viable, as determined by the Sec-
4	retary; and
5	(B) be operated in the United States using
6	United States coal.
7	(b) Technical Criteria.—
8	(1) Gasification projects.—
9	(A) Allocation of funds.—In allocating
10	the funds made available under section 103(a),
11	the Secretary shall ensure that at least 65 per-
12	cent of the funds are used to fund projects
13	using coal-based gasification technologies, in-
14	cluding—
15	(i) gasification combined cycle;
16	(ii) gasification fuel cells and turbine
17	combined cycle;
18	(iii) gasification coproduction; and
19	(iv) hybrid gasification and combus-
20	tion.
21	(B) TECHNICAL MILESTONES.—
22	(i) Periodic determination.—
23	(I) IN GENERAL.—The Secretary
24	shall periodically establish technical
25	milestones specifying the emission and

1	
1	thermal efficiency levels to which
2	power and coproduction projects
3	under this subtitle shall be designed,
4	and reasonably expected, to achieve.
5	(II) Prescriptive mile-
6	STONES.—The technical milestones
7	shall become more prescriptive during
8	the period of the clean coal power ini-
9	tiative.
10	(ii) 2020 GOALS.—The Secretary shall
11	establish periodic milestones so as to
12	achieve, by the year 2020, coal gasification
13	projects able—
14	(I) to remove at least 99 percent
15	of the sulfur compounds;
16	(II) to emit not more than .05
17	lbs of NOx per million Btu;
18	(III) to achieve 95 percent reduc-
19	tions in mercury emissions; and
20	(IV) to achieve thermal to elec-
21	trical conversion efficiencies (also
22	known as "higher heating value") of
23	at least—
24	(aa) 50 percent for coal of
25	more than 9,000 Btu;

1	(bb) 48 percent for coal of
2	7,000 to 9,000 Btu; and
3	(cc) 46 percent for coal of
4	less than 7,000 Btu.
5	(2) Other projects.—
6	(A) Allocation of funds.—The Sec-
7	retary shall ensure that not more than 35 per-
8	cent of the funds made available under section
9	103(a) are used to fund projects other than
10	those described in paragraph $(1)(A)$.
11	(B) TECHNICAL MILESTONES.—
12	(i) Periodic determination.—
13	(I) IN GENERAL.—The Secretary
14	shall periodically establish technical
15	milestones specifying the emission and
16	thermal efficiency levels that projects
17	other than those described in para-
18	graph $(1)(A)$ shall be designed, and
19	reasonably expected, to achieve.
20	(II) PRESCRIPTIVE MILE-
21	STONES.—The technical milestones
22	shall become more prescriptive during
23	the period of the clean coal power ini-
24	tiative.

1	(ii) 2020 goals.—The Secretary shall
2	establish the periodic milestones so as to
3	achieve, by the year 2020, projects able—
4	(I) to remove at least 97 percent
5	of sulfur dioxide;
6	(II) to emit not more than .08
7	lbs of NOx per million Btu;
8	(III) to achieve 90 percent reduc-
9	tions in mercury emissions; and
10	(IV) to achieve thermal to elec-
11	trical conversion efficiencies (also
12	known as "higher heating value") of
13	at least—
14	(aa) 43 percent for coal of
15	more than 9,000 Btu;
16	(bb) 41 percent for coal of
17	7,000 to 9,000 Btu; and
18	(cc) 39 percent for coal of
19	less than 7,000 Btu.
20	(3) EXISTING UNITS.—In the case of projects
21	at units in existence on the date of enactment of this
22	Act, in lieu of the thermal efficiency requirements
23	described in paragraphs $(1)(B)(ii)$ and $(2)(B)(ii)$,
24	the milestones shall be designed to achieve an overall
25	thermal design efficiency improvement, compared to

1	the efficiency of the unit as operated, of not less
2	than—
3	(A) 7 percentage points for coal of more
4	than 9,000 Btu;
5	(B) 6 percentage points for coal of 7,000
6	to 9,000 Btu; or
7	(C) 4 percentage points for coal of less
8	than 7,000 Btu.
9	(c) PROJECT SELECTION.—
10	(1) IN GENERAL.—In evaluating project pro-
11	posals, the Secretary shall select those demonstra-
12	tion projects that are expected to demonstrate
13	progress toward achieving the milestones described
14	in paragraphs (1) and (2) of subsection (b).
15	(2) SITE ELEVATION AND RANK OF COAL.—In
16	evaluating project proposals to achieve the mile-
17	stones described in paragraphs $(1)(B)(i)$, $(2)(B)(i)$,
18	and (3) of subsection (b), and in determining
19	progress toward achieving the milestones described
20	in paragraph (4) and paragraphs $(1)(B)(ii)$ and
21	(2)(B)(ii) of subsection (b), the Secretary shall take
22	into account and make adjustments for the Btu
23	value of various coals and the elevation of the site
24	at which a project is proposed to be constructed.

1	(3) CONSULTATION.—Before establishing the
2	technical milestones under paragraphs $(1)(B)(i)(I)$
3	and $(2)(B)(i)(I)$ of subsection (b), the Secretary
4	shall consult with—
5	(A) the Administrator of the Environ-
6	mental Protection Agency; and
7	(B) interested persons, including—
8	(i) coal producers;
9	(ii) industries using coal;
10	(iii) organizations that promote coal
11	or advanced coal technologies;
12	(iv) environmental organizations;
13	(v) organizations representing work-
14	ers; and
15	(vi) organizations representing con-
16	sumers.
17	(4) PERMITTED USES.—In carrying out this
18	subtitle, the Secretary shall give high priority to
19	projects that include, as part of the project—
20	(A) the separation or capture of carbon di-
21	oxide; or
22	(B) the reduction of the demand for nat-
23	ural gas if deployed.
24	(d) FINANCIAL CRITERIA.—The Secretary shall not
25	provide assistance under this subtitle for a project unless

1 the recipient documents to the satisfaction of the Sec-2 retary that—

3 (1) the recipient organization is financially re-4 sponsible;

5 (2) the recipient shall provide sufficient infor6 mation to the Secretary to ensure the Secretary that
7 the federally-awarded funds will be spent efficiently
8 and effectively; and

9 (3) a market exists for the technology being
10 demonstrated or applied, as evidenced by statements
11 of interest in writing from potential purchasers of
12 the technology.

(e) FINANCIAL ASSISTANCE.—The Secretary shall
provide assistance to projects that, as determined by the
Secretary—

16 (1) meet the requirements of subsections (a),17 (b), and (c); and

18 (2) are likely—

(A) to achieve overall cost reductions in
the use of coal to generate useful forms of energy or chemical feedstocks; and

(B) to improve the competitiveness of coal
among various forms of energy in order to
maintain a diversity of fuel choices in the

United States to meet electricity generation or chemical feedstock requirements.

3 (f) FEDERAL SHARE.—The Federal share of the cost
4 of a coal or related technology project carried out using
5 funds made available under this subtitle shall not exceed
6 50 percent, as determined by the Secretary.

7 (g) Scheduled Completion of Selected 8 Projects.—

9 (1) IN GENERAL.—In selecting a project for fi-10 nancial assistance under this section, the Secretary 11 shall establish a reasonable period of time during 12 which the owner or operator of the project shall 13 complete the construction or demonstration phase of 14 the project, as the Secretary determines to be appro-15 priate.

(2) CONDITION OF FINANCIAL ASSISTANCE.—
The Secretary shall require as a condition of receipt
of any financial assistance under this subtitle that
the recipient of the assistance enter into an agreement with the Secretary not to request an extension
of the time period established for the project by the
Secretary under paragraph (1).

23 (3) EXTENSION OF TIME PERIOD.—

24 (A) IN GENERAL.—Subject to subpara25 graph (B), the Secretary may extend the time

1

1 period established under paragraph (1) if the 2 Secretary determines, in the sole discretion of 3 the Secretary, that the owner or operator of the 4 project cannot complete the construction or 5 demonstration phase of the project within the 6 time period due to circumstances beyond the 7 control of the owner or operator.

8 (B) LIMITATION.—The Secretary shall not
9 extend a time period under subparagraph (A)
10 by more than 4 years.

(h) REPAYMENT OF FEDERAL SHARE.—Notwithstanding any other provision of law, the Secretary shall
not condition an award of financial assistance to a Clean
Coal Power Initiative project under this subtitle on repayment of the Federal share of the cost of the project.

(i) APPLICABILITY.—No technology, or level of emission reduction, solely by reason of the use of the technology, or the achievement of the emission reduction by
the demonstration of any technology or performance level
by 1 or more facilities receiving assistance under this subtitle, shall be considered to indicate that the technology
or performance level is—

(1) adequately demonstrated for purposes of
section 111 of the Clean Air Act (42 U.S. C. 7411);

1	(2) achievable for purposes of section 169 of
2	that Act (42 U.S. C. 7479); or
3	(3) achievable in practice for purposes of sec-
4	tion 171 of that Act (42 U.S. C. 7501).
5	(j) REPORT.—Not later than 1 year after the date
6	of enactment of this Act, and once every 2 years thereafter
7	through 2013, the Secretary, in consultation with other
8	appropriate Federal agencies, shall submit to Congress a
9	report describing—
10	(1)(A) the technical milestones described in this
11	section; and
12	(B) how those milestones ensure progress to-
13	ward meeting the requirements of paragraphs
14	(1)(B)(ii) and $(2)(B)(ii)$ of subsection (b);
15	(2) how the technologies being demonstrated
16	under the clean coal power initiative demonstrate
17	methods and equipment that can be used in broader
18	commercial applications in addition to electric power
10	

generation; and

(3) the status of projects that receive assistance under this subtitle.

(k) FEE TITLE.—The Secretary may vest fee title or other property interests acquired under cost-share Clean Coal Power Initiative agreements in any entity, including 25 the United States.

1 (1) DATA PROTECTION.—For a period not exceeding 2 5 years after completion of the operations phase of a coop-3 erative agreement, the Secretary may provide appropriate 4 protections, including exemptions from subchapter II of 5 chapter 5 of title 5, United States Code, against the dis-6 semination of information that results from demonstration 7 activities carried out under the Clean Coal Power Initia-8 tive Program and that would be a trade secret or commer-9 cial or financial information that is privileged or confiden-10 tial if the information had been obtained from and first produced by a non-Federal party participating in a Clean 11 12 Coal Power Initiative project.

13 SEC. 102. RESEARCH AND DEVELOPMENT PROGRAMS.

(a) OBJECTIVES.—The Secretary shall conduct a program of technology research, development, demonstration,
and commercial application for coal and power systems,
including programs to facilitate production and generation
of coal-based energy through—

- 19 (1) innovations for existing plants;
- 20 (2) gasification systems;
- 21 (3) advanced combustion systems;
- 22 (4) turbines for synthesis gas derived from coal;

23 (5) carbon capture and sequestration research24 and development;

1	(6) coal-derived chemicals and liquid transpor-
2	tation fuels;
3	(7) solid fuels and feedstocks;
4	(8) advanced coal-related research;
5	(9) advanced separation technologies;
6	(10) fuel cells for operation on synthesis gas de-
7	rived from coal; and
8	(11) projects for permeability enhancement in
9	coals for natural gas production and carbon dioxide
10	sequestration.
11	(b) CARBON CAPTURE RESEARCH AND DEVELOP-
12	MENT PROGRAM.—
13	(1) IN GENERAL.—In addition to the research
14	and development activities authorized under sub-
15	section $(a)(5)$, the Secretary shall carry out a 10-
16	year carbon capture research and development pro-
17	gram to develop carbon dioxide capture technologies
18	for use—
19	(A) in new coal utilization facilities; and
20	(B) on the existing fleet of coal-based
21	units.
22	(2) Objectives.—The program objectives shall
23	be—
24	(A) to develop carbon dioxide capture tech-
25	nologies, including adsorption and absorption

1 techniques and chemical processes, to remove 2 the carbon dioxide from gas streams containing 3 carbon dioxide potentially amenable to seques-4 tration; (B) to develop technologies that would di-5 6 rectly produce concentrated streams of carbon 7 dioxide potentially amenable to sequestration; 8 (C) to increase the efficiency of the overall 9 system to reduce the quantity of carbon dioxide 10 emissions released from the system per mega-11 watt generated; and 12 (D) in conjunction with the carbon dioxide 13 capture program, to promote a robust carbon 14 sequestration program and continue the work of 15 the Department in conjunction with the private 16 sector, through regional carbon sequestration 17 partnerships. 18 (c) COST AND PERFORMANCE GOALS.— 19 (1) IN GENERAL.—In carrying out programs 20 under this section, in each of fiscal years 2008 and 21 2016 and in each year following fiscal year 2021, 22 the Secretary shall identify cost and performance 23 goals for coal-based technologies that would permit

24 the continued cost-competitive use of coal for the

1	production of electricity, chemical feedstocks, and
2	liquid transportation fuels.
3	(2) ESTABLISHING GOALS.—In identifying cost
4	and performance goals under paragraph (1), the
5	Secretary shall—
6	(A) consider activities and studies under-
7	taken as of the date of enactment of this Act
8	by industry in cooperation with the Department
9	in support of the goals;
10	(B) consult with interested persons, includ-
11	ing—
12	(i) coal producers;
13	(ii) industries using coal;
14	(iii) organizations that promote coal
15	and advanced coal technologies;
16	(iv) environmental organizations;
17	(v) organizations representing work-
18	ers; and
19	(vi) organizations representing con-
20	sumers;
21	(C) not later than 120 days after the date
22	of enactment of this Act, publish in the Federal
23	Register proposed draft cost and performance
24	goals for public comment; and

1	(D) not later than 180 days after the date
2	of enactment of this Act and every 4 years
3	thereafter, submit to Congress a report that—
4	(i) describes final cost and perform-
5	ance goals for technologies described in
6	paragraph (1);
7	(ii) includes a list of technical mile-
8	stones; and
9	(iii) explains how programs authorized
10	in this section will not duplicate activities
11	carried out under section 101.
12	SEC. 103. AUTHORIZATION OF APPROPRIATIONS.
13	(a) Clean Coal Power Initiative.—
13 14	(a) CLEAN COAL POWER INITIATIVE.—(1) IN GENERAL.—There is authorized to be
14	(1) IN GENERAL.—There is authorized to be
14 15	(1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section
14 15 16	(1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006
14 15 16 17	(1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006 through 2012, to remain available until expended.
14 15 16 17 18	 (1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006 through 2012, to remain available until expended. (2) REPORT.—Not later than March 31, 2006,
14 15 16 17 18 19	 (1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006 through 2012, to remain available until expended. (2) REPORT.—Not later than March 31, 2006, the Secretary shall submit to Congress a report that
 14 15 16 17 18 19 20 	 (1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006 through 2012, to remain available until expended. (2) REPORT.—Not later than March 31, 2006, the Secretary shall submit to Congress a report that includes a 10-year plan that includes—
 14 15 16 17 18 19 20 21 	 (1) IN GENERAL.—There is authorized to be appropriated to the Secretary to carry out section 101 \$200,000,000 for each of fiscal years 2006 through 2012, to remain available until expended. (2) REPORT.—Not later than March 31, 2006, the Secretary shall submit to Congress a report that includes a 10-year plan that includes— (A) a detailed assessment of whether the

1	(B) a detailed description of how proposals
2	for assistance under the clean coal power initia-
3	tive will be solicited and evaluated, including a
4	list of all activities expected to be undertaken;
5	(C) a detailed list of technical milestones
6	for each coal and related technology that will be
7	pursued; and
8	(D) a detailed description of how the clean
9	coal initiative will avoid problems enumerated in
10	Government Accountability Office reports on
11	the Clean Coal Technology Program of the De-
12	partment, including problems that have resulted
13	in unspent funds and projects that failed either
14	financially or scientifically.
15	(b) Research and Development Programs.—
16	(1) IN GENERAL.—There are authorized to be
17	appropriated to the Secretary to carry out clean coal
18	technology research, development, demonstration,
19	and commercial application activities, including ac-
20	tivities described in section 102(a)—
21	(A) \$324,000,000 for fiscal year 2005;
22	(B) \$337,000,000 for fiscal year 2006;
23	(C) \$364,000,000 for fiscal year 2007;
24	(D) \$394,000,000 for fiscal year 2008;
25	and

1	(E) \$427,000,000 for fiscal year 2009.
2	(2) CARBON CAPTURE RESEARCH AND DEVEL-
3	OPMENT PROGRAM.—In addition to the funds au-
4	thorized to be appropriated to carry out section
5	102(a)(5), there are authorized to be appropriated
6	to the Secretary to carry out section 102(b)—
7	(A) \$20,000,000 for fiscal year 2006;
8	(B) \$25,000,000 for fiscal year 2007;
9	(C) \$30,000,000 for fiscal year 2008;
10	(D) \$35,000,000 for fiscal year 2009; and
11	(E) \$40,000,000 for fiscal year 2010.
12	Subtitle B—Coal-Based Electric
13	Generation Deployment Program
14	SEC. 111. PURPOSE.
15	The purpose of this subtitle is to provide Federal fi-
16	nancial assistance for projects that will use integrated gas-
16 17	ification combined cycle or other advanced coal-based gen-
17	ification combined cycle or other advanced coal-based gen-
17 18	ification combined cycle or other advanced coal-based gen- eration technologies—
17 18 19	ification combined cycle or other advanced coal-based gen- eration technologies— (1) in new electric generating units;
17 18 19 20	 ification combined cycle or other advanced coal-based generation technologies— in new electric generating units; to repower existing electric generation units;
 17 18 19 20 21 	<pre>ification combined cycle or other advanced coal-based gen- eration technologies—</pre>
 17 18 19 20 21 22 	 ification combined cycle or other advanced coal-based generation technologies— in new electric generating units; to repower existing electric generation units; or to retrofit existing natural gas combined
 17 18 19 20 21 22 23 	 ification combined cycle or other advanced coal-based generation technologies— in new electric generating units; to repower existing electric generation units; or to retrofit existing natural gas combined cycle units to operate on coal instead of natural gas.

(1) ADVANCED COAL-BASED GENERATION
 TECHNOLOGY.—The term "advanced coal-based gen eration technology" means a technology that meets
 the requirements of section 116.

5 (2) CARBON CAPTURE CAPABILITY.—The term 6 "carbon capture capability" means an integrated 7 gasification combined cycle technology facility capa-8 ble of adding components that can capture, separate 9 on a long-term basis, isolate, remove, and sequester 10 greenhouse gases that result from the generation of 11 electricity.

12 (3) ELECTRIC GENERATION UNIT.—The term
13 "electric generation unit" means any facility at least
14 50 percent of the total annual net output of which
15 is electrical power, including an otherwise eligible fa16 cility that is used in an industrial application.

17 GASIFICATION (4)INTEGRATED COMBINED 18 CYCLE.—The term "integrated gasification combined 19 cycle" means an electric generation unit that pro-20 duces electricity by converting coal to synthesis gas 21 that is used to fuel a combined-cycle plant that pro-22 duces electricity from both a combustion turbine (in-23 cluding a combustion turbine/fuel cell hybrid) and a 24 steam turbine.

(5) QUALIFYING ADVANCED COAL PROJECT.—
 The term "qualifying advanced coal project" means
 a project that meets the requirements of section
 115.

5 SEC. 113. DEPLOYMENT INCENTIVE PROGRAM.

6 (a) ESTABLISHMENT.—Not later than 180 days after 7 the date of enactment of this Act, the Secretary shall 8 begin carrying out a program to provide Federal financial 9 incentives for deployment of advanced coal-based genera-10 tion technologies.

11 (b) CERTIFICATION.—

(1) IN GENERAL.—The Secretary may certify a
qualifying advanced coal project as eligible to receive
1 of the Federal financial incentives provided under
section 114.

16 (2) PERIOD OF ISSUANCE.—A certificate of eli17 gibility under this subsection may be issued only
18 during the 10 fiscal year period beginning on Octo19 ber 1, 2005.

20 (3) Aggregate generating capacity.—

21 (A) IN GENERAL.—The aggregate gener22 ating capacity of projects certified by the Sec23 retary under paragraph (1) may not exceed
24 10,000 megawatts.

1	(B) PARTICULAR PROJECTS.—Of the total
2	megawatts of capacity that the Secretary is au-
3	thorized to certify—
4	(i) 6,000 megawatts shall be available
5	only for use for integrated gasification
6	combined cycle projects; and
7	(ii) 4,000 megawatts shall be available
8	only for use for projects that use other ad-
9	vanced coal-based generation technologies.
10	(C) DETERMINATION OF CAPACITY.—In
11	determining capacity under this paragraph in
12	the case of a retrofitted or repowered plant, ca-
13	pacity shall be determined based on total design
14	capacity after the retrofit or repowering of the
15	existing facility is accomplished.
16	(4) Applications.—The Secretary shall act on
17	applications for certification as the applications are
18	received.
19	(5) Determination.—In determining whether
20	to certify a qualifying advanced coal project, the
21	Secretary shall take into account any written state-
22	ment from the Governor of the State in which the
23	project is to be sited that the construction and oper-
24	ation of the project is consistent with State environ-
25	mental and energy policy and requirements.

1	(6) Application requirement.—An applica-
2	tion for certification shall specify which of the incen-
3	tives under section 114 the project sponsor will elect.
4	(7) REVIEW AND REDISTRIBUTION.—
5	(A) REVIEW.—Not later than 6 years after
6	the date of enactment of this Act, the Secretary
7	shall review the projects certified and
8	megawatts allocated under this section as of the
9	date that is 6 years after the date of enactment
10	of this Act.
11	(B) REDISTRIBUTION.—The Secretary
12	may reallocate the megawatts available under
13	clauses (i) and (ii) of subsection $(b)(3)(B)$ if the
14	Secretary determines that—
15	(i) capacity cannot be used because
16	there is an insufficient quantity of quali-
17	fying applications for certification pending
18	for any available capacity at the time of
19	the review; or
20	(ii) any certification commitment
21	made pursuant to section $115(d)(2)$ has
22	not been revoked pursuant to section
23	115(d)(2)(B)(ii) because the project sub-
24	ject to the certification commitment has
25	been delayed as a result of third party op-

position or litigation to the proposed
 project.

3 SEC. 114. ELECTION OF FEDERAL FINANCIAL INCENTIVES.

4 (a) IN GENERAL.—The project sponsor of a quali5 fying advanced coal project certified under section 113(b)
6 may elect to receive the Federal financial incentives de7 scribed in either section 119 or 120.

8 (b) LIMITATION.—A project sponsor may not elect9 more than 1 section described in subsection (a).

10 SEC. 115. QUALIFYING ADVANCED COAL PROJECTS.

11 (a) REQUIREMENTS.—For the purpose of section 12 113(b), a project shall be considered a qualifying advanced 13 coal project that the Secretary may certify under section 14 113(b) if the Secretary determines that, at a minimum— 15 (1) the project uses an advanced coal-based 16 generation technology— 17 (A) to power a new electric generation or 18 polygeneration unit; or 19 (B) to retrofit or repower an existing elec-20 tric generation unit (including an existing nat-21 ural gas-fired combined cycle unit); 22 (2) the fuel input for the project, when com-23 pleted, is at least 75 percent coal; 24 (3) the applicant provides an assurance satis-25 factory to the Secretary that—

1	(A) the project is technologically feasible;
2	and
3	(B) the project is not financially feasible
4	without the Federal financial incentives, after
5	taking into account—
6	(i) regulatory approvals or power pur-
7	chase contracts referred to in paragraph
8	(4);
9	(ii) arrangements for the supply of
10	fuel to the project;
11	(iii) contracts or other arrangements
12	for construction of the project facilities;
13	(iv) any performance guarantees to be
14	provided by contractors and equipment
15	vendors; and
16	(v) evidence of the availability of
17	funds to develop and construct the project;
18	(4) the applicant demonstrates that the appli-
19	cant has obtained—
20	(A) approval by the appropriate regulatory
21	commission of the recovery of the cost of the
22	project; or
23	(B) a power purchase agreement (or letter
24	of intent, subject to subsection (c)) that has

1	been approved by the board of directors of, and
2	executed by, a creditworthy purchasing party;
3	(5) except as provided in subsection (d), the ap-
4	plicant demonstrates that the applicant has, or will,
5	obtain all project agreements and approvals; and
6	(6) the project will be operated in the United
7	States using United States coal.
8	(b) Priority for Integrated Gasification Com-
9	BINES CYCLE PROJECTS.—In determining which quali-
10	fying advanced coal projects to certify under section
11	113(b)(3)(B)(i), the Secretary shall give high priority to
12	projects that include, as determined by the Secretary—
13	(1) carbon capture capability;
14	(2) increased by-product utilization; and
15	(3) other benefits.
15 16	(3) other benefits.(c) LETTER OF INTENT.—A letter of intent described
16	(c) LETTER OF INTENT.—A letter of intent described
16 17	(c) LETTER OF INTENT.—A letter of intent described in subsection (a)(4)(B) shall be replaced by a binding con-
16 17 18	(c) LETTER OF INTENT.—A letter of intent described in subsection (a)(4)(B) shall be replaced by a binding con- tract before a certificate may be issued.
16 17 18 19	 (c) LETTER OF INTENT.—A letter of intent described in subsection (a)(4)(B) shall be replaced by a binding contract before a certificate may be issued. (d) PROJECT AGREEMENTS AND APPROVALS.—
16 17 18 19 20	 (c) LETTER OF INTENT.—A letter of intent described in subsection (a)(4)(B) shall be replaced by a binding contract before a certificate may be issued. (d) PROJECT AGREEMENTS AND APPROVALS.— (1) DEFINITION OF PROJECT AGREEMENTS AND
 16 17 18 19 20 21 	 (c) LETTER OF INTENT.—A letter of intent described in subsection (a)(4)(B) shall be replaced by a binding contract before a certificate may be issued. (d) PROJECT AGREEMENTS AND APPROVALS.— (1) DEFINITION OF PROJECT AGREEMENTS AND APPROVALS.—In this section, the term "project

1	retary determines are necessary to construct, fi-
2	nance, and operate a project; and
3	(B) all authorizations by Federal, State,
4	and local agencies that are required to con-
5	struct, operate, and recover the cost of the
6	project.
7	(2) Certification commitment.—
8	(A) IN GENERAL.—If the applicant has not
9	obtained all agreements and approvals prior to
10	application, the Secretary may issue a certifi-
11	cation commitment.
12	(B) REQUIREMENTS.—
13	(i) IN GENERAL.—An applicant that
14	receives a certification commitment shall
15	obtain any remaining project agreements
16	and approvals not later than 4 years after
17	the issuance of the certification commit-
18	ment.
19	(ii) REVOCATION. —If all project
20	agreements and approvals are not obtained
21	during the 4-year period described in
22	clause (i), the certification commitment is
23	terminated without any other action by the
24	Secretary.

	20
1	(iii) FINAL CERTIFICATE.—No certifi-
2	cate may be issued until all project agree-
3	ments and approvals are obtained.
4	SEC. 116. ADVANCED COAL-BASED GENERATION TECH-
5	NOLOGY.
6	(a) IN GENERAL.—For the purpose of this subtitle,
7	an electric generation unit uses advanced coal-based gen-
8	eration technology if—
9	(1) the unit—
10	(A) uses integrated gasification combined
11	cycle technology; or
12	(B) has a design net heat rate of 8530
13	Btu/kWh (40 percent efficiency); and
14	(2) the vendor warrants that the unit is de-
15	signed to meet the performance requirements in the
16	following table:
	Performance characteristic:Design level for project:SO2 (percent removal)99 percentNOx (emissions)0.07 lbs/MMBTUPM* (emissions)0.015 lbs/MMBTUHg (percent removal)90 percent
17	(b) Design Net Heat Rate.—For purposes of this
18	section, design net heat rate with respect to an electric
19	generation unit shall—
20	(1) be measured in Btu per kilowatt hour (high-
21	er heating value);

1	(2) be based on the design annual heat input to
2	the unit and the rated net electrical power, fuels,
3	and chemicals output of the unit (determined with-
4	out regard to the cogeneration of steam by the unit);
5	(3) be adjusted for the heat content of the de-
6	sign coal to be used by the unit—
7	(A) if the heat content is less than 13,500
8	Btu per pound, but greater than 7,000 Btu per
9	pound, according to the following formula: de-
10	sign net heat rate = unit net heat rate x $[1-$
11	$\{((13,500\text{-design coal heat content, Btu per})$
12	pound)/1,000)* 0.013}]; and
13	(B) if the heat content is less than or
14	equal to 7,000 Btu per pound, according to the
15	following formula: design net heat rate $=$ unit
16	net heat rate x $[1-\{((13,500\text{-design coal heat}))$
17	content, Btu per pound)/1,000)* $0.018\}];$ and
18	(4) be corrected for the site reference conditions
19	of—
20	(A) elevation above sea level of 500 feet;
21	(B) air pressure of 14.4 pounds per square
22	inch absolute;
23	(C) temperature, dry bulb of 63°F;
24	(D) temperature, wet bulb of 54°F; and
25	(E) relative humidity of 55 percent.

1 SEC. 117. FEDERAL PROJECT COORDINATOR.

2 The Secretary shall designate a Federal project coor3 dinator to facilitate any Federal agency approvals of eligi4 ble advanced coal-generation projects.

5 SEC. 118. APPLICABILITY.

6 No technology, or level of emission reduction, solely 7 by reason of the use of the technology, or the achievement 8 of the emission reduction by the demonstration of any 9 technology or performance level by 1 or more facilities re-10 ceiving assistance under this subtitle, shall be considered 11 to indicate that the technology or performance level is—

(1) adequately demonstrated for purposes of
section 111 of the Clean Air Act (42 U.S. C. 7411);

14 (2) achievable for purposes of section 169 of
15 that Act (42 U.S. C. 7479); or

16 (3) achievable in practice for purposes of sec17 tion 171 of that Act (42 U.S. C. 7501).

18 SEC. 119. INVESTMENT TAX CREDIT AND SHORTENED RE-

19 COVERY PERIOD.

20 (a) IN GENERAL.—Section 48(a)(3)(A) of the Inter21 nal Revenue Code of 1986 (relating to energy property)
22 is amended—

(1) by striking "or" at the end of clause (i),
(2) by inserting "or" at the end of clause (ii),
and

1 (3) by adding at the end the following new 2 clause:

3

"(iii) certified coal property,".

4 (b) CREDIT RATE.—Section 48(a)(2)(A) of such
5 Code (relating to energy percentage) is amended by strik6 ing "10 percent" and inserting "10 percent for energy
7 property other than certified coal property, and 20 percent
8 for certified coal property".

9 (c) DEFINITION.—Section 48 of such Code (relating
10 to energy credit) is amended by adding at the end the fol11 lowing new subsection:

12 "(c) CERTIFIED COAL PROPERTY.—For purposes of this section, the term 'certified coal property' means any 13 property that is part of a qualifying advanced coal project 14 15 that the Secretary of Energy has certified under section 113(b) of the Clean Coal Research, Development, Dem-16 17 onstration, and Deployment Act of 2005, if the project sponsor has elected the application of this section for such 18 project under section 114(a) of such Act.". 19

20 SEC. 120. CREDIT TO HOLDERS OF CLEAN ENERGY BONDS.

(a) IN GENERAL.—Part IV of subchapter A of chapter 1 of the Internal Revenue Code of 1986 (relating to
credits against tax) is amended by adding at the end the
following new subpart:

Subpart H—Nonrefundable Credit to Holders of
 Clean Energy Bonds

"Sec. 54. Credit to holders of clean energy bonds.

3 "SEC. 54. CREDIT TO HOLDERS OF CLEAN ENERGY BONDS.

"(a) ALLOWANCE OF CREDIT.—In the case of a tax-4 payer who holds a clean energy bond on a credit allowance 5 date of such bond, which occurs during the taxable year, 6 7 there shall be allowed as a credit against the tax imposed 8 by this chapter for such taxable year an amount equal to 9 the sum of the credits determined under subsection (b) 10 with respect to credit allowance dates during such year on which the taxpayer holds such bond. 11

- 12 "(b) Amount of Credit.—
- "(1) IN GENERAL.—The amount of the credit
 determined under this subsection with respect to any
 credit allowance date for a clean energy bond is 25
 percent of the annual credit determined with respect
 to such bond.
- 18 "(2) ANNUAL CREDIT.—The annual credit de19 termined with respect to any clean energy bond is
 20 the product of—

21 "(A) the credit rate determined by the Sec22 retary under paragraph (3) for the day on
23 which such bond was sold, multiplied by

24 "(B) the outstanding face amount of the25 bond.

1 "(3) Determination.—For purposes of para-2 graph (2), with respect to any clean energy bond, 3 the Secretary shall determine daily or caused to be 4 determined daily a credit rate which shall apply to 5 the first day on which there is a binding, written 6 contract for the sale or exchange of the bond. The 7 credit rate for any day is the credit rate which the 8 Secretary or the Secretary's designee estimates will 9 permit the issuance of clean energy bonds with a 10 specified maturity or redemption date without dis-11 count and without interest cost to the qualified 12 issuer. 13 "(4) CREDIT ALLOWANCE DATE.—For purposes 14 of this section, the term 'credit allowance date' 15 means-"(A) March 15, 16 "(B) June 15, 17 18 "(C) September 15, and "(D) December 15. 19 20 Such term also includes the last day on which the 21 bond is outstanding. "(5) Special rule for issuance and re-22 23 DEMPTION.—In the case of a bond which is issued 24 during the 3-month period ending on a credit allow-25 ance date, the amount of the credit determined

1	under this subsection with respect to such credit al-
2	lowance date shall be a ratable portion of the credit
3	otherwise determined based on the portion of the 3-
4	month period during which the bond is outstanding.
5	A similar rule shall apply when the bond is redeemed
6	or matures.
7	"(c) Limitation Based on Amount of Tax.—
8	"(1) IN GENERAL.—The credit allowed under
9	subsection (a) for any taxable year shall not exceed
10	the excess of—
11	"(A) the sum of the regular tax liability
12	(as defined in section 26(b)) plus the tax im-
13	posed by section 55, over
14	"(B) the sum of the credits allowable
15	under this part (other than subpart C thereof,
16	relating to refundable credits).
17	"(2) CARRYOVER OF UNUSED CREDIT.—If the
18	credit allowable under subsection (a) exceeds the
19	limitation imposed by paragraph (1) for such taxable
20	year, the difference shall be carried to the suc-
21	ceeding taxable year and added to the credit allow-
22	able under subsection (a) for such taxable year.
23	"(d) CLEAN ENERGY BOND.—For purposes of this
24	section—

1	"(1) IN GENERAL.—The term 'clean energy
2	bond' means any bond issued as part of an issue
3	if—
4	"(A) the bond is issued by a qualified
5	issuer,
6	"(B) 95 percent or more of the proceeds
7	from the sale of such issue are to be used for
8	capital expenditures incurred by qualified bor-
9	rowers for 1 or more qualified projects,
10	"(C) the qualified issuer designates such
11	bond for purposes of this section and the bond
12	is in registered form, and
13	"(D) the issue meets the requirements of
14	subsections (e), (g), and (h).
15	"(2) QUALIFIED PROJECT; SPECIAL USE
16	RULES.—
17	"(A) IN GENERAL.—The term 'qualified
18	project' means a certified coal property (as de-
19	fined in section $48(c)(1)$ placed in service by a
20	qualified borrower.
21	"(B) Refinancing Rules.—For purposes
22	of paragraph (1)(B), a qualified project may be
23	refinanced with proceeds of a clean energy bond
24	only if the indebtedness being refinanced (in-
25	cluding any obligation directly or indirectly refi-
nanced by such indebtedness) was originally in-	
--	
curred by a qualified borrower after the date of	
the enactment of this section.	

4 "(C) Reimbursement.—For purposes of paragraph (1)(B), a clean energy bond may be 5 6 issued to reimburse a qualified borrower for 7 amounts paid after the date of the enactment of this section with respect to a qualified 8 9 project, but only if prior to the payment of such 10 expenditure, the qualified borrower declared its 11 intent to reimburse such expenditure with the 12 proceeds of a clean energy bond.

13 "(D) TREATMENT OF CHANGES IN USE.— 14 For purposes of paragraph (1)(B), the proceeds 15 of an issue shall not be treated as used for a 16 qualified project to the extent that a qualified 17 borrower takes any action within its control 18 which causes such proceeds not to be used for 19 a qualified project. The Secretary shall pre-20 scribe regulations specifying remedial actions 21 that may be taken (including conditions to tak-22 ing such remedial actions) to prevent an action 23 described in the preceding sentence from caus-24 ing a bond to fail to be a clean energy bond. "(e) MATURITY LIMITATIONS.— 25

1

2

1	"(1) DURATION OF TERM.—A bond shall not be
2	treated as a clean energy bond if such bond is issued
3	as part of an issue and—
4	"(A) the average maturity of bonds issued
5	as a part of such issue, exceeds
6	"(B) 120 percent of the average reasonable
7	expected economic life of the facilities being fi-
8	nanced with the proceeds from the sale of such
9	issue.
10	"(2) Determination of averages.—For pur-
11	poses of paragraph (1), the determination of aver-
12	ages of an issue and economic life of any facility
13	shall be determined in accordance with section
14	147(b).
15	"(3) RATABLE PRINCIPAL AMORTIZATION RE-
16	QUIRED.—A bond shall not be treated as a clean en-
17	ergy bond unless it is part of an issue which pro-
18	vides for an equal amount of principal to be paid by
19	the qualified issuer during each calendar year that
20	the issue is outstanding.
21	"(f) Credit Included in Gross Income.—Gross
22	income includes the amount of the credit allowed to the
23	taxpayer under this section (determined without regard to
24	subsection (c)) and the amount so included shall be treat-
25	ed as interest income.

RELATING TO EXPENDI-

"(g) Special Rules

1

2	TURES.—
3	"(1) IN GENERAL.—An issue shall be treated as
4	meeting the requirements of this subsection if, as of
5	the date of issuance, the qualified issuer reasonably
6	expects—
7	"(A) at least 95 percent of the proceeds
8	from the sale of the issue are to be spent for
9	1 or more qualified projects within the 5-year
10	period beginning on such date,
11	"(B) a binding commitment with a third
12	party to spend at least 10 percent of the pro-
13	ceeds from the sale of the issue will be incurred
14	within the 6-month period beginning on the
15	date of issuance of the clean energy bond or, in
16	the case of a clean energy bond, the proceeds
17	of which are to be loaned to 2 or more qualified
18	borrowers, such binding commitment will be in-
19	curred within the 6-month period beginning on

20 the date of the loan of such proceeds to a qualified borrower, and "(C) such projects will be completed with 22

23 due diligence and the proceeds from the sale of 24 the issue will be spent with due diligence.

curred within the 6-month period beginning on

"(2) EXTENSION OF PERIOD.—Upon submission of a request prior to the expiration of the period
described in paragraph (1)(A), the Secretary may
extend such period if the qualified issuer establishes
that the failure to satisfy the 5-year requirement is
due to reasonable cause and the related projects will
continue to proceed with due diligence.

8 "(3) FAILURE TO SPEND REQUIRED AMOUNT 9 OF BOND PROCEEDS WITHIN 5 YEARS.—To the ex-10 tent that less than 95 percent of the proceeds of 11 such issue are expended within such 5-year period 12 (and no extension has been obtained under para-13 graph (2)), the qualified issuer shall redeem all of 14 the nonqualified bonds on the earliest call date sub-15 sequent to the expiration of the 5-year period. If 16 such earliest call date is more than 90 days subse-17 quent to the expiration of the 5-year period, the 18 qualified issuer shall establish a yield-restricted de-19 feasance escrow within such 90 days to retire such 20 nonqualified bonds on the earlier of the date which 21 is 10 years after the issue date or the first call date. 22 For purposes of this paragraph, the term 'non-23 qualified bonds' means the portion of the out-24 standing bonds in an amount that, if the remaining 25 bonds were issued on the fifth anniversary of the

4 "(h) Special Rules Relating to Arbitrage.— "(1) IN GENERAL.—A bond which is part of an 5 6 issue shall not be treated as a clean energy bond un-7 less, with respect to the issue of which the bond is 8 a part, the issuer satisfies the arbitrage rebate re-9 quirements of section 148 with respect to gross pro-10 ceeds of the issue (other than any amounts applied 11 in accordance with subsection (g)). For purposes of 12 such requirements, yield over the term of an issue 13 shall be determined under the principles of section 14 148 based on the qualified issuer's payments of 15 principal, interest (if any), and fees for guarantees 16 on such issue.

17 "(2) EXCEPTION.—Amounts on deposit in a
18 bona fide debt service fund with regard to any clean
19 energy bond are not subject to the arbitrage rebate
20 requirements of section 148.

21 "(i) COOPERATIVE ELECTRIC COMPANY; CLEAN EN22 ERGY BOND LENDER; GOVERNMENTAL BODY; QUALIFIED
23 BORROWER.—For purposes of this section—

24 "(1) COOPERATIVE ELECTRIC COMPANY.—The
25 term 'cooperative electric company' means a mutual

1	or cooperative electric company described in section
2	501(c)(12) or section $1381(a)(2)(C)$, or a not-for-
3	profit electric utility which has received a loan or
4	loan guarantee under the Rural Electrification Act.
5	"(2) CLEAN ENERGY BOND LENDER.—The
6	term 'clean energy bond lender' means a lender
7	which is a cooperative which is owned by, or has out-
8	standing loans to, 100 or more cooperative electric
9	companies and is in existence on February 1, 2002,
10	and shall include any affiliated entity which is con-
11	trolled by such lender.
12	"(3) GOVERNMENTAL BODY.—The term 'gov-
13	ernmental body' means any State, territory, posses-
14	sion of the United States, the District of Columbia,
15	Indian tribal government, and any political subdivi-
16	sion thereof.
17	"(4) QUALIFIED ISSUER.—The term 'qualified
18	issuer' means—
19	"(A) a clean energy bond lender,
20	"(B) a cooperative electric company,
21	"(C) a governmental body, or
22	"(D) the Tennessee Valley Authority.
23	"(5) QUALIFIED BORROWER.—The term 'quali-
24	fied borrower' means—
25	"(A) a cooperative electric company,

"(B) a governmental body, or 1 2 "(C) the Tennessee Valley Authority. 3 "(j) POOL BONDS.—The portion of a clean energy 4 bond issue allocable to each loan, if any, shall be deemed 5 to be (and treated as) a separate issue of clean energy bonds and the failure of any such deemed separate clean 6 7 energy bond issue to satisfy the requirements set forth 8 under this section shall not affect the qualification of any 9 other deemed separate clean energy bond issue.

10 "(k) OTHER DEFINITIONS AND SPECIAL RULES.—
11 For purposes of this section—

12 "(1) BOND.—The term 'bond' includes any ob-13 ligation.

"(2) PARTNERSHIP; S CORPORATION; AND
OTHER PASS-THRU ENTITIES.—Under regulations
prescribed by the Secretary, in the case of a partnership, trust, S corporation, or other pass-thru entity,
rules similar to the rules of section 41(g) shall apply
with respect to the credit allowable under subsection
(a).

21 "(3) BONDS HELD BY REGULATED INVEST22 MENT COMPANIES.—If any clean energy bond is held
23 by a regulated investment company, the credit deter24 mined under subsection (a) shall be allowed to

shareholders of such company under procedures pre scribed by the Secretary.

3 "(4) TREATMENT FOR ESTIMATED TAX PUR4 POSES.—Solely for purposes of sections 6654 and
5 6655, the credit allowed by this section to a tax6 payer by reason of holding a clean energy bond on
7 a credit allowance date shall be treated as if it were
8 a payment of estimated tax made by the taxpayer on
9 such date.

10 "(5) REPORTING.—Issuers of clean energy
11 bonds shall submit reports similar to the reports re12 quired under section 149(e).

13 "(l) TERMINATION.—This section shall not apply
14 with respect to any bond issued after December 31,
15 2008.".

(b) REPORTING.—Subsection (d) of section 6049 of
the Internal Revenue Code of 1986 (relating to returns
regarding payments of interest) is amended by adding at
the end the following new paragraph:

20 "(8) REPORTING OF CREDIT ON CLEAN ENERGY
21 BONDS.—

"(A) IN GENERAL.—For purposes of subsection (a), the term 'interest' includes amounts
includible in gross income under section 54(f)
and such amounts shall be treated as paid on

the credit allowance date (as defined in section 54(b)(4)).

3	"(B) REPORTING TO CORPORATIONS,
4	ETC.—Except as otherwise provided in regula-
5	tions, in the case of any interest described in
6	subparagraph (A), subsection $(b)(4)$ shall be
7	applied without regard to subparagraphs (A),
8	(H), (I), (J), (K), and (L)(i) of such subsection.
9	"(C) REGULATORY AUTHORITY.—The Sec-
10	retary may prescribe such regulations as are
11	necessary or appropriate to carry out the pur-
12	poses of this paragraph, including regulations
13	which require more frequent or more detailed
14	reporting.".
15	(c) Clerical Amendments.—
15 16	(c) CLERICAL AMENDMENTS.—(1) The table of subparts for part IV of sub-
16	(1) The table of subparts for part IV of sub-
16 17	(1) The table of subparts for part IV of sub- chapter A of chapter 1 of the Internal Revenue Code
16 17 18	(1) The table of subparts for part IV of sub- chapter A of chapter 1 of the Internal Revenue Code of 1986 is amended by adding at the end the fol-
16 17 18	 (1) The table of subparts for part IV of sub- chapter A of chapter 1 of the Internal Revenue Code of 1986 is amended by adding at the end the fol- lowing new item: "SUBPART H. NONREFUNDABLE CREDIT TO HOLDERS OF CLEAN ENERGY
16 17 18 19	 (1) The table of subparts for part IV of sub- chapter A of chapter 1 of the Internal Revenue Code of 1986 is amended by adding at the end the fol- lowing new item: "subpart H. NONREFUNDABLE CREDIT TO HOLDERS OF CLEAN ENERGY BONDS.".
16 17 18 19 20	 (1) The table of subparts for part IV of subchapter A of chapter 1 of the Internal Revenue Code of 1986 is amended by adding at the end the following new item: "SUBPART H. NONREFUNDABLE CREDIT TO HOLDERS OF CLEAN ENERGY BONDS.". (2) Section 6401(b)(1) of such Code is amend-
 16 17 18 19 20 21 	 (1) The table of subparts for part IV of subchapter A of chapter 1 of the Internal Revenue Code of 1986 is amended by adding at the end the following new item: "SUBPART H. NONREFUNDABLE CREDIT TO HOLDERS OF CLEAN ENERGY BONDS.". (2) Section 6401(b)(1) of such Code is amended by striking "and G" and inserting "G, and H".

1

section) not later than 120 days after the date of the en actment of this Act.

3 TITLE II—INDUSTRIAL 4 GASIFICATION INITIATIVE

5 SEC. 201. FINDINGS AND PURPOSE.

6 (a) FINDINGS.—Congress finds that widespread do-7 mestic use of gasification technologies can make signifi-8 cant contributions to the economy, environmental 9 beneficiation, and the general welfare of the citizens of the 10 United States.

(b) PURPOSE.—The purpose of the industrial gasification research, development, and demonstration program
shall be to support a significant acceleration of gasification technology deployment in industrial applications
to—

(1) reduce the demand pressure on domestic
natural gas prices and supply for all consumers by
promoting the use of synthesis gas derived from domestic coal, biomass, petroleum residues, and other
domestic fuel sources for industrial use;

(2) promote the use of those fuel sources in anenvironmentally benign manner;

23 (3) preserve domestic jobs;

24 (4) reduce the deficit of the United States as of25 the date of enactment of this Act;

(5) reduce imports of energy from foreign
 sources;

3 (6) avoid dependence on remote foreign sources
4 for chemicals, ammonia-based fertilizers, and other
5 strategic products for which natural gas has tradi6 tionally been a significant component in the manu7 facturing process;

8 (7) promote the position of the United States
9 as a global leader in advanced gasification tech10 nology development and sales of related products;

(8) promote the potential for future use or sequestration of industrial carbon emissions in an efficient manner;

(9) provide coordination within the Department
for research, development, and demonstration of industrial gasification technologies using a diverse fuel
mix; and

(10) support the deployment of industrial gasification technologies that will produce or displace,
by 2020, the equivalent of 1.5 trillion cubic feet of
natural gas annually.

22 SEC. 202. DEFINITIONS.

23 In this title:

24 (1) BIOMASS.—

1	(A) IN GENERAL.—The term "biomass"
2	means—
3	(i) any agricultural or plant waste;
4	(ii) byproduct of wood or paper mill
5	operations, including lignin in spent
6	pulping liquors; and
7	(iii) other products of forestry mainte-
8	nance.
9	(B) EXCLUSION.—The term "biomass"
10	does not include paper that is commonly recy-
11	cled.
12	(2) CARBON CAPTURE CAPABILITY.—The term
13	"carbon capture capability" means an industrial gas-
14	ification plant design that is determined by the Sec-
15	retary to reflect reasonable consideration for, and be
16	capable of, accommodating the equipment likely to
17	be necessary to capture carbon dioxide from the gas-
18	eous stream, for later use or sequestration, that
19	would otherwise be emitted in the flue gas from a
20	project that uses a nonrenewable fuel.
21	(3) COAL.—The term "coal" means any carbon-
22	ized or semicarbonized matter, including peat.
23	(4) COPRODUCED POWER.—The term "copro-
24	duced power" means heat, steam, or electricity de-
25	rived from a plant or plant product.

1	(5) ELIGIBLE ENTITY.—The term "eligible enti-
2	ty" means any person whose application for Federal
3	assistance under subtitle A, or whose application for
4	certification under subtitle B, is principally intended
5	for use in a domestic project that employs domestic
6	gasification applications related to—
7	(A) chemicals;
8	(B) fertilizers;
9	(C) glass;
10	(D) steel;
11	(E) petroleum residues;
12	(F) forest products; and
13	(G) agriculture, including feedlots and
14	dairy operations.
15	(6) GASIFICATION TECHNOLOGY.—The term
16	"gasification technology" means any process that
17	converts a solid or liquid product from coal, petro-
18	leum residue, biomass, or other materials that are
19	recovered for their energy or feedstock value into a
20	synthesis gas composed primarily of carbon mon-
21	oxide and hydrogen for direct use or subsequent
22	chemical or physical conversion.
23	(7) INDUSTRIAL GASIFICATION PROJECT.—The
24	term "industrial gasification project" means any
25	project that—

1	(A) employs gasification technology; and
2	(B) will be carried out by an eligible entity.
3	(8) Petroleum residue.—The term "petro-
4	leum residue" means the carbonized product of high-
5	boiling hydrocarbon fractions obtained in petroleum
6	processing.
7	(9) TOTAL PLANT INVESTMENT.—The term
8	"total plant investment" means the total project cost

6 total plant investment means the total project cost
9 for engineering, design, procurement, construction,
10 project development and financing, and reasonable
11 contingency reserves as agreed upon by the Sec12 retary and the project sponsor.

13 Subtitle A—Industrial Gasification 14 Research, Development, and

15 **Demonstration Program**

16 SEC. 211. ESTABLISHMENT.

(a) IN GENERAL.—The Secretary shall establish an
industrial gasification technology research, development,
and demonstration program to facilitate production of
synthesis gas, chemical feedstocks, ammonia-based fertilizers, or liquid transportation fuels and generation of
coproduced power, through methods and equipment
under—

24 (1) this subtitle;

1	(2) the Federal Nonnuclear Energy Research
2	and Development Act of 1974 (42 U.S.C. 5901 et
3	seq.);
4	(3) the Energy Reorganization Act of 1974 (42
5	U.S.C. 5801 et seq.); and
6	(4) title XVI of the Energy Policy Act of 1992
7	(42 U.S.C. 13381 et seq.).
8	(b) CONDITIONS.—The program described in sub-
9	section (a) shall be designed to achieve the cost and per-
10	formance goals established under section 212.
11	(c) Office of Industrial Gasification Coordi-
12	NATION.—The Secretary shall establish an Office of In-
13	dustrial Gasification Coordination that shall—
14	(1) report directly to the Secretary;
15	(2) analyze the strategic and economic con-
16	sequences of natural gas dependency in the indus-
17	trial and agricultural sectors;
18	(3) prepare biannual plans for the development
19	and deployment of industrial gasification tech-
20	nologies that may be capable of reducing this de-
21	pendence in a manner that is cost-effective for the
22	United States as a whole;
23	(4) not later than 180 days after the date of
24	enactment of this Act and thereafter not later than
25	the first day of March every 2 years through 2016,

1	in coordination with the study under section 213,
2	submit the biannual plan to—
3	(A) the Committee on Energy and Com-
4	merce of the House of Representatives;
5	(B) the Committee on Energy and Natural
6	Resources of the Senate; and
7	(C) the Committees on Appropriations;
8	and
9	(5) make recommendations to the Secretary to
10	coordinate gasification research and associated ex-
11	penditures among the several relevant programs of
12	the Department.
13	SEC. 212. COST AND PERFORMANCE GOALS.
15	
14	(a) IN GENERAL.—The Secretary shall perform an
14	(a) IN GENERAL.—The Secretary shall perform an
14 15 16	(a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of
14 15 16	(a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of
14 15 16 17	(a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of which would permit the continued cost-competitive gasifi-
14 15 16 17 18	(a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of which would permit the continued cost-competitive gasification of the fuels identified in section 202(6) to—
14 15 16 17 18 19	 (a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of which would permit the continued cost-competitive gasification of the fuels identified in section 202(6) to— (1) produce chemical feedstocks or ammonia-
14 15 16 17 18 19 20	 (a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of which would permit the continued cost-competitive gasification of the fuels identified in section 202(6) to— (1) produce chemical feedstocks or ammoniabased fertilizers;
14 15 16 17 18 19 20 21	 (a) IN GENERAL.—The Secretary shall perform an assessment that identifies cost and performance goals of industrial gasification technologies the deployment of which would permit the continued cost-competitive gasification of the fuels identified in section 202(6) to— (1) produce chemical feedstocks or ammoniabased fertilizers; (2) produce liquid transportation fuels; and

1	(1) consider activities and studies undertaken
2	to date by industry in cooperation with the Depart-
3	ment in support of the assessment described in sub-
4	section (a);
5	(2) consult with interested entities, including—
6	(A) coal producers;
7	(B) industries using the fuels identified in
8	section $202(6)$;
9	(C) organizations that promote fuels iden-
10	tified in section 202(6) and advanced gasifi-
11	cation technologies that use those fuels;
12	(D) environmental organizations;
13	(E) organizations representing workers;
14	(F) organizations representing consumers;
15	and
16	(3) consult with the Administrator of the Envi-
17	ronmental Protection Agency and the Secretary of
18	Agriculture.
19	(c) TIMING.—The Secretary shall—
20	(1) not later than 120 days after the date of
21	enactment of this Act, issue a set of draft cost and
22	performance goals for public comment; and
23	(2) not later than 180 days after the date of
24	enactment of this Act, after taking into consider-
25	ation any public comments received, submit to Con-

gress a description of the final cost and performance
 goals.

3 SEC. 213. STUDY.

4 (a) IN GENERAL.—Not later than 1 year after the 5 date of enactment of this Act, and once every 2 years 6 thereafter through 2016, the Secretary, in cooperation 7 with other appropriate Federal agencies, shall conduct a 8 study to—

9 (1) identify industrial gasification technologies
10 that, alone or in combination with other tech11 nologies, may be capable of achieving the cost and
12 performance goals;

(2) assess the costs that would be incurred by,
and the period of time that would be required for,
the development and demonstration of industrial
gasification technologies that, alone or in combination with other technologies, contribute to the
achievement of the cost and performance goals;

(3) develop recommendations for industrial gasification technology development programs that the
Department could carry out in cooperation with industry, to develop, demonstrate, and deploy technologies that, alone or in combination with other
technologies, achieve the cost and performance goals;
and

1 (4) develop recommendations for additional au-2 thorities required to achieve the industrial gasifi-3 cation cost and performance goals, and review and 4 recommend changes, if any, to those cost and per-5 formance goals if the Secretary determines that the 6 changes are necessary as a result of ongoing re-7 search, development, demonstration, and deployment 8 of technologies. 9

9 (b) COOPERATION.—In carrying out this section, the 10 Secretary shall give due weight to the expert advice of rep-11 resentatives of the entities described in section 212(b)(2).

12 SEC. 214. AUTHORIZATION OF APPROPRIATIONS.

13 (a) AUTHORIZATION.—

(1) IN GENERAL.—There are authorized to be
appropriated to the Secretary to carry out activities
described in paragraph (2), to remain available until
expended—

18 (A) \$80,000,000 for fiscal year 2006;
19 (B) \$100,000,000 for fiscal year 2007;

20 (C) \$150,000,000 for fiscal year 2008;

21 (D) \$160,000,000 for fiscal year 2009; 22 and

(E) \$120,000,000 for fiscal year 2010.
(2) ACTIVITIES.—Activities covered by paragraph (1) are industrial gasification and related

1	technologies research, development, and demonstra-
2	tion programs, including—
3	(A) innovations for existing plants;
4	(B) industrial-scale turbines (less than
5	50MW) for synthesis gas derived from the fuels
6	identified in section $202(6)$;
7	(C) synthesis gas, chemicals feedstocks,
8	ammonia-based fertilizers, and transportation
9	liquid fuels derived from the fuels identified in
10	section $202(6)$; and
11	(D) collection and gasification of biomass.
12	(b) Limit on Use of Funds.—
13	(1) IN GENERAL.—Before the use of funds au-
14	thorized by subsection (a), the Secretary shall sub-
15	mit to Congress a report that—
16	(A) describes the proposed use of funds;
17	and
18	(B) contains a plan that includes—
19	(i) a detailed description of how any
20	proposals will be solicited and evaluated,
21	including a list of all activities expected to
22	be undertaken;
23	(ii) a detailed list of technical mile-
24	stones for each fuel application and related
25	technology that will be pursued; and

(iii) a description of how the programs
authorized by this section will be carried
out so as to complement and not duplicate
activities authorized under—
(I) the Industries of the Future
Program;
(II) the Biomass Program;
(III) the Clean Coal Power Ini-
tiative; and
(IV) other programs and authori-
ties being carried out by the Sec-
retary.
(2) WAITING PERIOD.—The Secretary may not
use any funds authorized by subsection (a) before
the date that is 30 days after the date of receipt by
Congress of the report required by paragraph (1).
Subtitle B—Industrial Gasification
Deployment Program
SEC. 221. ESTABLISHMENT OF CERTIFICATION PROGRAM.
(a) IN GENERAL.—The Secretary shall establish a
competitive program to consider and award certifications
competitive program to consider and award certifications

(1) IN GENERAL.—Not later than 270 days 1 2 after the date of enactment of this Act, and every 3 2 years thereafter through 2016, the Secretary, in 4 consultation with the Secretary of the Treasury and 5 the Secretary of Agriculture, shall carry out a com-6 petitive solicitation for the award of certifications 7 that entitle the recipients to specific investment and 8 production tax credits associated with the year of 9 certification as described in section 45J of the Inter-10 nal Revenue Code of 1986 (as added by section 11 222(a)).

12 (2) Competitive certification process.— 13 Notwithstanding the limitations imposed in section 14 45J of the Internal Revenue Code of 1986 (as added 15 by section 222(a)), the Secretary may during a bian-16 nual competitive certification process deem that a 17 certification award be considered as having been 18 awarded up to 4 years earlier than the actual date 19 of certification for not more than 2 projects that the 20 Secretary determines use a technology that has not 21 previously been deployed.

(c) APPLICATIONS LIMITED TO ELIGIBLE ENTITIES.—A project sponsor shall be eligible to compete for
the tax credit certifications awarded competitively by the
Secretary under subsection (a) only if—

1	(1) the project sponsor is an eligible entity; and
2	(2) the project of the project sponsor advances
3	the purposes described in section 201.
4	(d) Selection Criteria.—The Secretary shall not
5	make a competitive certification award for production tax
6	credit eligibility unless the recipient has documented to the
7	satisfaction of the Secretary that—
8	(1) the award recipient is financially viable
9	without the receipt of additional Federal funding as-
10	sociated with the proposed project;
11	(2) the recipient will provide sufficient informa-
12	tion to the Secretary for the Secretary to ensure
13	that the award funds are spent efficiently and effec-
14	tively;
15	(3) a market exists for the products of the pro-
16	posed deployment project as evidenced by contracts
17	or written statements of intent from potential cus-
18	tomers;
19	(4) the fuels identified in section $202(6)$ will
20	comprise at least 90 percent of the fuels required by
21	the project for the production of chemical feedstocks,
22	liquid transportation fuels, or coproduction of elec-
23	tricity;
24	(5) the award recipient's project team is com-
25	petent in the construction and operation of the gas-

1 ification technology proposed, with preference given 2 to those recipients with experience that demonstrates 3 successful and reliable operations of the technology 4 on domestic fuels identified in section 202(6); and 5 (6) the award recipient has met other criteria 6 established and published by the Secretary. 7 (e) Combined Limit for the Use of More Than 8 ONE FEDERAL CREDIT, LOAN OR LOAN GUARANTEE. 9 The allowable combined value of all credits, loans or loan 10 guarantees claimed in association with any single certified industrial gasification property is limited to the project 11 12 total credit limit associated with the project's year of cer-13 tification or deemed year of certification as determined under section 221 of the Clean Coal Research, Develop-14 15 ment, Demonstration, and Deployment Act of 2005.

16 SEC. 222. CREDIT FOR PRODUCTION FROM CERTIFIED IN-

17

DUSTRIAL GASIFICATION PROJECTS.

(a) IN GENERAL.—Subpart D of part IV of subchapter A of chapter 1 of the Internal Revenue Code of
1986 (relating to business related credits) is amended by
adding at the end the following new section:

22 "SEC. 45J. CREDIT FOR PRODUCTION FROM CERTIFIED IN23 DUSTRIAL GASIFICATION PROJECTS.

24 "(a) IN GENERAL.—For purposes of section 38, the25 synthesis gas production tax credit for any taxable year

is determined by the year in which the taxpayer's indus trial gasification project is certified or deemed certified in
 accordance with the provisions of section 221 of the Clean
 Coal Research, Development, Demonstration, and Deploy ment Act of 2005.

- 6 "(b) Determination of Credit Amount.—
- 7 "(1) IN GENERAL.—

"(A) IN GENERAL.—With respect to each 8 industrial gasification project sponsor, the syn-9 10 thesis gas production tax credit for all taxable 11 years shall not exceed the credit value per-million-Btu's and project total credit limitation as-12 sociated with the project's year of certification 13 14 or deemed year of certification as specified in 15 the following table:

Year of certifi-	Number of project	Credit value per	Project total
cation	certifications	million Btu's	credit limit
2008	3 4 7 10	\$.496 \$.397 \$.317	\$116,725,000 \$77,855,575 \$51,929.669 \$34,637,089

16	"(B) INFLATION ADJUSTMENT.—
17	"(i) IN GENERAL.—For calendar
18	years after 2006, each amount in the third
19	and fourth columns of the table contained
20	in subparagraph (A) shall be adjusted by

1	multiplying such amount by the inflation
2	adjustment factor for the calendar year in
3	which the amount is applied. If any
4	amount in such third column as increased
5	under the preceding sentence is not a mul-
6	tiple of 0.01 cent, such amount shall be
7	rounded to the nearest multiple of 0.01
8	cent. If any amount in such fourth column
9	is increased under the preceding sentence
10	is not a multiple of \$50, such amount shall
11	be rounded to the nearest multiple of \$50.
12	"(ii) INFLATION ADJUSTMENT FAC-
13	TOR.—For purposes of clause (i)—
14	"(I) IN GENERAL.—The term 'in-
15	flation adjustment factor' means, with
16	respect to a calendar year, a fraction
17	the numerator of which is the GDP
18	implicit price deflator for the pre-
19	ceding calendar year and the denomi-
20	nator of which is the GDP implicit
21	price deflator for the calendar year
22	2005.
23	"(II) GDP implicit price
24	DEFLATOR.—The term 'GDP implicit
25	price deflator' means, for any cal-

1	endar year, the most recent revision of
2	the implicit price deflator for the
3	gross domestic product as of June 30
4	of such calendar year as computed by
5	the Department of Commerce before
6	October 1 of such calendar year.
7	"(2) Limitations.—
8	"(A) CREDIT LIMITED BY PROJECT IN-
9	VESTMENT.—The credit amount for any indus-
10	trial gasification project otherwise determined
11	under this section shall not exceed an amount
12	equal to 20 percent of the total plant invest-
13	ment made in such project.
14	"(B) CREDIT LIMITED BY BTU'S CON-
15	SUMED IN PRODUCTION OF ELECTRICITY.—Not
16	more than 60 percent of the credit amount for
17	any industrial gasification project otherwise de-
18	termined under this section for any taxable year
19	may be attributable to Btu's consumed in the
20	production of electricity.
21	"(3) Additional credit amount.—The credit
22	amount and project total credit limit for any indus-
23	trial gasification project otherwise determined under
24	this section (determined without regard to para-
25	graph (2)) shall be increased by 30 percent for any

synthises gas produced and used for purposes other
 than coproduced power (as defined in section 202(4)
 of the Clean Coal Research, Development, Dem onstration, and Deployment Act of 2005.

5 "(c) EXCEPTION FOR DEPLOYMENT OF NEW TECH-NOLOGIES.—Notwithstanding subsection (b), the Sec-6 7 retary may during a competitive certification process as-8 sign credit values and total project credit value limitations 9 associated with certification periods not to exceed 4 years 10 prior to the current year of awards to not more than 2 industrial gasification projects which the Secretary deter-11 12 mines are particularly consistent with the program purposes in section 201(b) of the Clean Coal Research, Devel-13 opment, Demonstration, and Deployment Act of 2005 and 14 15 which utilize a technology that has not previously been de-16 ployed.

17 "(d) TREATMENT OF PERSON NOT ABLE TO USE18 ENTIRE CREDIT.—

19 "(1) Allowance of credits.—

"(A) IN GENERAL.—Any credit allowable
under this section or section 46(2) by reason of
section 48(a)(3)(A)(iv) with respect to a facility
owned by a person described in subparagraph
(B) may be transferred or used as provided in
this subsection, and the determination as to

1	whether the credit is allowable shall be made
2	without regard to the tax-exempt status of the
3	person.
4	"(B) PERSONS DESCRIBED.—A person is
5	described in this subparagraph if the person
6	is—
7	"(i) an organization described in sec-
8	tion $501(c)(12)(C)$ and exempt from tax
9	under section 501(a),
10	"(ii) an organization described in sec-
11	tion 1381(a)(2)(C),
12	"(iii) a public utility (as defined in
13	section $136(c)(2)(B))$,
14	"(iv) any State or political subdivision
15	thereof, the District of Columbia, or any
16	agency or instrumentality of any of the
17	foregoing,
18	"(v) any Indian tribal government
19	(within the meaning of section 7871) or
20	any agency or instrumentality thereof, or
21	"(vi) the Tennessee Valley Authority.
22	"(2) Transfer of credit.—
23	"(A) IN GENERAL.—A person described in
24	clause (i), (ii), (iii), (iv), or (v) of paragraph
25	(1)(B) may transfer any credit to which para-

1 graph (1)(A) applies through an assignment to 2 any other person not described in paragraph 3 (1)(B). Such transfer may be revoked only with 4 the consent of the Secretary. "(B) REGULATIONS.—The Secretary shall 5 6 prescribe such regulations as necessary to en-7 sure that any credit described in subparagraph 8 (A) is claimed once and not reassigned by such 9 other person. 10 "(C) TRANSFER PROCEEDS TREATED AS 11 ARISING FROM ESSENTIAL GOVERNMENT FUNC-12 TION.—Any proceeds derived by a person de-13 scribed in clause (iii), (iv), or (v) of paragraph 14 (1)(B) from the transfer of any credit under 15 subparagraph (A) shall be treated as arising 16 from the exercise of an essential government 17 function. 18 "(D) CREDIT NOT INCOME.—Any transfer 19 under subparagraph (A) of any credit to which 20 paragraph (1)(A) applies shall not be treated as 21 income for purposes of section 501(c)(12). 22 "(3) USE BY TVA.— "(A) IN GENERAL.—Notwithstanding any 23 24 other provision of law, in the case of a person 25 described in paragraph (1)(B)(vi), any credit to 67

1 which paragraph (1)(A) applies may be applied 2 as a credit against the payments required to be 3 made in any fiscal year under section 15d(e) of 4 the Tennessee Valley Authority Act of 1933 (16) 5 U.S.C. 831n-4(e)) as an annual return on the 6 appropriations investment and an annual repay-7 ment sum. "(B) TREATMENT OF CREDITS.—The ag-8 9 gregate amount of credits described in para-10 graph (1)(A) with respect to such person shall 11 be treated in the same manner and to the same 12 extent as if such credits were a payment in cash 13 and shall be applied first against the annual re-14 turn on the appropriations investment. "(C) CREDIT CARRYOVER.—With respect 15 16 to any fiscal year, if the aggregate amount of 17 credits described paragraph (1)(A) with respect 18 to such person exceeds the aggregate amount of 19 payment obligations described in subparagraph 20 (A), the excess amount shall remain available 21 for application as credits against the amounts 22 of such payment obligations in succeeding fiscal 23 years in the same manner as described in this 24 paragraph.

"(4) TREATMENT OF UNRELATED PERSONS.—
 For purposes of this subsection, transfers among
 and between persons described in clauses (i), (ii),
 (iii), (iv), and (v) of paragraph (1)(B) shall be treat ed as transfers between unrelated parties.

6 "(e) APPLICABLE RULES.—For purposes of this sec7 tion, the rules of paragraphs (3), (4), and (5) of section
8 45(e) shall apply.".

9 (b) CREDIT TREATED AS BUSINESS CREDIT.—Sec-10 tion 38(b) of the Internal Revenue Code of 1986 (relating 11 to current year business credit) is amended by striking 12 "plus" at the end of paragraph (18), by striking the period 13 at the end of paragraph (19) and inserting ", plus", and 14 by adding at the end the following new paragraph:

15 "(20) the synthesis gas production tax credit
16 determined under section 45J(a).".

17 (c) DENIAL OF DOUBLE BENEFIT.—Section 29(d) of
18 the Internal Revenue Code of 1986 (relating to other defi19 nitions and special rules) is amended by adding at the end
20 the following new paragraph:

21 "(9) DENIAL OF DOUBLE BENEFIT.—This sec22 tion shall not apply with respect to any qualified fuel
23 the production of which may be taken into account
24 for purposes of determining the credit under section
25 45J.".

2 for subpart D of part IV of subchapter A of chapter 1 3 of the Internal Revenue Code of 1986 is amended by adding at the end the following new item: 4 "Sec. 45J. Credit for production from certified industrial gasification projects.". 5 (e) EFFECTIVE DATE.—The amendments made by 6 this section shall apply to production after the date of the 7 enactment of this Act, in taxable years ending after such 8 date. 9 SEC. 223. INVESTMENT TAX CREDIT FOR CERTIFIED INDUS-10 TRIAL GASIFICATION PROJECTS. 11 (a) IN GENERAL.—Section 48 (a)(3)(A) of the Internal Revenue Code of 1986 (relating to energy property), 12 13 as amended by this Act, is amended— (1) by striking "or" at the end of clause (ii), 14 (2) by inserting "or" at the end of clause (iii), 15 16 and 17 (3) by adding at the end the following new 18 clause: 19 "(iv) certified industrial gasification 20 property,". 21 (b) CREDIT RATE.—Section 48(a)(2)(A) of the Inter-22 nal Revenue Code of 1986 (relating to energy percentage), 23 as amended by this Act, is amended by inserting "or a

(d) CLERICAL AMENDMENT.—The table of sections

certified industrial gasification property" after "certified
 coal property" both places it appears.

3 (c) DEFINITIONS.—Section 48 of the Internal Rev4 enue Code of 1986 (relating to energy credit), as amended
5 by this Act, is amended by adding the following new sub6 section:

7 "(d) CERTIFIED INDUSTRIAL GASIFICATION PROP8 ERTY.—For purposes of this section—

9 "(1) IN GENERAL.—The term 'certified indus10 trial gasification property' means any property that
11 is part of an industrial gasification project as de12 fined in section 202(7) of the Clean Coal Research,
13 Development, Demonstration, and Deployment Act
14 of 2005 and that has been certified by the Secretary
15 of Energy under section 221 of that Act.

"(2) LIMIT ON USE OF CREDITS.—Any credit 16 17 claimed by a taxpayer under section 46(2) by reason 18 of subsection (a)(3)(A)(iv) shall be limited to the 19 project total credit limit associated with the project's 20 year of certification or deemed year of certification 21 as determined under section 221 of the Clean Coal 22 Research, Development, Demonstration, and Deploy-23 ment Act of 2005.".

fined in section 202(7) of the Clean Coal Research,
 Development, Demonstration, and Deployment Act
 of 2005 and that has been certified by the Secretary
 of Energy under section 221 of that Act.

"(2) LIMIT ON USE OF CREDITS.—Any credit 5 claimed by a taxpayer under section 46(2) by reason 6 of subsection (a)(3)(A)(iv) shall be limited to the 7 project total credit limit associated with the project's 8 9 year of certification or deemed year of certification 10 as determined under section 221 of the Clean Coal 11 Research, Development, Demonstration, and Deploy-12 ment Act of 2005.".

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