103D CONGRESS 1ST SESSION H.R. 3603

To promote the research and development of environmental technologies.

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 21, 1993

Mr. BROWN of California (for himself, Mr. VALENTINE, Mr. MINETA, Mrs. LLOYD, Mr. BOEHLERT, Mr. SWETT, Mr. KLEIN, Ms. ESHOO, Mr. TRAFICANT, Mr. TANNER, Mr. BACCHUS of Florida, Mr. BARCIA of Michigan, Mr. FINGERHUT, Ms. HARMAN, Mr. JOHNSON of Georgia, Mr. COPPERSMITH, Ms. EDDIE BERNICE JOHNSON of Texas, Mr. MINGE, Mr. DEAL, Mr. SCOTT, Mr. BECERRA, and Mr. RUSH) introduced the following bill, which was referred jointly to the Committees on Science, Space, and Technology, the Judiciary, Education and Labor, Banking, Finance and Urban Affairs, Public Works and Transportation, Energy and Commerce, and Government Operations

A BILL

To promote the research and development of environmental technologies.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

3 TITLE I—GENERAL PROVISIONS

4 SEC. 101. SHORT TITLE; TABLE OF CONTENTS.

- 5 (a) SHORT TITLE.—This Act may be cited as the
- 6 "Environmental Technologies Act of 1993".

1 (b) TABLE OF CONTENTS.—The table of contents for

2 this Act is as follows:

TITLE I—GENERAL PROVISIONS

- Sec. 101. Short title; table of contents.
- Sec. 102. Findings.
- Sec. 103. Purposes.
- Sec. 104. Definitions.

TITLE II-POLICY COORDINATION AND TECHNOLOGY PROGRAMS

Subtitle A—Policy Coordination and Program Planning

- Sec. 201. Coordination of environmental technology research and development.
- Sec. 202. Life-cycle assessments.
- Sec. 203. Environmental technologies in ongoing programs.

Subtitle B—Environmental Technology

- Sec. 211. Environmental Technologies Development and Integration Program.
- Sec. 212. Environmental remediation and monitoring technologies.
- Sec. 213. President's Total Environmental Quality Award and the National Environmentally Sound Technology Award.
- Sec. 214. Incorporation of information on environmental technologies into existing networks.
- Sec. 215. Use of Federal facilities for environmental technology demonstration.
- Sec. 216. Federal acquisition and use of environmentally efficient building materials.

TITLE III—EDUCATION

- Sec. 301. Environmentally advanced education.
- Sec. 302. General education in environmental technologies.

TITLE IV—STANDARDS

- Sec. 401. Performance standards.
- Sec. 402. Verification of environmental technologies.
- Sec. 403. Consumer claims on environmental technologies.

TITLE V—INTERNATIONAL PROGRAMS

- Sec. 501. Findings.
- Sec. 502. International environmental technology demonstration.
- Sec. 503. Promotion of environmental technology exports.
- Sec. 504. Financial assistance for technology adaptation to promote exports.

TITLE VI-FINANCIAL AND REGULATORY INCENTIVES

- Sec. 601. Use of environmental technology products by the Federal Government.
- Sec. 602. Study of regulatory influences on innovation in environmental technologies.
- Sec. 603. Study of the impact of tax incentives on innovation in environmental technologies.

TITLE VII—AUTHORIZATION OF APPROPRIATIONS

Sec. 701. Authorization of appropriations.

1 SEC. 102. FINDINGS.

2 The Congress finds the following:

3 (1) Promoting a sound economy and maintain4 ing a healthy environment are among the urgent
5 public policy challenges of the United States.

6 (2) The development and deployment of envi7 ronmental technologies will enhance the economic
8 standing of the United States and global environ9 mental security.

10 (3) Although better product and process de-11 signs offer new opportunities for substantially im-12 proved environmental performance in growing do-13 mestic and international markets, current govern-14 ment regulations and market barriers do not allow 15 these opportunities to be fully exploited.

(4) Although the Federal Government, research
institutes, universities, and industries are conducting
substantial basic environmental research and development, environmental concerns must become a
more pervasive and central dimension of technology
research and development.

(5) The coordination of Federal, State, and
local activities for developing and adopting environmental technologies will greatly enhance the effec-

tiveness of environmental policies of the United
 States.

3 SEC. 103. PURPOSES.

4 It is the purpose of this Act—

5 (1) to improve coordination and integration of
6 environmental technology research and development
7 performed by and across Federal agencies;

8 (2) to assist and catalyze efforts of private in-9 dustry, universities, nonprofit research centers, and 10 Federal laboratories in developing and deploying en-11 vironmental technologies and, in the process, to pro-12 mote the competitiveness of United States compa-13 nies;

14 (3) to facilitate the development, diffusion, and
15 export of environmental technologies by improving
16 the availability of information;

17 (4) to promote industrial, academic, and public18 knowledge of sustainable economic development;

(5) to promote the development of technical
standards for substitution of an environmentally
sound product or technology for a traditional one,
for environmental performance and efficacy of new
technologies and products, and for environmental
advertising and labeling of products;

(6) to encourage sustainable economic develop-1 2 ment internationally and to promote United States exports of environmental technologies; and 3 4 (7) to direct the study of tax and regulatory 5 changes that will provide for the more efficient development and use of environmental technologies. 6 7 **SEC. 104. DEFINITIONS.** For the purposes of this Act: 8 (1) The term "Administrator" means the Ad-9 ministrator of the Environmental Protection Agency. 10 "environmental technology" 11 (2)The term 12 means-(A) a technology that is primarily intended 13 to improve the quality of the environment 14 15 through pollution reduction or remediation; 16 (B) a product, manufacturing process, or 17 service that is capable of cost-effectively replac-18 ing the functions of an existing product, proc-19 ess, or service, and as compared with the prod-20 uct, process, or service it replaces, significantly reducing overall pollution or significantly im-21 22 proving the efficiency of energy or materials 23 use; or (C) a technology within the meaning of 24

24 (C) a technology within the meaning of 25 subparagraphs (A) and (B). 1 (3) The term "Federal laboratory" means a 2 Government-owned, Government-operated labora-3 tory, or a Government-owned, contractor-operated 4 laboratory.

5 (4) The term "life-cycle assessment" means the 6 assessment of the complete systems involved in con-7 verting resources to products, including resource ex-8 traction, materials conversion, energy use, end use, 9 recycling, and disposal, and their associated costs.

10 (5) The term "sustainable economic develop-11 ment" means the integration of environmental and 12 economic development concerns leading to long-term 13 economic development with reduced pollution and 14 the more efficient use of energy and materials.

(6) The term "United States company" means
a company described in section 28(d)(9)(B) of the
National Institute of Standards and Technology Act
(15 U.S.C. 278n(d)(9)(B)).

TITLE II—POLICY **COORDINA-**1 **TION AND TECHNOLOGY PRO-**2 GRAMS 3 Subtitle A—Policy Coordination 4 and Program Planning 5 SEC. 201. COORDINATION OF ENVIRONMENTAL TECH-6 7 NOLOGY RESEARCH AND DEVELOPMENT. 8 (a) INTERAGENCY COORDINATION.—The Director of the Office of Science and Technology Policy shall, in co-9 10 ordination with the heads of other Federal agencies that have substantial investment in the development and adop-11 tion of environmental technologies, take any action nec-12 13 essary-14 (1) to ensure, to the maximum extent practicable, the coordinated, interagency promotion of 15 the research, development, and adoption of environ-16 17 mental technologies; and (2) to develop priorities for Federal environ-18 19 mental technology research, development, and adop-20 tion efforts. 21 (b) IMPLEMENTATION.—In carrying out this section, the Director of the Office of Science and Technology 22 Policy shall— 23 24 (1) review current Federally funded programs,

25 including Federal budget outlays for these programs,

1	to determine their role in the development and dis-
2	semination of environmental technologies;
3	(2) recommend the specific responsibilities of
4	each appropriate Federal agency to achieve the goals
5	and priorities developed under this section;
6	(3) describe the recommended levels of Federal
7	funding required for each Federal agency to carry
8	out the specific responsibilities recommended in
9	paragraph (2);
10	(4) develop a means for ensuring, to the maxi-
11	mum extent practicable, that the principles of sus-
12	tainable economic development are integrated into
13	the research, development, and technology programs
14	of all Federal agencies;
15	(5) ensure that the efforts of the Federal Gov-
16	ernment are coordinated with the efforts of State
17	and local governments and private and nonprofit or-
18	ganizations promoting the research, development,
19	and demonstration of environmental technologies;
20	and
21	(6) submit to the Congress any recommenda-
22	tions regarding legislative or administrative action,
23	including recommendations on the roles of Federal
24	agencies, which may be required to carry out this
25	section.

8

(c) BUDGET COORDINATION.—The Director of the 1 Office of Science and Technology Policy shall annually as-2 sess, before the President submits to the Congress the 3 budget for a fiscal year, the budget estimate of each rel-4 evant Federal agency for consistency with the plans, re-5 views, and priorities developed under this section. The Di-6 7 rector shall make the results of the annual assessment available to the appropriate elements of the Executive Of-8 9 fice of the President, particularly the Office of Manage-10 ment and Budget, for use in the preparation of such budget. 11

12 (d) ANNUAL REVIEW AND PLAN.—The Director of 13 the Office of Science and Technology shall annually sub-14 mit to the Congress a report containing an evaluation and 15 plan that assesses the progress of Federal efforts in ad-16 vancing the research, development, and adoption of envi-17 ronmental technologies.

18 (e) NON-FEDERAL PARTICIPATION.—The Director of 19 the Office of Science and Technology Policy shall establish 20 mechanisms to ensure the participation of non-Federal en-21 tities, including State and local governments, United 22 States industry, institutions of higher education, worker 23 organizations, professional associations, and United States 24 nonprofit organizations, in carrying out this section, including the development of the plans and reviews devel oped under this section.

3 SEC. 202. LIFE-CYCLE ASSESSMENTS.

4 (a) FINDINGS.—The Congress finds the following:

5 (1) Life-cycle assessments have much potential 6 for identifying opportunities for achieving more envi-7 ronmentally sound products, processes, and services 8 and enhanced industrial efficiency.

9 (2) Methods of life-cycle assessment are 10 underused in both the public and private sectors, 11 particularly as applied to sustainable economic devel-12 opment.

(3) The data necessary for meaningful life-cycle
assessment are often difficult to acquire, and no system exists to make such data readily available to
public and private groups.

17 (b) LIFE-CYCLE ASSESSMENT COORDINATION.—

(1) IN GENERAL.—The Director of the Office of 18 19 Science and Technology Policy, as part of activities 20 to coordinate environmental technology research, development, and adoption described in section 201, 21 22 shall coordinate Federal activities and resources that are applied to life-cycle assessment in order to maxi-23 mize the contribution of life-cycle assessments to 24 25 sustainable economic development.

1	(2) IMPLEMENTATION.—In carrying out this
2	subsection, the Director of the Office of Science and
3	Technology Policy shall—
4	(A) ensure that the life-cycle assessment
5	resources of each Federal agency are developed
6	and disseminated in a coordinated fashion, par-
7	titioning agency responsibilities, where appro-
8	priate;
9	(B) coordinate with State and local govern-
10	ments developing life-cycle assessment re-
11	sources; and
12	(C) consider the life-cycle assessment capa-
13	bilities of the private sector.
14	(3) OTHER ACTIVITIES.—In carrying out this
15	subsection, the Director of the Office of Science and
16	Technology Policy shall also encourage appropriate
17	Federal agencies—
18	(A) to collect, develop, and disseminate in-
19	formation regarding analytic methods and, as
20	required, to develop such methods, that will sig-
21	nificantly enhance the ability of United States
22	companies and other organizations to evaluate
23	materials extraction, transportation, conversion,
24	end use, recycling, and disposal, and their asso-
25	ciated costs and environmental impacts;

11

(B) to utilize, to the fullest extent prac-1 2 ticable, existing networks and supporting databases providing 3 ready access to 4 nonproprietary information that will facilitate the use of life-cycle assessments; and 5 (C) to sponsor demonstrations for public 6 7 policy and business decisionmakers of the effec-8 tive use of the database and methodologies de-9 scribed in this section. 10 (c) ANNUAL REVIEW.—The Director of the Office of Science and Technology Policy shall annually submit to 11 the Congress a report containing an evaluation of the life-12 cycle assessment activities of the Federal Government. 13 14 SEC. 203. ENVIRONMENTAL TECHNOLOGIES IN ONGOING 15 **PROGRAMS.** (a) STEVENSON-WYDLER AMENDMENTS.—The Ste-16 venson-Wydler Technology Innovation Act of 1980 (15 17 U.S.C. 3701) is amended— 18 19 (1) in section 2(2), by inserting "greater environmental sustainability," after "employment oppor-20 21 tunities.": 22 (2) in section 3(1), by inserting "for sustainable 23 economic development" after "stimulate technology"; (3) in section 4, by adding at the end the fol-24 25 lowing new paragraph:

"(14) development' 1 'Sustainable economic 2 means the integration of environment and economic 3 development concerns leading to long-term economic development with reduced pollution and the more ef-4 ficient use of energy and materials;"; 5 (4) in section 6(a), by inserting "and sustain-6 7 able economic development in their regions" after

8 "enhance the competitiveness of American busi-9 ness";

10 (5) in section 6(d), by inserting "and sustain-11 able economic development of their regions" after 12 "enhance the competitiveness of American busi-13 nesses";

14 (6) in section 7(a), by inserting "and sustain15 able economic development" after "enhance techno16 logical innovation";

17 (7) in section 7(c)(1), by striking "economic
18 competitiveness" and inserting "sustainable eco19 nomic development";

20 (8) in section 9(a), by inserting "and sustain21 able economic development" after "enhance techno22 logical innovation"; and

(9) in section 11(c)(1) by inserting "and would
enhance sustainable economic development" after
"commercial applications".

(b) NIST AMENDMENTS.—The National Institute of
 Standards and Technology Act (15 U.S.C. 271) is amend ed—

4 (1) in section 1(b)(1), by inserting "sustainable
5 economic development," after "improved product re6 liability and manufacturing processes,";

7 (2) in section 1, by adding after subsection (b)8 the following new subsection:

"(c) For purposes of this section, the term 'sustain-9 able economic development' means the integration of envi-10 ronment and economic development concerns leading to 11 long-term economic development with reduced pollution 12 and the more efficient use of energy and materials;"; and 13 (3) in section 2(b)(1), by inserting "to enhance 14 15 sustainable economic development (as that term is defined in section 1(c))" after "to improve quality,". 16 17 NASA AMENDMENTS.—The National Aero-(c) nautics and Space Act of 1958 (42 U.S.C. 2451 note) is 18 amended— 19

20 (1) in section 102(d)—

(A) by redesignating paragraphs (6), (7),
(8), and (9) as paragraphs (7), (8), (9), and
(10), respectively; and
(B) by inserting after paragraph (5) the

25 following new paragraph:

1	"(6) The making available to Federal and non-
2	Federal entities of the United States, technologies
3	that will enhance the sustainable economic develop-
4	ment of the Nation."; and
5	(2) in section 103—
6	(A) by striking ''; and'' in paragraph (1)
7	and inserting a semicolon;
8	(B) by striking the period at the end of
9	paragraph (2) and inserting ''; and''; and
10	(C) by adding at the end the following new
11	paragraph:
12	"(3) the term 'sustainable economic develop-
13	ment' means the integration of environment and eco-
14	nomic development concerns leading to long-term
15	economic development with reduced pollution and
16	the more efficient use of energy and materials.".
17	(d) NSF Amendments.—
18	(1) FUNCTIONS.—Section 3(a) of the National
19	Science Foundation Act of 1950 (42 U.S.C. 1861 et
20	seq.) is amended—
21	(A) in paragraph (6), by striking ''; and"
22	and inserting a semicolon;
23	(B) in paragraph (7), by striking the pe-
24	riod and inserting ''; and''; and

(C) by adding at the end the following new 1 2 paragraph: 3 "(8) to foster education and research that would promote sustainable economic development 4 nationally and internationally.". 5 6 (2) DEFINITION.—Subsection (g) of section 14 7 of such Act is amended to read as follows: "(g) For purposes of this Act: 8 9 "(1) The term 'United States' when used in a 10 geographical sense means the States, the District of 11 Columbia, the Commonwealth of Puerto Rico, and all territories and possessions of the United States. 12 13 "(2) The term 'sustainable economic development' means the integration of environment and eco-14 15 nomic development concerns leading to long-term economic development with reduced pollution and 16 17 the more efficient use of energy and materials.". 18 (e) TITLE 10 AMENDMENTS.— 19 (1) IN GENERAL.—Section 2501(b) of title 10, United States Code, is amended by striking "eco-20 21 nomic growth" in paragraphs (1) and (2) and insert-22 ing "sustainable economic development". 23 (2) DEFINITION.—Section 2491 of such title is 24 amended by adding at the end the following new 25 paragraph:

"(13) The term 'sustainable economic develop ment' means the integration of environment and eco nomic development concerns leading to long-term
 economic development with reduced pollution and
 the more efficient use of energy and materials.".

6 (f) TITLE 49 AMENDMENT.—Section 101(b)(4) of 7 title 49, United States Code, is amended by inserting "and 8 sustainable economic development (as defined in section 9 104(5) of the Environmental Technologies Act of 1993)" 10 after "technological advances".

Subtitle B—Environmental Technology

13 SEC. 211. ENVIRONMENTAL TECHNOLOGIES DEVELOP-14MENT AND INTEGRATION PROGRAM.

(a) ESTABLISHMENT.—There is established an Environmental Technologies Development and Integration
Program, to be administered by the Administrator, to promote the research, development, and integration of technologies that will contribute significantly to sustainable
economic development.

(b) INTERAGENCY COORDINATION.—The Administrator shall administer the program established in subsection (a) in cooperation with the heads of other agencies
that have substantial capabilities in advanced technology
research and development.

1 (c) FINANCIAL ASSISTANCE.—To carry out the pro-2 gram referred to in subsection (a), the Administrator may 3 enter into contracts and cooperative agreements with, and 4 award grants to, entities eligible for such assistance under 5 subsection (e).

6 (d) PROGRAM ELEMENTS.—Projects eligible for as-7 sistance under this section are projects that—

8 (1) develop advanced, precommercial environ-9 mental technologies, with emphasis on technologies 10 within the meaning of section 104(2)(B), that will 11 significantly contribute to sustainable economic de-12 velopment; or

(2) develop and demonstrate the integration of
multiple steps in the conversion of materials that are
involved in the manufacture, reuse, or recycling of a
product, the recycling of process wastes, or the provision of a service.

(e) ELIGIBILITY FOR ASSISTANCE.—Entities shall be
eligible for financial assistance under subsection (c) only
if—

(1) the entity submits a proposal for such assistance in the form, time, and manner required by
the Administrator;

24 (2) the entity is either a single company or a25 partnership which may include—

1	(A) two or more companies;
2	(B) a nonprofit research corporation estab-
3	lished by two or more eligible firms; and
4	(C) as determined appropriate by the Ad-
5	ministrator, a Federal laboratory or labora-
6	tories, institutions of higher education, agencies
7	of State governments, and other entities that
8	participate in the partnership by supporting the
9	activities conducted by such firms or corpora-
10	tions under this section; and
11	(3) the company is a United States company
12	and the Administrator finds that the company's par-
13	ticipation in the Program would be in the economic
14	interest of the United States, as evidenced by—
15	(A) investments in the United States in re-
16	search, development, and manufacturing (in-
17	cluding manufacturing major components or
18	subassemblies in the United States);
19	(B) significant contributions to employ-
20	ment in the United States; and
21	(C) an agreement with respect to any tech-
22	nology arising from assistance provided under
23	this section to promote the manufacture within
24	the United States of products resulting from
25	that technology (taking into account the goals

19

1	of promoting the competitiveness of United
2	States industry), and to procure parts and ma-
3	terials from competitive suppliers.
4	(f) Selection of Proposals.—
5	(1) COMPETITIVE PROCESS.—The Adminis-
6	trator shall select proposals for financial assistance
7	under this section solely through a competitive,
8	merit-based evaluation process established by the
9	Administrator.
10	(2) SELECTION CRITERIA.—Criteria used to
11	evaluate proposals for financial assistance under this
12	section shall include the following:
13	(A) Significant improvement in environ-
14	mental soundness of the overall production
15	process.
16	(B) Contribution to industrial competitive-
17	ness, including new markets, reduced produc-
18	tion costs, and enhanced export potential.
19	(C) Improvement in the work environment.
20	(D) Applicability to other industrial proc-
21	esses.
22	(E) Improvement in technological capabil-
23	ity to recycle complex combinations of mate-
24	rials.

(F) Contribution to the environmental pri orities established pursuant to section 201.

3 (3) INTEGRATION OF INDUSTRY VIEWS.—The 4 Administrator shall develop mechanisms for inte-5 grating the views of representatives of industry into 6 the process by which proposals for financial assist-7 ance under this section are evaluated.

8 (g) AWARD CONDITIONS.—Financial assistance pro-9 vided under this section shall be subject to the following 10 conditions:

(1) Such assistance may be made for not more
than three years for single firms and not more than
five years for partnerships.

14 (2) The Federal Government may provide not 15 more than a minority cost-share of the awards to partnerships. The Administrator shall prescribe reg-16 17 ulations to provide for consideration of in-kind con-18 tributions by non-Federal Government participants 19 in a partnership for the purpose of determining the 20 share of the partnership costs that have been or are being undertaken by such participant. 21

(h) OTHER ASSISTANCE AUTHORIZED.—The Administrator, in cooperation with the heads of other appropriate Federal agencies that have substantial capabilities
in advanced technology research and development, may

provide entities receiving financial assistance under this 1 section with any technical and other assistance the Admin-2 istrator considers necessary to carry out this section. In 3 4 providing such assistance, the Administrator may make available to a partnership any equipment and facilities of 5 Federal laboratories (including the scientists and engi-6 7 neers at those laboratories) that the Administrator considers appropriate for the work to be performed by the 8 partnership. 9

(i) ANNUAL REVIEW.—The Administrator shall annually submit to the Congress a report that contains an
evaluation of the program established under subsection
(a). The report shall evaluate the success of innovations
resulting from the program based on criteria that include
those described in subsection (f) (2).

16 (j) PROGRAM ADMINISTRATION.—

17 (1) IN GENERAL.—In administering the pro18 gram established under this section, the Adminis19 trator shall—

20 (A) monitor the manner in which tech21 nologies developed as a result of the program
22 are used, and report annually to the Congress
23 on the extent of any international transfer of
24 these technologies;

	20
1	(B) provide for appropriate dissemination
2	of the results of research conducted under the
3	program; and
4	(C) take any other action the Administer
5	considers necessary to carry out the program
6	and to avoid unnecessary duplication of effort
7	by Federal agencies.
8	(2) Applicability of foia.—Section 552 of
9	title 5, United States Code, shall not apply to the
10	following information obtained by the Federal Gov-
11	ernment on a confidential basis in connection with
12	the activities of any firm or partnership receiving
13	financial assistance under this section:
14	(A) Information on the operation of any
15	firm or member of a partnership.
16	(B) Trade secrets possessed by any busi-
17	ness or any member of the partnership.
18	(3) Disclosure of intellectual prop-
19	ERTY.—Intellectual property owned and developed
20	by any business or partnership receiving financial
21	assistance under this section or by any member of
22	such a partnership may not be disclosed by any offi-
23	cer or employee of the Federal Government except in
24	accordance with a written agreement between the

owner or developer of the intellectual property and
 the Administrator.

3 (4) VESTING OF INTELLECTUAL PROPERTY
4 RIGHTS.—

(A) IN GENERAL.—Title to any intellectual 5 6 property arising from assistance provided under 7 this section shall vest in a company or companies incorporated in the United States or in an 8 institution of higher education in the United 9 States. The Federal Government may reserve a 10 11 nonexclusive, nontransferable, irrevocable paidup license, to have practiced for or on behalf of 12 the Federal Government, in connection with any 13 14 such intellectual property, but shall not, in the exercise of such license, publicly disclose propri-15 16 etary information related to the license. Title to 17 any such intellectual property shall not be 18 transferred or passed, except to a company in-19 corporated in the United States, until the expi-20 ration of the first patent obtained in connection with such intellectual property. 21

(B) DEFINITION.—For purposes of this
paragraph, the term "intellectual property"
means an invention patentable under title 35,

United States Code, or any patent on such an 2 invention.

3 (C) EFFECT ON LICENSING.—Nothing in 4 this paragraph shall be construed to prohibit the licensing to any company of intellectual 5 property rights arising from financial assistance 6 7 provided under this section.

8 (5) SUSPENSION OF FINANCIAL ASSISTANCE.— 9 The Administrator may, within 30 days after notice 10 to the Congress, suspend a company or partnership 11 from continued financial assistance under this sec-12 tion if the Administrator determines that the com-13 pany, the country of incorporation of the company 14 or a parent company, or the partnership has failed to satisfy any of the requirements of this section, 15 and that it is in the national interest of the United 16 17 States to do so.

18 SEC. 212. ENVIRONMENTAL REMEDIATION AND MONITOR-

19

1

ING TECHNOLOGIES.

20 (a) FINDINGS.—The Congress finds the following:

21 (1) Existing permit and compliance policies and 22 practices are a key barrier to the widespread use of innovative environmental monitoring and remedi-23 24 ation technologies.

1 (2) Past efforts to develop new containment 2 and clean-up technologies have yielded only modest 3 results and have reached the application stage only 4 after many years of substantial and consistent 5 efforts.

6 (3) More aggressive and integrated Federal pro-7 grams to develop, demonstrate, and make available 8 alternate and innovative monitoring and remediation 9 technologies are needed to ensure the timely and 10 widespread application of the most suitable technical 11 solutions to costly environmental problems.

12 (b) INTERAGENCY COORDINATION IN REMEDIATION 13 TECHNOLOGY DEVELOPMENT PROGRAMS.—Within one year after the date of the enactment of this Act, the Ad-14 ministrator, the Secretary of Energy, and the Secretary 15 of Defense shall jointly submit to the Congress a detailed 16 strategic plan for interagency coordination of Federal pro-17 grams for the timely development, demonstration, and de-18 ployment of innovative environmental control and remedi-19 ation technologies. 20

21	SEC. 213. PRESIDENT'S TOTAL ENVIRONMENTAL QUALITY
22	AWARD AND THE NATIONAL ENVIRON-
23	MENTALLY SOUND TECHNOLOGY AWARD.
24	(a) FINDINGS.—The Congress finds the following:

1	(1) Award programs such as the Malcolm
2	Baldrige National Quality Award Program have
3	made substantial contributions to private enterprise
4	by providing a framework upon which organizations
5	can improve their operations and by focusing on is-
6	sues important to their competitiveness.
7	(2) A President's Total Environmental Quality
8	Award Program modeled on the Malcolm Baldrige
9	Award Program would contribute to environmental
10	quality and sustainable economic development by—
11	(A) helping to stimulate United States
12	companies to develop and deploy environmental
13	technologies;
14	(B) recognizing the achievements of such
15	companies which successfully develop and de-
16	ploy environmental technologies; and
17	(C) establishing guidelines and criteria
18	that can be used by business, industrial, gov-
19	ernmental, and other organizations in evaluat-
20	ing their own development and deployment of
21	environmental technologies.
22	(b) PURPOSE.—It is the purpose of this section to
23	provide for the establishment and conduct of a President's
24	Total Environmental Quality Award Program and a Na-
25	tional Environmentally Sound Technology Award Pro-

gram under which awards are given to recognize the suc cessful development and deployment of environmental
 technologies and information is disseminated about such
 success.

5 (c) ESTABLISHMENT OF AWARDS.—The Stevenson6 Wydler Technology Innovation Act of 1980 (15 U.S.C.
7 3701 et seq.) is amended by inserting after section 23 the
8 following new sections:

9 "SEC. 24. PRESIDENT'S TOTAL ENVIRONMENTAL QUALITY 10 AWARD.

11 ''(a) ESTABLISHMENT.—There is hereby established
12 the President's Total Environmental Quality Award (in
13 this section referred to as the 'Award').

14 ''(b) DESIGN.—The Award shall be evidenced by a
15 medal bearing the inscription 'President's Total Environ16 mental Quality Award'.

17 "(c) AWARD SELECTION PROCESS.—The Secretary, 18 in cooperation with the Secretary of Energy and the Ad-19 ministrator of the Environmental Protection Agency, shall 20 establish a process for the acceptance and evaluation of 21 Award applicants. The Secretary shall, to the maximum 22 extent practicable, use the same procedures and facilities 23 provided for the administration of the Malcolm Baldrige 24 Award, including the definition of award categories, the delegation of responsibilities, and provisions for publicity,
 evaluation feed-back, and information transfer.

3 "(d) Presentation of Award.—

4 "(1) RECOMMENDATIONS BY SECRETARY.—The
5 Secretary shall submit to the President the rec6 ommendations of the Secretary for the selection of
7 Award applicants.

"(2) SELECTION BY THE PRESIDENT.—On the 8 basis of recommendations received under paragraph 9 10 (1), the President shall periodically select for receipt of the Award United States companies and other or-11 ganizations which in the judgment of the President 12 have substantially benefited the environmental, eco-13 nomic, and social well-being of the United States 14 15 through the development and deployment of environ-16 mental technologies, and which as a consequence are 17 deserving of special recognition.

18 "(3) PRESENTATION CEREMONY.—The Presi19 dent or the Vice President shall present the Award
20 to recipients selected under paragraph (2) with such
21 ceremony as the President or the Vice President
22 considers to be appropriate.

23 "(e) LIMITATION.—The information gathered in eval24 uating Award applications may be used only for the eval25 uation of such applications and for publicity by winners

of the Award. Such information may not be used for regu latory or compliance purposes.

3 "(f) EVALUATION CRITERIA.—Criteria for evaluating
4 Award applications shall include the following:

5 "(1) The effectiveness of the organization's de-6 velopment and deployment of environmental tech-7 nologies, as well as the organization's provision for 8 environmental technologies in its future plans.

9 "(2) The effectiveness of energy and materials
10 use from the perspective of the life cycle of the pro11 duction, use, recycle, and disposal of a product.

"(3) The effective use of an integrated approach to pollution prevention and control that considers all environmental media (liquid, solid, gaseous).

"(g) FUNDING.—The Secretary may seek and accept
gifts from public and private sources to carry out this section. The Secretary may provide for the imposition of a
fee upon the organizations applying for the Award.

20 "(h) REPORT.—Not later than 3 years after the date 21 of the enactment of this Act, the Secretary shall submit 22 to the President and the Congress a report on the progress 23 made in carrying out this section. The report shall include 24 any recommendations of the Secretary for any modifica-25 tions of the Award the Secretary considers necessary.

1 "SEC. 25. NATIONAL ENVIRONMENTALLY SOUND TECH 2 NOLOGY AWARD.

3 "(a) ESTABLISHMENT.—There is established a Na-4 tional Environmentally Sound Technology Award for the 5 purpose of awarding individuals who have pioneered the 6 development and use of highly innovative environmental 7 technologies within the meaning of section 104(2)(B) of 8 the Environmental Technologies Act of 1993.

"(b) ADMINISTRATION.—Using the authority and 9 procedures established in section 24 and subject to the 10 conditions described in this section, the Secretary, in co-11 operation with the Administrator of the Environmental 12 Protection Agency and the Secretary of Energy, shall re-13 ceive and evaluate applications for the National Environ-14 mentally Sound Technology Award and provide for presen-15 tation of such Award. 16

17 "(c) QUALIFIED TECHNOLOGIES.—Technologies that18 qualify for such Award shall include the following:

19 "(1) Manufacturing technologies.

20 "(2) Industrial or consumer products.

21 "(3) Consumer services.

22 "(4) Recycling technologies.

23 "(d) QUALIFIED APPLICANTS.—Any citizen or per24 manent resident of the United States may qualify for such
25 Award. Any such individual who is employed by or other26 wise works for a business, Federal laboratory, or other or•HR 3603 IH

ganization may qualify for such Award only if the individ ual was substantially involved in the invention or innova tion for which such Award is presented.

4 "(e) LIMITATION.—Not more than five such Awards5 may be presented annually.".

6 SEC. 214. INCORPORATION OF INFORMATION ON ENVIRON-

7 MENTAL TECHNOLOGIES INTO EXISTING 8 NETWORKS.

9 (a) IN GENERAL.—Not later than one year after the date of the enactment of this Act, the Administrator, 10 through the Office of Research and Development of the 11 Environmental Protection Agency and in cooperation with 12 the Under Secretary for Technology of the Department 13 of Commerce and the heads of any other appropriate Fed-14 eral agencies, shall, to the maximum extent practicable, 15 use existing information network capabilities of the Fed-16 eral Government to provide access to data on environ-17 mental technologies developed, tested, or verified under 18 programs established by this Act, and by other appro-19 priate Federal and non-Federal sources. Such data shall 20 include information on— 21

(1) activities carried out under this Act and theamendments made by this Act;

24 (2) performance standards regarding environ-25 mental technologies;

(3) significant international developments in environmental technologies, fully coordinating with other international technology information programs, of the Federal Government; and

5 (4) other information determined by the Admin-6 istrator to be of substantial value in promoting the 7 development and adoption of environmental tech-8 nologies.

9 (b) USE OF EXISTING RESOURCES.—In carrying out 10 this section, the Administrator shall, to the maximum ex-11 tent practicable—

12 (1) use existing public and private sector infor-13 mation providers and carriers;

14 (2) add to existing data sources; and

(3) integrate data described in subsection (a)
into other technology databases maintained by the
Environmental Protection Agency, the Department
of Commerce, the Department of Energy, and other
appropriate Federal agencies.

(c) OUTREACH.—The Administrator shall conduct
appropriate outreach efforts to advertise, deliver, and disseminate the information made available through the networks referred to in subsection (a), including information
on participation in Alliances referred to in subsection (d).

1

2

3

4

1 (d) Environmental Technology Transfer Al-2 liances.—

3 (1) TECHNOLOGY TRANSFER.—The Administrator may enter into partnership agreements (in 4 this section referred to as "Alliances") with an agen-5 6 cy of a State or local government, a non-profit orga-7 nization in which a State or local government is a member, an institution of higher education des-8 9 ignated by a State or local government, or a manu-10 facturing extension and outreach service or regional 11 technical assistance service approved by the Federal 12 Government or a State in order to—

13 (A) facilitate access to information incor14 porated in the networks referred to in sub15 section (a); and

(B) transfer to entities referred to in paragraph (2) other information that would enhance
the development and adoption of environmental
technologies.

20 (2) ENTITIES ELIGIBLE FOR ALLIANCE PAR21 TICIPATION.—Entities eligible for participation in an
22 Alliance include United States companies, United
23 States non-profit organizations, Federal laboratories,
24 United States institutions of higher education, spon-

	00
1	soring organizations, and other organizations that
2	the Administrator considers to be appropriate.
3	(3) Alliance activities.—Under a partner-
4	ship agreement referred to in paragraph (1), an Alli-
5	ance—
6	(A) may disseminate information made
7	available through the networks to any other en-
8	tity the Alliance considers necessary to advance
9	the goals of this section;
10	(B) is encouraged to collect, and dissemi-
11	nate to United States companies in the region,
12	information regarding opportunities for the
13	more efficient use of materials and energy and
14	for waste minimization, materials conversion,
15	and recycling;
16	(C) is encouraged to provide technical as-
17	sistance to United States companies related to
18	activities under this subsection; and
19	(D) may undertake any other activities the
20	Administrator considers appropriate to carry
21	out this subsection.
22	(4) USE OF EXISTING PROGRAMS.—In selecting
23	partners for a partnership agreement referred to in
24	paragraph (1), the Administrator shall, to the maxi-
25	mum extent practicable, use existing programs for

1	technical assistance and technical information dis-
2	semination.
3	(5) FINANCIAL ASSISTANCE.—
4	(A) IN GENERAL.—To carry out this sub-
5	section, the Administrator may provide financial
6	assistance to an Alliance under terms and con-
7	ditions prescribed by the Administrator.
8	(B) LIMITATIONS.—The Administrator
9	may not provide financial assistance to an Alli-
10	ance under this subsection—
11	(i) for construction of facilities; or
12	(ii) in an amount that exceeds a mi-
13	nority cost share of the activities carried
14	out by the Alliance under this subsection.
15	SEC. 215. USE OF FEDERAL FACILITIES FOR ENVIRON-
16	MENTAL TECHNOLOGY DEMONSTRATION.
17	(a) ESTABLISHMENT.—The Administrator shall es-
18	tablish a program to demonstrate the performance of envi-
19	ronmental technologies at Federal laboratories and other
20	Federal facilities.
21	(b) Qualifying Technology Demonstration
22	PROJECTS.—Technologies that qualify for demonstration
23	under such program include—
24	(1) environmental technologies that can be ap-
25	plied to a major pollution control or remediation
1	need, as determined by the Administrator, at a Fed-
----	--
2	eral laboratory or other Federal facility;
3	(2) environmental technologies the development
4	of which would be significantly advanced by unique
5	facilities or capabilities of a Federal laboratory or
6	other Federal facility; and
7	(3) other environmental technologies that the
8	Administration considers to have significant poten-
9	tial as an environmental technology that will contrib-
10	ute to sustainable economic growth.
11	(c) ADMINISTRATION.—As part of the program estab-
12	lished under this section, the Administrator—
13	(1) may enter into cooperative agreements with
14	other Federal departments and agencies for the pur-
15	pose of demonstrating the performance of environ-
16	mental technologies;
17	(2) may enter into contracts and cooperative
18	agreements for such purpose with organizations se-
19	lected under paragraph (7);
20	(3) except as provided in paragraph (4), may
21	not provide Federal resources under a cooperative
22	agreement referred to in paragraphs (1) and (2) in
23	an amount that exceeds one-half of the total cost of
24	carrying out services and activities under the agree-
25	ment;

1	(4) may make special provisions for small busi-
2	nesses, including the provision of Federal resources
3	under a cooperative agreement entered into with a
4	small business under paragraph (1) or (2) in an
5	amount that exceeds one-half of the total cost of car-
6	rying out services and activities under the agree-
7	ment;
8	(5) shall establish procedures to solicit and ac-
9	cept applications for environmental technologies for
10	demonstration under this program;
11	(6) shall, in consultation and cooperation with
12	other Federal agencies, make available information
13	through the networks described in section 214 and
14	make available through other means—
15	(A) the facilities and expertise available at
16	Federal laboratories that would be valuable to
17	the demonstration of environmental tech-
18	nologies; and
19	(B) sites at Federal laboratories or other
20	Federal facilities potentially available for test-
21	ing environmental technologies, characterized
22	by specific site characteristics, including site ge-
23	ology and site contaminants where appropriate;
24	(7) shall establish procedures for the merit-
25	based review of all applications for demonstration

projects under this program through a process that
 includes representatives of industry and United
 States nonprofit organizations and select organiza tions to carry out such projects based upon such
 procedures;

6 (8) shall document the performance and cost of
7 characteristics of the environmental technology dem8 onstrated; and

9 (9) shall list and disseminate, through the 10 networks described in section 214, nonproprietary 11 information regarding the performance and cost 12 characteristics of the environmental technologies 13 demonstrated pursuant to this section.

14 (d) QUALIFYING ORGANIZATIONS.—Entities eligible 15 to carry out a demonstration project as part of the pro-16 gram established under subsection (a) are United States 17 companies (including small businesses), United States 18 nonprofit organizations, United States institutions of 19 higher education, and other organizations that the Admin-20 istrator considers appropriate.

(e) PROGRAM EVALUATION AND REPORTING.—The
Administrator shall, in cooperation with other Federal
agencies and in consultation with the United States companies and United States nonprofit organizations, annu-

ally submit to the Congress a report that evaluates the
 performance of the program, including a statement of—

3 (1) the number of environmental technologies4 tested and the type of problems addressed;

5 (2) the number of environmental technologies
6 demonstrated in the program that have since become
7 commercially viable and their estimated impact; and
8 (3) the Federal and non-Federal financial re9 sources committed to the program.

10SEC. 216. FEDERAL ACQUISITION AND USE OF ENVIRON-11MENTALLY EFFICIENT BUILDING MATE-12RIALS.

13 (a) DEMONSTRATION OF ACQUISITION AND USE OF MATERIALS.—Not later than 90 days after the date of the 14 15 enactment of this Act, the Administrator shall establish a 3-year pilot program to promote research on, and devel-16 opment of, environmentally efficient building materials 17 through demonstration of the acquisition and use of envi-18 ronmentally efficient building materials in the construc-19 tion of new Federal facilities and buildings and in existing 20 Federal facilities and buildings. 21

(b) SELECTION CRITERIA.—In selecting environmentally efficient building materials, the Administrator
shall use the criteria of—

1 (1) maximizing the conservation and preserva-2 tion of natural resources;

3 (2) ensuring that the materials are similar in
4 quality and durability to comparable, more conven5 tional materials;

6 (3) ensuring that the materials are cost com-7 petitive with comparable, more conventional mate-8 rials on a life-cycle cost basis;

9 (4) ensuring that the materials meet appro-10 priate environmental, public health, and safety 11 standards; and

12 (5) ensuring that the materials meet appro-13 priate standards for energy efficiency.

(c) PREFERENCES AMONG ENVIRONMENTALLY EFFICIENT BUILDING MATERIALS.—When making choices
between comparable environmentally efficient building materials that meet all the criteria under subsection (b), the
Administrator shall give preference to those materials that
best satisfy such criteria.

(d) REPORT.—Not later than 30 days after completion of the pilot program established under this section,
the Administrator shall submit to the Congress a report
on the implementation of the pilot program. The report
shall include—

1	(1) a listing of the type and quantities of envi-
2	ronmentally efficient building materials used;
3	(2) a statement of the cost and performance of
4	such materials compared to comparable, more con-
5	ventional materials;
6	(3) an assessment of the extent to which the ac-
7	quisition and use of such materials can be expanded
8	beyond the scope of the pilot program;
9	(4) an assessment of how well the materials
10	meet the criteria under subsection $(b)(1)$; and
11	(5) an assessment of the extent to which re-
12	search on, and development of, such materials oc-
13	curred as a result of the pilot program and the ex-
14	tent to which further support is needed to stimulate
15	such research and development.
16	(e) INTEGRATION OF OTHER VIEWS.—In carrying
17	out this section, the Administrator shall develop mecha-
18	nisms for integrating the views of the Administrator of
19	General Services, the Army Corps of Engineers, and rep-
20	resentatives of the environmental community, the con-
21	struction industry (including small business), manufactur-
22	ing companies (including small businesses) that produce
23	environmentally efficient materials, and the scientific and
24	technical community.

1 (f) GUIDELINES TO FEDERAL AGENCIES.—The Ad-2 ministrator shall, after consultation with the Adminis-3 trator of General Services, promulgate regulations con-4 taining guidelines to Federal agencies on minimizing the 5 creation of solid waste and on maximizing the use of envi-6 ronmentally efficient building materials in the construc-7 tion of Federal buildings. Such regulations shall include—

8 (1) a requirement that any bid or proposal for 9 Federal contracts for the construction of Federal 10 buildings include a plan for minimizing the genera-11 tion of solid waste and for maximizing the use of en-12 vironmentally efficient building materials in such 13 construction; and

14 (2) standards for an acceptable plan that satis-15 fies the requirement under paragraph (1).

16 (g) DEFINITIONS.—For purposes of this section:

(1) The term "agency" means an Executive
agency as defined under section 105 of title 5, United States Code, and any agency of the judicial
branch of Government.

(2) The term "environmentally efficient materials" means any recycled, recovered, reclaimed, or
reused material whose production, manufacture,
fabrication, and use conserves and preserves natural
resources when compared to the production, manu-

facture, fabrication, and use of comparable, more
 conventional materials.

3 (3) The term "environmentally efficient build4 ing materials" means any environmentally efficient
5 material which may be used in the construction of
6 a building or facility.

(4) The term "solid waste" means any garbage, 7 refuse, sludge from a waste treatment plant, water 8 9 supply treatment plant, or air pollution control facil-10 ity and other discarded material, including solid, liq-11 uid, semisolid, or contained gaseous material result-12 ing from industrial, commercial, mining, and agricultural operations, and from community activities, 13 14 but does not include solid or dissolved material in 15 domestic sewage, or solid or dissolved materials in 16 irrigation return flows or industrial discharges which 17 are point sources subject to permits under section 18 402 of the Federal Water Pollution Control Act (33 19 U.S.C. 1342) or source, special nuclear, or byprod-20 uct material as defined by the Atomic Energy Act of 21 1954 (42 U.S.C. 2011 et seq.).

(5) The term "construction" with respect to
any project of construction under this section,
means—

(A) the erection or building of new structures and acquisition of lands or interests therein, or the acquisition, replacement, expansion, remodeling, alteration, modernization, or extension of existing structures;

6 (B) the acquisition and installation of ini-7 tial equipment of, or required in connection with, new or newly acquired structures or the 8 expanded, remodeled, altered, modernized or ex-9 tended part of existing structures (including 10 11 trucks and other motor vehicles, and tractors, 12 cranes, and other machinery) necessary for the proper utilization and operation of the facility 13 14 after completion of the project, including pre-15 liminary planning to determine the economic and engineering feasibility and the public health 16 17 and safety aspects of the project, the engineer-18 ing, architectural, legal, fiscal, and economic in-19 vestigations and studies, and any surveys, de-20 signs, plans, working drawings, specifications, and other action necessary for the carrying out 21 22 of the project; and

23 (C) the inspection and supervision of the
24 process of carrying out the project to comple25 tion.

45

1

2

3

4

5

TITLE III—EDUCATION

2 SEC. 301. ENVIRONMENTALLY ADVANCED EDUCATION.

1

3

(a) FINDINGS.—The Congress finds the following:

4 (1) With the exception of environmental engi-5 neering curricula, environmental considerations are 6 typically not integrated into the required design 7 course work for the various engineering disciplines.

8 (2) The integration of environmental consider-9 ations into all engineering, industrial, design, and 10 other technology-oriented curricula in a timely fash-11 ion is essential to better achieving sustainable eco-12 nomic development.

(b) PURPOSE.—The purpose of this title is to encourage the National Science Foundation to provide assistance
to colleges and universities for comprehensive research
and education activities that will integrate environmental
considerations into the design, manufacturing, and production processes.

19 (c) NATIONAL SCIENCE FOUNDATION ENGINEERING 20ENVIRONMENTALLY ADVANCED EDUCATION PRO-GRAMS.—The Director of the National Science Founda-21tion shall support undergraduate and graduate activities 22 in the development of coursework materials and curricula 23 in all scientific, engineering and technical disciplines to in-24 25 corporate environmental soundness and total cost accounting principles into the corresponding curricula. In carrying
 out this section, the Director of the National Science
 Foundation shall cooperate with the Environmental Pro tection Agency and other appropriate Federal agencies
 and consult with appropriate private sector organizations,
 including the Accreditation Board for Engineering and
 Technology.

8 (d) Socially and Economically Disadvantaged9 Individuals.—

10 (1) IN GENERAL.—In carrying out this section, 11 the Director of the National Science Foundation 12 shall encourage the participation of socially dis-13 advantaged individuals and economically disadvan-14 taged individuals.

15 (2) DEFINITIONS.—For purposes of this sub-16 section:

17 (A) The term "economically disadvantaged
18 individuals" has the meaning given such term
19 in section 8(a)(6)(A) of the Small Business Act,
20 15 U.S.C. 637(a)(6)(A), and includes women.

(B) The term "socially disadvantaged individuals" has the meaning given such term in
section 8(a)(5) of the Small Business Act, 15
U.S.C. 637(a)(5), and includes women.

(e) SPECIAL NEEDS.—In carrying out the provisions
 of this section, the Director of the National Science Foun dation shall take into account any special needs of 2-year
 colleges, as applicable.

5 SEC. 302. GENERAL EDUCATION IN ENVIRONMENTAL TECH6 NOLOGIES.

7 (a) IN GENERAL.—The Director of the Office of Research and Development of the Environmental Protection 8 9 Agency, in consultation and coordination with other Fed-10 eral agencies (including the National Science Foundation) and agencies of State and local governments, shall develop 11 and support programs and related efforts to improve un-12 13 derstanding of the relationships between technology and the environment, including— 14

15 (1) information on—

16 (A) relations between economic activity
17 and the environment and opportunities for im18 provement in such relations; and

(B) systems which encompass resource extraction or introduction, transformation, consumption, recycle and disposal, and the energy
and resources consumed and the value-yielding
results; and

24 (2) any other information the Director of the25 Office of Research and Development of the Environ-

mental Protection Agency, in consultation with other
 Federal agencies (including the National Science
 Foundation) and agencies of State and local govern ments, considers appropriate.

5 (b) PROGRAM FUNCTIONS AND ACTIVITIES.—The
6 programs and efforts referred to in subsection (a) shall
7 include, at a minimum—

8 (1) the development and widest dissemination 9 practicable of model curricula, educational materials, 10 and training programs for technical college, second-11 ary, and elementary students and other interested 12 groups;

(2) the provision of information to local education agencies, State education and natural resource agencies, and others; and

16 (3) the training of education professionals in
17 the development and delivery of the environmental
18 education materials developed under this Act.

19 **TITLE IV—STANDARDS**

20 SEC. 401. PERFORMANCE STANDARDS.

(a) AUTHORIZATION.—The Secretary of Commerce,
in cooperation with the Administrator, the Secretary of
Energy, and the heads of other appropriate Federal agencies, and in consultation with non-Federal standards organizations, shall establish a program to support the clari-

fication of standards of performance for environmental
 technologies to clarify quality, performance, and substitut ability for conventional products.

4 (b) EXISTING PROGRAMS.—In developing the pro-5 gram established in subsection (a), the Secretary of Com-6 merce shall, to the maximum extent practicable, coordi-7 nate efforts under such program with existing non-Federal 8 standards activities that affect environmental tech-9 nologies.

10 (c) NON-FEDERAL PROGRAM CERTIFICATION.—The Secretary of Commerce, in cooperation with the Adminis-11 trator and the Secretary of Energy, shall establish a mech-12 13 anism for recognizing non-Federal organizations engaged in environmental standards setting and associated product 14 performance verification activities for the purpose of en-15 suring quality and enhancing consumer confidence and 16 international recognition. 17

18 (d) INTERNATIONAL HARMONIZATION.—The Sec-19 retary of Commerce shall work with domestic and inter-20 national standards organizations to insure harmonization 21 of domestic standards with international standards.

22 SEC. 402. VERIFICATION OF ENVIRONMENTAL TECH-23 NOLOGIES.

24 (a) ENVIRONMENTAL TECHNOLOGY VERIFICATION25 CENTERS.—The Administrator may enter into joint agree-

ments with State and local governments and private sector
 representatives to support Environmental Technology Ver ification Centers (in this section referred to as "Verifica tion Centers") that verify, evaluate, and disseminate infor mation on the performance and cost of environmental
 technologies.

7 (b) FUNCTIONS.—Verification Centers may, under
8 subsection (a)—

9 (1) evaluate cost and performance data for en-10 vironmental technologies;

(2) provide information that describes whether
the environmental technology evaluated and verified—

14 (A) meets the performance criteria of ap15 plicable law (including regulations issued by the
16 Administrator) under tested conditions;

17 (B) meets the performance criteria of ap18 plicable law (including regulations issued by the
19 Administrator) at comparable or lower costs;
20 and

21 (C) constitutes a significant advance with22 broad applicability.

23 (c) ADMINISTRATION.—The Administrator shall—

(1) establish procedures for soliciting applica-tions for and selecting, pursuant to criteria referred

	52
1	to in subsection (d), Verification Centers to perform
2	functions under this section;
3	(2) establish criteria for eligibility to act as a
4	Verification Center;
5	(3) certify appropriate protocols developed by
6	Verification Centers to verify the quality and credi-
7	bility of cost and performance data submitted by
8	Verification Centers;
9	(4) ensure that information regarding environ-
10	mental technologies verified and evaluated under this
11	program is disseminated through the networks re-
12	ferred to in section 214;
13	(5) ensure that fees charged by Verification
14	Centers are reasonable and include—
15	(A) lower fees for small businesses, non-
16	profit organizations, and institutions of higher
17	education; and
18	(B) lower fees for verifying environmental
19	technologies that provide source reduction; and
20	(6) consult with other Federal agencies to make
21	available the sources and expertise of Federal lab-
22	oratories through cooperative agreements with the
23	Verification Centers.
24	(d) SELECTION CRITERIA.—The Administrator, in
25	consultation with other Federal agencies, State and local

governments, and private sector organizations, shall select 1 2 Verification Centers based on the following criteria: (1) The capabilities of the applicant to provide 3 4 a thorough and credible technical and financial evaluation of environmental technologies. 5 (2) The clarity and efficiency of the proposed 6 7 procedures for the receipt and review of applications for technology verification. 8 (3) The likelihood of the continued viability of 9 the Verification Center. 10 (4) The existence of a plan for disseminating 11 nonproprietary information regarding technologies 12 13 verified by the Verification Center. (5) Other criteria that the Administrator con-14 siders appropriate. 15 (e) MERIT-BASED SELECTION PROCESS.—Verifica-16 tion Centers supported under this section shall be selected 17 only through a merit-based selection process, established 18 by the Administrator, pursuant to the criteria described 19 in subsection (d). 20

(f) FINANCIAL ASSISTANCE.—The Administrator
may provide financial assistance to a Verification Center
under this section. Such financial assistance shall—

24 (1) be for not more than 5 years; and

(2) provide not more than 30 percent of the
 cost of operating the Verification Center.

(g) DIRECT PARTNERSHIPS.—If the Administrator 3 4 determines that Verification Centers cannot adequately verify the performance of environmental technologies be-5 cause of scale or complexity, the Administrator may en-6 gage directly with private sector organizations through di-7 rect verification partnerships to verify the performance of 8 9 such technologies. The Administrator may engage in a direct verification partnership under this subsection only 10 if— 11

(1) the Administrator documents that the verification cannot be conducted at a Verification Center, or comparable commercial service, established
under this section for reasonable cost;

(2) the Federal Government provides not more
than 30 percent of the cost-share of the project; and
(3) the Administrator determines that the verification will make a significant contribution to sustainable economic development.

21 (h) JUDICIAL REVIEW.—

(1) DECISION TO LIST OR NOT LIST.—The verification or evaluation of a technology under this section shall not—

1 (A) constitute a final action by the Admin-2 istrator; and (B) be subject to judicial review. 3 (2) FAILURE TO COMPLY.—If a technology veri-4 5 fied, evaluated and listed pursuant to this section fails to comply with any applicable law (including 6 7 regulations issued by the Administrator), the verification, evaluation, or listing shall not constitute a 8 9 defense in an enforcement action or suit and shall not create a cause of action against the Environ-10 11 mental Protection Agency. 12 SEC. 403. CONSUMER CLAIMS ON ENVIRONMENTAL TECH-13 NOLOGIES. 14 The Federal Trade Commission shall— (1) conduct a study of scientific and techno-15 logical information needed for the fair evaluation of 16 17 commercial performance claims regarding environ-18 mental technologies; and 19 (2) develop a plan for close collaboration with 20 Federal agencies, including the Environmental Protection Agency, the Department of Energy, and the 21 22 Department of Commerce, that have expertise in environmental technologies to ensure the use of the 23

tion by the Federal Trade Commission in evaluating
 such claims.

3 TITLE V—INTERNATIONAL 4 PROGRAMS

5 SEC. 501. FINDINGS.

6 The Congress finds the following:

7 (1) The global market for environmental tech8 nologies, goods, and services is currently
9 \$270,000,000,000 and is estimated to grow to
10 \$500,000,000,000 by the year 2000.

(2) Such market represents a major opportunity to increase high-quality jobs in the United
States and to assist nations in implementing sustainable economic development programs.

(3) Although the United States has historically
been an international leader in the development of
environmental technologies, United States companies
have not gained a corresponding share of the international market, in part because other nations have
more extensive programs to assist in promoting the
export of environmental technologies.

22 SEC. 502. INTERNATIONAL ENVIRONMENTAL TECHNOLOGY 23 DEMONSTRATION.

(a) IN GENERAL.—The Administrator, in cooperationwith the Secretary of Commerce, the Secretary of Energy,

and the heads of other appropriate Federal agencies and
utilizing, to the maximum extent practicable, existing Federal programs, is encouraged to support programs in other
nations for the purpose of enhancing United States exports of environmental technologies and promoting the
contribution of United States environmental technologies
to international sustainable economic development.

8 (b) ACTIVITIES AND SERVICES.—Activities and serv-9 ices under subsection (a) shall include—

10 (1) providing scientific and technical data and 11 other information to the host government or organi-12 zations designated by the host government that 13 would illustrate the value of United States environ-14 mental technologies in achieving environment policy 15 goals of that nation;

16 (2) identifying United States sources of exper17 tise or technology that could assist the host nation
18 in achieving its environmental goals;

(3) providing assistance in conducting scientific
and technological environmental policy assessments
conducted by the host government to illustrate the
benefits of different options and the contributions to
be made through science and technology; and

24 (4) providing other services authorized by the25 Administrator that would carry out this section.

1 (c) COOPERATIVE ASSESSMENTS.—The Adminis-2 trator may enter into cooperative agreements with the host 3 government or organizations designated by the host gov-4 ernment to carry out the activities and services described 5 in subsection (b).

6 (d) USER FEES.—The Administrator may impose
7 fees to defray the costs of activities and services under
8 this section.

9 (e) GRANT RECEIPT.—To carry out this section, the 10 Administrator may receive unconditional grants of finan-11 cial support from the host government or nonprofit philan-12 thropic Foundations. Such grants may be accepted only 13 if they are unconditional and in no way influence the direc-14 tion of activities and services under this section.

15 (f) EVALUATION AND REPORT.—Within 2 years after the establishment of the program under this section, and 16 annually thereafter, the Administrator shall submit to the 17 Congress a report that contains an evaluation of the pro-18 gram and the effectiveness of the activities and services 19 carried out under the program with respect to each host 20 nation. The evaluation shall provide recommendations for 21 continuation, improvement, or termination of such activi-22 23 ties and services.

3 (a) ESTABLISHMENT.—The Secretary of Commerce, 4 in consultation with the Administrator and the heads of 5 other appropriate agencies and utilizing, to the maximum 6 extent practicable, existing programs of the Federal and 7 State governments, shall support activities to promote the 8 export of United States environmental technologies.

9 (b) SERVICES.—Services and activities under this 10 section may include the provision of—

(1) information on international market opportunities, including trade fairs, international environmental regulations, and applicable technical and financial assistance programs;

(2) education and training that will assist in
adapting and developing environmental technologies
and services with substantial potential for export to
major international markets; and

(3) training, in cooperation with the Administrator of the Agency for International Development,
to individuals from nations other than the United
States concerning the operation, maintenance, and
full value of United States environmental technologies and services.

25 (c) OTHER ASSISTANCE AUTHORIZED.—The Sec 26 retary of Commerce may provide technical and other as •HR 3603 IH

sistance to carry out this section. Such assistance may in clude equipment and facilities of Federal laboratories (in cluding the scientists and engineers at those laboratories).
 The Secretary shall coordinate with the heads of other
 Federal agencies to make the capabilities of the Federal
 laboratories available under this section.

7 (d) COORDINATION WITH OTHER PROGRAMS.—The Secretary of Commerce shall coordinate the activities and 8 9 services under this section with other programs of the Federal Government, including programs carried out by 10 the Environmental Protection Agency, the Department of 11 Energy, the Agency for International Development, and 12 the Overseas Private Investment Corporation, to avoid re-13 dundancy and ensure maximum use of the Federal 14 15 investment.

(e) ANNUAL REVIEW.—The Secretary of Commerce
shall annually submit to the Congress a report containing
a review of activities and services carried out under this
section.

20 SEC. 504. FINANCIAL ASSISTANCE FOR TECHNOLOGY ADAP-21 TATION TO PROMOTE EXPORTS.

(a) ESTABLISHMENT.—There is established a revolving fund to be known as the Environmental Technology
Export Revolving Fund for the purpose of providing financial assistance for the adaptation and demonstration of

United States environmental technologies to enhance ex ports to major international markets.

3 (b) FORMS OF FINANCIAL ASSISTANCE.—To carry out this section, the Secretary of Commerce may, to the 4 extent provided in appropriations Acts, use the Fund for 5 the purpose of making loans, loan guarantees, or other 6 7 forms of financial assistance to United States companies, independent research centers, institutions of higher edu-8 cation, and other organizations the Secretary considers 9 10 appropriate.

(c) PRIORITIES.—In providing financial assistance
under this section, the Secretary of Commerce shall give
priority to environmental technologies—

14 (1) that require modifications through further
15 research and development to enable commercializa16 tion in international markets;

17 (2) that have substantial potential for use in ex-18 port markets; and

19 (3) for which substantial manufacture will re-20 main in the United States.

(d) OPERATING PLAN.—Not later than January 1,
1995, the Secretary of Commerce shall submit to the Congress an operating plan to carry out this section. The plan
shall contain a description of coordination efforts with
other sources of export finance assistance, including the

Agency for International Development and the Overseas 1 Private Investment Corporation, and an evaluation of al-2 ternative approaches to carrying out this section (includ-3 4 ing priorities referred to in subsection (c)). The Secretary shall develop recommendations, as appropriate, to carry 5 out this section in the most effective and efficient manner 6 7 achievable. The recommendations shall include a description of the system of evaluation used under this sub-8 section. 9

10 (e) TERMS AND CONDITIONS FOR FINANCIAL ASSIST11 ANCE.—

12 (1) LIMITATION ON PROJECT AMOUNT.—Loans, loan guarantees, and other forms of financial assist-13 ance made under this section shall be in such form 14 and under such terms and conditions as the Sec-15 retary of Commerce may prescribe by regulation. 16 17 The amount of assistance provided under this sec-18 tion for a project may not exceed 50 percent of the 19 total eligible project costs. The term "total eligible 20 project costs" shall be defined by the Secretary of Commerce by regulation. 21

(2) LIMITATION ON TOTAL COST.—Financial
assistance under this section shall be made under
such terms and conditions as are necessary to ensure that the cost of carrying out this section shall

3 this paragraph—

1

2

4 (A) the term "cost" has the meaning given 5 such term in section 502(5) of the Federal 6 Credit Reform Act of 1990 (2 U.S.C. 661a); 7 and

8 (B) the term "credit authority" has the 9 meaning given such term in section 3(10) of the 10 Congressional Budget Act of 1974 (2 U.S.C. 11 622(10)).

12 (f) REPAYMENT.—Repayment on loans made under 13 this section and the proceeds from any other agreement 14 entered into by the Secretary of Commerce under this sec-15 tion shall be credited to the Fund. A loan or loan guaran-16 tee agreement under this section may, at the discretion 17 of the Secretary of Commerce, include a requirement—

(1) that a portion of any royalties received in
connection with a technology developed with financial assistance under this section be paid to the
United States; and

(2) in any case in which the technology is used
by the recipient of such financial assistance for the
production and sale of goods, that a payment equal
to the amount paid under paragraph (1) in connec-

tion with the technology be paid to the United
 States.

(g) INTEREST.—Interest on a loan, or portion of a 3 loan, awarded or guaranteed by the Federal Government 4 5 under this section shall be at a rate determined by the Secretary of the Treasury, at the time such loan is made, 6 to equal the then current average market yield on out-7 standing debt obligations of the United States with re-8 9 maining periods to maturity comparable to the maturity 10 of such loan, plus an additional charge of up to 1 percent applied by the Secretary of Commerce to cover expected 11 defaults and reasonable administrative costs of carrying 12 13 out this section. For purposes of this section, the term "default" shall be defined by the Secretary of Commerce 14 by regulation. 15

16 (h) MANAGEMENT OF THE FUND.—The Secretary of 17 Commerce shall manage the Fund and shall annually sub-18 mit to the Congress a report on the financial condition 19 and the results of operation of the Fund during the pre-20 ceding fiscal year.

(i) TECHNICAL ASSISTANCE.—The Secretary of Commerce shall, upon request, provide technical assistance and
services, as appropriate and needed, to awardees under
this section and shall ensure that awardees have ready access to such assistance. The Secretary may charge fees

for technical assistance and services. The Secretary may
 waive such fees on a case-by-case basis. Fees paid to the
 United States under this section shall be deposited in the
 revolving fund.

5 (j) COORDINATION WITH OTHER FEDERAL ACTIVI-6 TIES.—The Secretary of Commerce shall, to the maximum 7 extent practicable, coordinate the activities under this sec-8 tion with similar Federal activities to avoid unnecessary 9 duplication of effort.

10 (k) OUTREACH TO ECONOMICALLY DEPRESSED AREAS.—The Secretary of Commerce shall seek to ensure 11 that qualified business concerns located in areas deter-12 mined by the Secretary to have a depressed economy, or 13 a significant concentration of defense-related industries, 14 or chronically high unemployment, are notified of the 15 availability of financial assistance under this section and, 16 to the extent practicable, to encourage and facilitate the 17 participation of such qualified business concerns in activi-18 ties for which financial assistance is provided under this 19 section. 20

1	TITLE VI—FINANCIAL AND
2	REGULATORY INCENTIVES
3	SEC. 601. USE OF ENVIRONMENTAL TECHNOLOGY PROD-
4	UCTS BY THE FEDERAL GOVERNMENT.
5	(a) ESTABLISHMENT.—The President shall establish
6	a program for evaluating and approving the purchase by
7	the Federal Government of environmental technology
8	products. The President shall—
9	(1) work with the performance standards pro-
10	grams established under section 401 to ensure sub-
11	stitutability of environmental technologies for con-
12	ventional technologies for the purposes of the Fed-
13	eral Government;
14	(2) establish a priority list of technologies for
15	inclusion under the program; and
16	(3) implement a plan for the procurement of
17	environmental technologies.
18	(b) REPORT.—Within one year after the date of the
19	enactment of this Act and annually thereafter, the Presi-
20	dent shall submit to the Congress a report describing the
21	progress made in carrying out this section and plans for
22	carrying out this section for the three years immediately
23	following the year in which the report is submitted.

1 SEC. 602. STUDY OF REGULATORY INFLUENCES ON INNO-

2

VATION IN ENVIRONMENTAL TECHNOLOGIES.

3 (a) REVIEW.—The Administrator, working with 4 State regulatory agencies, shall conduct a study of current 5 environmental regulations and their effect upon innovation 6 in environmental technologies and the introduction of new 7 environmental products.

8 (b) REPORT.—The Administrator shall, within one 9 year after the date of the enactment of this Act, submit 10 to the Congress a report on the results of the study de-11 scribed in subsection (a). The report shall contain any 12 suggestions of the Administrator for actions that could be 13 taken to increase the regulatory incentives for industrial 14 use of new environmental technologies.

15SEC. 603. STUDY OF THE IMPACT OF TAX INCENTIVES ON16INNOVATION IN ENVIRONMENTAL TECH-17NOLOGIES.

The President shall study the potential for efficiently
encouraging the development and use of environmental
technologies through tax incentives. The study shall—

(1) review existing environmental and technology development tax incentives and estimate their
impact on the development and use of environmental
technologies;

25 (2) assess the potential of alternative tax incen26 tives that are considered promising for accelerating
•HR 3603 IH

the development and use of environmental tech nologies; and

3 (3) in coordination with the study of regulatory
4 effects on innovation in environmental technologies
5 established in section 602, assess the relationship
6 between existing regulations and proposed regulatory
7 reforms on the influence of existing and potential
8 tax incentives.

9 TITLE VII—AUTHORIZATION OF 10 APPROPRIATIONS

11 SEC. 701. AUTHORIZATION OF APPROPRIATIONS.

12 (a) IN GENERAL.—Except as provided in subsection (b), there is hereby authorized to be appropriated for fiscal 13 years 1995 and 1996 such sums as may be necessary to 14 15 carry out this Act and the amendments made by this Act. ENVIRONMENTAL TECHNOLOGIES DEVELOP-16 (b) MENT AND INTEGRATION PROGRAM.—There is hereby au-17 thorized to be appropriated to carry out the Environ-18 mental Technologies Development and Integration Pro-19 gram established in section 211— 20

(1) \$80,000,000 for fiscal year 1995; and

0

22 (2) \$120,000,000 for fiscal year 1996.

HR 3603 IH——2 HR 3603 IH——3

- HR 3603 IH——4 HR 3603 IH——5
- HR 3603 IH——6