

103<sup>D</sup> CONGRESS  
2<sup>D</sup> SESSION

# H. R. 4799

To promote the research and development of environmental technologies.

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IN THE HOUSE OF REPRESENTATIVES

JULY 20, 1994

Mr. BROWN of California introduced the following bill; which was referred to the Committee on Science, Space, and Technology

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## 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 1994”.

7 (b) TABLE OF CONTENTS.—The table of contents for  
8 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 Innovation Initiative

- Sec. 211. Establishment and administration of initiative.
- Sec. 212. Innovative environmental technology program.
- 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. Study of factors affecting innovation in environmental technologies.
- Sec. 217. Disclaimer.

## Subtitle C—Other Research Activities

- Sec. 221. Environmentally advanced engineering research.

## TITLE III—PERFORMANCE MEASUREMENTS

- Sec. 301. Performance measurements.
- Sec. 302. Verification of environmental technologies.
- Sec. 303. Use of certain environmental technologies by the Federal government.

## TITLE IV—DEPARTMENT OF ENERGY ENVIRONMENTAL TECHNOLOGY DEVELOPMENT

- Sec. 401. Environmental restoration and waste management technology development.
- Sec. 402. Metals recycling demonstration program.
- Sec. 403. Funding and authorization.
- Sec. 404. Coordination.

## TITLE V—AUTHORIZATION OF APPROPRIATIONS

- Sec. 501. Authorization of appropriations.
- Sec. 502. Limitation on appropriations.
- Sec. 503. Competition requirement for awards of financial assistance.

1 **SEC. 102. FINDINGS.**

2 The Congress finds the following:

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

1           (2) The research, development, and demonstra-  
2           tion of environmental technologies will enhance the  
3           economic standing of the United States and global  
4           environmental security.

5           (3) Although better designs for products and  
6           processes offer new opportunities for substantially  
7           improved environmental performance in growing do-  
8           mestic and international markets, current govern-  
9           ment regulations and market barriers do not allow  
10          these opportunities to be fully exploited.

11          (4) Although the Federal Government, research  
12          institutes, universities, and industries are conducting  
13          substantial basic environmental research and devel-  
14          opment, environmental concerns must become a  
15          more pervasive and central dimension of technology  
16          research and development.

17          (5) The coordination of Federal, State, and  
18          local activities for the research, development, and  
19          demonstration of environmental technologies will  
20          greatly enhance the effectiveness of environmental  
21          policies of the United States.

22 **SEC. 103. PURPOSES.**

23          It is the purpose of this Act—

24                (1) to improve, consistent with applicable provi-  
25                sions of law, coordination and integration of environ-

1       mental technology research and development per-  
2       formed by and across Federal agencies;

3               (2) to assist and catalyze efforts of private in-  
4       dustry, universities, nonprofit research centers, and  
5       Federal laboratories in the research, development,  
6       and demonstration of cost-effective, energy-efficient,  
7       and safe environmental technologies and, in the  
8       process, to promote the competitiveness of United  
9       States companies;

10              (3) to facilitate the dissemination of informa-  
11       tion regarding innovations in environmental tech-  
12       nologies;

13              (4) to promote the development of technical  
14       performance measurements of environmentally sound  
15       products; and

16              (5) to direct the study of policy changes that  
17       will provide for the more efficient research, develop-  
18       ment, and demonstration of environmental tech-  
19       nologies.

20       **SEC. 104. DEFINITIONS.**

21       For the purposes of this Act:

22              (1) The term “Administrator” means the Ad-  
23       ministrator of the Environmental Protection Agency.

24              (2) The term “design-for-environment” means  
25       the process of synthesis in which waste prevention

1 and the efficient management of materials during a  
2 product's life cycle are treated as design objectives,  
3 in addition to conventional attributes such as cost,  
4 performance, manufacturability, and safety.

5 (3) The term "environmental technology"  
6 means a cost-efficient technology that is primarily  
7 intended to improve the quality of the environment  
8 through pollution prevention, pollution monitoring,  
9 pollution control, pollution remediation, reuse, recy-  
10 cling, or disposal, or that is capable of cost-effec-  
11 tively offering significant environmental benefits  
12 when compared with a technology it replaces.

13 (4) The term "Federal laboratory" has the  
14 meaning given the term "laboratory" in section  
15 12(d)(2) of the Stevenson-Wydler Technology Inno-  
16 vation Act of 1980 (15 U.S.C. 3710a(d)(2)).

17 (5) The term "life-cycle assessment" means an  
18 inventory of the resource use and waste generation  
19 involved in developing a technology, including mate-  
20 rials extraction, materials conversion, transportation,  
21 energy use, end use, recycling, and disposal, and  
22 their associated costs and environmental impacts.

23 (6) The term "small business concern" means  
24 a United States company that is a small business

1 concern within the meaning given such term in the  
2 Small Business Act (15 U.S.C 631 et seq.).

3 (7) The term “sustainable economic develop-  
4 ment” means the integration of environmental and  
5 economic development concerns leading to continu-  
6 ous and long-term economic development with re-  
7 duced pollution and the more efficient use of energy  
8 and materials.

9 (8) The term “technology” means a product, a  
10 manufacturing process, a system, a service, or any  
11 other method by which individual or societal needs  
12 are met through technical activities.

13 **TITLE II—POLICY COORDINA-**  
14 **TION AND TECHNOLOGY PRO-**  
15 **GRAMS**

16 **Subtitle A—Policy Coordination**  
17 **and Program Planning**

18 **SEC. 201. COORDINATION OF ENVIRONMENTAL TECH-**  
19 **NOLOGY RESEARCH AND DEVELOPMENT.**

20 (a) INTERAGENCY COORDINATION.—The President,  
21 acting through the Director of the Office of Science and  
22 Technology Policy or other entity designated by the Presi-  
23 dent and in coordination with the heads of other Federal  
24 agencies that have substantial capabilities in the research,  
25 development, and demonstration of environmental tech-

1 nologies, shall develop an interagency strategy that is in  
2 accordance with the policies, requirements, and objectives  
3 of the applicable Federal statutes administered by those  
4 agencies and that—

5           (1) ensures, to the maximum extent practicable,  
6           the coordinated, interagency promotion of the re-  
7           search, development, and demonstration of environ-  
8           mental technologies; and

9           (2) develops priorities for Federal environ-  
10          mental technology research, development, and dem-  
11          onstration efforts, by using scientifically objective in-  
12          formation, data, and assessments of risk.

13          (b) IMPLEMENTATION.—In carrying out this section,  
14          the President, acting through the Director of the Office  
15          of Science and Technology Policy or other entity des-  
16          ignated by the President, shall—

17                (1) review current Federally funded programs,  
18                including Federal budget outlays for these programs,  
19                to determine their role in the research, development,  
20                and demonstration of environmental technologies;

21                (2) recommend the specific responsibilities of  
22                each appropriate Federal agency to achieve the pri-  
23                orities developed under this section;

24                (3) describe the recommended levels of Federal  
25                funding required for each Federal agency to carry

1 out the specific responsibilities recommended in  
2 paragraph (2);

3 (4) develop a means for ensuring, to the maxi-  
4 mum extent practicable, that the principles of sus-  
5 tainable economic development are integrated into  
6 the research, development, and technology programs  
7 of all Federal agencies;

8 (5) ensure that programs and activities estab-  
9 lished under this Act are fully coordinated with ex-  
10 isting Federal capabilities and an overall Federal  
11 strategy for the research, development, and dem-  
12 onstration of environmental technologies;

13 (6) ensure that the efforts of the Federal Gov-  
14 ernment are coordinated with the efforts of State  
15 and local governments and private and nonprofit or-  
16 ganizations promoting the research, development,  
17 and demonstration of environmental technologies;

18 (7) ensure that programs and activities estab-  
19 lished under this Act develop technologies that could  
20 assist States and regional associations of States to  
21 comply with existing environmental regulations, in-  
22 cluding air pollution regulations; and

23 (8) submit to the Congress any recommenda-  
24 tions regarding legislative or administrative action,  
25 including recommendations on the roles of Federal



1 agencies, which may be required to carry out this  
2 section.

3 (c) BUDGET COORDINATION.—The Director of the  
4 Office of Science and Technology Policy shall annually as-  
5 sess, in conjunction with other entities designated by the  
6 President and before the President submits to the Con-  
7 gress the budget for a fiscal year, the budget estimate of  
8 each relevant Federal agency for consistency with the  
9 plans, reviews, and priorities developed under this section.  
10 The Director shall make the results of the annual assess-  
11 ment available to the appropriate elements of the Execu-  
12 tive Office of the President, particularly the Office of Man-  
13 agement and Budget, for use in the preparation of such  
14 budget.

15 (d) STRATEGIC PLAN AND ANNUAL REVIEW.—The  
16 Director of the Office of Science and Technology Policy  
17 or other entity designated by the President shall submit  
18 to the Congress—

19 (1) within one year after the date of the enact-  
20 ment of this Act and periodically thereafter, a report  
21 on the strategy referred to in subsection (a) and any  
22 revisions to the strategy for executing interagency  
23 coordination of programs and activities conducted  
24 under this section, including the timely research, de-

1        velopment, and demonstration of innovative environ-  
2        mental control and remediation technologies; and

3            (2) annually a report that describes the  
4        progress made in implementing the strategy, includ-  
5        ing the programs and activities conducted under this  
6        Act, and the amendments made by this Act, in  
7        achieving the purposes of this Act.

8        (e) NON-FEDERAL PARTICIPATION.—The Director of  
9        the Office of Science and Technology Policy shall establish  
10       mechanisms to ensure the participation of non-Federal en-  
11       tities, including State and local governments, United  
12       States companies, United States industrial associations  
13       and consortia, United States institutions of higher edu-  
14       cation, United States worker organizations, United States  
15       professional associations, and United States nonprofit or-  
16       ganizations, in carrying out this section, including the de-  
17       velopment of the plans, reviews, and recommendations de-  
18       veloped under this section.

19       **SEC. 202. LIFE-CYCLE ASSESSMENTS.**

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

21            (1) Consideration of life-cycle consequences of  
22        the development of a technology can greatly assist in  
23        the achievement of more environmentally sound  
24        products, processes, and services and enhanced in-  
25        dustrial efficiency. Life-cycle assessments and other

1 design-for-environment resources can facilitate this  
2 achievement by clarifying materials flows and energy  
3 flows and by enhancing capabilities to assess these  
4 flows in the design of such products, processes, and  
5 services.

6 (2) Methods of life-cycle assessment and other  
7 design-for-environment resources are underused in  
8 both the public and private sectors, particularly as  
9 applied to sustainable economic development.

10 (3) The data necessary for meaningful life-cycle  
11 assessment and other design-for-environment re-  
12 sources are often difficult to acquire, and no system  
13 exists to make such data readily available to public  
14 and private groups.

15 (b) LIFE-CYCLE ASSESSMENT COORDINATION.—

16 (1) IN GENERAL.—As part of, and consistent  
17 with, the overall Federal environmental technology  
18 strategy established in section 201, the Director of  
19 the Office of Science and Technology Policy or other  
20 entity designated by the President shall, in collabo-  
21 ration with the heads of other appropriate Federal  
22 agencies (including the Secretary of Commerce, the  
23 Secretary of Energy, and the Secretary of Defense),  
24 coordinate Federal activities and resources that are  
25 applied to life-cycle assessment and other design-for-

1 environment resources in order to maximize the con-  
2 tribution of life-cycle assessments and other design-  
3 for-environment resources to the efficient design, de-  
4 velopment, and use of technologies, and to sustain-  
5 able economic development.

6 (2) IMPLEMENTATION.—In carrying out this  
7 subsection, the Director of the Office of Science and  
8 Technology Policy or other entity designated by the  
9 President shall—

10 (A) ensure that the life-cycle assessment  
11 and other design-for-environment resources of  
12 each Federal agency are developed and dissemi-  
13 nated in a coordinated fashion, partitioning  
14 agency responsibilities where appropriate;

15 (B) coordinate with State and local govern-  
16 ments developing life-cycle assessment and  
17 other design-for-environment resources; and

18 (C) consult with industry, professional,  
19 nonprofit, and other appropriate private-sector  
20 organizations to take into account the life-cycle  
21 assessment and other design-for-environment  
22 capabilities of the private sector in carrying out  
23 this section.

24 (3) OTHER ACTIVITIES.—In carrying out this  
25 subsection, the Director of the Office of Science and

1 Technology Policy or other entity designated by the  
2 President shall also encourage appropriate Federal  
3 agencies—

4 (A) to collect and disseminate information  
5 regarding analytic methods (and, as required,  
6 to develop such methods) that will significantly  
7 enhance the ability of United States companies  
8 and other organizations to evaluate materials  
9 extraction, materials conversion, transportation,  
10 energy use, end use, recycling, and disposal,  
11 and their associated costs and environmental  
12 impacts;

13 (B) to utilize, to the fullest extent prac-  
14 ticable, existing networks and supporting  
15 databases which provide access to publicly avail-  
16 able information that will facilitate the use of  
17 life-cycle assessments and other design-for-envi-  
18 ronment resources;

19 (C) to sponsor demonstrations for public  
20 policy and business decisionmakers of the effec-  
21 tive use of life-cycle assessment and other de-  
22 sign-for-environment data and methods de-  
23 scribed in this section; and

24 (D) to ensure that private-sector life-cycle  
25 assessment and other design-for-environment

1 capabilities are, and continue to be, fully inte-  
2 grated into activities under this section.

3 (4) LIMITATION.—Nothing in this section shall be  
4 considered to require the use of life-cycle assessment or  
5 other design-for-environment data or methods by any Fed-  
6 eral agency.

7 (c) ANNUAL REVIEW.—The Director of the Office of  
8 Science and Technology Policy or other entity designated  
9 by the President shall annually submit to the Congress  
10 a report containing an evaluation of the life-cycle assess-  
11 ment or other design-for-environment activities of the  
12 Federal Government.

13 **SEC. 203. ENVIRONMENTAL TECHNOLOGIES IN ONGOING**  
14 **PROGRAMS.**

15 (a) STEVENSON-WYDLER AMENDMENTS.—The Ste-  
16 venson-Wydler Technology Innovation Act of 1980 (15  
17 U.S.C. 3701) is amended—

18 (1) in section 2(2), by inserting “greater envi-  
19 ronmental sustainability,” after “employment oppor-  
20 tunities,”;

21 (2) in section 3(1), by inserting “for sustainable  
22 economic development” after “stimulate technology”;

23 (3) in section 4, by adding at the end the fol-  
24 lowing new paragraph:

1           “(14) ‘Sustainable economic development’  
2 means the integration of environmental and eco-  
3 nomic development concerns leading to continuous  
4 and long-term economic development with reduced  
5 pollution and the more efficient use of energy and  
6 materials.”;

7           (4) in section 6(a), by inserting “and sustain-  
8 able economic development in their regions” after  
9 “enhance the competitiveness of American busi-  
10 ness”;

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

15           (6) in section 7(a), by inserting “and sustain-  
16 able economic development” after “enhance techno-  
17 logical innovation”;

18           (7) in section 7(c)(1), by inserting “sustainable  
19 economic development,” after “employment,”;

20           (8) in section 9(a), by inserting “and sustain-  
21 able economic development” after “enhance techno-  
22 logical innovation”; and

23           (9) in section 11(c)(1), by inserting “and would  
24 enhance sustainable economic development” after  
25 “commercial applications”.

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

4 (1) in section 1(b)(1), by inserting “sustainable  
5 economic development,” after “improved product re-  
6 liability and manufacturing processes,”;

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

9 “(c) For purposes of this section, the term ‘sustain-  
10 able economic development’ means the integration of envi-  
11 ronmental and economic development concerns leading to  
12 continuous and long-term economic development with re-  
13 duced pollution and the more efficient use of energy and  
14 materials.”; and

15 (3) in section 2(b)(1), by inserting “to enhance  
16 sustainable economic development (as that term is  
17 defined in section 1(c)),” after “to improve qual-  
18 ity,”.

19 (c) TECHNICAL AMENDMENT.—Section 214 of the  
20 National Aeronautics and Space Administration Author-  
21 ization Act, Fiscal Year 1989 (42 U.S.C. 2451 note) is  
22 amended—

23 (1) by striking “102(c)” and inserting  
24 “102(d)”; and



1           (2) by striking “2451(c)” and inserting  
2           “2451(d)”.

3           (d) NASA AMENDMENTS.—The National Aero-  
4 nautics and Space Act of 1958 (42 U.S.C. 2451 note) is  
5 amended—

6           (1) in section 102(d)—

7                   (A) by redesignating paragraphs (6), (7),  
8                   (8), and (9) as paragraphs (7), (8), (9), and  
9                   (10), respectively; and

10                   (B) by inserting after paragraph (5) the  
11 following new paragraph:

12                   “(6) The making available to Federal and non-  
13 Federal entities of the United States, technologies  
14 that will enhance the sustainable economic develop-  
15 ment of the Nation.”; and

16           (2) in section 103—

17                   (A) by striking “; and” in paragraph (1)  
18 and inserting a semicolon;

19                   (B) by striking the period at the end of  
20 paragraph (2) and inserting “; and”; and

21                   (C) by adding at the end the following new  
22 paragraph:

23                   “(3) the term ‘sustainable economic develop-  
24 ment’ means the integration of environmental and  
25 economic development concerns leading to continu-

1       ous and long-term economic development with re-  
2       duced pollution and the more efficient use of energy  
3       and materials.”.

4       (e) NSF AMENDMENTS.—

5           (1) FUNCTIONS.—Section 3(a) of the National  
6       Science Foundation Act of 1950 (42 U.S.C. 1861 et  
7       seq.) is amended—

8           (A) in paragraph (6), by striking “; and”  
9       and inserting a semicolon;

10          (B) in paragraph (7), by striking the pe-  
11       riod and inserting “; and”; and

12          (C) by adding at the end the following new  
13       paragraph:

14       “(8) to foster education and research that  
15       would promote sustainable economic development  
16       nationally and internationally.”.

17          (2) DEFINITION.—Subsection (g) of section 14  
18       of such Act is amended as follows:

19           (A) By striking “(g) For purposes of this  
20       Act, the term” and inserting the following:

21       “(g) For purposes of this Act:

22           “(1) The term”.

23           (B) By adding after paragraph (1), as des-  
24       ignated by subparagraph (A) of this paragraph,  
25       the following new paragraph:

1           “(2) The term ‘sustainable economic develop-  
2           ment’ means the integration of environmental and  
3           economic development concerns leading to continu-  
4           ous and long-term economic development with re-  
5           duced pollution and the more efficient use of energy  
6           and materials.”.

7           **Subtitle B—Environmental**  
8           **Technology Innovation Initiative**

9           **SEC. 211. ESTABLISHMENT AND ADMINISTRATION OF INI-**  
10           **TIATIVE.**

11           (a) ESTABLISHMENT.—There is established an inter-  
12           agency Environmental Technologies Innovation Initiative,  
13           to be implemented as part of, and consistent with, the  
14           overall Federal environmental technology strategy estab-  
15           lished in section 201, to promote the research, develop-  
16           ment, and demonstration of technologies that will contrib-  
17           ute significantly to sustainable economic development. The  
18           Administrator shall administer the initiative in collabora-  
19           tion with the heads of other Federal agencies, including  
20           the Secretary of Commerce, the Secretary of Energy, the  
21           Secretary of Defense, the Director of the National Science  
22           Foundation, the Secretary of Agriculture, and the Sec-  
23           retary of Interior, that have substantial capabilities in ad-  
24           vanced technology research and development.

1 (b) CONDUCT OF INITIATIVE PROGRAMS AND ACTIVI-  
2 TIES.—The initiative referred to in subsection (a) shall in-  
3 clude—

4 (1) the administration and award of the Presi-  
5 dent's Total Environmental Quality Award estab-  
6 lished under section 24 of the Stevenson-Wydler  
7 Technology Innovation Act of 1980 (15 U.S.C. 3701  
8 et seq.), as added by section 213, and of the Na-  
9 tional Environmentally Sound Technology Award es-  
10 tablished under section 25 of such Act, as added by  
11 section 213;

12 (2) the conduct of the Innovative Environ-  
13 mental Technology Program described in section  
14 212, the information activities described in section  
15 214, and the environmental technology demonstra-  
16 tion program described in section 215; and

17 (3) the study provided for in section 216.

18 (c) AGREEMENTS WITH OTHER AGENCIES; ASSIST-  
19 ANCE.—

20 (1) IN GENERAL.—To carry out a section re-  
21 ferred to in subsection (b)(2), the Administrator  
22 may enter into an agreement with the head of an-  
23 other Federal agency, and enter into contracts and  
24 cooperative agreements with, and award grants to,

1 entities eligible for financial assistance under that  
2 section.

3 (2) COMPETITIVE PROCESS.—The Adminis-  
4 trator (or the head of a Federal agency under an  
5 agreement under paragraph (1)) shall select propos-  
6 als for financial assistance under a section referred  
7 to in subsection (b)(2) solely through a competitive,  
8 merit-based evaluation process.

9 (3) INTEGRATION OF INDUSTRY AND OTHER  
10 VIEWS.—The Administrator (or the head of a Fed-  
11 eral agency under an agreement under paragraph  
12 (1)) shall develop mechanisms for integrating the  
13 views of representatives of industry and nonprofit  
14 and other appropriate organizations into the process  
15 by which proposals for financial assistance under a  
16 section referred to in subsection (b)(2) are evaluated  
17 and selected.

18 (d) OTHER ASSISTANCE AUTHORIZED.—The Admin-  
19 istrator, in collaboration with the heads of other appro-  
20 priate Federal agencies that have substantial capabilities  
21 in advanced technology research and development and as  
22 appropriate, may provide an entity receiving financial as-  
23 sistance under a section referred to in subsection (b)(2)  
24 with any technical and other assistance, including any  
25 equipment and facilities of Federal laboratories (including

1 the scientists and engineers at those laboratories), nec-  
2 essary to carry out such section.

3 (e) ANNUAL INTERAGENCY PLAN AND REVIEW.—

4 The Administrator, in collaboration with the heads of  
5 other appropriate Federal agencies (including the Sec-  
6 retary of Commerce and the Secretary of Energy) and in  
7 consultation with representatives of industry, nonprofit,  
8 and other appropriate organizations, shall develop a stra-  
9 tegic plan for the programs and activities referred to in  
10 subsection (b)(2) as part of, and consistent with, the over-  
11 all Federal environmental technology strategy established  
12 in section 201 and shall report to the Congress on the  
13 performance of such programs and activities as part of  
14 the annual report described in section 201(d). Such report  
15 shall include an evaluation of—

16 (1) the success of innovations resulting from  
17 such programs and activities; and

18 (2) the nature and extent of participation of so-  
19 cially disadvantaged individuals and economically  
20 disadvantaged individuals, as such terms are defined  
21 in paragraphs (6)(A) and (5) of section 8(a) of the  
22 Small Business Act (15 U.S.C. 637(a)(6)(A),(5)),  
23 respectively, including women, including an evalua-  
24 tion of any steps taken to encourage the participa-  
25 tion of such individuals.

1 (f) ADMINISTRATION.—

2 (1) IN GENERAL.—In administering the pro-  
3 grams and activities referred to in subsection (b)(2),  
4 the Administrator shall—

5 (A) monitor the manner in which any tech-  
6 nologies developed as a result of the programs  
7 and activities are used, and report periodically  
8 to the Congress on the extent of any inter-  
9 national transfer of these technologies;

10 (B) provide for appropriate dissemination  
11 of the results of any research conducted under  
12 such program and activities; and

13 (C) take any other action the Adminis-  
14 trator considers necessary to carry out the pro-  
15 grams and activities and to avoid unnecessary  
16 duplication of effort by Federal agencies.

17 (2) APPLICABILITY OF OTHER LAW.—Para-  
18 graphs (5), (6), (7), (8), and (11) of section 28(d)  
19 of the National Institute of Standards and Tech-  
20 nology Act (15 U.S.C. 278n(d)) shall apply to the  
21 administration of the programs and activities re-  
22 ferred to in subsection (b)(2).

23 (3) PARTICIPATION OF SOCIALLY AND ECO-  
24 NOMICALLY DISADVANTAGED INDIVIDUALS.—In car-  
25 rying out the sections referred to in subsection

1 (b)(2), the Administrator shall encourage the par-  
2 ticipation of socially disadvantaged individuals and  
3 economically disadvantaged individuals, as such  
4 terms are defined in paragraphs (6)(A) and (5) of  
5 section 8(a) of the Small Business Act (15 U.S.C.  
6 637(a)(6)(A),(5)), respectively, including women.

7 (g) ECONOMICALLY DEPRESSED AREAS.—The Ad-  
8 ministrator, in collaboration with the heads of other ap-  
9 propriate Federal agencies, shall seek to ensure that enti-  
10 ties eligible for assistance under a section referred to in  
11 subsection (b)(2) and located in areas determined by the  
12 Administrator to have a depressed economy, or a signifi-  
13 cant concentration of defense-related industries, or chron-  
14 ically high unemployment, are notified of the assistance  
15 made available under that section and, to the extent prac-  
16 ticable, to encourage and facilitate the participation of  
17 such entities in activities for which assistance is provided  
18 under that section.

19 (h) LIMITATION ON CONSTRUCTION OF FACILI-  
20 TIES.—The Administrator may not provide financial as-  
21 sistance to an entity under this section for the construc-  
22 tion of facilities.

23 (i) MANAGEMENT.—The Administrator shall pre-  
24 scribe any regulations necessary to carry out each section  
25 referred to in subsection (b)(2), including regulations—



1 (1) prescribing the form, time, and manner in  
2 which proposals for financial assistance under such  
3 section shall submitted; and

4 (2) providing consideration of in-kind contribu-  
5 tions by a non-Federal Government entity participat-  
6 ing in a program or activity conducted under such  
7 section for the purpose of determining the share of  
8 the costs of participating in the program or activity  
9 that have been or are being undertaken by that en-  
10 tity.

11 **SEC. 212. INNOVATIVE ENVIRONMENTAL TECHNOLOGY**  
12 **PROGRAM.**

13 (a) ESTABLISHMENT.—The Administrator, in col-  
14 laboration with the heads of other appropriate Federal  
15 agencies (including the Secretary of Commerce, the Sec-  
16 retary of Energy, and the Secretary of Defense), shall con-  
17 duct an interagency innovative environmental technology  
18 program to develop or demonstrate advanced  
19 precommercial environmental technologies and which, to  
20 avoid redundancy and ensure efficiency, will be a part of,  
21 and consistent with, the overall Federal environmental  
22 strategy established in section 201.

23 (b) ELIGIBILITY FOR FINANCIAL ASSISTANCE.—An  
24 entity shall be eligible for financial assistance to conduct  
25 a demonstration or development project under the pro-

1 gram established under subsection (a) only if the entity  
2 is either a single United States company or a partnership  
3 which—

4 (1) includes two or more United States compa-  
5 nies; and

6 (2) may include, as determined appropriate by  
7 the Administrator, a Federal laboratory or labora-  
8 tories, United States nonprofit organizations, United  
9 States institutions of higher education, agencies of  
10 States governments, and other entities that partici-  
11 pate in the partnership by supporting the activities  
12 conducted by such companies or corporations under  
13 this section.

14 (c) CRITERIA FOR SELECTION OF PROPOSALS.—The  
15 Administrator shall give priority consideration to the fol-  
16 lowing criteria in evaluating proposals for financial assist-  
17 ance under this section:

18 (1) Contribution to the priorities established  
19 pursuant to section 201(a)(2).

20 (2) Significant improvement in environmental  
21 soundness of the production process.

22 (3) Contribution to industrial competitiveness,  
23 including new markets, reduced production costs,  
24 and enhanced global competitiveness.

1           (4) Improvement in the environment of the  
2 workplace.

3           (5) Applicability to other industrial processes.

4           (6) Improvement in technological capability to  
5 recycle complex combinations of materials.

6           (7) Innovative application of post-consumer ma-  
7 terials.

8           (8) Direct application to environmental tech-  
9 nologies needed for United States business and in-  
10 dustry.

11          (9) Other criteria established by the Adminis-  
12 trator.

13          (d) AWARD CONDITIONS.—Financial assistance pro-  
14 vided under this section shall be subject to the following  
15 conditions:

16           (1) Such assistance may be made for not more  
17 than three years for single United States companies  
18 and not more than five years for partnerships.

19           (2) Except as provided in paragraph (3), the  
20 Federal Government may provide financial assist-  
21 ance to a partnership under this section in an  
22 amount that is not more than a minority share of  
23 the cost of the project conducted by the partnership.

1           (3) The Federal share of the cost of a project  
2           conducted by a partnership under this section may  
3           exceed the limitation described in paragraph (2) if—

4                   (A) the partnership is composed entirely of  
5                   small business concerns; or

6                   (B) the Administrator determines that it  
7                   would be appropriate under the circumstances  
8                   and would serve the purpose of the program to  
9                   provide more than a minority cost-share of the  
10                  project conducted by the partnership.

11          (4) The Administrator has determined that—

12                   (A) an applicant for any such assistance  
13                   has made reasonable efforts to obtain non-Fed-  
14                   eral funding for the Federal cost share sought  
15                   to be received under this section; and

16                   (B) such non-Federal funding could not be  
17                   reasonably obtained.

18          (5) Each project under this section shall be car-  
19          ried out under such terms and conditions as the Ad-  
20          ministrator shall require to ensure the protection of  
21          human health and the environment.

22          (e) EVALUATION.—As part of the annual evaluation  
23          referred to in section 211(e), the Administrator shall con-  
24          duct an evaluation of—

1           (1) the extent to which technologies developed  
2 pursuant to the program established under sub-  
3 section (a) are used;

4           (2) the contribution of such technologies to re-  
5 duced pollution and the more efficient use of energy  
6 and materials; and

7           (3) the contribution of such technologies to eco-  
8 nomic development.

9           (f) RECOUPMENT.—

10           (1) IN GENERAL.—Not later than 180 days  
11 after the date of the enactment of this Act, the Ad-  
12 ministrator shall establish procedures and criteria  
13 for recoupment in connection with any project, for  
14 which financial assistance is provided under this sec-  
15 tion, which has led to the development of a product  
16 or process which is marketed or used.

17           (2) REQUIREMENT AS CONDITION FOR  
18 AWARD.—

19           (A) IN GENERAL.—Except as provided in  
20 subparagraph (B), such recoupment shall be re-  
21 quired as a condition for the provision of finan-  
22 cial assistance under this section, shall be pro-  
23 portional to the Federal share of the cost of the  
24 project, and shall be derived from the proceeds

1 of royalties or licensing fees received in connec-  
2 tion with such product or process.

3 (B) EXCEPTION.—In the case of a product  
4 or process which is used by the recipient of fi-  
5 nancial assistance under this section for the  
6 production and sale of its own products or proc-  
7 esses, the recoupment shall consist of a pay-  
8 ment equivalent to the payment which would be  
9 made under subparagraph (A).

10 (3) WAIVER.—The Administrator may at any  
11 time waive or defer all or some of the recoupment  
12 requirements of this subsection as necessary, de-  
13 pending on—

14 (A) the commercial competitiveness of the  
15 entity or entities developing or using the prod-  
16 uct or process;

17 (B) the profitability of the project; and

18 (C) the commercial viability of the product  
19 or process used.

20 **SEC. 213. PRESIDENT'S TOTAL ENVIRONMENTAL QUALITY**  
21 **AWARD AND THE NATIONAL ENVIRON-**  
22 **MENTALLY SOUND TECHNOLOGY AWARD.**

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

24 (1) Award programs such as the Malcolm  
25 Baldrige National Quality Award Program have

1 made substantial contributions to private enterprise  
2 by providing a framework upon which organizations  
3 can improve their operations and by focusing on is-  
4 sues important to their competitiveness.

5 (2) A President's Total Environmental Quality  
6 Award Program modeled on the Malcolm Baldrige  
7 National Quality Award Program would contribute  
8 to environmental quality and sustainable economic  
9 development by—

10 (A) helping to stimulate United States  
11 companies to research, develop, and dem-  
12 onstrate environmental technologies;

13 (B) recognizing the achievements of such  
14 companies which successfully research, develop,  
15 and demonstrate environmental technologies;  
16 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 research, development, and dem-  
21 onstration of 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-

1 gram under which awards are given to recognize the suc-  
2 cessful research, development, and demonstration of envi-  
3 ronmental technologies, and information is disseminated  
4 about such success.

5 (c) ESTABLISHMENT OF AWARDS.—The Stevenson-  
6 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 Environ-  
16 mental Quality Award’.

17 “(c) AWARD SELECTION PROCESS.—The Secretary,  
18 in collaboration with the Secretary of Energy, the Admin-  
19 istrator of the Environmental Protection Agency, and the  
20 Secretary of Defense, shall establish a process for the ac-  
21 ceptance and evaluation of Award applicants. The Sec-  
22 retary shall, to the extent practicable, refer to the proce-  
23 dures used in the administration of the Malcolm Baldrige  
24 National Quality Award, including the definition of award  
25 categories, the delegation of responsibilities, and provi-



1 sions for publicity, evaluation feed-back, and information  
2 transfer, as a model for the President's Total Environ-  
3 mental Quality Award.

4 “(d) PRESENTATION OF AWARD.—

5 “(1) RECOMMENDATIONS BY SECRETARY.—The  
6 Secretary shall submit to the President, and make  
7 available to the public, the recommendations of the  
8 Secretary for the selection of Award applicants.

9 “(2) SELECTION BY THE PRESIDENT.—On the  
10 basis of recommendations received under paragraph  
11 (1), the President shall periodically select for receipt  
12 of the Award United States companies and other or-  
13 ganizations which in the judgment of the President  
14 have substantially benefited the environmental, eco-  
15 nomic, and social well-being of the United States  
16 through the research, development, and demonstra-  
17 tion of environmental technologies and the effective  
18 integration of environmental concerns into its oper-  
19 ations and management, and which as a consequence  
20 are deserving of special recognition.

21 “(3) PRESENTATION CEREMONY.—The Presi-  
22 dent or the Vice President shall present the Award  
23 to recipients selected under paragraph (2) with such  
24 ceremony as the President or the Vice President  
25 considers to be appropriate.

1       “(e) LIMITATION.—The information gathered in eval-  
2 uating Award applications may be used only for the eval-  
3 uation of such applications and for publicity by winners  
4 of the Award. Such information may not be used for regu-  
5 latory or compliance purposes.

6       “(f) EVALUATION CRITERIA.—Criteria for evaluating  
7 Award applications shall include the following:

8           “(1) The effectiveness of the organization’s de-  
9 velopment and demonstration of environmental tech-  
10 nologies, as well as the organization’s provision for  
11 environmental technologies in its future plans.

12           “(2) The effectiveness of the integration of en-  
13 vironmental concerns into the operations and man-  
14 agement of the organization.

15           “(3) The effectiveness of energy and materials  
16 use from the perspective of the life-cycle of the pro-  
17 duction, use, recycle, and disposal of a product.

18           “(4) The effective use of an integrated ap-  
19 proach to pollution prevention and control that con-  
20 sideres all environmental media (liquid, solid, gase-  
21 ous).

22           “(5) The overall environmental performance of  
23 the organization, including environmental compli-  
24 ance.

1       “(g) FUNDING.—The Secretary may seek and accept  
2 gifts from public and private sources (and may, subject  
3 to annual appropriations, use such gifts) to carry out this  
4 section. The Secretary shall annually make available to the  
5 public a list of any such gifts and the sources of the gifts.  
6 The Secretary may provide for the imposition of a fee  
7 upon the organizations applying for the Award.

8       “(h) REPORT.—Not later than 3 years after the date  
9 of the enactment of the Environmental Technologies Act  
10 of 1994 and biennially thereafter, the Secretary shall sub-  
11 mit to the President and the Congress a report on the  
12 progress made in carrying out this section, including a re-  
13 port on any indications that the Award has influenced the  
14 practices of United States companies and other organiza-  
15 tions. The report shall include any recommendations of  
16 the Secretary for any modifications of the Award the Sec-  
17 retary considers necessary.

18 **“SEC. 25. NATIONAL ENVIRONMENTALLY SOUND TECH-**  
19 **NOLOGY AWARD.**

20       “(a) ESTABLISHMENT.—There is established a Na-  
21 tional Environmentally Sound Technology Award for the  
22 purpose of awarding individuals who have pioneered the  
23 development and use of highly innovative environmental  
24 technologies within the meaning of section 104(3) of the  
25 Environmental Technologies Act of 1994.

1       “(b) ADMINISTRATION.—Using the authority and  
2 procedures established in section 24 and subject to the  
3 conditions described in this section, the Secretary, in col-  
4 laboration with the Administrator of the Environmental  
5 Protection Agency and the Secretary of Energy, shall re-  
6 ceive and evaluate applications for the National Environ-  
7 mentally Sound Technology Award and provide for presen-  
8 tation of such Award.

9       “(c) QUALIFIED TECHNOLOGIES.—Technologies that  
10 qualify for such Award may include the following:

11           “(1) Manufacturing technologies.

12           “(2) Industrial or consumer products.

13           “(3) Consumer services.

14           “(4) Recycling technologies.

15           “(5) Pollution monitoring and control tech-  
16 nologies.

17           “(6) Pollution remediation technologies.

18           “(7) Other technologies as appropriate.

19       “(d) QUALIFIED APPLICANTS.—Any citizen or per-  
20 manent resident of the United States may qualify for such  
21 Award. Any such individual who is employed by or other-  
22 wise works for a business, Federal laboratory, or other or-  
23 ganization may qualify for such Award only if the individ-  
24 ual was substantially involved in the invention or innova-  
25 tion for which such Award is presented.

1       “(e) LIMITATION.—Not more than five such Awards  
2 may be presented annually.

3       “(f) REPORT.—Not later than 2 years after the date  
4 of the enactment of the Environmental Technologies Act  
5 of 1994 and biennially thereafter, the Secretary shall sub-  
6 mit to the Congress a report on the progress made in car-  
7 rying out this section. The report shall contain an evalua-  
8 tion of the performance of such Award, including an as-  
9 sessment of the extent to which the public recognizes such  
10 Award and such Award encourages innovation of environ-  
11 mental technologies.”.

12 **SEC. 214. INCORPORATION OF INFORMATION ON ENVIRON-**  
13 **MENTAL TECHNOLOGIES INTO EXISTING**  
14 **NETWORKS.**

15       (a) IN GENERAL.—Not later than one year after the  
16 date of the enactment of this Act, the Administrator,  
17 through the Office of Research and Development of the  
18 Environmental Protection Agency and in collaboration  
19 with the Under Secretary for Technology of the Depart-  
20 ment of Commerce and the heads of any other appropriate  
21 Federal agencies, shall, to the maximum extent prac-  
22 ticable, use existing information network capabilities of  
23 the Federal Government as part of, and consistent with,  
24 the overall Federal environmental technology strategy es-  
25 tablished in section 201 to provide coordinated access to

1 data on environmental technologies or protocols developed,  
2 tested, verified, or certified under programs established by  
3 this Act, and by other appropriate Federal and non-Fed-  
4 eral sources. Such data shall include—

5 (1) information on—

6 (A) activities carried out under this Act  
7 and the amendments made by this Act;

8 (B) performance standards regarding envi-  
9 ronmental technologies;

10 (C) significant international developments  
11 in environmental technologies, fully coordinat-  
12 ing with other international technology informa-  
13 tion programs of the Federal Government; and

14 (D) cost-effectiveness and performance of  
15 environmental technologies; and

16 (2) other information determined by the Admin-  
17 istrator to be of substantial value in promoting the  
18 research, development, and demonstration of envi-  
19 ronmental technologies.

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

23 (1) use existing public and private sector infor-  
24 mation providers and carriers; and

1           (2) coordinate with the heads of other appro-  
2           priate Federal agencies to make data described in  
3           subsection (a) accessible through appropriate  
4           database systems of those Federal agencies.

5           (c) OUTREACH.—The Administrator, through the Of-  
6           fice of Research and Development of the Environmental  
7           Protection Agency and in collaboration with the Under  
8           Secretary for Technology of the Department of Commerce  
9           and the heads of any other appropriate Federal agencies,  
10          shall conduct outreach efforts to advertise, deliver, and  
11          disseminate the information made available pursuant to  
12          subsection (a). As part of such efforts, the Administrator  
13          shall consult with United States industrial associations  
14          and take appropriate action to ensure access to such infor-  
15          mation by industrial assistance organizations and pro-  
16          grams supported by a State or local government, a non-  
17          profit organization in which a State or local government  
18          is a member, an institution of higher education designated  
19          by a State or local government, a manufacturing extension  
20          and outreach service or regional technical assistance serv-  
21          ice approved by the Federal Government, or a Federal lab-  
22          oratory.

23          (d) EVALUATION AND REPORT.—As part of the an-  
24          nual evaluation referred to in section 211(e), the Adminis-

1 trator shall conduct an evaluation of the extent to which  
2 the data provided pursuant to this section are used.

3 **SEC. 215. USE OF FEDERAL FACILITIES FOR ENVIRON-**  
4 **MENTAL TECHNOLOGY DEMONSTRATION.**

5 (a) ESTABLISHMENT.—The Administrator shall es-  
6 tablish a program, in collaboration with the heads of ap-  
7 propriate Federal agencies (including the Secretary of En-  
8 ergy, the Secretary of Commerce, and the Secretary of De-  
9 fense) as part of, and consistent with, the overall Federal  
10 environmental technology strategy established in section  
11 201, to demonstrate the performance of environmental  
12 technologies at Federal laboratories and other Federal fa-  
13 cilities.

14 (b) QUALIFYING TECHNOLOGY DEMONSTRATION  
15 PROJECTS.—Technologies that qualify for demonstration  
16 under such program include—

17 (1) environmental technologies that can be ap-  
18 plied to a major pollution control or remediation  
19 need at a Federal laboratory or other Federal facil-  
20 ity;

21 (2) environmental technologies the development  
22 of which would be significantly advanced by unique  
23 facilities or capabilities of a Federal laboratory or  
24 other Federal facility; and



1           (3) other environmental technologies that have  
2           significant potential as an environmental technology  
3           that will contribute to sustainable economic develop-  
4           ment or that will make a significant contribution to  
5           the cleanup of communities significantly affected by  
6           pollution.

7           (c) ADMINISTRATION.—As part of the program estab-  
8           lished under this section, the Administrator—

9           (1) may enter into a cooperative agreement  
10          with any other Federal agency to make available, as  
11          appropriate, any expertise, site, or facility under the  
12          jurisdiction of such agency to an eligible entity  
13          under subsection (d) for the purpose of demonstrat-  
14          ing the performance of an environmental technology;

15          (2) shall establish application procedures for an  
16          eligible entity under subsection (d) to apply to dem-  
17          onstrate an environmental technology at an available  
18          site or facility, including—

19                (A) provisions for sharing the cost of dem-  
20                onstrating the technology with an applicant  
21                that limit the Federal share of the cost to not  
22                more than 50 percent of the total cost of dem-  
23                onstrating the technology; and

24                (B) provisions that provide special consid-  
25                eration of the needs of small business concerns;

1           (3) shall establish criteria for verification of the  
2 efficacy of demonstrated environmental technologies;

3           (4) shall establish specific procedures for the  
4 management and oversight of demonstration activi-  
5 ties conducted under this section;

6           (5) shall, pursuant to section 214, in consulta-  
7 tion and collaboration with other Federal agencies,  
8 and consistent with the Federal environmental tech-  
9 nology strategy established in section 201, make  
10 available for entities eligible under subsection (d) in-  
11 formation regarding—

12           (A) the facilities and expertise available at  
13 Federal laboratories that would be valuable to  
14 the demonstration of environmental tech-  
15 nologies; and

16           (B) sites at Federal laboratories or other  
17 Federal facilities potentially available for dem-  
18 onstrating environmental technologies, charac-  
19 terized by specific site characteristics, including  
20 site geology and site contaminants where appro-  
21 priate;

22           (6) shall document the performance and cost  
23 characteristics of each environmental technology  
24 demonstrated pursuant to this section; and

1           (7) shall list and disseminate, pursuant to sec-  
2           tion 214, nonproprietary information regarding the  
3           performance and cost characteristics of the environ-  
4           mental technologies demonstrated pursuant to this  
5           section.

6           (d) ENTITIES ELIGIBLE FOR PARTICIPATION.—Enti-  
7           ties eligible to carry out a demonstration project as part  
8           of the program established under subsection (a) are Unit-  
9           ed States companies (including small business concerns),  
10          United States nonprofit organizations, United States in-  
11          stitutions of higher education, and other entities that the  
12          Administrator considers appropriate.

13          (e) PROGRAM EVALUATION AND REPORTING.—In the  
14          report required by section 211(e), the Administrator shall  
15          evaluate the performance of the program established  
16          under this section, including an evaluation and statement  
17          of—

18                (1) the number of environmental technologies  
19                demonstrated and the type of problems addressed;

20                (2) the Federal and non-Federal financial re-  
21                sources committed to the program; and

22                (3) the extent to which technologies dem-  
23                onstrated pursuant to this section are used.

24          (f) SAVINGS PROVISION.—Nothing in this section  
25          shall be construed to supersede any other provision of law

1 that provides authority to a Federal agency to dem-  
2 onstrate environmental technologies. Technologies eligible  
3 for demonstration under this section that are also eligible  
4 for demonstration at sites under section 311(b) of the  
5 Comprehensive Environmental Response, Compensation,  
6 and Liability Act of 1980 (42 U.S.C. 9660(b)) shall be  
7 subject to the limitations and requirements of that section.  
8 Demonstration projects and activities under this section  
9 shall not alter or interfere with the conduct or expeditious  
10 completion of response actions at facilities proposed for  
11 or listed on the National Priorities List.

12 **SEC. 216. STUDY OF FACTORS AFFECTING INNOVATION IN**  
13 **ENVIRONMENTAL TECHNOLOGIES.**

14 (a) STUDY.—The Administrator shall enter into an  
15 agreement with the National Research Council to conduct  
16 a study of the influences on technological innovation in  
17 environmental technologies of economic, governmental,  
18 competitive, financial, and other incentives and barriers.

19 (b) REPORT.—The Administrator shall include in the  
20 agreement referred to in subsection (a) a requirement that  
21 the National Research Council complete a report describ-  
22 ing the results of the study referred to in such subsection  
23 not later than two years after the date of the enactment  
24 of this Act. The report shall identify specific incentives  
25 for and barriers to technological innovation and describe

1 the reasons for the positive or negative influences identi-  
2 fied. The Administrator shall submit the report to the  
3 Congress within 30 days after receiving the report from  
4 the National Research Council. Nothing in this section  
5 may be construed as authorizing the reprogramming of  
6 funds for such an agreement.

7 **SEC. 217. DISCLAIMER.**

8 Nothing in this Act, or the amendments made by this  
9 Act, shall be construed by the Administrator or the Sec-  
10 retary of Energy, or any officer or employee of the Envi-  
11 ronmental Protection Agency or the Department of En-  
12 ergy, or by any court as altering, affecting, supplanting,  
13 modifying, or changing, directly or indirectly, any law  
14 which on the day before the date of the enactment of this  
15 Act referred to, and provided authorities or responsibilities  
16 for, or was administered by, the Environmental Protection  
17 Agency or the Department of Energy or the Administrator  
18 of the Environmental Protection Agency or the Secretary  
19 of Energy.

20 **Subtitle C—Other Research**  
21 **Activities**

22 **SEC. 221. ENVIRONMENTALLY ADVANCED ENGINEERING**  
23 **RESEARCH.**

24 (a) IN GENERAL.—The Director of the National  
25 Science Foundation shall take appropriate actions to sup-

1 port research activities that will advance the integration  
2 of engineering practices and environmental protection in  
3 the development of advanced technologies.

4 (b) INTERAGENCY COLLABORATION.—The Director  
5 of the National Science Foundation shall collaborate with  
6 the heads of other appropriate Federal agencies, including  
7 the Administrator, in carrying out this section.

8 (c) INTEGRATION OF INFORMATION.—The Director  
9 of the National Science Foundation shall, to the maximum  
10 extent practicable, provide for the dissemination of infor-  
11 mation developed as a result of the research activities re-  
12 ferred to in subsection (a) through education activities of  
13 the Foundation and through the information dissemina-  
14 tion activities developed pursuant to section 214.

## 15 **TITLE III—PERFORMANCE** 16 **MEASUREMENTS**

### 17 **SEC. 301. PERFORMANCE MEASUREMENTS.**

18 (a) AUTHORIZATION.—The Secretary of Commerce,  
19 through the Director of the National Institute of Stand-  
20 ards and Technology, in collaboration with the Adminis-  
21 trator and the heads of other appropriate Federal agen-  
22 cies, in consultation with non-Federal standards organiza-  
23 tions, and as part of, and consistent with, the overall Fed-  
24 eral environmental technology strategy established in sec-

1 tion 201, shall establish a program to support the clari-  
2 fication of measurements of performance—

3           (1) for environmental technologies (not includ-  
4 ing technologies primarily intended to improve the  
5 quality of the environment through pollution control,  
6 pollution remediation, pollution monitoring, and dis-  
7 posal), to clarify performance and substitutability  
8 for conventional technologies and for the fair evalua-  
9 tion of performance claims regarding such environ-  
10 mental technologies; and

11           (2) to develop appropriate standard reference  
12 materials required to implement paragraph (1).

13       (b) EXISTING NON-FEDERAL PROGRAMS.—In devel-  
14 oping the program established in subsection (a), the Direc-  
15 tor of the National Institute of Standards and Technology  
16 shall, to the maximum extent practicable, coordinate ef-  
17 forts under such program with existing non-Federal stand-  
18 ards activities that affect the environmental technologies  
19 covered by subsection (a)(1).

20       (c) COORDINATION WITH OTHER FEDERAL AGEN-  
21 CIES.—The Secretary of Commerce, through the Director  
22 of the National Institute of Standards and Technology,  
23 shall coordinate with the heads of other appropriate Fed-  
24 eral agencies to ensure, to the maximum extent prac-  
25 ticable, the use of the best available scientific and tech-

1 nical information in the evaluation of environmental per-  
2 formance claims by such agencies.

3 (d) GLOSSARY OF TERMS.—The Secretary of Com-  
4 merce, through the Director of the National Institute of  
5 Standards and Technology, shall work with the heads of  
6 appropriate Federal agencies and private-sector standards  
7 organizations to facilitate the development and mainte-  
8 nance of a glossary of standard definitions of terms used  
9 in the evaluation of environmental performance claims.

10 (e) INTERNATIONAL HARMONIZATION.—The Sec-  
11 retary of Commerce, through the Director of the National  
12 Institute of Standards and Technology, shall work with  
13 domestic and international standards organizations to en-  
14 sure harmonization of domestic performance measure-  
15 ments with international performance measurements con-  
16 sistent with applicable Federal and State laws.

17 **SEC. 302. VERIFICATION OF ENVIRONMENTAL TECH-**  
18 **NOLOGIES.**

19 (a) DESIGNATION OF ENTITIES TO PERFORM ENVI-  
20 RONMENTAL TECHNOLOGY VERIFICATION.—The Admin-  
21 istrator may, in accordance with this section and as part  
22 of, and consistent with, the overall Federal environmental  
23 technology strategy developed in section 201, designate  
24 entities to perform the functions described in paragraphs  
25 (1) through (3) of subsection (b). The Administrator may



1 enter into joint agreements with Federal agencies, State  
2 and local governments, and nonprofit, private-sector rep-  
3 resentatives to support entities designated by the Adminis-  
4 trator under this section.

5 (b) FUNCTIONS.—Each entity designated under sub-  
6 section (a)—

7 (1) shall verify, evaluate, and, to the maximum  
8 extent practicable, certify the performance, cost-ef-  
9 fectiveness, and ecological benefits of environmental  
10 technologies;

11 (2) shall disseminate information on the charac-  
12 teristics referred to in paragraph (1), including in-  
13 formation that describes whether each environmental  
14 technology evaluated and verified—

15 (A) meets the performance criteria of ap-  
16 plicable law (including regulations issued by the  
17 Administrator) under tested conditions at com-  
18 parable or lower costs than other existing envi-  
19 ronmental technologies; and

20 (B) constitutes a significant advance in the  
21 development of environmental technologies with  
22 broad applicability;

23 (3) shall submit to the Administrator data and  
24 other information compiled by the entity with re-

1 spect to each environmental technology verified and  
2 evaluated by the entity under this section; and

3 (4) may use support provided under this section  
4 to develop technologies necessary for effective ver-  
5 ification and evaluation under paragraph (1) and  
6 may charge appropriate fees for such verification  
7 and evaluation.

8 (c) REVIEW BY ADMINISTRATOR.—After receiving  
9 data and other information from an entity designated  
10 under subsection (a) with respect to an environmental  
11 technology under subsection (b)(1), the Administrator  
12 shall conduct appropriate review of the data, other infor-  
13 mation, and protocols developed by such entity with re-  
14 spect to such technology.

15 (d) ADMINISTRATION.—In carrying out this section,  
16 the Administrator shall—

17 (1) by rule establish competitive procedures for  
18 soliciting applications for and selecting, pursuant to  
19 criteria referred to in subsection (e), entities to per-  
20 form functions described in subsection (b) and, as  
21 appropriate, designate model entities;

22 (2) by rule establish eligibility criteria for enti-  
23 ties to be designated under this section;

24 (3) in collaboration with the heads of other ap-  
25 propriate Federal agencies, including the Director of

1 the National Institute of Standards and Technology,  
2 certify, and as appropriate, develop common proto-  
3 cols to evaluate the cost and performance of environ-  
4 mental technologies;

5 (4) make generally available through guidance  
6 manuals or other appropriate methods information  
7 regarding testing protocols for environmental tech-  
8 nologies and establish a regular process for approv-  
9 ing and updating such protocols;

10 (5) ensure that information regarding environ-  
11 mental technologies verified and evaluated under this  
12 program is disseminated pursuant to section 214;

13 (6) develop mechanisms to facilitate the ver-  
14 ification of—

15 (A) environmental technologies developed  
16 or demonstrated by small business concerns,  
17 nonprofit organizations, and United States in-  
18 stitutions of higher education; and

19 (B) environmental technologies that pro-  
20 vide source reduction; and

21 (7) consult with the heads of other Federal  
22 agencies to make available, through cooperative  
23 agreements with the entities designated under this  
24 section, sources and expertise of Federal laboratories

1 for use by such entities in performing the functions  
2 described in subsection (b).

3 (e) SELECTION CRITERIA.—The Administrator, in  
4 consultation with the heads of other Federal agencies,  
5 State and local governments, and private sector organiza-  
6 tions, shall select entities under this section based on the  
7 following criteria:

8 (1) The capabilities of the applicant to provide  
9 a thorough and credible technical and financial eval-  
10 uation of environmental technologies.

11 (2) The clarity and efficiency of the proposed  
12 procedures for the receipt and review of applications  
13 for technology verification.

14 (3) The likelihood of the continued viability of  
15 the entity.

16 (4) The existence of a plan for disseminating  
17 nonproprietary information regarding technologies  
18 verified by the entity.

19 (5) Other criteria that the Administrator con-  
20 siders appropriate.

21 (f) MERIT-BASED SELECTION PROCESS.—Entities  
22 supported under this section shall be selected only through  
23 a merit-based selection process, established by the Admin-  
24 istrator, pursuant to the criteria described in subsection  
25 (e).

1 (g) AUTHORITY OF ADMINISTRATOR.—The Adminis-  
2 trator may, consistent with applicable provisions of law  
3 and this section, enter into cooperative agreements and  
4 contracts to carry out this section.

5 (h) DIRECT VERIFICATION.—If the Administrator  
6 determines that entities designated under this section can-  
7 not adequately verify the performance of environmental  
8 technologies because of scale or complexity, the Adminis-  
9 trator may, consistent with applicable provisions of law  
10 and this section, enter into direct agreements to verify the  
11 performance of such technologies.

12 (i) REVIEW.—

13 (1) IN GENERAL.—Any action by the Adminis-  
14 trator to verify or evaluate a technology (or to re-  
15 view a verification or evaluation) under this section  
16 shall not constitute a final action by the Adminis-  
17 trator and shall not be subject to judicial review.

18 (2) FAILURE TO COMPLY.—If a technology veri-  
19 fied, evaluated, or reviewed pursuant to this section  
20 fails to comply with any applicable law (including  
21 regulations issued by the Administrator), the ver-  
22 ification, evaluation, or confirmation shall not con-  
23 stitute a defense in an enforcement action or suit  
24 and shall not create a cause of action against the  
25 Environmental Protection Agency.



1 performance measurements for environmental technologies as  
2 may have been developed by the Secretary of Commerce  
3 pursuant to section 301(a).

4 (b) REPORT.—Within one year after the date of the  
5 enactment of this Act and annually thereafter, the Presi-  
6 dent shall submit to the Congress a report describing the  
7 progress made in carrying out this section and plans for  
8 carrying out this section for the three years immediately  
9 following the year in which the report is submitted.

10 **TITLE IV—DEPARTMENT OF EN-**  
11 **ERGY ENVIRONMENTAL**  
12 **TECHNOLOGY DEVELOPMENT**

13 **SEC. 401. ENVIRONMENTAL RESTORATION AND WASTE**  
14 **MANAGEMENT TECHNOLOGY DEVELOPMENT.**

15 (a) PROGRAM.—The Secretary of Energy (in this title  
16 referred to as the “Secretary”) shall conduct programs of  
17 research, development, and demonstration on—

18 (1) new and improved technologies for environ-  
19 mental restoration and waste management (includ-  
20 ing waste minimization);

21 (2) training for environmental technicians, engi-  
22 neers, and scientists; and

23 (3) technologies for reducing worker exposure  
24 to radioactivity in association with site remediation.

1 In carrying out this section, the Secretary shall appro-  
2 priately consider the strategic plan submitted under sec-  
3 tion 201.

4 (b) IMPLEMENTATION AUTHORITY.—In implement-  
5 ing this section, the Secretary may award grants to, and  
6 enter into contracts, cooperative agreements, and other  
7 appropriate arrangements with institutions of higher edu-  
8 cation, industry, the National Laboratories, and other  
9 Federal agencies.

10 (c) COORDINATION WITH INITIATIVE.—The Sec-  
11 retary shall ensure that the activities conducted pursuant  
12 to this section are appropriately coordinated with the ac-  
13 tivities conducted pursuant to the Environmental Tech-  
14 nologies Innovation Initiative established under section  
15 211.

16 (d) COORDINATION WITH CERTAIN OTHER ACTIVI-  
17 TIES.—The Secretary shall coordinate activities under this  
18 section with activities conducted by the Secretary of Labor  
19 under the new technology program referred to in section  
20 126(b)(9) of the Superfund Amendment and Reauthoriza-  
21 tion Act of 1986 and by the hazardous substance research  
22 development and demonstration centers established pursu-  
23 ant to subsections (l) and (o) of section 118 of such Act.  
24 Nothing in this section may be construed to affect the obli-



1 gation of the Secretary of Energy to comply with section  
2 126 of such Act.

3 **SEC. 402. METALS RECYCLING DEMONSTRATION PROGRAM.**

4 (a) ESTABLISHMENT.—The Secretary shall establish  
5 a program to demonstrate the technological and economic  
6 feasibility of recycling and reusing radioactively  
7 uncontaminated and decontaminated metals and equip-  
8 ment, and of other waste minimization techniques. Under  
9 the program, the Secretary shall analyze the extent to  
10 which sufficient private sector commitment to provide de-  
11 contamination services and to purchase uncontaminated  
12 and decontaminated metals and equipment either exists  
13 or can be generated to support such a program of recy-  
14 cling and reuse.

15 (b) SCOPE.—The demonstration program established  
16 under subsection (a) shall provide for the recycling and  
17 reuse of the metals and equipment at a minimum of 3  
18 National Laboratories or former nuclear weapons produc-  
19 tion facilities, and shall be of sufficient scope, and shall  
20 include an appropriate variety of materials, to dem-  
21 onstrate the feasibility of recycling and reusing radio-  
22 actively uncontaminated and decontaminated metals and  
23 equipment at all National Laboratories and former nu-  
24 clear weapons production facilities. Such demonstration  
25 program shall be carried out for a period of 3 years.

1           (c) DECONTAMINATION TECHNOLOGIES.—In the  
2 course of carrying out the demonstration program, the  
3 Secretary shall seek to promote the development of decon-  
4 tamination technologies.

5           (d) IMPLEMENTATION AUTHORITY.—In implement-  
6 ing this section, the Secretary may award grants to, and  
7 enter into contracts, cooperative agreements, and other  
8 appropriate arrangements with institutions of higher edu-  
9 cation, industry, the National Laboratories, and other  
10 Federal agencies.

11          (e) WASTE STORAGE CONTAINERS.—As part of the  
12 demonstration program, the Secretary shall seek to dem-  
13 onstrate the technological and economic feasibility of using  
14 only materials owned by the Department of Energy on the  
15 date of enactment of this Act for containers to store or  
16 dispose of radioactively contaminated metals and equip-  
17 ment.

18          (f) REPORTS TO CONGRESS.—

19               (1) REQUIREMENT.—The Secretary shall—

20                       (A) annually during the course of the dem-  
21 onstration program established under this sec-  
22 tion, report to the Congress on the progress  
23 made in the previous year under such program;  
24                       and

1 (B) within 6 months after the completion  
2 of such demonstration program, transmit a  
3 final report to the Congress on the results of  
4 the program.

5 (2) CONTENTS OF FINAL REPORT.—The report  
6 required under paragraph (1)(B) shall include—

7 (A) the findings of the Secretary on the  
8 success of the demonstration program at  
9 achieving its purposes under this section;

10 (B) a comparison of recycling and reusing  
11 radioactively contaminated metals and equip-  
12 ment with the alternative of containing and dis-  
13 posing of such metals and equipment;

14 (C) the quantitative assessment described  
15 in paragraph (3) of this subsection; and

16 (D) a proposal, including any recommenda-  
17 tions for necessary legislation, for expanding  
18 the demonstration program to cover radio-  
19 actively uncontaminated and decontaminated  
20 metals and equipment at all National Labora-  
21 tories and former nuclear weapons production  
22 facilities.

23 (3) QUANTITATIVE ASSESSMENT.—To enable  
24 the Secretary to carry out paragraph (2)(D), the  
25 Secretary shall develop a quantitative estimate of—

1 (A) all metals and equipment owned by the  
2 Department at the National Laboratories and  
3 former nuclear weapons production facilities  
4 that are not radioactively contaminated and  
5 that are suitable for resale or recycling;

6 (B) all metals and equipment owned by the  
7 Department at the National Laboratories and  
8 former nuclear weapons production facilities  
9 that have been radioactively contaminated but  
10 can be recycled or reused by the Department;  
11 and

12 (C) all metals and equipment owned by the  
13 Department at the National Laboratories and  
14 former nuclear weapons production facilities  
15 that have been radioactively contaminated but  
16 can be decontaminated and may be appropriate  
17 for sale to the public.

18 (4) FACTORS IN COMPARISON.—In making the  
19 comparison required under paragraph (2)(B), the  
20 Secretary shall consider the full life cycle costs of  
21 each alternative, including revenues or savings real-  
22 ized and the costs of treatment, containment, stor-  
23 age, disposal, monitoring, and replacement. Disposal  
24 costs shall be calculated on the basis of the costs of  
25 such disposal to commercial disposal companies.

1 **SEC. 403. FUNDING AND AUTHORIZATION.**

2 (a) RESEARCH AND DEVELOPMENT FUNDING.—The  
3 Secretary shall incrementally increase the proportion of  
4 the annual budget request for the Environmental Restora-  
5 tion and Waste Management program that is attributable  
6 to research and development until such proportion is at  
7 least 10 percent, except that the Secretary shall ensure  
8 that an increase under this subsection does not affect  
9 other programs and activities of the Department of En-  
10 ergy. This subsection shall apply to budget requests begin-  
11 ning with the budget request for the 2nd fiscal year that  
12 begins after the date of the enactment of this Act.

13 (b) AUTHORIZATION OF APPROPRIATIONS.—Of those  
14 funds requested under subsection (a) and made available  
15 for the Environmental Restoration and Waste Manage-  
16 ment program that are attributable to research and devel-  
17 opment, there are authorized to be appropriated—

18 (1) \$10,000,000 for fiscal year 1995; and

19 (2) \$11,500,000 for fiscal year 1996,

20 for nondefense research and development activities of the  
21 Office of Technology Development, including the advanced  
22 robotics program, for the development of safer, less expen-  
23 sive, and more efficient environmental restoration and  
24 waste management technologies.

1 **SEC. 404. COORDINATION.**

2 The Secretary shall, where appropriate, coordinate  
3 the implementation of this title with the implementation  
4 of sections 212 and 215 of this Act.

5 **TITLE V—AUTHORIZATION OF**  
6 **APPROPRIATIONS**

7 **SEC. 501. AUTHORIZATION OF APPROPRIATIONS.**

8 (a) IN GENERAL.—Except as provided in subsection  
9 (b), there is hereby authorized to be appropriated for fiscal  
10 years 1995 and 1996 such sums as may be necessary to  
11 carry out this Act and the amendments made by this Act.

12 (b) ENVIRONMENTAL TECHNOLOGIES INNOVATION  
13 INITIATIVE.—There is hereby authorized to be appro-  
14 priated to carry out the Environmental Technologies Inno-  
15 vation Initiative established in subtitle B of title II the  
16 following:

17 (1) For fiscal year 1995, \$80,000,000, of which  
18 \$500,000 is authorized to be appropriated for the  
19 President's Total Environmental Quality Award es-  
20 tablished in section 213 for fiscal year 1995 and  
21 \$700,000 is authorized to be appropriated for the  
22 study referred to in section 216.

23 (2) For fiscal year 1996, \$120,000,000, of  
24 which \$1,500,000 is authorized to be appropriated  
25 for the President's Total Environmental Quality  
26 Award established in section 213.

1 **SEC. 502. LIMITATION ON APPROPRIATIONS.**

2 Notwithstanding any other provision of this Act, no  
3 funds are authorized to be appropriated for any fiscal year  
4 after fiscal year 1996 for carrying out the programs and  
5 activities for which funds are authorized by this Act, or  
6 the amendments made by this Act.

7 **SEC. 503. COMPETITION REQUIREMENT FOR AWARDS OF**  
8 **FINANCIAL ASSISTANCE.**

9 (a) **COMPETITION REQUIREMENT.**—No financial as-  
10 sistance (including a grant, a contract, or any other award  
11 of financial assistance) may be provided under a section  
12 of this Act for research, development, or demonstration  
13 activities, or for the construction of research, development,  
14 or precommercial demonstration facilities, unless a com-  
15 petitive, merit-based evaluation process consistent with  
16 such section is used to award the financial assistance.

17 (b) **REQUIREMENT OF SPECIFIC MODIFICATION OF**  
18 **COMPETITION PROVISION.**—

19 (1) **IN GENERAL.**—A provision of law may not  
20 be construed as modifying or superseding subsection  
21 (a), or as requiring that financial assistance (includ-  
22 ing a grant, a contract, or any other type of finan-  
23 cial assistance) be awarded under a section of this  
24 Act in a manner inconsistent with subsection (a),  
25 unless such provision of law—

26 (A) specifically refers to this section;

1 (B) specifically states that such provision  
2 of law modifies or supersedes subsection (a);  
3 and

4 (C) specifically identifies the person to be  
5 awarded the financial assistance and states that  
6 the financial assistance to be awarded pursuant  
7 to such provision of law is being awarded in a  
8 manner inconsistent with subsection (a).

9 (2) NOTICE AND WAIT REQUIREMENT.—No fi-  
10 nancial assistance (including a grant, a contract, or  
11 any other type of financial assistance) may be  
12 awarded pursuant to a provision of law that requires  
13 or authorizes the award of the financial assistance  
14 under this Act in a manner inconsistent with sub-  
15 section (a) until—

16 (A) the head of the Federal agency intend-  
17 ing to award the financial assistance submits to  
18 the Congress a written notice of the intent to  
19 award the financial assistance; and

20 (B) 180 days has elapsed after the date on  
21 which the notice is received by the Congress.

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