

108TH CONGRESS  
1ST SESSION

# H. R. 1491

To authorize programs and activities to improve energy use related to transportation and infrastructure facilities.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 27, 2003

Mr. OBERSTAR (for himself, Ms. NORTON, Mr. HONDA, Mr. BLUMENAUER, Mr. PASCRELL, Ms. EDDIE BERNICE JOHNSON of Texas, Mr. LIPINSKI, Mr. NADLER, Mr. HOLDEN, Ms. BERKLEY, Mr. DEFazio, Mr. HOEFFEL, Ms. MILLENDER-MCDONALD, Mr. MICHAUD, Mr. MATHESON, Mr. RAHALL, Mr. DAVIS of Tennessee, Mr. BISHOP of New York, and Mr. CAPUANO) introduced the following bill; which was referred to the Committee on Transportation and Infrastructure, and in addition to the Committees on Science, Ways and Means, Resources, International Relations, and Financial Services, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To authorize programs and activities to improve energy use related to transportation and infrastructure facilities.

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

### 3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the  
5 “Securing Transportation Energy Efficiency for Tomor-  
6 row Act of 2003”.

1           (b) TABLE OF CONTENTS.—

Sec. 1. Short title.  
Sec. 2. Findings.

TITLE I—PUBLIC BUILDINGS AND ECONOMIC DEVELOPMENT

Sec. 101. Use of photovoltaic energy in public buildings.  
Sec. 102. Capitol complex.  
Sec. 103. Grants for brightfield site development.

TITLE II—SURFACE TRANSPORTATION

Sec. 201. Highway fuel conservation program.  
Sec. 202. Fuel cell bus technology development and demonstration projects.  
Sec. 203. Conserve by bicycling program.  
Sec. 204. Energy impacts of Federal-aid highway and transit projects.  
Sec. 205. Railroad efficiency.

TITLE III—AVIATION

Sec. 301. Clean airport bus pilot program.  
Sec. 302. Clean aircraft engines.

TITLE IV—WATER RESOURCES

Sec. 401. Marine efficiency.  
Sec. 402. Improving hydropower capabilities.  
Sec. 403. Encouragement of State and provincial prohibitions on off-shore drilling in the Great Lakes.

TITLE V—TAX PROVISIONS

Sec. 501. Extension of transportation fringe benefit to commuters who bicycle, carpool, or use car-sharing.

2   **SEC. 2. FINDINGS.**

3           Congress finds the following:

4           (1) As the Nation's largest energy consumer,  
5           the Federal Government is in a unique position to  
6           promote energy conservation and efficiency, particu-  
7           larly in the transportation sector and in the oper-  
8           ation of Federal buildings.

9           (2) Each year for the past 2 decades, energy  
10          use in the transportation sector has increased by a  
11          rate of 1.5 percent.

1           (3) In 2000, the transportation sector con-  
2       sumed a greater share of the Nation's petroleum (66  
3       percent) than it did in 1973 (50 percent).

4           (4) The transportation sector is responsible for  
5       27 percent of all greenhouse gases emitted in the  
6       United States, with transportation-related emissions  
7       of carbon dioxide increasing by nearly 15 percent in  
8       the 1990's.

9           (5) Transportation remains a primary source of  
10      emissions for 3 of the 6 air pollutants regulated  
11      under the Clean Air Act: carbon monoxide, nitrogen  
12      oxides, and volatile organic compounds.

13          (6) As the Federal Government's largest land-  
14      lord, the General Services Administration should  
15      lead in the promotion and utilization of alternative  
16      and efficient energy sources.

17       **TITLE I—PUBLIC BUILDINGS**  
18       **AND ECONOMIC DEVELOPMENT**

19       **SEC. 101. USE OF PHOTOVOLTAIC ENERGY IN PUBLIC**  
20               **BUILDINGS.**

21          (a) IN GENERAL.—Subchapter VI of chapter 31 of  
22      title 40, United States Code, is amended by adding at the  
23      end the following:

1 **“§ 3177. Use of photovoltaic energy in public build-**  
2 **ings**

3 “(a) PHOTOVOLTAIC ENERGY COMMERCIALIZATION  
4 PROGRAM.—

5 “(1) IN GENERAL.—The Administrator of Gen-  
6 eral Services may establish a photovoltaic energy  
7 commercialization program for the procurement and  
8 installation of photovoltaic solar electric systems for  
9 electric production in new and existing public build-  
10 ings.

11 “(2) PURPOSES.—The purposes of the program  
12 shall be to accomplish the following:

13 “(A) To accelerate the growth of a com-  
14 mercially viable photovoltaic industry to make  
15 this energy system available to the general pub-  
16 lic as an option which can reduce the national  
17 consumption of fossil fuel.

18 “(B) To reduce the fossil fuel consumption  
19 and costs of the Federal Government.

20 “(C) To attain the goal of installing solar  
21 energy systems in 20,000 Federal buildings by  
22 2010, as contained in the Federal Government’s  
23 Million Solar Roof Initiative of 1997.

24 “(D) To stimulate the general use within  
25 the Federal Government of life-cycle costing  
26 and innovative procurement methods.

1           “(E) To develop program performance  
2           data to support policy decisions on future incen-  
3           tive programs with respect to energy.

4           “(3) ACQUISITION OF PHOTOVOLTAIC SOLAR  
5           ELECTRIC SYSTEMS.—

6           “(A) IN GENERAL.—The program shall  
7           provide for the acquisition of photovoltaic solar  
8           electric systems and associated storage capa-  
9           bility for use in public buildings.

10          “(B) ACQUISITION LEVELS.—The acquisi-  
11          tion of photovoltaic electric systems shall be at  
12          a level substantial enough to allow use of low-  
13          cost production techniques with at least 150  
14          megawatts (peak) cumulative acquired during  
15          the 5 years of the program.

16          “(4) ADMINISTRATION.—The Administrator  
17          shall administer the program and shall—

18               “(A) prescribe such rules and regulations  
19               as may be appropriate to monitor and assess  
20               the performance and operation of photovoltaic  
21               solar electric systems installed pursuant to this  
22               subsection;

23               “(B) develop innovative procurement strat-  
24               egies for the acquisition of such systems; and

1           “(C) transmit to the Committee on Trans-  
2           portation and Infrastructure of the House of  
3           Representatives and to the Committee on Envi-  
4           ronment and Public Works of the Senate an an-  
5           nual report on the results of the program.

6           “(b) PHOTOVOLTAIC SYSTEMS EVALUATION PRO-  
7           GRAM.—

8           “(1) IN GENERAL.—Not later than 60 days  
9           after the date of enactment of this section, the Ad-  
10          ministrator, in consultation with the Secretary of  
11          Energy, shall establish a photovoltaic solar energy  
12          systems evaluation program to evaluate such photo-  
13          voltaic solar energy systems as are required in public  
14          buildings.

15          “(2) PROGRAM REQUIREMENT.—In evaluating  
16          photovoltaic solar energy systems under the pro-  
17          gram, the Administrator shall ensure that such sys-  
18          tems reflect the most advanced technology.

19          “(c) AUTHORIZATION OF APPROPRIATIONS.—

20          “(1) PHOTOVOLTAIC ENERGY COMMERCIALIZA-  
21          TION PROGRAM.—There is authorized to be appro-  
22          priated to carry out subsection (a) \$210,000,000 for  
23          each of fiscal years 2004 through 2008. Such sums  
24          shall remain available until expended.

1           “(2) PHOTOVOLTAIC SYSTEMS EVALUATION  
2           PROGRAM.—There is authorized to be appropriated  
3           to carry out subsection (b) \$52,700,000 for each of  
4           fiscal years 2004 through 2008. Such sums shall re-  
5           main available until expended.”.

6           (b) CONFORMING AMENDMENT.—The analysis for  
7           such chapter is amended by inserting after the item relat-  
8           ing to section 3176 the following:

          “3177. Use of photovoltaic energy in public buildings”.

9   **SEC. 102. CAPITOL COMPLEX.**

10          (a) STUDY ON ENERGY INFRASTRUCTURE.—The Ar-  
11          chitect of the Capitol, building on the Master Plan Study  
12          completed in July 2000, shall conduct a study to evaluate  
13          the energy infrastructure of the Capitol Complex to deter-  
14          mine how the infrastructure could be augmented to be-  
15          come more energy efficient, using photovoltaic solar en-  
16          ergy systems, district-heating, and other unconventional  
17          and renewable energy resources, in a way that would en-  
18          able the Complex to have reliable utility service in the  
19          event of power fluctuations, shortages, or outages.

20          (b) REPORT.—Not later than 1 year after the date  
21          of enactment of this Act, the Architect of the Capitol shall  
22          transmit to Congress a report containing the results of  
23          the study conducted under subsection (a).

24          (c) AUTHORIZATION.—There are authorized to be ap-  
25          propriated to the Architect of the Capitol such sums as

1 may be necessary to carry out this section. Such sums  
2 shall remain available until expended.

3 **SEC. 103. GRANTS FOR BRIGHTFIELD SITE DEVELOPMENT.**

4 (a) IN GENERAL.—Title II of the Public Works and  
5 Economic Development Act of 1965 (42 U.S.C. 3141 et  
6 seq.) is amended—

7 (1) by redesignating sections 210 through 213  
8 as sections 211 through 214, respectively; and

9 (2) by inserting after section 209 the following:

10 **“SEC. 210. GRANTS FOR BRIGHTFIELD SITE DEVELOPMENT.**

11 “(a) BRIGHTFIELD SITE DEFINED.—In this section,  
12 the term ‘brightfield site’ means a brownfield site (as de-  
13 fined in section 101 of the Comprehensive Environmental  
14 Response, Compensation, and Liability Act of 1980 (42  
15 U.S.C. 9601)) redeveloped through the incorporation of  
16 solar energy technologies.

17 “(b) ESTABLISHMENT OF DEMONSTRATION PRO-  
18 GRAM.—The Secretary shall carry out a demonstration  
19 program for the development of brightfield sites.

20 “(c) GRANTS.—On the application of an eligible re-  
21 cipient, the Secretary may make grants under the program  
22 for projects for the development of brightfield sites.

23 “(d) CRITERIA FOR GRANTS.—The Secretary may  
24 provide a grant for a project under this section if the Sec-  
25 retary determines that the project will—



1           “(1) utilize solar energy technologies to develop  
 2           abandoned or contaminated sites for commercial use;  
 3           and

4           “(2) improve the commercial and economic op-  
 5           portunities in the area where the project is located.

6           “(e) AUTHORIZATION.—There is authorized to be ap-  
 7           propriated to carry out this section—

8           “(1) \$20,000,000 for fiscal year 2004;

9           “(2) \$30,000,000 for fiscal year 2005;

10          “(3) \$40,000,000 for fiscal year 2006;

11          “(4) \$50,000,000 for fiscal year 2007; and

12          “(5) \$60,000,000 for fiscal year 2008.

13          Such sums shall remain available until expended.”.

14          (b) CONFORMING AMENDMENT.—The table of con-  
 15          tents in section 1(b) of the Public Works and Economic  
 16          Development Act of 1965 (42 U.S.C. prec. 3121) is  
 17          amended by striking the items relating to sections 210  
 18          through 213 and inserting the following:

“Sec. 210. Grants for brightfield site development.

“Sec. 211. Changed project circumstances.

“Sec. 212. Use of funds in projects constructed under projected cost.

“Sec. 213. Reports by recipients.

“Sec. 214. Prohibition on use of funds for attorney’s and consultant’s fees.”.

## **TITLE II—SURFACE TRANSPORTATION**

### **SEC. 201. HIGHWAY FUEL CONSERVATION PROGRAM.**

(a) IN GENERAL.—Subchapter I of chapter 1 of title 23, United States Code, is amended by adding at the end the following:

#### **“§ 165. Energy conservation program**

“(a) ESTABLISHMENT OF PROGRAM.—The Secretary shall establish and carry out a program to provide grants to States and local governments for fuel conservation projects.

“(b) ELIGIBLE PROJECTS.—Projects carried out under the program shall be designed to make operational improvements to reduce fuel consumption on Federal-aid highways and other roads. Such projects may include—

“(1) data collection and analysis for improving traffic signal timing;

“(2) implementation of improved and coordinated traffic signal timing (including capital costs of new systems, or system upgrades);

“(3) planning and implementation of freeway management systems; and

“(4) operational improvements with high reductions in energy consumption.

1       “(c) APPLICATIONS.—To be eligible to receive a grant  
 2 under this section, a State or local government shall sub-  
 3 mit to the Secretary an application at such time, in such  
 4 form, and in accordance with such requirements as the  
 5 Secretary shall establish by regulation.

6       “(d) FEDERAL SHARE.—The Federal share of the  
 7 cost of a project carried out using amounts from a grant  
 8 under this section shall be 50 percent.

9       “(e) AUTHORIZATION OF APPROPRIATIONS.—There  
 10 is authorized to be appropriated to carry out this section  
 11 a total of \$200,000,000 for fiscal years 2004 through  
 12 2008. Such sums shall remain available until expended.”.

13       (b) CONFORMING AMENDMENT.—The analysis for  
 14 such chapter is amended by inserting after the item relat-  
 15 ing to section 164 the following:

“165. Energy conservation program.”.

16 **SEC. 202. FUEL CELL BUS TECHNOLOGY DEVELOPMENT**  
 17 **AND DEMONSTRATION PROJECTS.**

18       Section 5308 of title 49, United States Code, is  
 19 amended by adding at the end the following:

20       “(g) FUEL CELL BUS TECHNOLOGY DEVELOPMENT  
 21 AND DEMONSTRATION PROJECTS.—

22               “(1) AUTHORITY TO MAKE GRANTS.—The Sec-  
 23 retary may make grants under this subsection to not  
 24 more than 10 designated recipients for projects for

1 the research, development, and demonstration of fuel  
2 cell bus technology.

3 “(2) APPLICATIONS.—Not later than January 1  
4 of each year, any designated recipient seeking to  
5 apply for a grant under this subsection shall submit  
6 an application to the Secretary, in such form and in  
7 accordance with such requirements as the Secretary  
8 shall establish by regulation.

9 “(3) PREFERENCE.—In selecting grant recipi-  
10 ents under this subsection, the Secretary shall give  
11 preference to those applicants who have an existing  
12 investment in fuel cell buses and hydrogen fuel cell  
13 infrastructure.

14 “(4) NONAPPLICABILITY OF REQUIREMENTS.—  
15 Except as specifically provided in this subsection,  
16 the requirements for grants made under this section  
17 shall not apply to grants made under this sub-  
18 section.

19 “(5) FEDERAL SHARE.—The amount of a grant  
20 made to a designated recipient under this subsection  
21 for a project shall not exceed 80 percent of the total  
22 cost of the project.

23 “(6) AVAILABILITY OF FUNDS.—Any amount  
24 made available under this subsection—

1           “(A) shall remain available to a project for  
2           1 year after the fiscal year for which the  
3           amount is made available; and

4           “(B) that remains unobligated at the end  
5           of the period described in subparagraph (A),  
6           shall be added to the amount made available  
7           under this subsection in the following fiscal  
8           year.

9           “(7) DESIGNATED RECIPIENT DEFINED.—The  
10          term ‘designated recipient’ has the same meaning as  
11          in subsection (a).

12          “(8) FUNDING.—

13               “(A) FROM THE TRUST FUND.—There  
14               shall be available from the Mass Transit Ac-  
15               count of the Highway Trust Fund to carry out  
16               this subsection—

17                       “(i) \$20,000,000 for fiscal year 2004;

18                       “(ii) \$30,000,000 for fiscal year 2005;

19                       “(iii) \$40,000,000 for fiscal year  
20                       2006;

21                       “(iv) \$50,000,000 for fiscal year  
22                       2007; and

23                       “(v) \$60,000,000 for fiscal year 2008.

24               “(B) FROM THE GENERAL FUND.—In ad-  
25               dition to amounts made available under sub-

1 paragraph (A), there is authorized to be appro-  
2 priated to carry out this subsection—

3 “(i) \$10,000,000 for fiscal year 2004;

4 “(ii) \$15,000,000 for fiscal year 2005;

5 “(iii) \$20,000,000 for fiscal year  
6 2006;

7 “(iv) \$25,000,000 for fiscal year  
8 2007; and

9 “(v) \$30,000,000 for fiscal year 2008.

10 “(C) CONTRACT AUTHORITY.—

11 “(i) GRANTS FINANCED FROM THE  
12 HIGHWAY TRUST FUND.—A grant ap-  
13 proved by the Secretary that is financed  
14 with amounts made available under sub-  
15 paragraph (A) is a contractual obligation  
16 of the United States Government to pay  
17 the Government’s share of the cost of the  
18 project.

19 “(ii) GRANTS FINANCED FROM GEN-  
20 ERAL FUNDS.—A grant approved by the  
21 Secretary that is financed with amounts  
22 made available under subparagraph (B) is  
23 a contractual obligation of the Government  
24 to pay the Government’s share of the cost  
25 of the project only to the extent that

1 amounts are provided in advance in an ap-  
2 propriations Act.”.

3 **SEC. 203. CONSERVE BY BICYCLING PROGRAM.**

4 (a) ESTABLISHMENT.—The Secretary of Transpor-  
5 tation shall establish a Conserve By Bicycling pilot pro-  
6 gram that shall provide for up to 10 geographically dis-  
7 persed projects to encourage the use of bicycles in place  
8 of motor vehicles.

9 (b) PROJECTS.—Projects carried out under this sec-  
10 tion shall—

11 (1) use education and marketing to convert  
12 motor vehicle trips to bike trips;

13 (2) establish infrastructure facilities necessary  
14 to support the conversion to bike trips;

15 (3) document project results and energy sav-  
16 ings; and

17 (4) facilitate partnerships among entities in the  
18 fields of transportation, law enforcement, education,  
19 public health, environment, or energy.

20 (c) FEDERAL SHARE.—The Federal share of the cost  
21 of a project carried out under this section shall not exceed  
22 80 percent.

23 (d) REPORT.—Not later than 2 years after implemen-  
24 tation of the projects under this section, the Secretary

1 shall transmit to Congress a report on the results of the  
2 pilot program.

3 (e) AUTHORIZATION OF APPROPRIATIONS.—There is  
4 authorized to be appropriated to carry out this section  
5 \$10,000,000. Such sums shall remain available until ex-  
6 pended.

7 **SEC. 204. ENERGY IMPACTS OF FEDERAL-AID HIGHWAY**  
8 **AND TRANSIT PROJECTS.**

9 Section 109 of title 23, United States Code, is  
10 amended by adding at the end the following:

11 “(r) CONSIDERATION OF ENERGY IMPACTS.—Envi-  
12 ronmental impact statements prepared for Federal-aid  
13 highway and transit projects shall consider energy impacts  
14 as an environmental consequence of the project. Energy  
15 impacts shall be quantified and comparisons made be-  
16 tween alternatives. The cost of annual energy consumption  
17 shall be determined for each alternative considered in the  
18 environmental impact statement.”.

19 **SEC. 205. RAILROAD EFFICIENCY.**

20 (a) ESTABLISHMENT.—The Secretary of Transpor-  
21 tation, in conjunction with the Administrator of the Envi-  
22 ronmental Protection Agency, shall establish a public-pri-  
23 vate research partnership involving the Federal Govern-  
24 ment, railroad carriers, locomotive manufacturers and  
25 equipment suppliers, and the research and test center



1 dedicated to the advancement of railroad technology, effi-  
 2 ciency, and safety that is owned by the Federal Railroad  
 3 Administration and operated in the private sector. The  
 4 goal of the initiative shall include developing and dem-  
 5 onstrating locomotive technologies that increase fuel econ-  
 6 omy, reduce emissions, and lower costs.

7 (b) AUTHORIZATION OF APPROPRIATIONS.—There is  
 8 authorized to be appropriated to carry out this section  
 9 \$35,000,000 for each of fiscal years 2004 through 2006.  
 10 Such sums shall remain available until expended.

## 11 **TITLE III—AVIATION**

### 12 **SEC. 301. CLEAN AIRPORT BUS PILOT PROGRAM.**

13 (a) IN GENERAL.—Subchapter I of chapter 471 of  
 14 title 49, United States Code, is amended by adding at the  
 15 end the following:

#### 16 **“§47138. Clean airport bus pilot program**

17 “(a) ESTABLISHMENT.—The Secretary of Transpor-  
 18 tation shall establish a pilot program for awarding grants  
 19 on a competitive basis to eligible entities for facilitating  
 20 the use of alternative fuel and ultra-low sulfur diesel buses  
 21 at public airports through airport bus replacement and  
 22 fleet expansion programs under this section.

23 “(b) REQUIREMENTS.—Not later than 6 months  
 24 after the date of enactment of this Act, the Secretary shall  
 25 establish and publish in the Federal Register requirements

1 for implementation of the program under this section, in-  
2 cluding eligibility for assistance, management, transfer,  
3 and ultimate disposition of buses, and certification re-  
4 quirements to ensure compliance with this section.

5 “(c) SOLICITATION.—Not later than 9 months after  
6 the date of enactment of this Act, the Secretary shall so-  
7 licit proposals for grants under this section.

8 “(d) ELIGIBLE RECIPIENTS.—A grant shall be  
9 awarded under this section only to a public agency respon-  
10 sible for bus service at a public airport.

11 “(e) TYPES OF GRANTS.—

12 “(1) IN GENERAL.—Grants under this section  
13 may be for the purposes described in paragraph (2),  
14 paragraph (3), or both.

15 “(2) REPLACEMENT BUS GRANTS.—A grant  
16 under this section may be used for the acquisition of  
17 replacement buses.

18 “(3) FLEET EXPANSION BUS GRANTS.—A grant  
19 under this section may be used for the acquisition of  
20 not more than 10 buses to expand a fleet of airport  
21 buses at any single airport.

22 “(f) PRIORITY OF GRANT APPLICATIONS.—In award-  
23 ing bus replacement grants described in subsection (e)(2),  
24 the Secretary shall give priority to awarding grants to ap-  
25 plicants emphasizing the replacement of buses to be used

1 at a public airport located in a nonattainment area, as  
2 defined in section 171 of the Clean Air Act (42 U.S.C.  
3 7501).

4 “(g) CONDITIONS OF GRANT.—A grant provided  
5 under this section shall include the following conditions:

6 “(1) All buses acquired with funds provided  
7 under the grant shall be operated as part of the air-  
8 port bus fleet for which the grant was made for a  
9 minimum of 5 years.

10 “(2) Funds provided under the grant may only  
11 be used—

12 “(A) to acquire new or replacement alter-  
13 native fuel and ultra-low sulfur diesel fuel  
14 buses, including State taxes and contract fees;  
15 and

16 “(B) to construct infrastructure facilities  
17 to enable the delivery of fuel and services nec-  
18 essary for alternative fuel and ultra-low sulfur  
19 diesel fuel buses.

20 “(h) FEDERAL SHARE.—The Federal share of the  
21 cost of a bus acquired or other project or activity funded  
22 using amounts made available to carry out this section  
23 shall be 80 percent.

24 “(i) DEPLOYMENT AND DISTRIBUTION.—The Sec-  
25 retary shall seek to the maximum extent practicable to en-

1 sure a broad geographic distribution of grant awards, with  
2 a goal of no State receiving more than 10 percent of the  
3 grant funding made available under this section for a fis-  
4 cal year.

5 “(j) DEFINITIONS.—In this section, the following  
6 definitions apply:

7 “(1) AIRPORT BUS.—The term ‘airport bus’  
8 means a bus operated by a public agency to provide  
9 transportation between the facilities of a public air-  
10 port.

11 “(2) ALTERNATIVE FUEL BUS.—The term ‘al-  
12 ternative fuel bus’ means a bus powered substan-  
13 tially by electricity (including electricity supplied by  
14 a fuel cell), or by liquefied natural gas, compressed  
15 natural gas, liquefied petroleum gas, hydrogen, pro-  
16 pane, or methanol or ethanol at no less than 85 per-  
17 cent by volume.

18 “(3) PUBLIC AIRPORT.—The term ‘public air-  
19 port’ has the meaning such term has under section  
20 47102 of title 49, United States Code.

21 “(4) ULTRA-LOW SULFUR DIESEL BUS.—The  
22 term ‘ultra-low sulfur diesel bus’ means a bus pow-  
23 ered by diesel fuel which contains sulfur at not more  
24 than 15 parts per million.

1       “(k) AUTHORIZATION OF APPROPRIATIONS.—There  
 2 is authorized to be appropriated to the Secretary of Trans-  
 3 portation for carrying out this section—

4               “(1) \$20,000,000 for fiscal year 2004;

5               “(2) \$30,000,000 for fiscal year 2005;

6               “(3) \$40,000,000 for fiscal year 2006;

7               “(4) \$50,000,000 for fiscal year 2007; and

8               “(5) \$60,000,000 for fiscal year 2008.

9 Such sums shall remain available until expended.”.

10       (b) CONFORMING AMENDMENT.—The analysis for  
 11 chapter 471 of title 49, United States Code, is amended  
 12 by inserting after the item relating to section 47137 the  
 13 following:

“47138. Clean airport bus pilot program.”.

14 **SEC. 302. CLEAN AIRCRAFT ENGINES.**

15       (a) PUBLIC-PRIVATE RESEARCH PARTNERSHIP.—  
 16 The Administrator of the Federal Aviation Administration  
 17 shall establish a public-private research partnership in-  
 18 volving the Federal Aviation Administration, the National  
 19 Aeronautics and Space Administration, research univer-  
 20 sities, and representatives of the aero-propulsion industry.

21       (b) DUTIES.—The partnership shall—

22               (1) develop a clean ground demonstrator engine  
 23 utilizing technologies developed by the Ultra Effi-  
 24 cient Engine Technology (UEET) and Quiet Air-

1 craft Technology (QAT) programs of the National  
2 Aeronautics and Space Administration; and

3 (2) focus on the development and certification  
4 of environmentally friendly manufacturing tech-  
5 nologies, materials, and overhaul and repair.

6 (c) AUTHORIZATION OF APPROPRIATIONS.—There  
7 are authorized to be appropriated to carry out this section  
8 such sums as may be necessary for fiscal years 2004  
9 through 2008. Such sums shall remain available until ex-  
10 pended.

## 11 **TITLE IV—WATER RESOURCES**

### 12 **SEC. 401. MARINE EFFICIENCY.**

13 (a) ESTABLISHMENT.—The Secretary of Transpor-  
14 tation shall establish a public-private research partnership  
15 involving the Federal Government, vessel operators, ports,  
16 terminal operators, shipyards, and equipment suppliers to  
17 develop and demonstrate technologies that—

18 (1) increase fuel economy, reduce emissions,  
19 and lower costs of marine transportation; and

20 (2) increase the efficiency of intermodal trans-  
21 fers.

22 (b) AUTHORIZATION OF APPROPRIATIONS.—There  
23 are authorized to be appropriated to carry out this section  
24 such sums as may be necessary for fiscal years 2004

1 through 2008. Such sums shall remain available until ex-  
2 pended.

3 **SEC. 402. IMPROVING HYDROPOWER CAPABILITIES.**

4 (a) STUDY.—The Secretary of the Army shall con-  
5 duct a study on the potential for reduced fossil fuel con-  
6 sumption through an increase in United States hydro-  
7 power capabilities.

8 (b) CONTENTS.—The study shall include an examina-  
9 tion of the potential for improving hydropower capabilities  
10 at dams owned or operated by the Corps of Engineers.

11 (c) REPORT.—Not later than 1 year after the date  
12 of enactment of this Act, the Secretary shall transmit to  
13 Congress a report containing the results of the study con-  
14 ducted under this section.

15 **SEC. 403. ENCOURAGEMENT OF STATE AND PROVINCIAL**  
16 **PROHIBITIONS ON OFF-SHORE DRILLING IN**  
17 **THE GREAT LAKES.**

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

19 (1) The water resources of the Great Lakes  
20 Basin are precious natural resources of the States of  
21 Illinois, Indiana, Michigan, Minnesota, New York,  
22 Ohio, Pennsylvania, and Wisconsin, and the Cana-  
23 dian Province of Ontario.

1           (2) The environmental dangers associated with  
2       off-shore drilling in the Great Lakes for oil and gas  
3       outweigh the potential benefits of such drilling.

4           (3) In accordance with the Submerged Lands  
5       Act (43 U.S.C. 1301 et seq.), each State that bor-  
6       ders any of the Great Lakes has authority over the  
7       area between that State's coastline and the bound-  
8       ary of Canada or another State.

9           (4) The States of Illinois, Michigan, New York,  
10      Pennsylvania, and Wisconsin each have a statutory  
11      prohibition of off-shore drilling in the Great Lakes  
12      for oil and gas.

13          (5) The States of Indiana, Minnesota, and Ohio  
14      do not have such a prohibition.

15          (6) The Canadian Province of Ontario does not  
16      have such a prohibition, and drilling for and produc-  
17      tion of gas occurs in the Canadian portion of Lake  
18      Erie.

19      (b) ENCOURAGEMENT OF STATE AND PROVINCIAL  
20      PROHIBITIONS.—Congress encourages—

21          (1) the States of Illinois, Michigan, New York,  
22      Pennsylvania, and Wisconsin to continue to prohibit  
23      off-shore drilling in the Great Lakes for oil and gas;



1           (2) the States of Indiana, Minnesota, and Ohio  
 2           and the Canadian Province of Ontario to enact a  
 3           prohibition of such drilling; and

4           (3) the Canadian Province of Ontario to require  
 5           the cessation of any such drilling and any production  
 6           resulting from such drilling.

## 7           **TITLE V—TAX PROVISIONS**

### 8   **SEC. 501. EXTENSION OF TRANSPORTATION FRINGE BEN-** 9                           **EFIT TO COMMUTERS WHO BICYCLE, CAR-** 10                          **POOL, OR USE CAR-SHARING.**

11           (a) IN GENERAL.—Paragraph (1) of section 132(f)  
 12           of the Internal Revenue Code of 1986 (relating to general  
 13           rule for qualified transportation fringe) is amended by  
 14           adding at the end the following:

15                           “(D) Other commuting allowances.”.

16           (b) OTHER COMMUTING ALLOWANCES DEFINED.—  
 17           Paragraph (5) of section 132(f) of such Code (relating to  
 18           definitions) is amended by adding at the end the following:

19                           “(F) OTHER COMMUTING ALLOWANCES.—

20                                   “(i) IN GENERAL.—The term ‘other  
 21                           commuting allowances’ means an amount  
 22                           provided to an employee for transportation  
 23                           by bicycling, carpooling, or car-sharing if  
 24                           such transportation is in connection with

1 travel between the employee's residence  
2 and place of employment.

3 “(ii) BICYCLING.—For purposes of  
4 clause (i), bicycling includes regular bicycle  
5 maintenance, and expenses for accessing  
6 space, locker, and shower facilities, secured  
7 bike storage, and other services directly as-  
8 sociated with bicycling.

9 “(iii) CARPOOLING.—For purposes of  
10 clause (i), the term ‘carpooling’ means the  
11 carrying of more than 1, but not more  
12 than 6, passengers by highway vehicle on  
13 any public road or highway, either regu-  
14 larly or occasionally, with or without com-  
15 pensation, but not for profit.

16 “(iv) CAR-SHARING.—For purposes of  
17 clause (i), the term ‘car sharing’ means  
18 shared-use vehicle services under which  
19 members are provided with access to a  
20 fleet of highway vehicles for use on an as-  
21 needed basis.”.

22 (c) DOLLAR LIMITATION ON EXCLUSION.—Para-  
23 graph (2) of section 132(f) of such Code is amended by  
24 striking “and” at the end of subparagraph (A), by striking  
25 the period at the end of subparagraph (B) and inserting

1 “, and”, and by inserting after subparagraph (B) the fol-  
2 lowing new subparagraph:

3 “(C) \$75 per month in the case of the ben-  
4 efits described in subparagraph (D) of para-  
5 graph (1).”.

6 (d) ADJUSTMENT FOR INFLATION.—Subparagraph  
7 (A) of section 132(f)(6) is amended by adding at the end  
8 the following: “In the case of any taxable year beginning  
9 in a calendar year after 2003, clause (ii) shall be applied  
10 by substituting ‘calendar year 2002’ for ‘calendar year  
11 1998’ for purposes of adjusting the dollar amount con-  
12 tained in paragraph (2)(C).

13 (e) EFFECTIVE DATE.—The amendments made by  
14 this section shall apply to taxable years beginning after  
15 December 31, 2002.

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