

ment, and demonstration of fuel cells and related systems for transportation applications through the establishment of one or more cooperative programs among industry, government, and research institutions to develop and demonstrate the use of fuel cells as the primary power source for private and mass transit vehicles and other mobile applications.

(2) Research, development, and demonstration activities under this subsection shall be designed to incorporate one or more of the following priorities:

(A) The potential for near-term to mid-term commercialization.

(B) The ability of the systems to use a variety of renewable and nonfossil fuels.

(C) Emission reduction and energy conservation potential.

(D) The potential to utilize fuel cells and fuel cell systems developed under Department of Defense and National Aeronautics and Space Administration programs.

(E) The potential to take maximum practical advantage of advances made in electric motor vehicle research, stationary source fuel cell research, and other research activities authorized by this subchapter.

(3)(A) Research, development, and demonstration projects selected by the Secretary under this subsection shall apply to—

- (i) passenger vehicles;
- (ii) vans and utility vehicles;
- (iii) light rail systems and locomotives;
- (iv) trucks, including long-haul trucks, dump trucks, and garbage trucks;
- (v) passenger buses;
- (vi) non-chlorofluorocarbon mobile refrigeration systems;
- (vii) marine vessels, including recreational marine engines; or
- (viii) mobile engines and power generation, including recreational generators, and industrial and construction equipment.

(B) The Secretary shall establish programs to undertake research, development, and demonstration activities for the applications listed in clauses (i) through (viii) of subparagraph (A) in each of fiscal years 1993, 1994, 1995, and 1996, based on the priorities established in paragraph (2), so that by the end of the period, research, development, and demonstration activities are under way for the applications under each such clause. The initiatives authorized and implemented pursuant to this subsection shall be in addition to any other fuel cell programs authorized in existing law.

#### (k) Definitions

For purposes of this section—

(1) the term “advanced battery technology” means electrochemical storage devices and systems, including fuel cells, and associated technology necessary to charge, discharge, recharge, or regenerate such devices, for use as a source of power for an electric motor vehicle and any other associated equipment;

(2) the term “associated equipment” means equipment necessary for the regeneration, refueling, or recharging of batteries or other forms of electric energy used to power an elec-

tric motor vehicle and, in the case of electric-hybrid vehicles, such term includes nonpetroleum-related equipment necessary for, and solely related to, the demonstration of such vehicles;

(3) the term “electric motor vehicle” means a motor vehicle primarily powered by an electric motor that draws current from rechargeable storage batteries, fuel cells, photovoltaic arrays, or other sources of electric current and may include an electric-hybrid vehicle; and

(4) the term “electric-hybrid vehicle” means vehicle primarily powered by an electric motor that draws current from rechargeable storage batteries, fuel cells, or other sources of electric current and also relies on a nonelectric source of power that also operates on or is capable of operating on a nonelectrical source of power.

(Pub. L. 102-486, title XX, § 2025, Oct. 24, 1992, 106 Stat. 3063; Pub. L. 105-362, title IV, § 402(a), Nov. 10, 1998, 112 Stat. 3283.)

#### REFERENCES IN TEXT

The Federal Nonnuclear Energy Research and Development Act of 1974, referred to in subsec. (a), is Pub. L. 93-577, Dec. 31, 1974, 88 Stat. 1878, as amended, which is classified generally to chapter 74 (§ 5901 et seq.) of this title. For complete classification of this Act to the Code, see Short Title note set out under section 5901 of this title and Tables.

#### AMENDMENTS

1998—Subsec. (b)(1). Pub. L. 105-362, § 402(a)(1), substituted “biennially” for “annually” in second sentence.

Subsec. (b)(4). Pub. L. 105-362, § 402(a)(2), substituted “Biennial updates” for “Annual updates” in second sentence.

#### § 13436. Repealed. Pub. L. 104-271, title I, § 103(b)(2), Oct. 9, 1996, 110 Stat. 3306

Section, Pub. L. 102-486, title XX, § 2026, Oct. 24, 1992, 106 Stat. 3066; Pub. L. 104-271, title I, § 103(b)(1), Oct. 9, 1996, 110 Stat. 3306, related to a 5-year program on renewable hydrogen energy systems.

#### EFFECTIVE DATE OF REPEAL

Pub. L. 104-271, title I, § 103(b)(2), Oct. 9, 1996, 110 Stat. 3306, provided that the repeal made by section 103(b)(2) is effective Oct. 1, 1998.

#### § 13437. Advanced diesel emissions program

##### (a) Program direction

The Secretary shall initiate a 5-year program, in accordance with sections 13541 and 13542 of this title, on diesel engine combustion and engine systems, related advanced materials, and fuels and lubricants to reduce emissions oxides of nitrogen and particulates. Activities conducted under this program shall supplement activities of a similar nature at the Department of Energy. Such program shall include field demonstrations of sufficient scale and number in operating environments to prove technical and economic viability to meet the goal stated in subsection (b) of this section.

##### (b) Program goal

The goal of the program established under subsection (a) of this section shall be to accelerate the ability of United States diesel manufac-