

turers to meet current and future oxides of nitrogen and particulate emissions requirements.

(c) Program plan

Within 180 days after October 24, 1992, the Secretary, in consultation with appropriate representatives of industry, institutions of higher education, Federal agencies, including national laboratories, and professional and technical societies, shall prepare and submit to the Congress a 5-year program plan to guide the activities under this section. Such plan shall be included as part of the plan required by section 13431(b) of this title.

(d) Solicitation of proposals

Within 1 year after October 24, 1992, the Secretary shall solicit proposals for conducting activities consistent with the 5-year program plan.

(Pub. L. 102-486, title XX, § 2027, Oct. 24, 1992, 106 Stat. 3066.)

§ 13438. Telecommuting study

(a) Study

The Secretary, in consultation with the Secretary of Transportation, shall conduct a study of the potential costs and benefits to the energy and transportation sectors of telecommuting. The study shall include—

- (1) an estimation of the amount and type of reduction of commuting by form of transportation type and numbers of commuters;
- (2) an estimation of the potential number of lives saved;
- (3) an estimation of the reduction in environmental pollution, in consultation with the Environmental Protection Agency;
- (4) an estimation of the amount and type of reduction of energy use and savings by form of transportation type; and
- (5) an estimation of the social impact of widespread use of telecommuting.

(b) Report to Congress

This study shall be completed no more than one hundred and eighty days after October 24, 1992. A report, summarizing the results of the study, shall be transmitted to the United States House of Representatives and the Committee on Energy and Natural Resources of the United States Senate no more than sixty days after completion of this study.

(Pub. L. 102-486, title XX, § 2028, Oct. 24, 1992, 106 Stat. 3067.)

SUBCHAPTER IX—ENERGY AND ENVIRONMENT

PART A—IMPROVED ENERGY EFFICIENCY

§ 13451. General improved energy efficiency

(a) Program direction

The Secretary shall conduct a 5-year program, in accordance with sections 13541 and 13542 of this title, on cost effective technologies to improve energy efficiency and increase the use of renewable energy in the buildings, industrial, and utility sectors. Such program shall include a broad range of technological approaches, and shall include field demonstrations of sufficient

scale and number to prove technical and economic viability to meet the goals stated in section 13401 of this title. Such program shall include the activities required under sections 13452, 13453, 13454, 13455, 13456, and 13457 of this title and section 2106¹ and ongoing activities of a similar nature at the Department of Energy. Such program shall also include the activities conducted pursuant to the Steel and Aluminum Energy Conservation and Technology Competitiveness Act of 1988 (Public Law 100-680) [15 U.S.C. 5101 et seq.] and the Department of Energy Metal Casting Competitiveness Research Act of 1990 (Public Law 101-425) [15 U.S.C. 5301 et seq.].

(b) Program goals

The goals of the program established under subsection (a) of this section shall include—

- (1) in the buildings sector—
 - (A) to accelerate the development of technologies that will increase energy efficiency;
 - (B) to increase the use of renewable energy; and
 - (C) to reduce environmental impacts;
- (2) in the industrial sector—
 - (A) to accelerate the development of technologies that will increase energy efficiency in order to improve productivity;
 - (B) to increase the use of renewable energy; and
 - (C) to reduce environmental impacts; and
- (3) in the utility sector—
 - (A) to accelerate the development of technologies that will increase energy efficiency; and
 - (B) to increase the use of integrated resource planning.

(c) Program plan

Within 180 days after October 24, 1992, the Secretary shall prepare and submit to the Congress a 5-year program plan to guide activities under this part. In preparing the program plan, the Secretary shall consult with appropriate representatives of industry, utilities, institutions of higher education, Federal agencies, including national laboratories, and professional and technical societies.

(d) Proposals

Within 1 year after October 24, 1992, the Secretary shall solicit proposals for conducting activities under this section.

(e) Authorization of appropriations

There are authorized to be appropriated to the Secretary for carrying out this part, including all building, industry, and utility sectors energy conservation research and development, and inventions and innovation under energy conservation technical and financial assistance, \$178,250,000 for fiscal year 1993 and \$275,000,000 for fiscal year 1994.

(Pub. L. 102-486, title XXI, § 2101, Oct. 24, 1992, 106 Stat. 3067.)

REFERENCES IN TEXT

Section 2106, referred to in subsec. (a), means section 2106 of Pub. L. 102-486, which amended sections 5103,

¹ See References in Text note below.