

sufficiency program to demonstrate energy self-sufficiency through the use of renewable energy resources in one or more States in the United States.

(b) Establishment of subprograms to pilot programs; scope of subprograms

As a part of the pilot program, the Secretary shall establish such subprograms as the Secretary determines are necessary to achieve the purpose of this section, including subprograms—

- (1) to promote the development and utilization of synergistic combinations of different renewable energy resources in specific projects aimed at reducing fossil fuel importation;
- (2) to initiate and encourage energy self-sufficiency at appropriate levels of government;
- (3) to stimulate private industry participation in the realization of the objective stated in subsection (a); and
- (4) to stimulate the utilization of abandoned or underutilized industrial facilities for the generation of energy from any locally available renewable resource, such as municipal solid waste, agricultural waste, or forest products waste.

(c) Implementation of subprograms; preparation of plan of program and additional Federal actions

In carrying out the provisions of this section, the Secretary is authorized to assign to an existing office in the Department of Energy the responsibility of undertaking and carrying out the subprograms established under subsection (b). In addition, the Secretary shall prepare a detailed plan within one hundred eighty days of June 30, 1980, setting forth (1) the 3-year pilot program itself, and (2) any additional Federal actions needed to encourage and promote the adoption of programs for energy self-sufficiency.

(d) Submission of plan and implementation report to Congress

The Secretary shall submit to the Congress, within one year after June 30, 1980, the plan prepared under the second sentence of subsection (c) along with a report suggesting the legislative initiatives needed to fully implement such plan.

(Pub. L. 96-294, title IV, § 406, June 30, 1980, 94 Stat. 716.)

§ 7375. Authorization of appropriations

(a) There is authorized to be appropriated for each of the fiscal years 1981 and 1982 not to exceed \$10,000,000 for loans under section 402 of the Public Utility Regulatory Policies Act of 1978 [16 U.S.C. 2702], in addition to any amounts authorized for such loans by that Act; and the amounts appropriated pursuant to this subsection shall remain available until expended.

(b) There is authorized to be appropriated for each of the fiscal years 1981 and 1982 not to exceed \$100,000,000 for loans under section 403 of the Public Utility Regulatory Policies Act of 1978 [16 U.S.C. 2703]; and the amounts appropriated pursuant to this subsection shall remain available until expended.

(c) There is authorized to be appropriated for the fiscal year 1981 not to exceed \$10,000,000 to carry out section 7374 of this title (relating to energy self-sufficiency initiatives).

(Pub. L. 96-294, title IV, § 409, June 30, 1980, 94 Stat. 719.)

REFERENCES IN TEXT

That Act, referred to in subsec. (a), is Pub. L. 95-617, Nov. 9, 1978, 92 Stat. 3117, as amended, known as the Public Utility Regulatory Policies Act of 1978. For complete classification of this Act to the Code, see Short Title note set out under section 2601 of Title 16, Conservation, and Tables.

SUBCHAPTER XIII—DEPARTMENT OF ENERGY SCIENCE EDUCATION PROGRAMS

CODIFICATION

This subchapter was enacted as part of part E (§§ 3161-3168) of title XXXI of div. C of the National Defense Authorization Act for Fiscal Year 1991, known as the Department of Energy Science Education Enhancement Act, and not as part of the Department of Energy Organization Act which comprises this chapter.

§ 7381. Findings and purposes

(a) Findings

The Congress finds the following:

(1) Scientific, technical, and engineering competence is essential to the Nation's future well-being.

(2) The scientific, technical, and engineering capability at the Federal laboratories is unmatched throughout the world.

(3) Superb research, development, testing, and evaluation occur in Department of Energy research and development facilities.

(4) Department of Energy research and development facilities will play an increasing role in assuring that the United States remains competitive in world markets.

(5) Improvements in mathematics, science, and engineering education are needed desperately to provide the trained and educated citizenry essential to the future competitiveness of the United States.

(6) The future health and vitality of the economy of the United States is predicated on the availability of an adequate supply of scientists, mathematicians, and engineers to provide for growing needs and to replenish the workforce.

(7) United States college and university enrollment in science, mathematics, and engineering programs is sharply declining at undergraduate, graduate, and post-graduate levels.

(8) The Federal Government is the largest United States employer of research scientists, mathematicians, and engineers, and the Department of Energy has a growing need for scientists, mathematicians, and engineers at a time when these enrollments are declining.

(9) Women and minorities are grossly underrepresented in science and mathematics fields, and this group represents more than 80 percent of the projected increase in the national workforce through the year 2000.

(b) Purposes

The purposes of this subchapter are—

(1) to encourage the development and implementation of science, mathematics, and engineering education programs at the Department of Energy and at its research and devel-

opment facilities as part of a national effort to improve science, mathematics, and engineering education; and

(2) to provide more efficient coordination among science, mathematics, and engineering education programs.

(Pub. L. 101-510, div. C, title XXXI, §3162, Nov. 5, 1990, 104 Stat. 1840.)

REFERENCES IN TEXT

This subchapter, referred to in subsec. (b), was in the original “this part”, meaning part E of title XXXI of div. C of Pub. L. 101-510, which is classified principally to this subchapter. For complete classification of part E to the Code, see Short Title note set out below and Tables.

SHORT TITLE

Pub. L. 101-510, div. C, title XXXI, §3161, Nov. 5, 1990, 104 Stat. 1840, provided that: “This part [part E (§§3161-3168) of title XXXI of div. C of Pub. L. 101-510, enacting this subchapter and amending section 7112 of this title] may be cited as the ‘Department of Energy Science Education Enhancement Act.’”

UNIVERSITY-BASED RESEARCH COLLABORATION PROGRAM

Pub. L. 105-85, div. C, title XXXI, §3155, Nov. 18, 1997, 111 Stat. 2044, which was formerly set out as a note under this section, was renumbered section 4814 of Pub. L. 107-314, the Bob Stump National Defense Authorization Act for Fiscal Year 2003, by Pub. L. 108-136, div. C, title XXXI, §3141(k)(9)(A)-(C), Nov. 24, 2003, 117 Stat. 1785, and is classified to section 2795 of Title 50, War and National Defense.

PART A—SCIENCE EDUCATION ENHANCEMENT

CODIFICATION

Pub. L. 110-69, title V, §5003(d)(1), Aug. 9, 2007, 121 Stat. 602, added heading.

§ 7381a. Science education programs

(a) Programs

The Secretary is authorized to establish programs to enhance the quality of mathematics, science, and engineering education. Any such programs shall be operated at or through the support of Department research and development facilities, shall use the scientific resources of the Department, and shall be consistent with the overall Federal plan for education and human resources in science and technology developed by the Federal Coordinating Council for Science, Engineering, and Technology.

(b) Organization of science, engineering, and mathematics education programs

(1) Director of Science, Engineering, and Mathematics Education

Notwithstanding any other provision of law, the Secretary, acting through the Under Secretary for Science (referred to in this subsection as the “Under Secretary”), shall appoint a Director of Science, Engineering, and Mathematics Education (referred to in this subsection as the “Director”) with the principal responsibility for administering science, engineering, and mathematics education programs across all functions of the Department.

(2) Qualifications

The Director shall be an individual, who by reason of professional background and experi-

ence, is specially qualified to advise the Under Secretary on all matters pertaining to science, engineering, and mathematics education at the Department.

(3) Duties

The Director shall—

(A) oversee all science, engineering, and mathematics education programs of the Department;

(B) represent the Department as the principal interagency liaison for all science, engineering, and mathematics education programs, unless otherwise represented by the Secretary or the Under Secretary;

(C) prepare the annual budget and advise the Under Secretary on all budgetary issues for science, engineering, and mathematics education programs of the Department;

(D) increase, to the maximum extent practicable, the participation and advancement of women and underrepresented minorities at every level of science, technology, engineering, and mathematics education; and

(E) perform other such matters relating to science, engineering, and mathematics education as are required by the Secretary or the Under Secretary.

(4) Staff and other resources

The Secretary shall assign to the Director such personnel and other resources as the Secretary considers necessary to permit the Director to carry out the duties of the Director.

(5) Assessment

(A) In general

The Secretary shall offer to enter into a contract with the National Academy of Sciences under which the National Academy, not later than 5 years after, and not later than 10 years after, August 9, 2007, shall assess the performance of the science, engineering, and mathematics education programs of the Department.

(B) Considerations

An assessment under this paragraph shall be conducted taking into consideration, where applicable, the effect of science, engineering, and mathematics education programs of the Department on student academic achievement in science and mathematics.

(6) Authorization of appropriations

There are authorized to be appropriated such sums as are necessary to carry out this subsection.

(c) Relationship to other Department activities

The programs described in subsection (a) shall supplement and be coordinated with current activities of the Department, but shall not supplant them.

(d) Science, Engineering, and Mathematics Education Fund

The Secretary shall establish a Science, Engineering, and Mathematics Education Fund, using not less than 0.3 percent of the amount made available to the Department for research, development, demonstration, and commercial