

in order to provide certification that such products conform to the performance criteria established under this paragraph; and

(2) revised performance criteria for photovoltaic components and systems to be used in appropriate applications, and procedures whereby manufacturers of photovoltaic components and systems shall have their products tested in order to provide certification that such products conform to the performance criteria established under this paragraph. Such criteria may be annually revised by the Secretary, as he deems appropriate.

**(d) Performance criteria applicable to photovoltaic component or system procured or installed by Federal Government or with Federal assistance**

Any photovoltaic component or system procured or installed by the Federal Government or procured or installed with Federal assistance under section 5584 or section 5585 of this title shall meet appropriate performance criteria prescribed under this section, if such performance criteria have been prescribed.

(Pub. L. 95-590, § 7, Nov. 4, 1978, 92 Stat. 2517.)

CODIFICATION

Section 5584 or section 5585 of this title, referred to in subsec. (d), was in the original "section (5) or section (6)" and was translated section 5584 or 5585 of this title as the probable intent of Congress.

**§ 5587. Supervision of research, development, and demonstration programs**

**(a) Monitoring of photovoltaic systems; collection and evaluation of data; studies, investigations, and reports**

The Secretary, in coordination with such Government agencies as may be appropriate, shall—

(1) monitor the performance and operation of photovoltaic systems installed under this subchapter;

(2) collect and evaluate data and information on the performance and operation of photovoltaic systems installed under this subchapter; and

(3) from time to time carry out such studies and investigations and take such other actions, including the submission of special reports to the Congress when appropriate, as may be necessary to assure that the programs for which the Secretary is responsible under this subchapter effectively carry out the policy of this subchapter.

**(b) Assistance from scientific, technical, and professional societies and industry representatives**

In the development of the performance criteria and test procedures required under section 5586 of this title, the Secretary shall work closely with the appropriate scientific, technical, and professional societies and industry representatives in order to assure the best possible use of available expertise in this area.

**(c) Liaison with industries, interests, and scientific and technical community**

The Secretary shall also maintain continuing liaison with related industries and interests, and

with the scientific and technical community, during and after the period of the programs carried out under this subchapter, in order to assure that the projected benefits of such programs are and will continue to be realized.

(Pub. L. 95-590, § 8, Nov. 4, 1978, 92 Stat. 2518.)

**§ 5588. Solar Photovoltaic Energy Advisory Committee**

**(a) Establishment; duties**

There is hereby established a Solar Photovoltaic Energy Advisory Committee, which shall study and advise the Secretary on—

(1) the scope and pace of research and development with respect to solar photovoltaic energy systems;

(2) the need for and timing of solar photovoltaic energy systems demonstration projects;

(3) the need for change in any research, development, or demonstration program established under this subchapter; and

(4) the economic, technological, and environmental consequences of the use of solar photovoltaic energy systems.

**(b) Membership; chairman**

The Committee shall be composed of thirteen members, including eleven members appointed by the Secretary from industrial organizations, academic institutions, professional societies or institutions, and other sources as he sees fit, and two members of the public appointed by the President. The Chairman of the Committee shall be elected from among the members thereof.

**(c) Cooperation from executive departments, agencies, and instrumentalities**

The heads of the departments, agencies, and instrumentalities of the executive branch of the Federal Government shall cooperate with the Committee in carrying out the requirements of this section, and shall furnish to the Committee such information as the Committee deems necessary to carry out this section.

**(d) Application of section 7234 of this title**

Section 7234 of this title shall be applicable to the Committee, except as inconsistent with this section.

(Pub. L. 95-590, § 9, Nov. 4, 1978, 92 Stat. 2518.)

TERMINATION OF ADVISORY COMMITTEES

Advisory committees established after Jan. 5, 1973, to terminate not later than the expiration of the 2-year period beginning on the date of their establishment, unless, in the case of a committee established by the President or an officer of the Federal Government, such committee is renewed by appropriate action prior to the expiration of such 2-year period, or in the case of a committee established by the Congress, its duration is otherwise provided for by law. See section 14 of Pub. L. 92-463, Oct. 6, 1972, 86 Stat. 776, set out in the Appendix to Title 5, Government Organization and Employees.

**§ 5589. Promotion and facilitation of practical use of photovoltaic energy**

**(a) Dissemination of information; trade secret exemption**

The Secretary shall take all possible steps to assure that full and complete information with

respect to the demonstrations and other activities conducted under this subchapter is made available to Federal, State, and local authorities, relevant segments of the economy, the scientific and technical community, and the public at large, both during and after the close of the programs under this subchapter, with the objective of promoting and facilitating to the maximum extent feasible the early and widespread practical use of photovoltaic energy throughout the United States. Any trade secret or other proprietary information shall be exempted from such mandatory disclosure, as otherwise specified in law applicable to research, development and demonstration programs of the Department of Energy, including, but not limited to, section 5916 of this title.

**(b) Studies and investigations**

The Secretary shall—

(1) study the effect of the widespread utilization of photovoltaic systems on the existing electric utility system at varying levels of photovoltaic contribution to the system;

(2) study and investigate the effect of utility rate structures, building codes, zoning ordinances, and other laws, codes, ordinances, and practices upon the practical use of photovoltaic systems;

(3) determine the extent to which such laws, codes, ordinances, and practices should be changed to permit or facilitate such use and the methods by which any such changes may best be accomplished; and

(4) determine the necessity of a program of incentives to accelerate the commercial application of photovoltaic technologies.

**(c) Policy recommendations to President and Congress**

The Secretary is authorized and directed, within one year of November 4, 1978, to make recommendations to the President and to the Congress for Federal policies relating to barriers to the early and widespread utilization of photovoltaic systems in order to realize the goals set forth in section 5581 of this title. These recommendations shall include but not be limited to—

(1) the potential for integration of electricity derived from photovoltaic energy systems into the existing national grid system, including the potential of photovoltaic-generated electricity to meet the peak-load energy needs of electric utilities, load management and reliability implications of the utilization of photovoltaic electricity by utilities, the implications of utility ownership of photovoltaic components leased to others primarily for decentralized applications, the impacts of utility use of electricity derived from photovoltaic energy systems on utility rate structures, and the potential for reducing or obviating the need for energy storage components for photovoltaic energy systems through utility interface;

(2) the extent of competition between firms currently engaged in the fabrication and installation of photovoltaics components and systems as it affects the character and growth potential of the American photovoltaics industry, and the likelihood that small photovoltaic firms will have reasonable opportuni-

ties to compete and participate in the various programs authorized by this subchapter;

(3) the need to identify legal alternatives to ensure access to direct sunlight for photovoltaic energy systems, the appropriate methods of encouraging the adoption of such alternatives, and the implications of widespread utilization of photovoltaic energy systems for land use and urban development;

(4) the availability of private capital at reasonable interest rates for individuals, businesses and others desiring to establish commercial enterprises to manufacture, market, install, and/or, maintain photovoltaic components and systems, or purchase and install such systems for private, industrial, agricultural, commercial or other uses;

(5) the need for industry-wide warranty and reliability standards for photovoltaic energy components and systems for private sector applications, and, if appropriate, the mechanisms for establishing such standards; and

(6) the attainability of the goals specified in section 5581(b) of this title, and any modification of such goals which the Secretary proposes for consideration by Congress, with supporting analyses.

**(d) Consultation with government agencies, industry representatives, and scientific and technical community; coordination and merger of studies and reports**

In carrying out his functions under this section, the Secretary shall consult with the appropriate government agencies, industry representatives, and members of the scientific and technical community having expertise and interest in this area. The Secretary also shall ensure that any study or report prepared pursuant to this section is fully coordinated with and reflective of any analyses or reports prepared pursuant to the requirements in section 5556a of this title, and in the President's Solar Energy Domestic Policy Review. The Secretary, as appropriate, may merge any continuing or on-going studies under section 5556a of this title or the Domestic Policy Review with those required by this section or avoid any unnecessary duplication of effort or funding. The separate report requirements of section 5556a of this title and this section, however, shall remain in force.

(Pub. L. 95-590, § 10, Nov. 4, 1978, 92 Stat. 2519.)

**§ 5590. Submittal to Congressional committees of plan for demonstrating applications of photovoltaic systems and facilitating use in other nations; encouragement of international participation and cooperation; coordination and consistency of plan and international activities with similar activities and programs**

(a) Within one year after November 4, 1978, the Secretary, in consultation with the Secretary of State, the Administrator of the Agency for International Development, the Director of the Export/Import Bank and other appropriate Federal officials, shall submit to the House Committee on Science and Technology and the Senate Committee on Energy and Natural Resources a plan for demonstrating applications of solar photovoltaic energy systems and facilitat-