

mechanical power could lead to relief on the demand for existing non-renewable fuel and energy supplies;

(5) the use of large wind energy systems for certain limited applications is already economically feasible;

(6) the use of small wind energy systems for certain applications is already economically feasible, and therefore, the Federal Government should not undertake any financial incentive or financial initiative which may detrimentally affect commercial markets for small wind energy systems;

(7) an aggressive research, development and demonstration program to accelerate widespread utilization of wind energy should solve existing technical problems of converting wind energy into electricity and mechanical energy and, supported by an assured and growing market for wind energy systems during the next decade, should maximize the future contribution of wind energy to the Nation's future energy production;

(8) it is the proper and appropriate role of the Federal Government to undertake research and development, to participate in demonstration programs for wind energy systems, and to assist private industry, other entities, and the general public in hastening the widespread utilization of such systems;

(9) the widespread use of wind energy systems to supplement and replace conventional methods for the generation of electricity and mechanical power would have a beneficial effect upon the environment;

(10) the evaluation of the performance and reliability of wind energy technologies can be expedited by the testing of prototypes under carefully controlled conditions;

(11) innovation and creativity in the development of components and systems for converting wind energy into electricity and mechanical energy can be fostered through encouraging direct contact between the manufacturers of such components and systems and utilities and other persons interested in utilizing such components and systems; and

(12) consistent with the findings of the Domestic Policy Review on Solar Energy, wind energy can potentially contribute 1.7 quads of energy per year by the year 2000.

(b) It is declared to be the policy of the United States and the purpose of this chapter to establish during the next eight years an aggressive research, development, demonstration, and technology applications program for converting wind energy into electricity and mechanical energy. It is declared to be the further policy of the United States and the purpose of this chapter that the objectives of such program are—

(1) to reduce the average cost of electricity produced by installed wind energy systems, by the end of fiscal year 1988, to a level competitive with conventional energy sources;

(2) to reach a total megawatt capacity in the United States from wind energy systems, by the end of fiscal year 1988, of at least eight hundred megawatts, of which at least one hundred megawatts are provided by small wind energy systems; and

(3) to accelerate the growth of a commercially viable and competitive industry to

make wind energy systems available to the general public as an option in order to reduce national consumption of fossil fuel.

(Pub. L. 96-345, §2, Sept. 8, 1980, 94 Stat. 1139.)

#### SHORT TITLE

Pub. L. 96-345, §1, Sept. 8, 1980, 94 Stat. 1139, provided: "That this Act [enacting this chapter] may be cited as the 'Wind Energy Systems Act of 1980'."

#### § 9202. Definitions

For purposes of this chapter—

(1) the term "wind energy system" means a system of components which converts the kinetic energy of the wind into electricity or mechanical power, and which comprises all necessary components, including energy storage, power conditioning, control systems, and transmission systems, where appropriate, to provide electricity or mechanical power for individual, residential, agricultural, commercial, industrial, utility, or governmental use;

(2) the term "small wind energy system" means a wind energy system having a maximum rated capacity of one hundred kilowatts or less;

(3) the term "large wind energy system" means a wind energy system which is not a small wind energy system;

(4) the term "public and private entity" means any individual, corporation, partnership, firm, association, agricultural cooperative, public- or investor-owned utility, public or private institution or group, any State or local government agency, or any other domestic entity;

(5) the term "known wind resource" means a site with an estimated average annual wind velocity of at least twelve miles per hour;

(6) the term "conventional energy source" means energy produced from oil, gas, coal, and nuclear fuels; and

(7) the term "Secretary" means the Secretary of Energy.

(Pub. L. 96-345, §3, Sept. 8, 1980, 94 Stat. 1140.)

#### § 9203. Comprehensive program management plan

##### (a) Program activities and periods; consultations with heads of Federal agencies and non-Federal organizations

The Secretary shall prepare a comprehensive program management plan for the research, development, demonstration, and technology application activities to carry out the purposes of this chapter. The program activities shall be conducted in accordance with such comprehensive plan which shall include—

(1) a five-year program for small wind energy systems,

(2) an eight-year program for large wind energy systems, and

(3) a three-year program for wind resource assessment<sup>1</sup>

which shall be consistent with the provisions of sections 9204, 9205, and 9206 of this title. In the preparation of such plan, the Secretary shall

<sup>1</sup> So in original. Probably should be followed by a comma.