

USE OF FACTORS AND DATA

SEC. 596. Factors and data consented to pursuant to section 595 may be revised and agreed to by a consensus of the heads of the various Federal agencies involved. Such factors and data shall be used by all Federal agencies in establishing and revising various energy conservation standards used by such agencies, except that other factors and data may be used with respect to the standards applicable to any program if—

(1) the other factors and data are approved by the Secretary of Energy solely on the basis that such other factors and data are critical to meet the unique needs of the program concerned;

(2) using the consented to factors and data would cause a violation of an express provision of law; or

(3) statutory requirements or responsibilities require a modification of the consented to factors and data.

REPORT

SEC. 597. The President shall report to the Congress on January 1, 1981, and annually thereafter, with respect to—

(1) the activities which have been carried out under this subtitle; and

(2) other efforts which are being carried out to coordinate the various Federal energy conservation programs.

TITLE VI—GEOTHERMAL ENERGY

SHORT TITLE

SEC. 601. This title may be cited as the "Geothermal Energy Act of 1980".

FINDINGS

SEC. 602. The Congress finds that—

(1) domestic geothermal reserves can be developed into regionally significant energy sources promoting the economic health and national security of the Nation;

(2) there are institutional and economic barriers to the commercialization of geothermal technology; and

(3) Federal agencies should consider the use of geothermal energy in the Government's buildings.

SUBTITLE A

LOANS FOR GEOTHERMAL RESERVOIR CONFIRMATION

SEC. 611. (a) The Secretary of Energy (hereafter in this title referred to as the "Secretary") is authorized to make a loan to any person, from funds appropriated (pursuant to this subtitle) to the Geothermal Resources Development Fund established under section 204 of the Geothermal Energy Research, Development, and Demonstration Act of 1974 (30 U.S.C. 1144), to assist such person in undertaking and carrying out a project which (1) is designed to explore for or determine the economic viability of a geothermal reservoir

and (2) consists of surface exploration and the drilling of one or more exploratory wells.

(b) Subject to subsection (c) and to section 613(b), any loan under subsection (a) shall be repayable out of revenue from production of the geothermal energy reservoir with respect to which the loan was made, at a rate, in any year, not to exceed 20 per centum of the gross revenue from the reservoir in that year; except that if any disposition of the geothermal rights to the reservoir is made to one or more other persons by the borrower, the full amount of the loan balance outstanding, or so much of the loan balance outstanding as is equal to the full amount of the compensation realized by the borrower upon such disposition, whichever is less, shall be repaid immediately. In any case where the reservoir is confirmed (as determined by the Secretary), the Secretary may impute a reasonable revenue for purposes of determining repayment if—

(1) reasonable efforts are not made to put such reservoir in commercial operation,

(2) the borrower (or any such other person) utilizes the resources of the reservoir without a sale of the energy or geothermal energy resources therefrom, or

(3) a sale of energy or geothermal energy resources from the reservoir is made for an unreasonably low price;

except that no such imputation of revenue shall be made during the three-year period immediately following such reservoir confirmation. In the event of failure to begin production of revenue (or, where no sale of energy or geothermal energy resources is made, to begin production of energy for commercial use) within five years after the date of such reservoir confirmation, the Secretary may take action to recover the value, not to exceed the amount of the unpaid balance of the loan plus any accrued interest thereon, of any assets of the project in question, including resource rights.

(c) The Secretary may at any time cancel the unpaid balance and any accrued interest on any loan made under this section if he determines, on the basis of evidence presented by the loan recipient or otherwise, that the geothermal energy reservoir with respect to which the loan was made has characteristics which make that reservoir economically or technically unacceptable for commercial development.

(d) As used in this subtitle, the term "person" includes municipalities, electric cooperatives, industrial development agencies, nonprofit organizations, and Indian tribes, as well as the entities included within such term under 1 U.S.C. § 1.

LOAN SIZE LIMITATION

SEC. 612. The amount of any loan made under section 611(a) with respect to a project described in that section shall not exceed 50 per cent of the cost of such project; except that if the loan is made to a person proposing to make application of the resources of the reservoir involved primarily for space heating or cooling or process heat for one or more structures or facilities then existing or under construction, the loan may be in any amount up to 90 per centum of such cost. In any event no loan shall be made in an amount in excess of \$3,000,000.

LOAN RATE AND REPAYMENT

SEC. 613. (a) Each loan made under section 611 shall bear interest at a discount or interest rate equal to the rate in effect (at the time the loan is made) for water resources planning projects under section 80 of the Water Resources Development Act of 1974 (42 U.S.C. 1962(d)-17(a)).

(b) Each such loan shall be for a term which the Secretary deems appropriate, except that no loan term shall exceed twenty years beyond the date on which production of energy or geothermal energy resources begins from the reservoir involved. If revenues are inadequate (as determined by the Secretary) to fully repay the principal and accrued interest within twenty years after production begins, any remaining unpaid amounts shall be forgiven.

PROGRAM TERMINATION

SEC. 614. No new loans shall be made under this subtitle after September 30, 1986. Amounts repaid on or before September 30, 1986, on loans theretofore made under section 611 shall be deposited in the Geothermal Resources Development Fund for purposes of this subtitle. Amounts repaid after that date on loans theretofore made under section 611, and amounts deposited in the Fund for purposes of this subtitle which remain in the Fund after that date and are not required to secure outstanding obligations under this subtitle, shall be deposited into the United States Treasury as miscellaneous receipts.

REGULATIONS

SEC. 615. The Secretary shall promulgate regulations to carry out this subtitle no later than six months after the date of the enactment of this Act.

AUTHORIZATIONS

SEC. 616. There are hereby authorized to be appropriated for loans under this subtitle not to exceed \$5,000,000 for fiscal year 1981, and not to exceed \$20,000,000 for each of the four succeeding fiscal years. Amounts so appropriated shall be deposited in the Geothermal Resources Development Fund for purposes of this subtitle, and shall remain available for such purposes until expended.

SUBTITLE B

RESERVOIR INSURANCE PROGRAM STUDY

SEC. 621. The Secretary shall conduct a detailed study of the need for and feasibility of establishing a reservoir insurance and reinsurance program incorporating the terms, conditions, and provisions set forth in section 622, and shall submit to the Congress within one year after the date of the enactment of this Act a report on the results of such study including his findings and recommendations with respect thereto.

ESTABLISHMENT OF PROGRAM

SEC. 622. (a) If the report of the Secretary submitted pursuant to section 621 affirmatively recommends the establishment of the program and the Congress by law (after review of such recommendation) specifically authorizes the establishment of the program, the Secretary shall establish and implement within six months after the date of the enactment of such authorization a program, in cooperation with the insurance and reinsurance industry, to provide reservoir insurance to qualified eligible applicants in accordance with this section.

(b) For the purpose of this section—

(1) the term "investment" means the expenditure of, and any irrevocable legal obligation to expend, funds (together with the reasonable interest costs thereof) for the purchase or construction of machinery, equipment, and facilities manufactured, or for services contracted to be furnished, for the development and utilization of a geothermal resource in the United States to provide energy in the form of heat for direct use or for generation of electricity;

(2) the term "geothermal resource" means a resource in the United States including (A) all products of geothermal processes embracing indigenous steam, hot water, and hot brines; (B) steam and other gases, hot water and hot brines resulting from water, gas, or other fluids artificially introduced into geothermal formations; (C) heat or other associated energy found in geothermal formations; and (D) any byproducts derived from them, where "byproduct" means any mineral or minerals (exclusive of oil, hydrocarbon gas, and helium) which are found in solution or in association with other geothermal resources and which have a value of less than 75 per centum of the value of the geothermal steam or are not, because of quantity, quality, or technical difficulties in extraction and production, of sufficient value to warrant extraction and production by themselves;

(3) the term "risk" means the hazard that a reservoir of geothermal resources will cease to provide sufficient quantities of geothermal resources at minimum conditions required to maintain an economically or technically viable operation for utilization of the geothermal resource;

(4) the term "reasonable premiums" means premium amounts determined by the Secretary to be reasonable in light of the amount of investment subject to the risk and premiums charged in similar or analogous situations by private insurers where private insurance is concerned and by insurers or guarantors, both public and private, where public insurance is concerned;

(5) the term "other insurance" means any combination of private or public insurance other than investment insurance provided by the Secretary under this section;

(6) the term "reservoir" means the physical subsurface geologic structure which forms the natural repository for the undisturbed geothermal resource; and

(7) the term "person" means any public or private agency, institution, association, partnership, corporation, political subdivision, or other legal entity which is a United States citizen as determined by application of the test for United States citizen-

ship contained in section 2(a)-(c) of the Shipping Act, 1916 (46 U.S.C. 802), or in the first sentence of section 27A of the Merchant Marine Act, 1920 (46 U.S.C. 883-1(a)-(e)).

(c) Any person with a total direct investment of not less than \$1,000,000 in the development and use, not including exploration and testing, of a geothermal resource associated with a reservoir, and unable to obtain other insurance at reasonable premiums for the amount of the investment subject to risk, as determined by the Secretary under this section, shall be eligible for investment insurance.

(d) Any eligible person seeking investment insurance under this section shall file an application with the Secretary setting forth (1) the total amount of the contemplated investment in a geothermal resource and associated reservoir; (2) the views of the applicant concerning the nature and extent of the risk, including a geologic, engineering, and financial assessment based on site specific results of exploration and testing of the geothermal resource and the reservoir, stated with as much specificity as is possible; (3) the status of all required Federal, State, and local approvals, permits, and leases for the proposed development and utilization operations at the site; (4) the extent to which the applicant has been able to obtain other insurance against the risk; and (5) such other information as the Secretary may require.

(e) Unless the Secretary determines the risk proposed by the applicant is unreasonable, the Secretary, within ninety days after receipt of a satisfactory application, shall determine in writing and submit to the applicant (1) the risk which may cause loss of investment for the applicant; (2) the total investment subject to the risk; (3) the amount of the other insurance which is available at reasonable premiums for the purpose of indemnifying the applicant against the risk; (4) the amount of investment insurance available pursuant to this section, which shall be the difference between the total investment subject to the risk and the total other insurance determined to be available at reasonable premiums, but not in excess of the lesser of 90 per centum of, or \$50,000,000 of, the loss of investment subject to the risk; and (5) any reasonable terms and conditions necessary for the prudent administration of the program, including reasonable premiums for the insurance pursuant to this section (which shall be deposited in the Geothermal Resources Development Fund).

(f) The Secretary, within ninety days after making and submitting the determinations under subsection (e), and upon agreement of the applicant to such determinations, shall issue a certificate of insurance containing such terms and conditions as the Secretary shall specify, which shall not be transferrable without the express approval of the Secretary for good cause shown, and shall execute a contract with the applicant setting forth the terms and conditions of the investment insurance and such other provisions as may be necessary to protect the interests of the United States, including provisions with respect to the ownership, use, and disposition of any currency, credits, assets, or investments on account of which payment under such insurance is to be made and any right, title, claim, or course of action existing in relation thereto.

(g) Any holder of a certificate of insurance pursuant to subsection (f) who claims a loss of value of his investment by reason of the specified risk shall receive compensation, to the extent the Secretary

determines that the holder is eligible to receive compensation pursuant to the certificate and the contract, in the amount of the loss incurred by the holder which is subject to insurance and for which the holder has not received and will not receive compensation from other insurance.

(h) Any compensation received by the holder shall be withdrawn from the Geothermal Resources Development Fund. The full faith and credit of the United States is hereby pledged to the payment of any compensation under this section.

(i) A person shall not be denied insurance pursuant to this section solely because such person is the recipient of other Federal assistance under this or any other Act.

(j) There may be appropriated to the Geothermal Resources Development Fund (established pursuant to section 204 of the Geothermal Energy Research, Development and Demonstration Act of 1974 (30 U.S.C. 1144)), for purposes of this section, such amounts as are authorized for such purposes in the law referred to in subsection (a) or in other legislation hereafter enacted.

(k) The Secretary may enter into agreements to reinsure any private insurer for any risk associated with insurance for the development and utilization of a geothermal resource and associated reservoir, using the procedures set forth in subsections (c) through (i), to the extent that he deems it appropriate in order to provide an incentive for the participation of the private insurance industry in geothermal development; and he may also use any other available authority to obtain such participation. The Secretary shall submit a report to the Congress, within one year after the enactment of the law referred to in subsection (a), on the need for any additional authority to obtain such participation.

SUBTITLE C

FEASIBILITY STUDY LOAN PROGRAM

SEC. 631. (a) The Secretary is authorized and directed to establish a program of assistance for the accelerated development of geothermal resources for nonelectric applications by geothermal utility districts, geothermal industrial development districts, and other persons.

(b)(1) In providing assistance under the program established pursuant to subsection (a), the Secretary is authorized to make a loan to any person to defray up to 90 per centum of the costs of (A) studies to determine the feasibility of any geothermal development described in such subsection, and (B) preparing applications for any necessary licenses or other Federal, State, and local approvals respecting such development.

(2) The Secretary may cancel the unpaid balance and any accrued interest on any loan granted for a study pursuant to clause (A) of paragraph (1) if he determines, on the basis of the study, that the geothermal development is not technically or economically feasible.

(c) In providing assistance under such program, the Secretary is also authorized to make a loan to any person to defray up to 75 per centum of the costs directly related to the construction of a system or systems for nonelectric geothermal development pursuant to such subsection, where the Secretary finds that—

(1) all necessary licenses and other required Federal, State, and local approvals for construction of such system or systems have been or will be issued,

(2) the project involved will comply with all applicable laws relating to protection of the environment, and

(3) the applicant requires such assistance to undertake and complete the project.

(d) Each loan made pursuant to this section shall bear interest at a discount or interest rate equal to the rate in effect (at the time the loan is made) for water resources planning projects under section 80 of the Water Resources Development Act of 1974 (42 U.S.C. 1962(d)-17(a)). Each loan shall be for such term as the Secretary deems appropriate, but not in excess of ten years for loans under subsection (b) or thirty years for loans under subsection (c).

(e) Loans pursuant to this section shall be made from funds appropriated (pursuant to this subtitle) to the Geothermal Resources Development Fund established under section 204 of the Geothermal Energy Research, Development, and Demonstration Act of 1974 (30 U.S.C. 1144); and amounts repaid on such loans shall be deposited in the Geothermal Resources Development Fund for purposes of this subtitle.

(f) For loans under clause (A) of subsection (b)(1) for fiscal year 1981, there is authorized to be appropriated to the Geothermal Resources Development Fund not to exceed \$5,000,000, which shall remain available until expended. For loans under such clause (A) for subsequent fiscal years, and for loans under clause (B) of subsection (b)(1) or under subsection (c) (for any such subsequent fiscal year), there may be appropriated to such Fund only such sums as are authorized by legislation hereafter enacted.

(g) As used in this section, the term "person" includes municipalities, cooperatives, industrial development agencies, nonprofit organizations, and Indian tribes, as well as the districts referred to in subsection (a) and the other entities included within such term under 1 U.S.C. § 1.

SUBTITLE D—AMENDMENTS TO GEOTHERMAL RESEARCH, DEVELOPMENT, AND DEMONSTRATION ACT

SEC. 641. Title II of the Geothermal Research, Development, and Demonstration Act of 1974 (30 U.S.C. 1101 et seq.) is amended—

(1) by striking out the period at the end of the first sentence in section 201(c) and inserting in lieu thereof the following: ", except that any guarantee made for a loan to an electric, housing, or other cooperative, or to a municipality (as defined in section 3(7), part I, of the Federal Power Act), may apply to so much of the principal amount of the loan as does not exceed 90 percent of the aggregate cost of the project. In determining the aggregate cost of a project for purposes of the preceding sentence, there shall be excluded the cost of constructing electrical transmission lines to the extent that the cost of constructing such lines exceeds 25 percent of the aggregate cost of the project (as determined without regard to this sentence); except that the Secretary may waive or limit the application of this sentence with respect to any project located in the State of Hawaii upon a finding that such project is remote from the area of primary

consumption, that a transmission line is required before the geothermal reservoir can be developed, and that the particular transmission line involved will be used for more than the plant which is the subject of the loan guarantee.";

(2) by striking out "the ten-calendar-year period following the date of enactment of this Act" in section 203 and inserting in lieu thereof "fiscal year 1990"; and

(3) by adding at the end thereof the following new sections:

"APPROVAL OR DISAPPROVAL OF LOAN GUARANTEE APPLICATIONS

"SEC. 206. The Secretary, within sixty days after the enactment of this section, shall establish and implement procedures providing for a final decision on any loan guarantee application within four months of the date of filing. To the maximum extent practical, an applicant should be advised (prior to the submission of the application) of all information which will be required of the applicant in processing the application; and the date of filing shall be considered to be the date when all of such information has been submitted by the applicant. Any application proposed and filed as of the date of the enactment of this section shall be subject to final decision within not more than four months after such date.

"APPLICATION OF NATIONAL ENVIRONMENTAL POLICY ACT

"SEC. 207. The Secretary shall ensure, to the maximum extent possible, that any action undertaken pursuant to section 102(2)(C) of the National Environmental Policy Act of 1969 which is associated with the granting of a loan guarantee under this title takes the maximum cognizance allowable under law of any other action theretofore undertaken pursuant to such section 102(2)(C) with respect to the project which is the subject of such loan guarantee, and that no such action associated with the loan guarantee shall duplicate any action theretofore undertaken under such section 102(2)(C) in connection with such project, so long as all of the requirements which are applicable to such project under such section 102(2)(C) will have been satisfied."

USE OF GEOTHERMAL ENERGY IN FEDERAL FACILITIES

SEC. 642. The option of using geothermal energy or geothermal energy resources shall be considered fully in any new Federal building, facility, or installation which is located in a geothermal resource area as designated by the Secretary.

AMENDMENTS TO FEDERAL POWER ACT AND PUBLIC UTILITY REGULATORY POLICIES ACT

SEC. 643. (a) The Federal Power Act is amended—

(1) by inserting "geothermal resources," after "renewable resources," in section 3(17)(A)(i);

(2) by inserting "geothermal power producer (including a producer which is not an electric utility)," after "Federal power marketing agency," in section 210(a)(1); and

(3) by striking out "Any electric utility" at the beginning of section 211(a) and inserting in lieu thereof "Any electric utility.

geothermal power producer (including a producer which is not an electric utility)."

(b) Section 210 of the Public Utility Regulatory Policies Act of 1978 (Public Law 95-617) is amended—

(1) by inserting "; and to encourage geothermal small power production facilities of not more than 80 megawatts capacity," after "to encourage cogeneration and small power production" in the first sentence of subsection (a);

(2) by striking out "qualifying cogeneration facilities" in subsection (e)(1) and inserting in lieu thereof "geothermal small power production facilities of not more than 80 megawatts capacity, qualifying cogeneration facilities."; and

(3) by inserting "; or 80 megawatts for a qualifying small power production facility using geothermal energy as the primary energy source," after "30 megawatts" in subsection (e)(2).

REGULATIONS

SEC. 644. All regulations made with respect to this subtitle shall be promulgated no later than six months after the date of the enactment of this Act.

TITLE VII—ACID PRECIPITATION PROGRAM AND CARBON DIOXIDE STUDY

SUBTITLE A—ACID PRECIPITATION

SHORT TITLE

SEC. 701. This title may be cited as the "Acid Precipitation Act of 1980".

STATEMENT OF FINDINGS AND PURPOSE

SEC. 702. (a) The Congress finds and declares that acid precipitation resulting from other than natural sources—

(1) could contribute to the increasing pollution of natural and man-made water systems;

(2) could adversely affect agricultural and forest crops;

(3) could adversely affect fish and wildlife and natural ecosystems generally;

(4) could contribute to corrosion of metals, wood, paint, and masonry used in construction and ornamentation of buildings and public monuments;

(5) could adversely affect public health and welfare; and

(6) could affect areas distant from sources and thus involve issues of national and international policy.

(b) The Congress declares that it is the purpose of this subtitle—

(1) to identify the causes and sources of acid precipitation;

(2) to evaluate the environmental, social, and economic effects of acid precipitation; and

(3) based on the results of the research program established by this subtitle and to the extent consistent with existing law, to take action to the extent necessary and practicable (A) to limit or eliminate the identified emissions which are sources of acid

precipitation, and (B) to remedy or otherwise ameliorate the harmful effects which may result from acid precipitation.

(c) For purposes of this subtitle the term "acid precipitation" means the wet or dry deposition from the atmosphere of acid chemical compounds.

INTERAGENCY TASK FORCE; COMPREHENSIVE PROGRAM

SEC. 703. (a) There is hereby established a comprehensive ten-year program to carry out the provisions of this subtitle; and to implement this program there shall be formed an Acid Precipitation Task Force (hereafter in this subtitle referred to as the "Task Force"), of which the Secretary of Agriculture, the Administrator of the Environmental Protection Agency, and the Administrator of the National Oceanic and Atmospheric Administration shall be joint chairmen. The remaining membership of the Task Force shall consist of—

(1) one representative each from the Department of the Interior, the Department of Health and Human Services, the Department of Commerce, the Department of Energy, the Department of State, the National Aeronautics and Space Administration, the Council on Environmental Quality, the National Science Foundation, and the Tennessee Valley Authority;

(2) the director of the Argonne National Laboratory, the director of the Brookhaven National Laboratory, the director of the Oak Ridge National Laboratory, and the director of the Pacific Northwest National Laboratory; and

(3) four additional members to be appointed by the President.

(b) The four National Laboratories (referred to in subsection (a)(2)) shall constitute a research management consortium having the responsibilities described in section 704(b)(13) as well as the general responsibilities required by their representation on the Task Force. In carrying out these responsibilities the consortium shall report to, and act pursuant to direction from, the joint chairmen of the Task Force.

(c) The Administrator of the National Oceanic and Atmospheric Administration shall serve as the director of the research program established by this subtitle.

COMPREHENSIVE RESEARCH PLAN

SEC. 704. (a) The Task Force shall prepare a comprehensive research plan for the ten-year program (hereafter in this subtitle referred to as the "comprehensive plan"), setting forth a coordinated program (1) to identify the causes and effects of acid precipitation and (2) to identify actions to limit or ameliorate the harmful effects of acid precipitation.

(b) The comprehensive plan shall include programs for—

(1) identifying the sources of atmospheric emissions contributing to acid precipitation;

(2) establishing and operating a nationwide long-term monitoring network to detect and measure levels of acid precipitation;