

[PRESIDENTIAL DECREE NO. 1068, January 13, 1977]

DIRECTING THE ACCELERATION OF RESEARCH, DEVELOPMENT AND UTILIZATION OF NON-CONVENTIONAL ENERGY RESOURCES AND VESTING IN THE ENERGY DEVELOPMENT BOARD POWERS AND FUNCTIONS IN CONNECTION THEREWITH, AND FOR OTHER PURPOSES.

WHEREAS, it is imperative to accelerate the development not only of indigenous conventional energy resources but also of those non-conventional alternatives which have great potential for immediate and future applications such as but not limited to solar, wind, tidal and biomass energy; Whereas, it is essential in the interest of efficiency, economy and effectiveness to integrate in a single government entity the planning, coordination and control of the research, development and utilization efforts and programs in non-conventional forms of energy resources of the various government agencies and instrumentalities, including government owned and controlled corporations; Now, therefore, I, Ferdinand E. Marcos, President of the Philippines, by virtue of the powers and functions vested in me by the Constitution, do hereby order and decree the following as part of the law of the land:

SECTION 1. *Declaration of Policy.*—It is the declared policy of the State to achieve self-reliance in the country's energy requirements primarily through the intensified exploration, development, exploration and utilization of indigenous conventional energy resources such as petroleum, coal, natural gas and liquids, water and geothermal resources and nuclear fuel resources; and non-conventional alternatives such as solar, wind, tidal and biomass energy which have great potential for immediate and future applications. In furtherance of this policy there is an urgent need to coordinate, integrate and control the pursuit of research, development and utilization efforts of all government agencies and instrumentalities pursuant to and in accordance with a comprehensive national energy program.

SEC. 2. *Definition of Terms.*—As used in this Decree, the following words and phrases shall have the following respective meanings:

(a) *Non-Conventional Energy Resources* refers to those energy resources in which the conversion or utilization technology for large-scale (megawatt level) applications are not as well-developed and/or widely use as those for fossil fuels, hydrageothermal and conventional nuclear. In general, these resources would include the direct and indirect forms of solar, tidal nuclear converter and breeder reactors and fusion.

(b) *Direct Solar Energy* — means the energy content of solar radiation harnessed by collecting sunlight in man-made devices such as flat-plate or focusing solar collectors.

(c) *Indirect Solar Energy* — means the energy content of solar radiation harnessed by initially collecting sunlight in a natural manner such as absorption by land, atmosphere, ocean surface and plants. This natural collection mode gives rise to winds (by thermal gradients in the atmosphere), produces organic matter or bio-mass and creates ocean thermal gradients between the surface and its depths.

(d) *Bio-mass* — refers to organic matter, whether living or not. This would include, among others, trees, algae, animal and agricultural wastes and decaying plants in swamps.

(e) *Bio-conversion to Fuels* — refers to the various processes, natural or synthetic, by which a solid, liquid or gaseous fuel is produced by utilizing bio-mass feedstock, e.g. anaerobic fermentation of animal manure to yield bio-gas; combustion of firewood to yield heat, steam or power, fermentation of agricultural crops or by-products to yield substitute fuels such as alcohol.

(f) *Bio-gas* — is a fuel gas consisting of 50-70% methane and the rest non-combustible gases produced by the anaerobic fermentation of organic waste.

(g) *Energy Plantation* — is a scheme whereby fast-growing crops or trees such as ipil-ipil are deliberately and systematically planted in order to continuously provide fuel to a power generating station located at the site.

(h) *Comprehensive national energy program* — for purposes of this Decree is a program of research, development or utilization of non-conventional energy resources duly approved by the Energy Development Board.

SECTION 3. *Powers and Functions of the Energy Development Board.* — In addition to its powers and functions enumerated in Presidential Decree No. 910 and other laws, rules and regulations, the Energy Development Board shall exercise the following powers and functions:

1. Formulate and direct the implementation of a comprehensive national energy program, subject to periodic review and revisions on non-conventional energy research, development and utilization.
2. Integrate, coordinate, direct and control all research, development and utilization efforts, programs and projects in non-conventional energy resources of all government agencies and instrumentalities including government owned and controlled corporations.
3. Review and approve all on-going or planned research, development and utilization projects on non-conventional energy whether basic or applied in nature, supported or planned to be supported by government funds or funds obtainable elsewhere through government intercession or assistance.
4. Formulate criteria for determining priority for proposed research, development and utilization projects on non-conventional energy resources and accordingly identify and select execution, financing and funding schemes.
5. Designate project implementors, coordinate and monitor the progress of all projects and activities, on-going or planned projects, in the implementation of the comprehensive national energy program.