

FOURTEENTH CONGRESS OF THE  
REPUBLIC OF THE PHILIPPINES  
*First Regular Session*

7 JUN 30 13:55

SENATE

S. B. No. 211RECEIVED BY: Jim

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**Introduced by SENATOR EDGARDO J. ANGARA**

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**EXPLANATORY NOTE**

Philippines, which is situated on the periphery of the Asia-Pacific belt and which boasts a successful track record of exploiting local abundant geothermal energy, exhibits a vast, well-mapped potential for New and Renewable Energy (NRE) resources. These indigenous NRE which include, among others, biomass, solar, wind, geothermal, hydropower and ocean energy, and other emerging energy sources are considered as both clean sources of energy and a viable alternative to providing electricity to off-grid barangays.

To date, the Philippines is already a major user of NREs. In fact, NREs as an alternative to conventional / fossil-fuel based energy source, represent the country's single energy source contributing around 28% of the total energy requirements. But since we still depend greatly on imported energy and fuel products (constituting 72% of our energy demands) and there are about 10,000 unelectrified barangays in the country, there exist a pervading need for the government to intensify efforts to tap indigenous energy sources to cope up with the increasing energy requirements.


Specifically, the country's *wind energy* potential is over 70,000 MW, PAGASA showing the national average mean wind power density of about 30.8 watts per square meter ( $W/m^2$ ); using solar panels, we can generate 169 watts/ $m^2$  for our *solar energy* applications, with an average solar radiation based on sunshine duration of 161.7  $W/m^2$  with a range of 128-203  $W/m^2$ ; the aggregate *micro-hydro power* potential is about 27.8 MW located in various areas of the country; our *ocean energy* resource area is 1,000 kms<sup>2</sup> which is attributed mainly on the Philippines's archipelagic nature, with an estimated potential capacity of about 265 million MW; and *biomass potential* will save us over 80 million barrels of fuel oil equivalent in the next four (4) years. 

Thus said, the contribution of the utilization of NRE as an alternative indigenous energy resource to the country's energy requirements cannot be overemphasized.

This Bill seeks to strengthen and institutionalize current efforts to implement and develop decentralized, area-based and integrated energy program for the promotion, production, commercialization and utilization of renewable energy systems by providing benefits and incentives to entities and stakeholders engaged in the manufacture, distribution and use of these NREs.

These proposed reforms in our power sector is envisioned as a response to the perennial problems in the industry, with electricity tariffs that are among the highest in Asia, to speed up the extension of service coverage to all barangays by 2010 as well as the connection of all potential consumers by 2018, bringing electricity to all of 10.17 million potential consumers by 2025, and ultimately, achieving the Philippine vision of a sustainable energy system with renewables taking a lead in the process.

Indeed, it is high time that we pass this bill.

  
**EDGARDO J. ANGARA**  
Senator

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**AN ACT STRENGTHENING THE PHILIPPINE ENERGY PLAN  
FOR THE EXPLORATION, DEVELOPMENT, AND UTILIZATION  
OF NEW AND RENEWABLE ENERGY SYSTEMS USING  
INDIGENOUS RESOURCES AND FOR OTHER PURPOSES.**

*Be it enacted by the Senate and the House of Representatives of the  
Philippines in Congress assembled:*

**CHAPTER I**

**TITLE AND DECLARATION OF POLICY**

1       **SECTION 1. *Short Title.*** This Act shall be known as the  
2       ***“Renewable Energy Resources Act of 2007.”***

3  
4       **SECTION 2. *Declaration of Policies.*** It is hereby declared the  
5       policy of the State to:

- 6       a) Advance the goals of energy self-sufficiency, energy affordability,  
7       rural electrification, energy security in the country’s energy  
8       requirements both in electric power and fuel;
- 9       b) Reduce reliance on generation systems powered by imported fuels to  
10       minimize the effects of price fluctuations in the international market  
11       to the economy;
- 12       c) Promote and encourage the use of renewable energy sources by  
13       institutionalizing its use, including the development of national and  
14       local capabilities in the use of renewable energy systems, and  
15       providing fiscal and non-fiscal benefits thereto;
- 16       d) Promote and prioritize the utilization of renewable energy resources  
17       for non-power application;

- 1 e) Adopt full cost accounting principles in the generation of electricity
- 2 to rationalize the cost inherent in power generation and
- 3 consequently, reduce harmful emissions generated therefrom; AND
- 4 f) Establish the necessary infrastructure to carry out the mandate set
- 5 herein and other laws.

6 Towards this end, the State shall promote the exploration,  
7 development, and utilization of new and renewable energy systems (NRES)  
8 by:

- 9 a) Setting up mechanisms to develop local capabilities in the
- 10 development and use of indigenous renewable energy sources;
- 11 b) Generating a conducive business environment to encourage
- 12 investments and allow easier participation of the private sector in
- 13 the development of renewable energy resources;
- 14 c) Promoting the development and use of indigenous renewable
- 15 energy resources in consonance with environmental protection;
- 16 d) Developing opportunities for all stakeholders to participate in the
- 17 planning and implementation of renewable energy projects and
- 18 priorities; AND
- 19 e) Promoting greater private sector investment and allow easier
- 20 participation in the implementation of renewable energy projects
- 21 and activities.

22  
23 **SECTION 3. Scope.** This Act shall establish the framework for the  
24 rationalization of all the cost related to the generation of electricity, the grant  
25 of fiscal and non-fiscal incentives to Renewable Energy components, projects  
26 and operations and the program to increase its utilization.

27  
28 **SECTION 4. Definition of Terms.** For purposes of this Act:

- 29 a) ***“Affiliated Renewable Energy Centers (AREC)”*** shall refer to
- 30 institutions established by the DOE to provide extension and technical
- 31 services at the national and local levels in the promotion and
- 32 dissemination of renewable energy technologies. Specifically, it refers
- 33 to any university, college, non-government organization or private
- 34 volunteer organization certified by the DOE upon its compliance with
- 35 the technical and legal requirements that shall be imposed by DOE;

- 1 b) ***“Alternative Fuels / Alternative Fuel Systems”*** refer to use of  
2 materials, machinery and / or equipment to generate power using non-  
3 petroleum fuels. The machinery and / or equipment may be modified  
4 from its original condition or an original equipment manufacturer  
5 (OEM) that allow the usage of alternative fuel or that further produce,  
6 handle, store, and / or utilize alternative fuels;
- 7 c) ***“Biomass Energy Systems”*** shall refer to energy systems that use  
8 biomass resources generated by extensive agriculture, livestock, and  
9 forestry industries to produce heat, steam, mechanical power,  
10 electricity, fuels and fuel additives, either through thermochemical,  
11 biochemical, or physiochemical processes;
- 12 d) ***“Biofuels”*** shall refer to liquid fuels and blending components  
13 produced from biomass feedstocks, such as: ethanol from corn, cassava,  
14 sugarcane and biodiesel from coconut and vegetable oil, used primarily  
15 for land, air and water transportation and other energy-using  
16 equipment designed for various purposes such as substitute or  
17 additive to fossil-petroleum fuels;
- 18 e) ***“Biogas”*** shall refer to the gas produced from the anaerobic  
19 decomposition or organic materials;
- 20 f) ***“Biomass Resources”*** shall refer to natural or processed plants and  
21 plant materials, trees, crop residues, wood and bark residues, animal  
22 manure, and municipal solid waste or any organic that can be used in  
23 bioconversion process;
- 24 g) ***“Cooperating Research Institutions (CRI)”*** shall refer to  
25 institutions doing research and development activities in collaboration  
26 with the DOE for the advancement of New and Renewable Energy  
27 Systems (NRES);
- 28 h) ***“Conventional Energy Systems”*** shall refer to energy systems that  
29 use commercially-traded fuels such as petroleum products, coal and  
30 electricity produced from such fuels, including large-scale hydro and  
31 geothermal power plants;
- 32 i) ***“Department of Environment and Natural Resources (DENR)”***  
33 refers to the government agency created pursuant to Executive Order  
34 No. 192;
- 35 j) ***“Department of Finance (DOF)”*** refers to the government agency  
36 created pursuant to Executive Order NO. 127, as amended;

- 1 k) ***“Department of Science and Technology (DOST)”*** refers to the  
2 government agency created pursuant to Executive Order No. 128;
- 3 l) ***“Distribution of Electricity”*** refers to the conveyance of electric  
4 power by a Distribution Utility through its distribution system  
5 pursuant to the provisions of Republic Act No. 9136 and its  
6 implementing rules and regulations;
- 7 m) ***“Distribution Utility”*** refers to any electric cooperative, private  
8 corporation, government-owned utility or existing local government  
9 unit which has an exclusive franchise to operate a distribution system  
10 in accordance with its franchise and Republic Act No. 9136;
- 11 n) ***“Energy Regulatory Commission (ERC)”*** refers to the independent  
12 regulatory agency created pursuant to Republic Act No. 9136;
- 13 o) ***“Generation Facility”*** refers to a facility for the production of  
14 electricity and / or thermal energy such as steam, hot or cold water;
- 15 p) ***“Geothermal Energy”*** refers to all geothermal fluids whether existing  
16 naturally or formed by the artificial introduction of fluids into  
17 naturally hot formation, heat energy in the earth, and any by-product  
18 derived from them;
- 19 q) ***“Geothermal Energy Systems”*** refer to machines or other equipment  
20 that converts geothermal energy into useful power;
- 21 r) ***“Geothermal Resources”*** shall refer to either i) all products of  
22 geothermal processes, embracing indigenous steam, hot water and hot  
23 brines; ii) steam and other gases, hot water and hot brines resulting  
24 from water, gas, or other fluids artificially introduced into geothermal  
25 formations; iii) heat or associated energy found in geothermal  
26 formations; and iv) any by-product derived from them;
- 27 s) ***“Government Share”*** refers to the amount due the National  
28 Government and Local Government Units from the exploitation,  
29 development and utilization of naturally-occurring renewable energy;
- 30 t) ***“Grid”*** refers to the high voltage backbone system of interconnected  
31 transmission lines, substations and related facilities, located in each of  
32 Luzon, Visayas, and Mindanao, or as may otherwise be determined by  
33 the ERC in accordance with the implementing rules and regulations of  
34 Republic Act No. 9136;
- 35 u) ***“Hybrid Systems”*** shall refer to any power or energy generation  
36 facility which makes use of two or more types of technologies utilizing

1 both conventional and / or renewable fuel sources, such as but not  
2 limited to integrated wind /diesel systems, integrated solar / wind  
3 systems, biomass / fossil fuel systems, hydro / fossil fuel systems,  
4 integrated solar / biomass systems, integrated wind / fossil fuel  
5 systems, with a minimum of ten megawatts or ten percent (10%) of the  
6 annual energy output provided by the RES components of the hybrid  
7 systems, whichever is lower;

8 v) ***“Hydroelectric Power Systems or Hydropower Systems”*** shall  
9 refer to water-based energy systems which produce electricity by  
10 utilizing the kinetic energy of falling or running water to turn a  
11 turbine generator;

12 w) ***“Hydroelectric Power Development or Hydropower  
13 Development”*** shall refer to the construction and installation of a  
14 hydroelectric power-generating plant and its auxiliary facilities, such  
15 as diversion structure, headrace, penstock, substation, transmission,  
16 and machine shop, among others;

17 x) ***“Hydroelectric Power Resources or Hydropower Resources”*** shall  
18 refer to resources found technically feasible for development of  
19 hydropower projects which include rivers, lakes, waterfalls, irrigation  
20 canals, springs, ponds and other water bodies;

21 y) ***“Large or Conventional Hydroelectric Power Plants or Large or  
22 Conventional Hydro Plants”*** refer to electric power-generating  
23 plants which i) utilize the kinetic energy of falling or running water  
24 (run-of-river or impounding hydropower plants) to turn a turbine  
25 generator producing electricity; and ii) have installed capacities of  
26 more than 10,000 kilowatts (kW);

27 z) ***“Micro-Hydro Power Systems”*** shall refer to small hydro-based  
28 energy systems which utilize water turbines with an installed capacity  
29 of less than 100 kilowatts (100 KW) as may be determined by the  
30 DOE, to convert the energy from running or falling water into  
31 mechanical or electrical power;

32 aa) ***“Mini-Grid Systems”*** refer to electrical systems composed of power  
33 generating plant, distribution lines, substations and related facilities  
34 that are installed at isolated locations and are not connected to the  
35 Grid;

- 1       bb) ***“Mini-hydroelectric Power Plants or Mini-hydro Plants”*** refer to  
2       electric power-generating plants which i) utilize the kinetic energy of  
3       falling or running water (run-of-river hydropower plant) to turn a  
4       turbine generator producing electricity; and ii) have installed  
5       capacities of more than 100 kilowatts but not more than 10,000  
6       kilowatts;
- 7       cc) ***“Missionary Electrification”*** refers to the provision of basic  
8       electricity service in unviable areas with the aim of bringing the  
9       operations in these areas to viability levels;
- 10      dd) ***“National Power Corporation (NPC)”*** refers to the government  
11      corporation created under Republic Act No. 6395, as amended;
- 12      ee) ***“National Transmission Corporation (TRANSCO)”*** refers to the  
13      corporation created pursuant to Republic Act No. 9136 which is  
14      responsible for the planning, construction, and centralized operation  
15      and maintenance of high voltage transmission facilities, including grid  
16      interconnection and ancillary services;
- 17      ff) ***“New and Renewable Energy Systems (NRES)”*** shall refer to  
18      indigenous, small-scale, decentralized and modular energy systems  
19      which include production and use of renewable energy resources to  
20      produce heat, steam, mechanical power, electricity, fuels or fuel  
21      additives, excluding large-scale hydro and geothermal power plants;
- 22      gg) ***“Ocean Energy Systems”*** shall refer to energy systems that either  
23      convert ocean current to electrical energy, otherwise known as ‘**wave  
24      and tidal power systems**’ or convert thermal gradient from the  
25      ocean surface to the bottom into electrical energy, otherwise known as  
26      **“Ocean Thermal Energy Conversion (OTEC) systems;”**
- 27      hh)       ***“Off-Grid Systems”*** refer to electrical systems not connected to  
28      the wires and related facilities of the Grid;
- 29      ii) ***“On-Grid Systems”*** refer to electrical systems composed of  
30      interconnected transmission lines, distribution lines, substations and  
31      related facilities, for the purpose of conveyance of bulk power on the  
32      Grid;
- 33      jj) ***“Oxygenate Gasoline”*** shall refer to gasoline formulated with added  
34      substance such as menthanol, ethanol and ethyl tertiary butyl ether  
35      (ETBE) to increase the oxygen content and octane rating and make the



1 fuel burn more cleanly, thereby reducing toxic tailpipe pollution,  
2 particularly carbon monoxide;

3 kk) ***“Power Development Program (PDP)”*** shall refer to the  
4 indicative plan for managing electricity demand through energy-  
5 efficient programs and for the upgrading, expansion, rehabilitation,  
6 repair and maintenance of power generation and transmission  
7 facilities, formulated and updated annually by the Department in  
8 coordination with the generation, transmission and distribution utility  
9 companies;

10 ll) ***“Renewable Energy Developers or RE Developers”*** refer to an  
11 individual or a group of individuals formed in accordance with existing  
12 Philippine Laws engaged in the exploration, development and  
13 utilization of renewable energy resources and actual operation of  
14 renewable energy systems / facilities;

15 mm) ***“Renewable Energy Resources”*** shall refer to indigenous  
16 resources, with a rapid renewable rate, and which do not have an  
17 upper limit on the total quantity to be used. These resources are  
18 renewed on a regular basis and shall include, among others, biomass,  
19 solar, wind, geothermal, hydropower and ocean energy, and other  
20 emerging energy sources using new technologies such as fuel cells and  
21 hydrogen cells;

22 nn) ***“Renewable Energy Service (Operating) Contract or RE***  
23 ***Contract”*** refers to the service agreement between the Government,  
24 thru the Department of Energy, and RE Developer over a period in  
25 which the RE Developer has the exclusive right to a particular RE area  
26 for exploration and development. The RE Contract shall be divided  
27 into two (2) stages: the pre-development stage and the development /  
28 commercial stage. The preliminary assessment and feasibility study up  
29 to financial costing shall refer to the pre-development stage. The  
30 construction and installation of facilities up to operation phase shall  
31 refer to the development stage;

32 oo) ***“Renewable Energy Systems (RES)”*** refer to energy which convert  
33 renewable energy resources into useful energy forms, like electrical,  
34 mechanical, etc.;

- 1 pp) ***Republic Act No. 9136 or Electric Power Industry Reform Act of***  
2 ***2001 (EPIRA Law)*** refers to the law mandating the restructuring of  
3 the electric power sector and the privatization of NPC;
- 4 qq) ***Rural Electrification*** refers to the delivery of basic electricity  
5 services, consisting of power generation, sub-transmission, and /or  
6 extension of associated power delivery system that would bring about  
7 important social and economic benefits of the countryside;
- 8 rr) ***Small Power Utilities Group (SPUG)*** refers to the functional unit  
9 of the National Power Corporation mandated under Republic Act No.  
10 9136 to pursue missionary electrification function;
- 11 ss) ***Solar Energy*** shall refer to the radiant energy of the sun;
- 12 tt) ***Solar Energy Systems*** shall refer to energy systems which directly  
13 tap and convert solar energy, either through solar thermal applications  
14 or through photovoltaic cells, into electricity;
- 15 uu) ***Transmission of Electricity*** refers to the conveyance of  
16 electricity through the high voltage backbone system;
- 17 vv) ***Waste-to-Energy Technologies*** shall refer to systems which  
18 convert biodegradable materials such as animal manure, agricultural  
19 waste, etc., into useful energy through chemical processes such as  
20 anaerobic digestion, fermentation and gasification, among others;
- 21 ww) ***Wind Energy*** shall refer to the kinetic energy of the wind  
22 converted into electrical or mechanical energy; AND
- 23 xx) ***Wind Energy Systems*** shall refer to energy systems which use wind  
24 turbines to tap wind energy and convert it to mechanical power as in  
25 windmill or electrical power in wind turbine systems;

## 27 CHAPTER II

### 28 ORGANIZATIONAL MANDATE

29  
30 **SECTION 5. *Lead Agency and Its Powers and Functions.*** In  
31 addition to its existing mandate under Republic Act 7638, as amended by  
32 Republic Act 9136 (EPIRA Law), the Department of Energy (DOE) shall have  
33 the following powers and functions under this Act:

- 34 a) Formulate, maintain and regularly update an integrated and  
35 comprehensive Philippine Renewable Energy Program (PREP) aimed  
36 at stepping up the exploration, development and utilization of

1 renewable energy systems towards a self-sufficient, self-reliant energy  
2 requirements for the country;

3 b) Provide all the necessary and appropriate support services in the  
4 implementation of the PREP, including the facilitation of entry of  
5 foreign expertise and resources;

6 c) Establish a mechanism for the integration, rationalization and  
7 coordination of the various activities, projects and programs on  
8 renewable energy of all government agencies and instrumentalities;

9 d) Develop and implement specific policies, mechanisms and procedures  
10 encouraging the participation of the private sector including  
11 Independent Power Producers (IPPs), private individuals, non-  
12 governmental organizations (NGOs), private volunteer organizations,  
13 and other interested parties;

14 e) Expedite the processing, certification and approval of applications for  
15 RES projects through the establishment of relevant model operating  
16 contracts, standards, procedures, terms and conditions;

17 f) Formulate, maintain and regularly update an information system of  
18 renewable energy technologies and establishments with renewable  
19 energy systems, within six (6) months from the effectivity of this Act;

20 g) Impose such reasonable fees and charges in connection with the filing,  
21 processing, evaluation and approval of applications for New and  
22 Renewable Energy Systems' Projects;

23 h) Require the RE Developer to post a bond or guarantee of sufficient  
24 amount in favor of the Government and with surety or sureties  
25 satisfactory to the DOE upon the faithful performance by the RE  
26 Developer of any or all of the obligations under and pursuant to the RE  
27 operating contract within sixty (60) days after effective date of the  
28 contract;

29 i) Within six (6) months from the approval of this Act, promulgate in  
30 consultation with all stakeholders, including government agencies,  
31 such as the National Water Resources Board (NWRB), Department of  
32 Natural Resources-Environmental Management Bureau (DENR-  
33 EMB), Energy Regulatory Commission (ERC), Department of Finance  
34 (DOF), Department of Trade and Industry (DTI), among others, such  
35 rules and regulations as may be necessary to implement the objectives  
36 and provisions of this Act; AND

1 j) Exercise such powers and functions as are necessary or incidental to  
2 achieve the purposes of this Act.

3  
4 **SECTION 6. *Institutionalization of Affiliated Renewable Energy***  
5 ***Centers (ARECS).*** – There shall be established ARECs to serve as a support  
6 to the extension and technical services of the DOE in the field  
7 implementation of renewable energy projects pursuant to the objectives of  
8 this Act. An AREC can be a recipient of donations or grants from the DOE  
9 and other donor agencies to develop and strengthen their capabilities to  
10 effectively perform their responsibilities under the Renewable Energy Policy  
11 Framework. The Affiliated Non-conventional Energy Centers (ANECs) shall  
12 be known as ARECs upon evaluation and accreditation of the DOE.

13  
14 **CHAPTER III**  
15 **ON-GRID RENEWABLE DEVELOPMENT**

16  
17 **SECTION 7. *On-Grid Renewable Energy Generation.*** – The DOE  
18 shall develop and implement a Renewable Portfolio Standard (RPS) that  
19 shall be imposed on all non-RE generators of electricity and shall mandate all  
20 grid-users, particularly the distribution utilities and electricity suppliers, a  
21 percentage utilization of electricity from eligible RES and targets fifty  
22 percent (50%) RES capacity of the total generation on the Grid. The timetable  
23 and scheme of implementation for this target shall be stipulated in the REPF  
24 and the Philippine Energy Plan.

25  
26 **SECTION 8. *Full Cost Accounting.*** The DOE shall spearhead a  
27 multi-agency effort that shall determine the full cost involved in the  
28 generation of electricity. It shall then make all generators account for all the  
29 environmental, economic, health and other detrimental cost associated with  
30 or resulting from the production of electricity.

31 The DOE shall develop and implement a program of collecting fees  
32 from all generating plants and such fees shall be used to support the  
33 development and operation of clean and renewable sources of energy. Said  
34 fees shall be based on the level of emissions and their detrimental effects and  
35 shall accrue to the Renewable Energy Trust Fund established herein.

36

1           **SECTION 9. *Renewable Energy Market (REM).*** – To facilitate  
2 compliance with the provisions of this Act, the Department shall, in  
3 consultation with the Wholesale Electricity Spot Market (WESM), establish a  
4 Renewable Energy Market and promulgate the Rules for the same.

5           The Department, through the WESM shall also establish or appoint a  
6 Renewable Energy Registrar that shall issue, keep and verify Renewable  
7 Energy Certificates corresponding to energy generated from eligible  
8 Renewable Energy sources. Said certificates may be used for compliance with  
9 the RPS.

10  
11           **SECTION 10. *Intermittent Renewable Energy Generation.*** –  
12 Specific for power generating facilities using intermittent RE sources such as  
13 wind and solar among others, the DOE, in coordination with TRANSCO and  
14 other industry participants, shall facilitate the interconnection of these  
15 facilities to the main Grid and shall formulate production predictability  
16 incentive schemes (capacity forecast premium).

17  
18           **SECTION 11. *Green Energy Option.*** A Green Energy Option  
19 program which provides end-users the option to choose renewable energy  
20 sources, shall be made available to all end-users. Towards this end, the DOE  
21 shall establish the necessary support and facilities and the modification of  
22 the Implementing Rules and Regulations (IRRs), WESM Rule or any other  
23 rule or regulation to implement the right to choose Renewable Energy.

24           End-users with a monthly average peak demand of at least one  
25 hundred kilowatts (100 kW) for the preceding twelve months, may also  
26 directly contract for RE-based energy upon the promulgation of the IRRs  
27 thereof by the DOE; *Provided, That* the availing parties shall have at least  
28 one hundred kilowatts (100 kW) as the RE Contract demands or source at  
29 least fifty-one percent (51%) of its requirements from RES, whichever is  
30 higher.

31           In line herewith, the Distribution Utilities, TRANSCO, WESM and all  
32 other parties involved in bringing about the success of the Green Energy  
33 Option cited above or any other variant promulgated by the DOE shall  
34 ensure and provide the workings for the physical connection and commercial  
35 arrangements required.

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CHAPTER V

OTHER RENEWABLE ENERGY MARKETS

**SECTION 14. *Promotion of Non-Power Renewable Energy Systems.*** – The DOE shall develop specific support programs for business entities, marketers and distributors of, among others, solar water heaters, windpumps, biomass-fired thermal systems and other non-power renewable energy equipment such as engines, machines and/or equipment capable of using alternative fuels or fossil/alternative fuel blends as energy source. DOE shall ensure that these entities can also avail of the incentives provided for renewable energy markets and activities as specified under Section 24 of this Act.

**SECTION 15. *Renewable Energy and Ecotourism.*** – The DOT, in collaboration with the DOE, shall develop technical and financing support programs for ecotourism projects using renewable energy systems and establish accreditation system for the use of environment-friendly renewable energy resources in facilities located or to be constructed in tourists spots, such as beaches, spas, resort areas, cultural centers, etc. The DOT and DOE shall prepare a priority list of ecotourism projects with renewable energy component to promote viable investments in remote and rural areas. The BOI shall incorporate the same in the annual preparation of its Investment Priorities Plan.

CHAPTER VI

GOVERNMENT SHARE

**SECTION 16. *Uniform Government Sharing Scheme.*** – Notwithstanding any law to the contrary, all government shares from the proceeds of the exploration, development and utilization of RE generation projects shall be rationalized in accordance with the following:

- a. The government's share shall be equal to at least two *per centum* (2%) of the gross revenues of the contractor for the exploration, development and utilization of geothermal resources and one and one half *per centum* (1.5%) of the gross revenues for other RE resources;





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CHAPTER IX  
GENERAL INCENTIVES

**SECTION 19. *Incentives for Renewable Energy Projects and Activities.*** – All RE Developers, operators, and users of RE facilities including expansion activities, for both power and non-power applications, as duly certified by the DOE and in consultation with the DOF and DTI, shall be entitled to the following privileges:

a. *Tax and Duty-Free Importation of Machinery, Equipment and Materials.* – Within the duration of a RE operating contract, importation of machinery and equipment, and materials and parts thereof, whether or not shipped with such machinery and equipment, including control and communication equipment, shall not be subject tariff duties and value-added tax: *Provided, However,* that the said machinery, equipment, materials and parts are: 1) not manufactured domestically in reasonable quantity and quality; 2) directly and actually needed and shall be used exclusively in the RE facilities for transformation into energy, and transmission of electric energy to the point of use; and 3) covered by shipping documents in the name of the duly registered Operator to whom the shipment will be directly delivered by customs authorities: *Provided, Further,* that prior approval of the DOE is obtained before the importation of such machinery, equipment, materials and parts are made;

b. *Tax Credit on Domestic Capital Equipment.* – A tax credit equivalent to one hundred percent (100%) of the value of the value-added tax and custom duties that would have been paid on the machinery, equipment, materials and parts had these items been imported shall be given to a RE operating contract holder who purchases machinery, equipment, materials and parts from a domestic manufacturer for purposes set forth under the preceding paragraph (a) (2); *Provided,* That prior approval by the DOE was obtained by the local manufacturer; *Provided, Further,* That the acquisition of such machinery, equipment, materials, and parts shall be made within the validity of the RE operating contract;

c. *Real Estate Tax Exemption.* – Notwithstanding any law to the contrary, all lands, including easements, civil works, equipment,

1 machinery, and other improvements of a registered RE developer  
2 actually and exclusively used for RES facilities shall be exempted from  
3 the payment of any real estate tax; *Provided*, That the activities they  
4 engage in exhibit high social economic returns and necessary to assist  
5 reasonable recovery of large investments;

6 d. *Income Tax Holiday and Exemption.* – For the first eight (8) years of  
7 its actual commercial operation, the RE operating contract holder shall  
8 be fully exempt from income taxes levied by the National Government;  
9 and

10 e. *RE Production Predictability / Forecast Premium / Bonus.* – RE  
11 contract holder shall be entitled to a share of RE Production  
12 Premium/Bonus proportionate to the actual power generation from its  
13 RE facility as determined by the DOE. For this purpose, there is  
14 hereby established a Production Premium/Bonus Fund and for which  
15 one centavo (Php 0.01) for every kilowatt-hour sold shall be collected  
16 from every generating facilities by the TRANSCO and/or system  
17 market operator.

18  
19 **SECTION 20. *Hybrid and Cogeneration Systems.*** The tax  
20 exemptions and/or incentives provided for in Section 20 shall be availed of by  
21 RE operating contract holders of hybrid and cogeneration systems, utilizing  
22 both RE sources and conventional energy; *Provided, However*, That tax  
23 exemptions and incentives shall apply only to the equipment, machinery and  
24 / or devices utilizing RE sources.

25  
26 **SECTION 21. *Intermittent RE Resources.*** Subject to technical and  
27 financial feasibility considerations and WESM rules, qualified RE generating  
28 units with intermittent RE sources shall enjoy priority dispatch status. The  
29 DOE shall, in consultation with the industry participants promulgate the  
30 rules and regulations therefore.

31  
32 **SECTION 22. *Incentives for RE Commercialization.*** – All  
33 manufacturers, fabricators and suppliers of locally-produced RE equipment  
34 and components duly recognized and accredited by the DOE, in consultation  
35 with DOST, DOF and DTI, shall be entitled to the following privileges.

1 (a) *Tax and Duty-Free Importation of Components, Parts, and Materials.* –

2 All shipments necessary for the manufacture and/or fabrication of RE  
3 equipment and components shall be exempted to importation tariff and  
4 duties and value added tax; *Provided, However,* That said components,  
5 parts and materials are: i) not manufactured domestically in  
6 reasonable quantity and quality at reasonable prices; ii) actually,  
7 directly and exclusively used in the manufacture / fabrication of RE  
8 equipment; and iii) covered by shipping documents in the name of the  
9 duly registered manufacturer / fabricator to whom the shipment will be  
10 directly delivered by customs authorities; *Provided, Further,* that prior  
11 approval of the DOE was obtained before the importation of such  
12 components, parts and materials were made;

13 (b) *Tax Credit on Domestic Capital Components, Parts and Materials.*– A

14 tax credit equivalent to one hundred percent (100%) of the value of the  
15 value-added tax and custom duties that would have been paid on the  
16 components, parts and materials, had these items been imported shall  
17 be given to a RE equipment manufacturer, fabricator, and supplier  
18 duly recognized and accredited by the DOE, who purchases RE  
19 components, parts and materials from a domestic manufacturer:  
20 *Provided,* That such components, materials and parts are directly  
21 needed and shall be used exclusively by the RE manufacturer,  
22 fabricator and supplier for the manufacture, fabrication and sale of RE  
23 equipment; *Provided, also,* That prior approval by the DOE was  
24 obtained by the local manufacturer;

25 (c) *Local Taxes* – All duly recognized and accredited RE equipment

26 manufacturer / fabricator shall be exempted from taxes and fees  
27 imposed by local government units, such as real estate tax on lands,  
28 local business tax, building permits fees, among others; *Provided,* That  
29 the manufacturing / fabricating facilities are in compliance with the  
30 established performance standards certified by the DOE;

31 (d) *Special Realty Tax Rates on Equipment and Machinery.*– Any provision

32 of the Real Property Tax Code or any other law to the contrary  
33 notwithstanding, realty and other taxes on civil works, equipment,  
34 machinery, and other improvements of a DOE recognized and  
35 accredited RE manufacturer, fabricator and supplier of RE equipment

1 shall not one percent (1%) of their original cost of such civil works,  
2 machinery, equipment, devices and/or other components;

3 (e) *Value-Added Tax Exemption.* – Exemption from the ten percent (10%)  
4 value-added tax on (i) the gross receipts derived from the sale of  
5 locally-manufactured RE equipment and components; (ii) imported and  
6 locally purchased machinery, equipment and devices described in  
7 items (a) and (b) hereof; and (iii) other local Value-Added Tax;

8 (f) *Income Tax Holiday and Exemption.* – For eight (8) years starting from  
9 the date of recognition / accreditation, a RE manufacturer, fabricator  
10 and supplier of RE equipment shall be fully exempt from income taxes  
11 levied by the national Government.

12  
13 **SECTION 23. *Period of Grant of Fiscal Incentives.*** The fiscal  
14 incentives granted under this Act shall apply only to the first 2,500 mW  
15 capacity sources from RE upon approval of this Act or shall cease to have  
16 force and effect twenty (20) years after the approval of this Act, whichever  
17 comes first. Thereafter, the tax treatment applicable to the parties concerned  
18 prior to the passage of this Act shall thereafter apply.

19  
20 **SECTION 24. *Renewable Energy One Stop Shop (REOSS).*** There  
21 is hereby created a Renewable Energy One Stop Shop (REOSS) under the  
22 administration and direct supervision of the DOE through its appointed  
23 Undersecretary, which shall facilitate in the processing and approval of  
24 permits, among others.

25 To facilitate the development of RE projects, the DOF, DENR, National  
26 Power Corporation – Small Power Utilities Group (NPC-SPUG), TRANSCO,  
27 all Government Financial Institutions (GFIs), the private sector, academe,  
28 non-governmental organizations and other involved agencies shall extend  
29 technical assistance and designate a representative to the REOSS.

30  
31 **SECTION 25. *Renewable Energy Trust Fund (RETF).*** – A  
32 Renewable Energy Trust Fund, to be administered by the DOE as a special  
33 account in any of the GFI, is hereby established for the development and  
34 utilization of renewable energy resources. The RETF shall be exclusively  
35 used to:

- 1 (a) Finance the research, development, demonstration and promotion of  
2 the widespread use or renewable energy systems for power and non-  
3 power applications;
- 4 (b) Conduct resource and market assessment studies for biomass, solar,  
5 wind, hydro, tidal current, and ocean energy;
- 6 (c) Directly subsidize the development and operation of new RE resources  
7 to provide for their competitiveness in the market; *Provided*, That the  
8 grant thereof shall be done through a competitive and transparent  
9 manner;
- 10 (d) Create and operate the REOSS, where an RE database and all related  
11 laws, rules and regulations shall be made available to RE proponents  
12 and stakeholders; *Provided*, That no more than two *per centum* (2%) of  
13 the Fund shall be used for this purpose;
- 14 (e) Propagate RE knowledge by training, accrediting, and providing  
15 benefits to ARECs; AND
- 16 (f) Such other activities as are necessary or incidental to carry out the  
17 provisions of this Act.

18 For this purpose, there shall be appropriated an amount of One Billion  
19 Pesos (Php 1,000,000,000.00) from the General Appropriations Act (GAA).

20 The RETF shall be sourced from:

- 21 a. Fines and penalties;
- 22 b. Mandatory RES Contributions;
- 23 c. Fees exacted pursuant to this Act;
- 24 d. *Demonstration Earnings*;
- 25 e. Grants;
- 26 f. Donations; and
- 27 g. RE Production Predictability/Forecast Premium/Bonus.

28 The DOE shall manage and administer the said fund subject to  
29 existing government accounting and auditing procedures. Further, the DOE,  
30 in consultation with other government units and agencies, is hereby  
31 authorized to manage and disburse the funds to be used solely for the  
32 purposes enumerated herein in the form of grants, loans, equity investments,  
33 loan guarantees, and insurance or to access other local or international funds  
34 pursuant to the provisions of this Act.

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CHAPTER X  
GENERAL PROVISIONS

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**SECTION 26. *Creation of Renewable Energy Bureau (REB).*** – In accordance with the power of the Secretary and with the approval of the President, the Renewable Energy Bureau is hereby created for the effective management and administration of the renewable energy resources and development. The Renewable Energy Bureau shall have the following Divisions: Hydropower Division; Geothermal Division; Solar and Wind Division and Ocean and Biomass Division.

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The REB shall have the following powers and functions:

- a. Assist in the formulation and implementation of policies for the efficient and economical transformation, conversion, processing, refining, market packaging and financing, transportation and storage of hydro, geothermal and other renewable energy resources such as wind, solar, biomass and ocean, and ensure their efficient and judicious utilization;
- b. Monitor sectoral energy consumption and conduct efficient utilization audit, technical training, energy management advisory services, and technology application projects on efficient energy utilization;
- c. Develop, promote and commercialize applications of biomass, solar, hydro, wind, wood and charcoal, and other renewable energy resources including new and more efficient and economical transformation, conversion, processing, refining, marketing, distribution, transportation and storage technologies for renewable energy resources;
- d. Assist in the implementation of an integrated rural electrification program to effectively address the energy self-sufficiency in rural communities and implement, monitor and regularly review the implementation program for efficient administration;
- e. Provide information on renewable energy technologies and develop short-and long-term renewable energy technology development strategies;
- f. Monitor the implementation of renewable energy projects in coordination with the DENR, National Water Resources Board (NWRB), National Commission on Indigenous People and other

1 government agencies to ensure compliance with the existing  
2 regulations and prescribed environmental standards; AND

- 3 g. Monitor and supervise renewable energy projects implemented by  
4 government and private institutions including, affiliated renewable  
5 energy centers.

6  
7 **SECTION 27. *Product Standards and Testing Procedures.*** – The  
8 DOE shall, whenever necessary and in consultation with the Bureau of  
9 *Product Standards*, shall if necessary, establish product standards and  
10 testing procedures for selected renewable energy products, equipment,  
11 devices and accessories, in accordance with existing international renewable  
12 energy testing and product standards. The DOE and DTI shall jointly  
13 identify and designate laboratories and research facilities as accredited  
14 renewable energy testing laboratories to undertake the testing and labeling  
15 of renewable energy products, systems and devices according to the approved  
16 standards and procedures.

17  
18 **SECTION 28. *Technology and Manpower Development***  
19 ***Program.*** – The DOE, in coordination with other government units and  
20 agencies, shall ensure sustained technology, manufacturing and manpower  
21 development programs to increase the education, expertise, training, skills  
22 and awareness of planners, implementors, inventors, trainers, technicians  
23 and beneficiaries in the national and local levels in appropriate aspects of  
24 renewable energy development and utilization.

25 All foreign RE technology suppliers and manufacturers shall be  
26 required to conduct technology transfer activities to their proposed users and  
27 beneficiaries of the technology. The DOE shall ensure the capacity building  
28 sessions are incorporated into the work plan of the foreign technology  
29 suppliers prior to project implementation.

30  
31 **SECTION 29. *Information Management.***– The DOE shall create,  
32 maintain and regularly update an information system of renewable energy  
33 resources, technologies, suppliers, companies and projects for the purposes of,  
34 but not limited to:

- 35 (1) *Formulation of Annual energy and power development plans of the*  
36 *country;*

- 1 (2) Information dissemination to the public who are interested to invest in  
2 renewable energy generation projects or in research and development  
3 studies, etc.;
- 4 (3) Monitoring and evaluation of existing technologies and projects; and
- 5 (4) Formulation of appropriate policies.

6 As such, the information system shall be backed up by a reliable  
7 database and shall include all relevant information for the development and  
8 commercialization of renewable energy systems. The DOE shall be  
9 responsible for the development of the institutional mechanism to ensure  
10 sustained maintenance and upgrading of the information exchange system.

11

12 **SECTION 30. *Financial Assistance Program.*** – Government  
13 financial institutions (GFIs) such as the Development Bank of the  
14 Philippines (DBP), Philippine National Bank (PNB), Government Service  
15 Insurance System (GSIS), Land Bank of the Philippines (LBP) and other  
16 government institutions that shall, in accordance with and to the extent  
17 allowed by the enabling provisions of their respective charters or applicable  
18 laws, accord high priority to applications for the development, utilization and  
19 commercialization of RE projects, duly recommended and endorsed by the  
20 DOE.

21

22 **SECTION 31. *Adoption of Waste-to-Energy Technologies in***  
23 ***Livestock Farms and Slaughterhouses.*** – The DOE shall, whenever  
24 practicable, require large-scale livestock farms and slaughterhouses to adopt  
25 waste-to-energy facilities such as biogas systems. It shall likewise facilitate  
26 the provision on technical assistance in the adoption of the waste-to-energy  
27 technologies in coordination with private companies. The DOE shall  
28 coordinate with the DENR for the regular monitoring and compliance of this  
29 provision.

30

31 **CHAPTER XI**

32 **FINAL PROVISIONS**

33

34 **SECTION 32. *Implementing Rules and Regulations (IRRs).*** –  
35 Within six (6) months from the effectivity of this Act, the DOE shall, in



1 collaboration with all RE stakeholders, promulgate the Implementing Rules  
2 and Regulations.

3  
4 **SECTION 33. *Penalty Clause.*** – The DOE shall formulate and  
5 promulgate appropriate penalties to any person who willfully violates  
6 violations of rules or regulations provided in this Act shall, upon conviction,  
7 be punished by a fine of not less than one hundred thousand pesos (P  
8 100,000.00), or by imprisonment of not less than two (2 ) years but not more  
9 than five (5) years, or both, at the discretion of the court; *Provided, However,*  
10 That if the violations committed by a juridical person the penalty provided  
11 shall be imposed on the official or employee thereof responsible for the  
12 violation; *Provided, Further,* That if the violation is committed by a  
13 government official or employee including those in government-owned or  
14 controlled corporations, he / she shall, in an addition to the promulgated  
15 penalties provided herein, be subject to disciplinary administrative  
16 proceedings and penalties.

17  
18 **SECTION 34. *Official Development Assistance.*** - The provision of  
19 Executive Order No. 230 of 986, on the power of the NEDA Board, and the  
20 rules and regulations governing the evaluation and authorization for the  
21 availment of Official Development Assistance notwithstanding the  
22 privatization of renewable energy facilities as provided for in this Act shall be  
23 eligible for foreign loans and grants without further evaluation by the NEDA  
24 Board, subject to Section 21, Article XII of the Constitution.

25  
26 **SECTION 35. *Separability Clause.*** If for any reason any provision  
27 of this Act is declared unconstitutional or invalid, such parts not affected  
28 thereby shall remain in full force and effect.

29  
30 **SECTION 36. *Repealing Clause.*** – All laws, orders, doctrines,  
31 decrees, rules and regulations or parts thereof, including Executive Order No.  
32 462 (*Ocean, Solar and Wind*), Executive Order No. 232, Republic Act No.  
33 7156 (*Mini-Hydro Act*), Republic Act No. 7160 (*Local Government Code*), and  
34 Presidential Decree No. 1442 (*Geothermal Act*), among others, inconsistent  
35 with any of the provisions of this Act are hereby repealed, amended or  
36 modified accordingly.

1           **SECTION 37. *Effectivity Clause.*** This Act shall take effect fifteen  
2 (15) days after its full and complete publication in the Official Gazette or in  
3 at least two (2) newspapers of general circulation.

4

5           *Approved,*