

The logo for the Energy Regulatory Commission (ERC) of the Philippines. It features the acronym "ERC" in large, bold, white letters. The words "ENERGY REGULATORY COMMISSION" are written in a smaller, white, sans-serif font, curving around the top and sides of the "ERC". Below the "ERC" are two small white dots, and the word "PHILIPPINES" is written in a white, sans-serif font, curving along the bottom. The background of the logo is a dark blue and green gradient.

ENERGY REGULATORY COMMISSION
ERC
PHILIPPINES

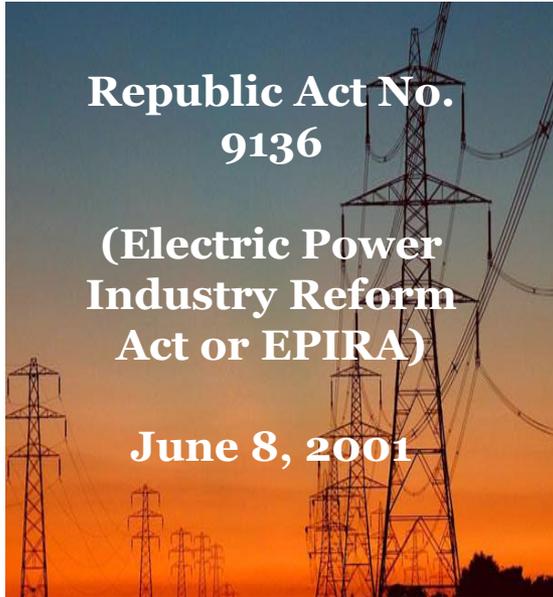
Energy Investment Forum

Energy Transition towards Renewable Energy

SHARON O. MONTANER
Director, Market Operations Service

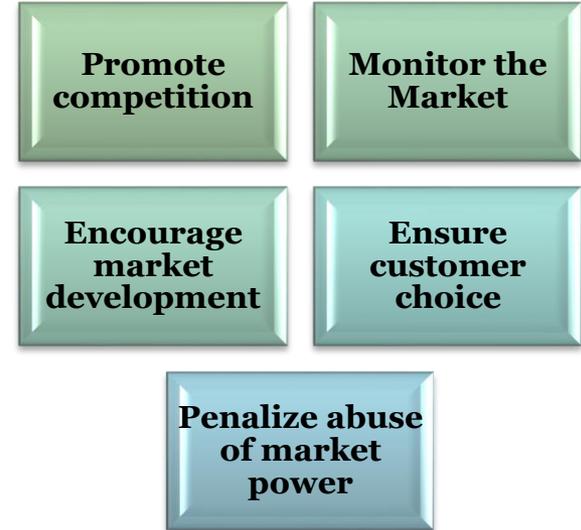
3 December 2021

ERC's Mandate & Role



Sec. 38 of EPIRA
“There is hereby created an independent, quasi-judicial regulatory body to be named the Energy Regulatory Commission (ERC).”

THE COMMISSION



Alexis M. Lumbatan
Commissioner



Catherine P. Maceda
Commissioner



Agnes VST Devanadera
Chairperson & CEO



Floresinda G. Baldo-Digal
Commissioner



Marko Romeo L. Fuentes
Commissioner

RE Act (Core Policies - On Grid)



Net Metering Program

A consumer-based incentive appropriate for distributed generation, in which a distribution grid user has a two-way connection to the grid and is only charged for his net electricity consumption and is credited for any overall contribution.

Green Energy Option (GEOP)

A program which provides end-users the option to choose RE resources as their source of energy.

Renewable Portfolio Standards (RPS)

Setting a minimum percentage of generation from RE sources to be sourced by Mandated Participants, currently set at 1% of electricity sold.

Feed-In-Tariff (FIT)

Guaranteed payment in Philippine Peso per kilowatt-hour ("Php/kWh") for electricity generated from emerging renewable energy (RE) technologies and actually delivered to the transmission and/or distribution network.

RE Act (Core Policies - Off Grid)



Renewable Portfolio Standards (RPS)

Setting a minimum percentage of generation from RE sources to be sourced by Mandated Participants, currently set at 1% of electricity sold.

Cash Incentives

An RE Developer shall be entitled to the cash incentive under the RE Act from the time it commences its commercial operation in the missionary area as NPP under a PSA approved by the ERC.

Energy Transition

ERC Issuances on Renewable Energy:

- ✓ **Feed-In Tariff (FIT)**
- ✓ **Net-Metering**
- ✓ **Green Energy Option Program (GEOP)**



Geothermal



Hydropower



Biomass



Wind



Solar



Ocean

RENEWABLE ENERGY

RESOLUTION NO. 16, SERIES OF 2010

A Resolution Adopting the Feed-In Tariff Rules

12 July 2010

Feed-in Tariff System



- ✓ Resolution # 16
(July 12, 2010)
- ✓ Resolution # 15,
(November 19,
2012)

A fixed rate per kilowatt-hour for emerging renewable energy sources, excluding any generation for own use, as approved by the ERC.



The Overall FIT Framework



What is FIT?



SALIENT FEATURES

- ✓ Based on cost of a representative project
- ✓ Technology-specific
- ✓ 20 years duration
- ✓ Subject to degression and adjustments
- ✓ Subject to review

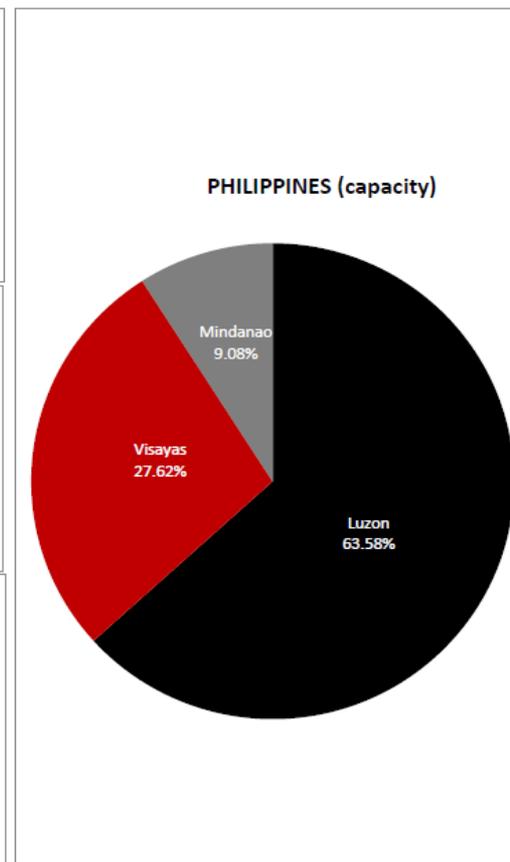
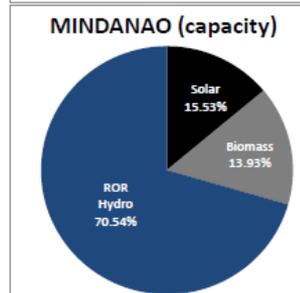
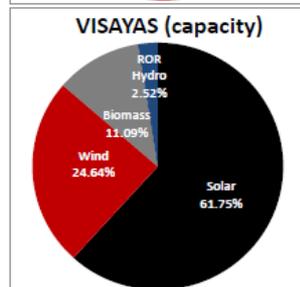
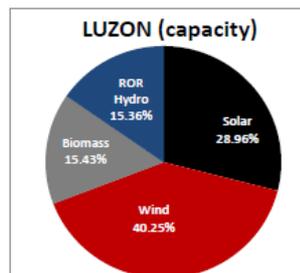
FEED-IN-TARIFF (FIT) SUMMARY (As of 1 November 2021)

ERC Resolution/ERC Case	RE Technology	FIT	Approved FIT Rates	Installation Target (MW)	Subscribed FIT Capacity with COC (MW)	No. RE Plants	Subscribed FIT Capacity with COE (MW)	No. RE Plants
FIT Rates - Reso. No. 10, Series of 2012/ERC Case No. 2011-006 RM	SOLAR	FIT I	9.68	50	67.60	6	67.60	6
SOLAR FIT II - Resolution No. 06, Series of 2015		FIT II	8.69	450	417.05	17	417.05	17
FIT Rates - Reso. No. 10, Series of 2012/ERC Case No. 2011-006 RM	WIND	FIT I	8.53	200	249.90	3	249.90	3
WIND FIT II - Resolution No. 14, Series of 2015/ERC Case No. 2015-002 RM <i>with Petition - ERC Case No. 2016-002 RM (7.93 PhP/kWh)</i>		FIT II	7.40	200	144.00	3	144.00	3
Special FIT - ERC Case No. 2011-060 RC		Special FIT	5.96	-	33.00	1	-	-
FIT Rates - Resolution No. 10, Series of 2012/ERC Case No. 2011-006 RM	BIOMASS	FIT I	6.63	250	120.661	13	120.661	13
Degressed FIT Rate for ROR Hydro and Biomass - Resolution No. 01, Series of 2017		Degressed	6.5969		14.564	4	4.000	4
ROR and Biomass FIT II - Resolution No. 06, Series of 2021/ERC Case No. 2018-007 RM		FIT II	6.19		53.100	9	98.680	15
FIT Rates - Reso. No. 10, Series of 2012/ERC Case No. 2011-006 RM	ROR HYDRO	FIT I	5.90	250	35.88	5	35.88	5
Degressed FIT Rate for ROR Hydro and Biomass - Resolution No. 01, Series of 2017		Degressed	5.8705		8.50	1	8.50	1
ROR and Biomass FIT II - Resolution No. 06, Series of 2021/ERC Case No. 2018-007 RM		FIT II	5.8705		103.20	9	103.20	9
Special FIT - ERC Case No. 2014-060 RC		Special FIT	5.6715		-	74.80	1	-
TOTAL					1,322.252	72	1,249.468	76

FEED-IN-TARIFF (FIT) SUMMARY

(As of 1 November 2021)

GRID	RE Technology	Subscribed FIT Capacity with COC (MW)	No. RE Plants
LUZON	SOLAR	242.43	15
	WIND	336.90	5
	BIOMASS	129.185	18
	HYDRO	128.529	10
	TOTAL	837.044	48
VISAYAS	SOLAR	225.50	6
	WIND	90.00	2
	BIOMASS	40.50	5
	HYDRO	9.20	2
	TOTAL	365.20	15
MINDANAO	SOLAR	16.72	2
	WIND	-	-
	BIOMASS	18.64	3
	HYDRO	84.648	4
	TOTAL	120.008	9
Grand Total		1322.252	72



RENEWABLE ENERGY

RESOLUTION NO. 6, SERIES OF 2019

A Resolution Adopting the Amendments to the Rules Enabling the Net-Metering Program for Renewable Energy

16 August 2019

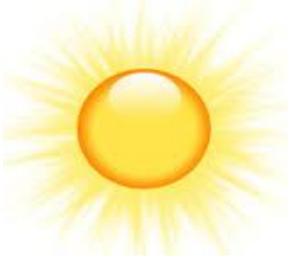
How it works



Import Meter
(delivered energy)



Export Meter
(received energy)



REC Meter

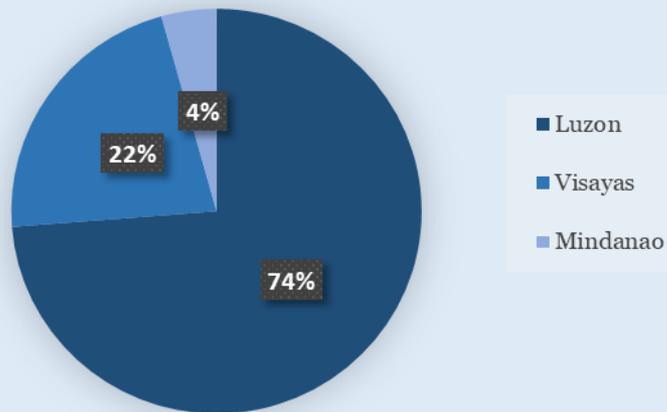


NM Status (As of 26 November 2021)

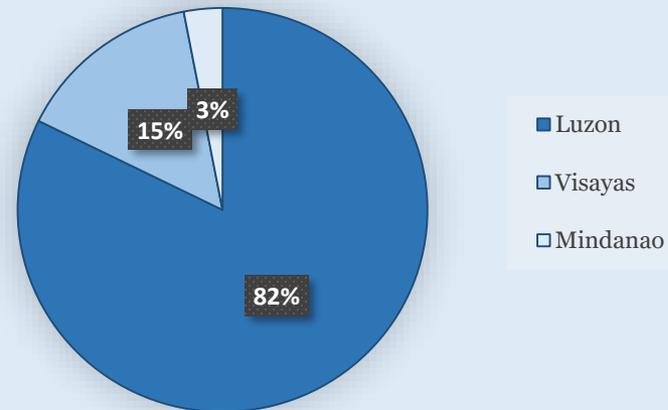


Grid	Capacity (kWp)	Qualified End-User
Luzon	30,724.80	4,197
Visayas	9,122.22	750
Mindanao	1,806.12	155
Total	41,653.15	5,102

Capacity (kWp)



Qualified End-Users per Grid



NM Status (As of 26 November 2021)



Grid/Distribution Utility (DU)		Capacity (kWp)	Qualified End-User (QE)
Luzon		30,724.80	4,197
1	AEC	1,239.79	108
2	BATELEC I	148.335	9
3	BATELEC II	548.6306	68
4	CAGELCO I	4.08	1
5	CEDC	174.26	6
6	CELCOR	196.987	44
7	DECORP	394.545	38
8	ISECO	1.68	1
9	LUECO	471.535	37
10	LUELCO	46.64	5
11	MERALCO	23,829.22	3,502
12	NEECO I	43.755	8
13	NEECO II	27.43	2
14	OEDC	36.89	8
15	PANELCO I	21.11	8
16	PANELCO III	114.41	15
17	PELCO I	172.935	32
18	PELCO II	48.222	6
19	PELCO III	104.08	2
20	PENELCO	225.49	29
21	PRESCO	12.575	2
22	SEZ	53.2095	11
23	SFELAPCO	1544.485	155
24	TARELCO I	224.6	24
25	TARELCO II	124.5	10
26	TEI	696.695	54
27	ZAMECO I	173.515	6
28	ZAMECO II	45.195	6

Grid/Distribution Utility (DU)		Capacity (kWp)	Qualified End-User (QE)
VISAYAS		9,122.22	750
1	AKELCO	191.45	8
2	ANTECO	74.615	14
3	BLCI	91.03	12
4	BOHECO I	522.35	49
5	BOHECO II	8.3	2
6	CEBECO I	328.85	42
7	CEBECO II	78.715	8
8	CENECO	4110.155	258
9	DORELCO	4.32	2
10	GUMELCO	7.28	3
11	ILECO I	187.54	28
12	ILECO II	93.28	17
13	ILECO III	9.835	4
14	LEYECO II	20.64	3
15	LEYECO IV	7.7	3
16	LEYECO V	140.95	9
17	MECO	192.075	22
18	MORE Power	62.73	9
19	NORECO II	1195.02	108
20	SOLECO	5.6	1
21	VECO	1789.796	148

Grid/Distribution Utility (DU)		Capacity (kWp)	Qualified End-User (QE)
MINDANAO		1,806.12	155
1	ANECO	13.8	4
2	CLPC	175.77	3
3	DASURECO	39.68	3
4	DLPC	1,191.56	110
5	FIBECO	5.2	1
6	ILPI	147.83	18
7	MOELCI II	32.23	2
8	SOCOTECO I	52.94	4
9	SOCOTECO II	19.56	2
10	SUKELCO	5.28	1
11	ZAMCELCO	94.86	1

Salient Features



1. Clarified the Conditions, Qualifications and Eligibility;
2. Improved the interconnection set-up to take advantage of new technologies and to implement the RPS;
3. Simplified permitting procedures (20 days);
4. Removed the DIS Fee and the Net-Metering Charge;
5. Maintained the current pricing methodology;
6. Addressed the subsidy impact on the non-NM customers;
7. Rationalized the entitlement to the lifeline subsidy rate;
8. Implemented a strict reporting process; and
9. Opened opportunity for socialized and economic housing developments to avail of the NM Program.

RENEWABLE ENERGY

RESOLUTION NO. 8, SERIES OF 2021

***A Resolution Adopting the Rules for the Green
Energy Option Program***

22 April 2021

INTRODUCTION



ERC Resolution No. 8, Series of 2021

A Resolution Adopting the Rules for the Green Energy Option Program (GEOP)

Components:

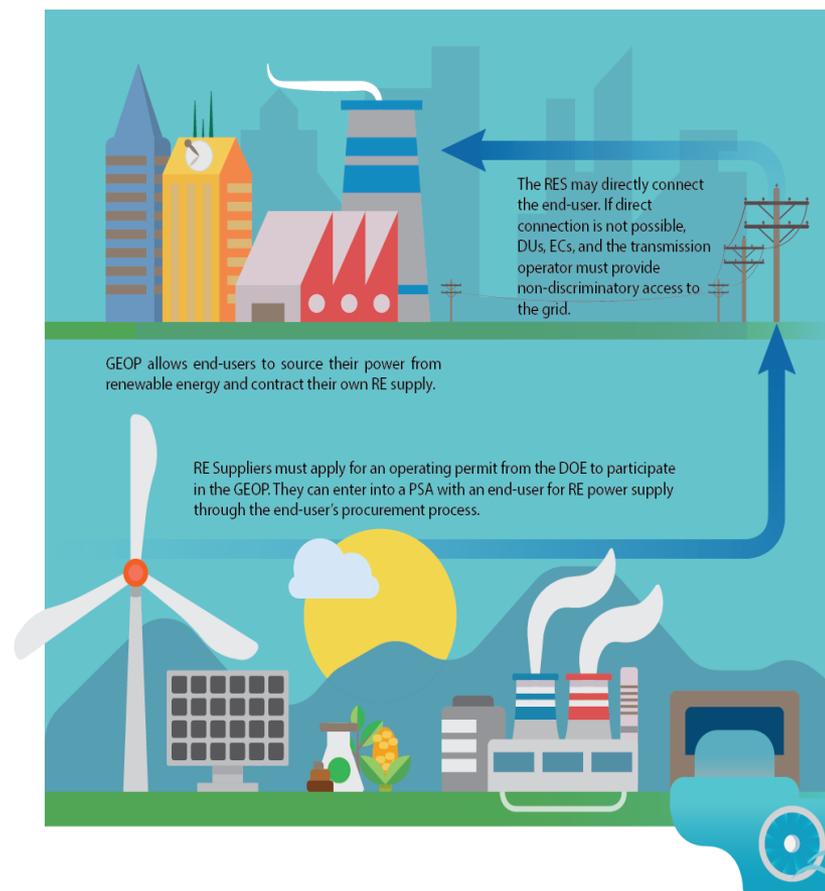
- Annex A: Rules Enabling the Green Energy Option Program (GEOP)
 - Annex B-1: Connection Agreement Template
 - Annex B-2: Transmission Service Agreement Template
 - Annex C-1: Distribution Wheeling Service Agreement Template (For Renewable Energy Suppliers)
 - Annex C-2: Distribution Wheeling Service Agreement Template (For GEOP End-Users)
-
- Approved: 22 April 2021
 - Published: 19 August 2021
 - Effectivity: 03 September 2021
-

Green Energy Option Program (GEOP)

GEOP is a voluntary policy mechanism that provides electricity end-users **with 100kW and above demand** the option to choose RE resources as their source of energy

It provides options to end-users to contribute in the development and utilization of RE resources in **a least-cost and sustainable manner**

RE Suppliers must secure a **Retail Electricity Supplier (RES) License** from the ERC



Guiding Principles



An End-User who intends to participate in the GEOP shall inform its DU or TransCo or its successors-in interest or concessionaire.



All specifications and detailed plans for the installation of the communication, control, and protective devices shall be of the Network Service Provider's (NSP) standards.



The RE System shall conform to the latest version of the PEC, PDC, PGC, DSOAR, COC Rules, OATS Rules, the Terms and Conditions of Service and Standard Rules and Regulations, and other Rules as approved by the ERC, and any subsequent amendment/s thereto.

Eligible GEOP End-Users



All End Users with a monthly average peak demand of $\geq 100kW$ *for the past 12 months*

Existing



Estimated average monthly peak demand for the **next 12 months** is $\geq 300 kW$

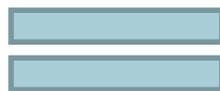
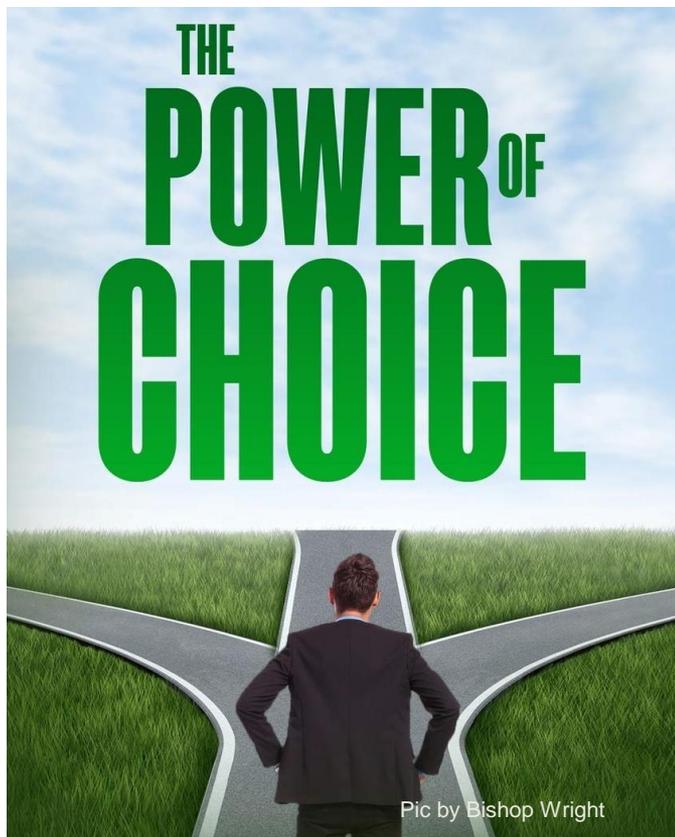
New Connection



Estimated average monthly peak demand for the next 12 months is **from 100kW to 300 kW** – *shall have registered historical monthly peak demand of at least 100kW for 3 consecutive months*

Newly-Connected

With GEOP ...



- 1** To choose RE at competitive or least-cost supply
- 2** To contribute to the growth of the RE industry of the country
- 3** To contribute to cleaner and sustainable environment
- 4** To support national and global decarbonization goals

Energy Transition



ERC's Upcoming Issuances and Activities:

Cost Recovery Framework for DUs Compliance to RPS



Distributed Energy Resources (DER) Rules



Net Metering Program for Off-Grid Areas



Regulatory Framework on Energy Storage System



Regulatory Framework on Electric Vehicles and Charging Stations



DOE's Green Energy Auction Program



#PowerforthePeople

Thank you.



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