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# NET-METERING Program for RE

a consumer-based incentive under the RE Act of 2008

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**CLARITA SY – DE JESUS**

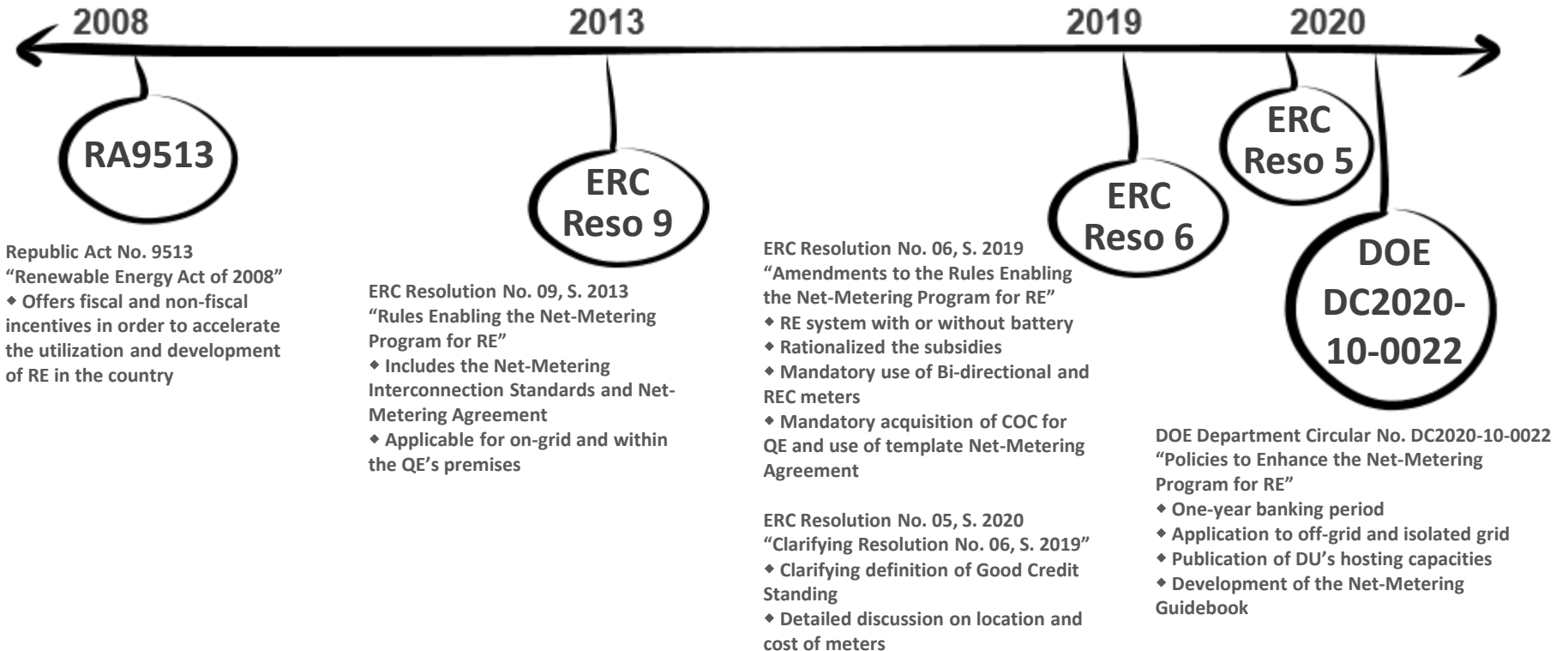
Senior Science Research Specialist  
Solar and Wind Energy Management Division

**08 July 2021**

**Manila**



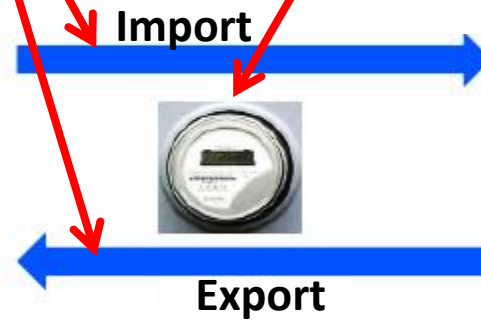
# Legal Framework



# INTERCONNECTION SET-UP

Two-way connection

Bi-directional meter



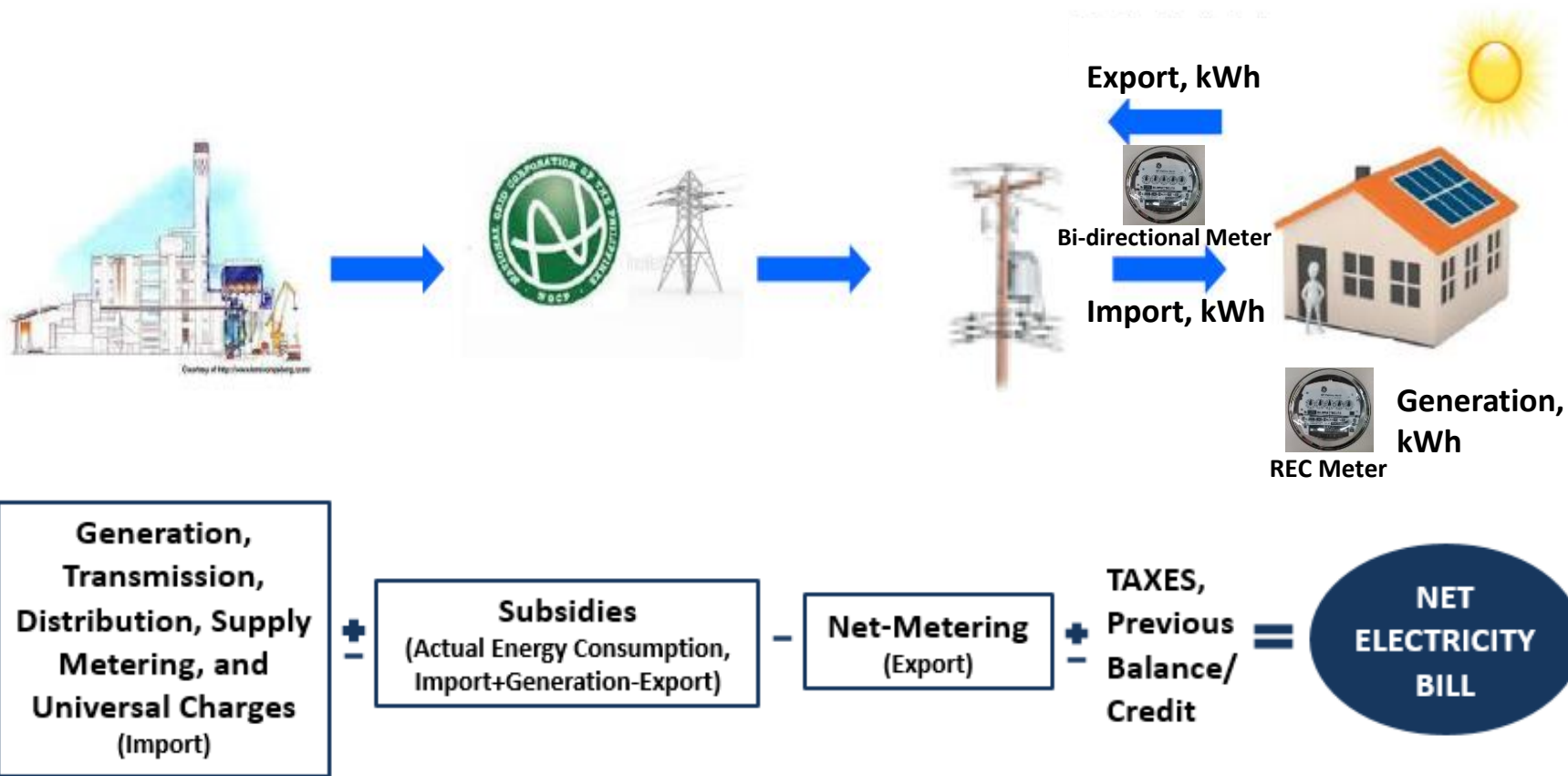
Both meters, REC and Bi-directional, shall be located at the connection point or at least near the connection point.

Max. Capacity = 100 kWp  
Situating within the premises of the QE

REC meter



# Pricing Methodology



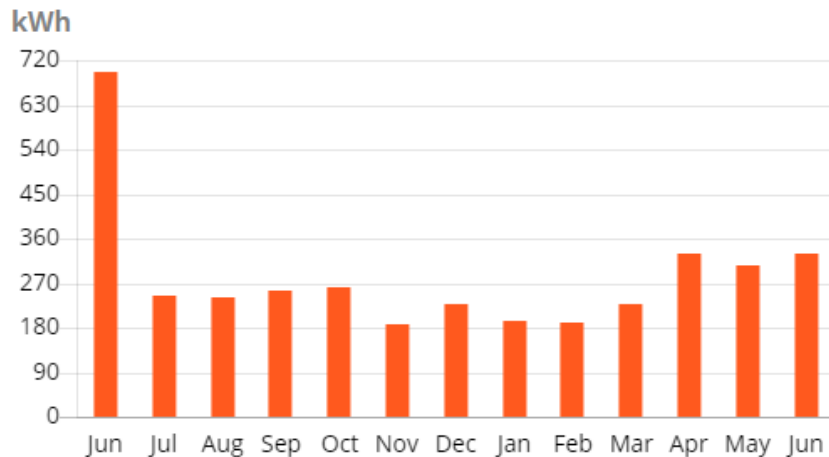
**If net electricity bill is negative, the amount shall be credited on the succeeding bill. If the net electricity bill is still negative at the end of Calendar Year, the amount shall be forfeited.**



# Threshold Capacity

CONSUMPTION REPORT AS OF **June 2021**

AVERAGE USAGE FOR 13 MONTHS **284 kWh**



Daily kWh =  $284 \text{ kWh/month} \div 30 \text{ days} =$   
**9.47 kWh per day**

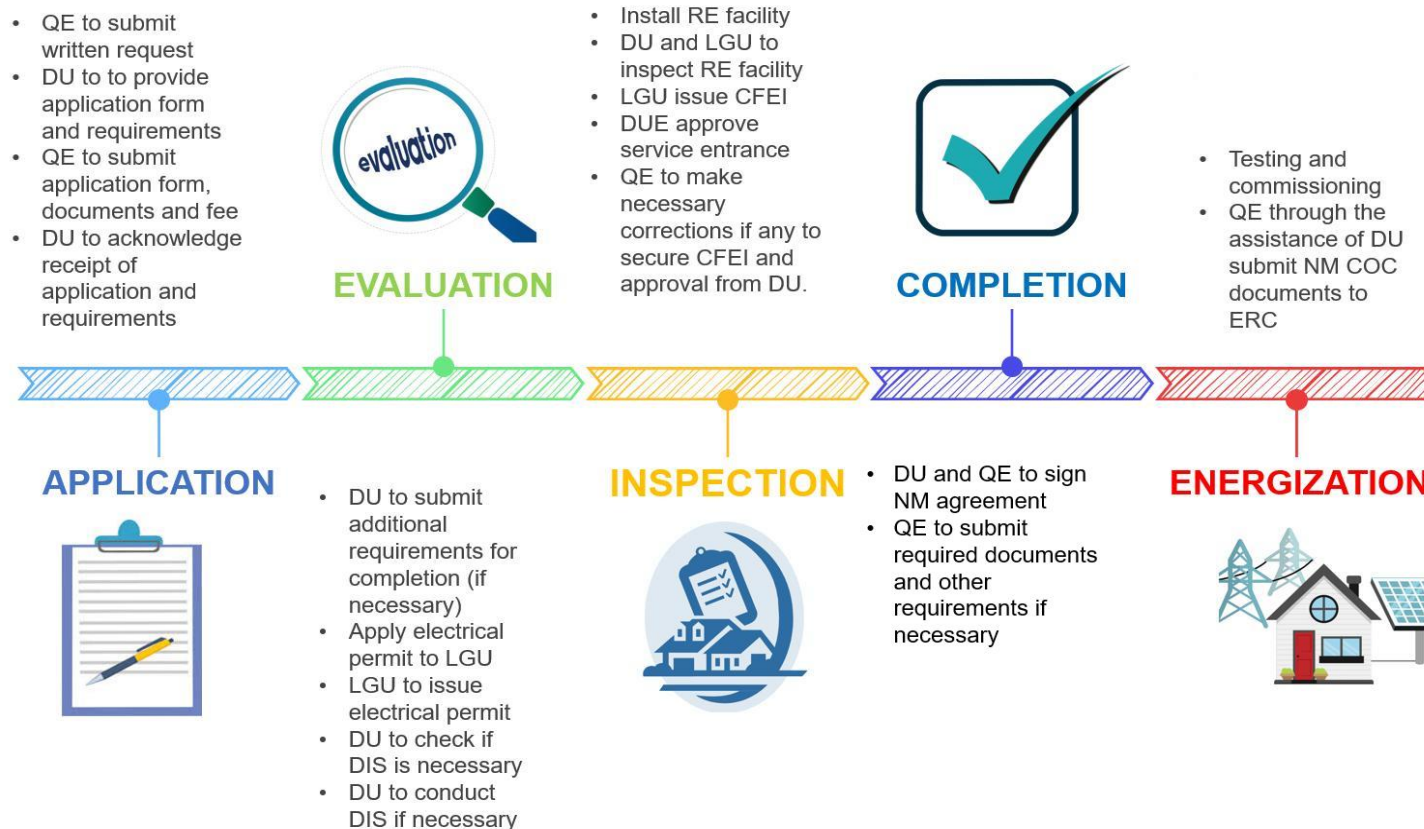
Average sun-hours = 4.5 hours per day  
Efficiency factor of solar PV panel  
(polycrystalline) = 16%

Size of the system =  $9.47 \text{ kWh/day} \div 4.5$   
hours/day x 1.16 = **2.44 kWp**

The size of the solar PV for net metering then should be lower than 2.44 kWp



# Steps in applying for a Net-Metering



Source: GIZ, Draft Guidebook on Net-Metering, 2021

# Net-Metering Update

	DISTRIBUTION UTILITY (DU)	CAPACITY (kWp)	QUALIFIED END-USERS (QE)
<b>LUZON</b>			
1	AEC	921.72	77
2	BATELEC I	128.24	4
3	BATELEC II	290.81	41
4	CAGELCO I	4.08	1
5	CEDC	174.26	6
6	CELCOR	155.25	34
7	DECORP	330.73	31
8	ISECO	1.68	1
9	LUECO	219.93	20
10	LUFELCO	44.36	4
11	<b>MERALCO</b>	<b>19,705.93</b>	<b>2871</b>
12	NEECO I	14.08	3
13	OEDC	36.89	8
14	PANELCO I	21.11	8
15	PANELCO II	93.12	11
16	PELCO I	67.44	13
17	PELCO II	48.22	6
18	PELCO III	4.24	1
19	PENELCO	225.49	29
20	PRESKO	12.58	2
21	SEZ	53.21	11
22	SFELAPCO	1,214.36	100
23	TARELCO I	212.90	22
24	TARELCO II	50.59	5
25	TEI	488.11	34
26	ZAMECO I	173.52	6
27	ZAMECO II	36.42	4
	<b>TOTAL</b>	<b>24,729.27</b>	<b>3,353</b>

	DISTRIBUTION UTILITY (DU)	CAPACITY (kWp)	QUALIFIED END-USERS (QE)
<b>VISAYAS</b>			
28	AKELCO	191.45	8
29	ANTECO	7.40	2
30	BOHECO I	233.33	34
31	BOHECO II	8.30	2
32	CEBECO I	207.13	34
33	CEBECO II	78.72	8
34	CENECO	2,806.30	197
35	DORELCO	4.32	2
36	GUIMELCO	7.28	3
37	ILECO I	181.62	25
38	ILECO II	72.48	12
39	ILECO III	3.62	2
40	LEYECO V	22.66	6
41	MECO	184.51	19
42	NORECO II	726.57	64
43	MORE Power	12.29	1
44	VECO	1,313.34	113
	<b>TOTAL</b>	<b>6,061.32</b>	<b>532</b>

	DISTRIBUTION UTILITY (DU)	CAPACITY (kWp)	QUALIFIED END-USERS (QE)
<b>MINDANAO</b>			
45	ANECO	13.80	4
46	CLPI	76.86	2
47	DASURACO	35.00	2
48	DLPC	937.97	86
49	ILPI	128.52	14
50	MOELCI II	32.23	2
51	SOCOTECO I	47.44	3
52	SOCOTECO II	19.56	2
53	ZAMCELCO	94.86	1
	<b>TOTAL</b>	<b>1,386.24</b>	<b>116</b>
	<b>GRAND TOTAL</b>	<b>32,176.83</b>	<b>4,001.00</b>

**Average capacity is 8.0422 kWp/system**



# Benefits of the Net-Metering

<b>Qualified End-Users (Investors/Developers)</b>	<b>Distribution Utilities (Host)</b>
Ability to export excess energy.	May increase the DU system's reliability and minimize the system losses.
Electricity bill reduction.	The gross generation of the RE System shall be entitled to RE Certificate and shall be credited as compliance of the DU's obligation under the the RPS.
Green energy, minimal maintenance	Minimize the requirement of energy supply during sun-hours, which is the peak hours of Luzon and Metro Manila.





# Government Initiatives



## DISTRIBUTED PHOTOVOLTAIC ECONOMIC AND TECHNICAL IMPACT ANALYSIS IN THE PHILIPPINES

*A partnership between USAID and the Philippines' Department of Energy*

May 29, 2019

This report was produced for review by the United States Agency for International Development (USAID) by Abt Associates, the National Renewable Energy Laboratory (NREL), and Lawrence Berkeley National Laboratory (LBNL).

- ✓ Published in 2019 the **“Distributed Photovoltaic Economic and Technical Impact Analysis in the Philippines”** – a partnership between USAID and DOE;
- ✓ Conducted in 2020 the series of virtual training for Distribution Utilities entitled as **“A Technical Guide to Conducting Impact Studies and Hosting Capacity Analysis for the Net-Metering Program”** through the assistance of USAID, NREL, and Hawaii Natural Energy Institute;
- ✓ On-going review on the draft **“Guidebook on Net-Metering in the Philippines”** in cooperation with and assistance from the GIZ; and
- ✓ Issuance of **DILG-DOE Joint Memorandum Circular No. 2020-01.**




# ISSUES AND CHALLENGES

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- DUs are hesitant and/or technically not ready on the mandatory publication of **Hosting Capacities for Net-Metering** in accordance with Section 8 of the DOE DC2020-10-0022;
- Issuance of necessary **ERC Resolutions** regarding (1) disbursements of all outstanding peso credits to QEs, (2) further amendment of the Net-Metering Interconnection Standard to facilitate and effective implementation of Net-Metering in Off-Grid areas, and (3) possible consideration to the proposed Classical Net-Metering under DOE DC2020-10-0022; and
- Harmonization of application requirements, processes, and fees required by each **Local Government Units** in the country.



# Thank you!

 (+632) 8479-2900 local 310

 [csy@doe.gov.ph](mailto:csy@doe.gov.ph)

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