ENERGY REGULATORY COMMISSION
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Republic of the Philippines
ENERGY REGULATORY COMMISSION
San Miguel Avenue, Pasig City

06
RESOLUTION NO. ____, SERIES OF 2019

A RESOLUTION ADOPTING THE AMENDMENTS TO THE RULES ENABLING THE NET-METERING PROGRAM FOR RENEWABLE ENERGY

WHEREAS, it is the policy of the state to accelerate the exploration and development of renewable energy resources, increase its utilization and establish the necessary infrastructure and mechanisms;

WHEREAS, Section 10 of Republic Act No. 9513 (R.A. 9513), entitled "An Act Promoting the Development, Utilization and Commercialization of Renewable Energy Resources and for Other Purposes," and Section 7 of its Implementing Rules and Regulations (IRR), mandate the Energy Regulatory Commission (ERC), in consultation with the National Renewable Energy Board (NREB), to establish, within one (1) year from effectivity of the Act, the net-metering interconnection standards and pricing methodology and other commercial arrangements necessary to ensure the success of the Net-Metering Program for renewable energy;

WHEREAS, Section 10 of R.A. 9513 further provides that the Department of Energy (DOE), the ERC, the National Transmission Corporation (TRANSCO) or its successors-in-interest, Distribution Utilities (DUs), the Philippine Electricity Market Corporation (PEMC) and all relevant parties shall provide the mechanism for the physical connection and commercial arrangements necessary to ensure the success of the Program, consistent with the Philippine Grid Code (PGC) and the Philippine Distribution Code (PDC);

WHEREAS, on 27 May 2013, the ERC issued Resolution No. 9, Series of 2013, A Resolution Adopting the Rules Enabling the Net-Metering Program. It was published in the Daily Tribune on 09 July 2013, and became effective on 24 July 2013.

WHEREAS, since its implementation, the following issues were raised:

1. Whether or not the lifeline rate should apply to Qualified End-Users;
2. Whether the mechanism of merely accumulating the credits of net exports on the customer bill is reasonable; and
3. Clarification on the effectivity of the Net-Metering Agreements;

WHEREAS, to address the above issues, the ERC, on 16 August 2016, posted on its website the proposed amendments to the Net-Metering Rules, setting the deadline for the submission of comments by 24 August 2016, and the Public Consultation on 31 August 2016;

WHEREAS, the ERC likewise engaged the services of the Asian Social Enterprise Incubator, Inc. (ASEI) in August 2016 to review the Pricing Methodology, given the fact that the existing Net Metering Rules provided for an interim pricing methodology;

WHEREAS, the ERC deemed it prudent to wait for the completion of the ASEI study and consider its findings and recommendations in finalizing the amendments to the Net Metering Rules.

WHEREAS, the ASEI submitted its final report on the pricing methodology in March 2017;

WHEREAS, on 8 February 2019, the Market Operations Service – Renewable Energy Division (MOS-RED) transmitted to the Commission its proposed amendments to the Rules Enabling the Net-Metering Program for Renewable Energy, the Net-Metering Interconnection Standards, and the Net Metering Agreement template;

WHEREAS, on 12 March 2019, the Commission approved for posting the proposed amended Rules, Interconnection Standards and Net Metering Agreement Template wherein it was stated that the deadline for the submission of comments was set on

12 April 2019, and that the public consultations will be held on 17 May 2019 at the ERC Head Office, Pacific Center Building, San Miguel Avenue, Ortigas Center, Pasig City; 23 May 2019 at the ERC Mindanao Field Office, Mintrade Bldg., Monteverde Ave. cor. Sales St. Davao City; and 24 May 2019 at the ERC Visayas Field Office, St. Mary's Drive, Banilad, Cebu City;

WHEREAS, the following stakeholders submitted their comments on the proposed Rules: (1) Bohol I Electric Cooperative, Inc. (BOHECO I); (2) Cebu I Electric Cooperative, Inc. (CEBECO I); (3) Davao City Power Consumers Action Network; (4) First Gen Corporation; (5) Institute for Climate and Sustainable Cities (ICSC); (6) Manila Electric Company (MERALCO); (7) Philippines Solar and Storage Energy Alliance (PSSEA); and (8) Visayan Electric Company (VECO);

WHEREAS, all the comments received by the Commission were considered vis-à-vis the ERC's overarching mandate of promoting consumer interest toward producing the amendments to the Rules Enabling the Net-Metering Program for Renewable Energy, including the following:

1. Annex A: Amended Rules Enabling the Net-Metering Program for Renewable Energy;
2. Annex A-1: Amended Net-Metering Interconnection Standards;
3. Annex A-2: Amended Net- Metering Agreement; and
4. Annex A-3: Net-Metering Reportorial Template;

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NOW THEREFORE, the Commission, after thorough and due deliberation, hereby **RESOLVES**, as it is hereby **RESOLVED**, to **APPROVE** and **ADOPT**, the **"Amended Rules Enabling the Net-Metering Program for Renewable Energy"** including the **Net Metering Interconnection Standards, Net-Metering Agreement Template** and **Net-Metering Reportorial Template**, hereto attached as **Annex "A"** and made an integral part hereof.

This Resolution shall take effect fifteen (15) days after its publication in a newspaper of general circulation in the country.

Let copies of this Resolution be furnished the University of the Philippines Law Center – Office of the National Administrative Register (UPLC-ONAR) and all parties concerned.

Pasig City, 16 August 2019.

ERC
Office of the Chairperson
AVSTD-2019-10-570-0001

AGNES VST DEVANADERA
Chairperson and CEO

JOSEFINA PATRICIA A. MAGPALE-ASIRIT
Commissioner

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Annex A

AMENDED RULES ENABLING THE NET-METERING PROGRAM FOR RENEWABLE ENERGY

ARTICLE I - GENERAL PROVISIONS

Section 1. Net-Metering for Renewable Energy. Subject to technical considerations and without discrimination, and upon request by distribution end-users, the Distribution Utilities (DUs) shall enter into Net-Metering agreements with qualified end-users who will be installing Renewable Energy (RE) system.

Section 2. Purpose. These Rules seek to:

a) Encourage end-users to participate in renewable electricity generation;

b) Enable data gathering for the creation of a knowledge-based resource on net-metering and enhance or accelerate viability of the net-metering program and its successful integration to the grid;

c) Facilitate, through the use of the data gathered, the conduct of efficient and cost effective energy planning;

d) Allow local players to gain actual experience in installing RE systems for net-metering application under local conditions; and

e) Simplify permitting procedures and reduce installation soft costs for renewable energy facilities.

Section 3. Applicability. These Rules shall be applicable to On-Grid RE Systems.

Section 4. Definition of Terms. As used in these Rules, the following terms shall have the following meaning:

(a) **Bi-directional Meter** refers to a meter capable of recording both import and export energy.

(b) **Department of Energy (DOE)** refers to, as defined in Section 4(e) of Republic Act No. 9513, the government agency created pursuant to Republic Act No. 7638 whose functions are expanded in Republic Act No. 9136 and further expanded in Republic Act No. 9513.

(c) **Distributed Generation** refers to a system of small generation entities supplying directly to the distribution grid, any one of which shall not exceed one hundred kilowatts (100

kW) in capacity, as defined in Section 4(j) of Republic Act No. 9513.

(d) **Distribution System** refers to the system of wires and associated facilities belonging to a franchised distribution utility extending between the delivery points on the transmission or sub-transmission system or generator connection and the point of connection to the premises of the end-user, as defined in Section 4(o) of Republic Act No. 9136.

(e) **Distribution Services and Open Access Rules (DSOAR)** refers to the Rules promulgated by the Energy Regulatory Commission under ERC Resolution No. 2, Series of 2010 including any subsequent amendment thereto, covering, among others, the terms and conditions for the connection of generating facilities to the Distribution System.

(f) **Distribution Utility (DU)** refers to any electric cooperative, private corporation, government-owned utility or existing local government unit which has an exclusive franchise to operate a Distribution System in accordance with its franchise and R.A. No. 9136, as defined in Section 4(l) of Republic Act No. 9513.

(g) **Energy Regulatory Commission (ERC)** refers to the independent quasi-judicial regulatory agency created pursuant to Republic Act No. 9136, as defined in Section 4(n) of Republic Act No. 9513.

(h) **End-User** refers to any person or entity requiring the supply and delivery of electricity for its own use, as defined in Section 4(t) of Republic Act No. 9136.

(i) **Export Energy** refers to the energy exported or delivered by the Qualified End-User to the Grid/Distribution System.

(j) **Import Energy** refers to the energy imported or received by the Qualified End-User from the Grid/Distribution System.

(k) **Lifeline Rate** refers to the subsidized rate given to low-income Captive Market End-users who cannot afford to pay at full cost as defined in Section 4(hh) of Republic Act No. 9136.

(l) **Lifeline Subsidy Rate** refers to the rate charged to non-lifeline customers to cover for the lifeline discount provided to marginalized/low income captive market end-users.

(m) **Metering Service Provider (MSP)** refers to a person or entity authorized by ERC to provide Metering Services as

defined in the Distribution Services and Open Access Rules (DSOAR)

(n) **National Power Corporation (NPC)** refers to the government corporation created under Republic Act No. 6395 as amended by Republic Act No. 9136, as defined in Section 4(ee) of Republic Act No. 9513.

(o) **National Renewable Energy Board (NREB)** refers to the board created under Republic Act No. 9513 tasked under Section 10 thereof to recommend to ERC the establishment of net-metering interconnection standards, pricing methodology and other commercial arrangements necessary to ensure success of the net-metering for renewable energy program.

(p) **National Transmission Corporation (TRANSCO)** refers to the corporation created pursuant to Republic Act No. 9136 responsible for the planning, construction and centralized operation and maintenance of high voltage transmission facilities, including interconnection and ancillary services, as defined in Section 4(ff) of Republic Act No. 9513.

(q) **Net-Metering** refers to a system, 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, as defined in Section 4 (gg) of R.A. 9513.

(r) **Net-Metering Agreement (NMA)** refers to the agreement between a Qualified End-User (QE) and the DU governing the commercial and interconnection arrangements between the DU and the QE.

(s) **Net-Metering Interconnection Standards** refers to the set of requirements and procedures to ensure safe, reliable and efficient connection of QE's RE system, and its operation thereof in parallel to the Distribution System.

(t) **Net-Metering Ready** refers to a building or housing units which have been installed with eligible RE system, as provided in Section 22 herein.

(u) **New Customer** refers to any person or entity that does not have any existing account with a particular DU.

(v) **New Housing Development** refers to a group of individual dwellings or apartment houses typically of similar design that are usually built and sold or leased by management.

(w) **On-Grid Systems** refer to electrical systems composed of interconnected transmission lines, distribution lines, substations and related facilities for the purpose of conveyance of bulk power on the grid of the Philippines, as defined in Section 4(kk) of Republic Act No. 9513.

(x) **Philippine Distribution Code (PDC)** refers to the set of Rules, requirements, procedures and standards governing DUs and Users of Distribution System in the operation, maintenance and development of the Distribution System. It also defines and establishes the relationship of the Distribution System with the facilities or installations of the parties connected thereto.

(y) **Philippine Electrical Code (PEC)** refers to the electrical safety code that establishes basic materials quality and electrical work standards for the safe use of electricity for light, heat, power, communications, signaling, and for other purposes.

(z) **Philippine Electricity Market Corporation (PEMC)** refers to the corporation incorporated upon the initiative of the DOE, which administers and governs the operation of the Wholesale Electricity Spot Market (WESM).

(aa) **Qualified End-Users (QE)** refers to entities that generate electric power from an eligible on-site RE generating facility, such as, but not limited to, house or office building with photovoltaic system that can be connected to the grid, for the purposes of entering into a Net-Metering agreement, as defined in Section 7 of the Implementing Rules and Regulations of R.A. 9513.

(bb) **Renewable Energy (RE) Certificate** refers to a certificate issued by the RE Registrar to electric power industry participants showing the energy sourced, produced, and sold or used. RE Certificates may be traded in the RE Market in complying with the RPS, as defined in Section 3(tt) of the Implementing Rules and Regulations of R.A. 9513.

(cc) **Renewable Energy Certificate (REC) meter** refers to the kilowatt-hour meter that measures the gross electricity generation from eligible RE system with type approval from ERC.

(dd) **Renewable Energy Market (REM)** refers to the market where the trading of RE Certificates equivalent to an amount of power generated from RE Resources is made, as defined in Section 4(qq) of Republic Act No. 9513.

(ee) **Renewable Energy Resources (RE Resources)** refer to energy resources that do not have an upper limit on the total quantity to be used. Such resources are renewable on a regular basis, and whose renewal rate is relatively rapid to consider availability over an indefinite period of time. These include, among others, biomass, solar, wind, geothermal, ocean energy, and hydropower conforming with internationally accepted norms and standards on dams, and other emerging renewable energy technologies, as defined in Section 4(uu) of Republic Act No. 9513.

(ff) **Renewable Portfolio Standards (RPS)** refer to a market-based policy that requires electric power industry participants, including suppliers, to source a portion of their energy supply from eligible RE Resources, as defined in Section 4(ss) of Republic Act No. 9513.

(gg) **Renewable Energy Systems (RE Systems)** refer to energy systems which convert RE resources into useful energy forms, like electrical, mechanical, etc., as defined in Section 4(vv) of Republic Act No. 9513.

(hh) **Senior Citizen Subsidy Rate** refers to the rate charged to non-senior citizen customers to cover for the discount given to senior citizens pursuant to ERC Resolution 23, Series of 2010, "A Resolution Adopting the Rules Implementing the Discounts to Qualified Senior Citizen End-Users and Subsidy from the Subsidizing End-Users on Electricity Consumption under Sections 4 and 5 of Republic Act No. 9994."

ARTICLE II - QUALIFICATIONS AND ELIGIBILITY

Section 5. Qualifications. All end-users who are in good credit standing in the payment of their electric bills to the DU; and new customers are qualified to participate in the Net-Metering program for Renewable Energy.

Section 6. Eligible RE Technologies. RE Systems such as wind, solar, run-of river hydropower, biomass energy systems or such other RE Systems capable of being installed within the QE's premises, with or without battery, are eligible to participate in the Net-Metering program.

Section 7. Certificate of Compliance (COC). All QEs shall apply for a COC with the ERC in accordance with ERC Resolution No. 16, Series of 2014, "A Resolution Adopting the 2014 Revised Rules for the Issuance of Certificates of Compliance (COCs) for Generation

Companies, Qualified End-Users and Entities with Self-Generation Facilities," and any subsequent amendment thereto.

To simplify and facilitate the process, the DU shall assist the QE in their COC application. The DU shall receive and transmit to ERC all documents related to the application, including the Net Metering Agreement (NMA) entered into in accordance with Section 12 hereof, within five (5) days from its execution. The DU shall, thereafter, inform the applicant of the ERC's action.

ARTICLE III – INTERCONNECTION STANDARDS

Section 8. Mandated Entities. As provided in Section 10 of Republic Act No. 9513, the DOE, ERC, TransCo or its successor-in-interest, DUs, PEMC and all relevant parties are mandated to provide the mechanisms for the physical connection and commercial arrangements necessary to ensure the success of the net-metering for renewable energy program, consistent with the Philippine Grid and Distribution Codes.

The DUs and the QEs shall grant ERC, DOE and NREB free access to all data generated by net-metering to enable the creation of a knowledge-based resource on net-metering, and enhance or accelerate viability of the net-metering program and successful integration to the grid.

Section 9. Compliance Standards. The RE System to be installed within the QE's premises must be compliant with the standards set by the Philippine Electrical Code (PEC), Philippine Distribution Code (PDC), Distribution Service Open Access Rules (DSOAR) and the Net-Metering Interconnection Standards (See Annex "A-1").

Section 10. Interconnection Set-Up. The RE system shall be embedded in the QE's premises and shall be equipped with appropriate metering equipment. The DU shall furnish and install a bi-directional meter at the QE's premises, without prejudice to the DU's compliance with Section 34 of the "Rules to Govern the Implementation of Advanced Metering Infrastructure (AMI) by Distribution Utilities and Other ERC-Authorized Entities," promulgated on 18 May 2016, and other relevant Rules as may be promulgated by the Commission.

All bi-directional meters and its installation shall be at the expense of the QE, except in the case of new customers, and QEs with existing separate meters required to be replaced with a bi-directional meter under "Rules to Govern the Implementation of Advanced Metering

Infrastructure (AMI) by Distribution Utilities and other ERC - Authorized Entities," the cost thereof shall be on the account of the DU.

The DU shall also furnish and install, an REC meter in proximity to the RE System. This is to measure the total RE generated for compliance with the Renewable Portfolio Standards (RPS) and to measure the actual energy consumption for the determination of the following:

(a) non-exemption from payment of the lifeline subsidy rate;
(b) payment of senior citizen subsidy rate; and
(c) other relevant subsidies mandated by law.

The location of the above-mentioned meters shall be in accordance with Section 7.2.2 of the 2017 Philippine Distribution Code, and any subsequent amendment thereto.

Section 11. DU Inspection. The QE shall allow the DU to access the QE's RE system to inspect, test, maintain and operate the protective devices and read or test the meters and other facilities, provided that the QE was given a notice in writing at least three (3) days before the DU's intended date to enter the premises.

The DU, upon the same notice requirement as stated above, may limit the operation and/or disconnect, or require the disconnection of a QE's RE system from the DU's Distribution System under the following circumstances:

(a) Routine maintenance, repairs or modification of the DU's Distribution System;

(b) Upon determination by the DU that a QE's RE system is not compliant with the DSOAR and the PDC; and

(c) Upon termination of the Agreement.

However, in cases of emergency where the DU reasonably believes that a hazardous condition exists which may warrant such limiting of the operations and/or disconnection to ensure public safety, only a reasonable notice to the QE is required.

ARTICLE IV – COMMERCIAL ARRANGEMENTS

Section 12. Net-Metering Agreement. Subject to technical considerations and without discrimination, and upon request by a

QE, the DU shall enter into a Net-Metering Agreement (NMA) with the requesting QE using the ERC-approved template (See Annex "A-2"). Notwithstanding its transmittal to the ERC, as a requirement for the application of the COC, the DU shall likewise furnish the DOE and NREB with a copy of the executed NMA within the same period provided in Section 7 hereof. The executed NMA shall be deemed effective upon submission thereof to ERC; however, billing shall retroact from the time of successful testing and commissioning.

Should the DU deviate from the ERC-approved template, a separate approval from the ERC is necessary. Pending such approval, the ERC-approved template shall be used.

Any modification to an existing RE system shall require the QE to undergo the same process as that of a new customer.

Section 13. Pricing Methodology. The price of export electricity shall be the DU's monthly generation charge, which is based on its blended generation cost, excluding other generation adjustments.

Section 14. Non-Exemption. Unless otherwise provided under Section 17 of RA 9513 and except those who are qualified to avail of the Lifeline Rate and Senior Citizen Subsidy, all QEs shall still be required to pay the Lifeline Subsidy Rate, Senior Citizen Subsidy Rate and other relevant subsidies, based on the QE's actual energy consumption. Actual energy consumption shall include import energy and own-use.

Section 15. Entitlement to the Lifeline Rate. Consistent with Section 73 of the EPIRA and RA 10150, a QE may be entitled to the Lifeline Rate in the following instances:

(a) If its actual energy consumption falls within the threshold of the DU's Lifeline Program; or

(b) If its import energy falls within the threshold of the DU's Lifeline Program and the QE was able to provide any of the following documents:

i. Certification from the National Household Targeting System for Poverty Reduction (NHTS-PR) of the Department of Social Welfare and Development (DSWD) that the QE belongs to the Pantawid Pamilyang Pilipino Program (4Ps);

ii. A certified true copy of the License to Sell issued by the Housing and Land Use Regulatory Board (HLURB) to

the housing developer, and a copy of the contract between the housing developer and the homeowner indicating that the specific lot location is part of the socialized or economic housing development; Provided that the owner is the occupant of the socialized or economic housing unit; or

iii. Three consecutive billing statements showing that the QE was already enjoying the lifeline rate prior to entering into a Net Metering Agreement.

Should the QE consistently exceed the threshold of the DU's lifeline program for twelve (12) consecutive billing periods, the QE shall no longer be entitled to the lifeline rate under this exception.

Section 16. Cost Recovery of Net-Metering Agreements. The cost of RE exported to the DU system and purchased by the DU under the NMA shall automatically be included in the DU's total generation cost to be recovered from all DU customers as part of the adjusted generation rate pursuant to Section 2, Article 2 of ERC Resolution No. 16, Series of 2009, including any subsequent amendment thereto.

Section 17. Conduct of Distribution Impact Study (DIS). The DU shall determine, in a non-discriminatory basis, whether a specific DIS is necessary, to ensure the reliability and safety of the interconnection of the RE system and the Distribution System. There will be no additional charges that will be imposed on the QE for the conduct of the DIS.

Section 18. Billing Charges. The net amount payable by or creditable to the QE shall be obtained by subtracting from the subtotal amount for import energy, the following: (a) the subtotal peso amount for export energy, and (b) the peso amount credited in the previous month, if any. If the resulting peso amount is positive, the QE shall pay this positive peso amount to the DU. If the resulting peso amount is negative, the DU shall credit the negative peso amount to the QE's electric bill in the immediately succeeding billing period.

Section 19. RE Certificate. The DU shall be entitled to an RE Certificate resulting from Net-Metering arrangements with the QE who is using an RE Resource to provide energy. Such RE Certificate

shall be based on gross generation and shall be credited as compliance of the DU's obligations under the RPS.

Section 20. Processing Timeline. All DUs shall complete the whole interconnection process within twenty (20) working days from the receipt of the letter of interest, provided all necessary permits and licenses from various concerned agencies are secured and completed.

Section 21. Reporting. All DUs shall submit a Net-Metering implementation report to the ERC, including the processing timelines of the Net-Metering applications using the ERC-provided reportorial template (See Annex "A-3"). For the first two (2) years of the implementation of this Amended Net-Metering Rules, reports shall be filed semi-annually, not later than January 31st and July 31st of each year, and annually, not later than March 31st of each year.

ARTICLE V - NEW HOUSING DEVELOPMENTS

Section 22. One time conduct of DIS. For New Housing Developments - Upon receipt of the letter of interest from the developer of a Net-Metering-ready housing development, the DU shall conduct a DIS in accordance with Section 16 of this rules, provided that all the necessary documents and permits from the different concerned agencies have been submitted.

Section 23. Application. The individual homeowners in housing developments, as provided in Section 22, shall undergo the same application process as in any other QE.

ARTICLE VI – PENALTIES AND OTHER PROVISIONS

Section 24. Penalties.

Failure or unjust refusal of the DU to undertake or implement Net Metering shall be subject to the penalties and other impositions as provided for under Rule 12 Section 36 (a)(2) of the Rules and Regulation Implementing Republic Act No. 9513.

Violation of any provision of these Rules shall also be subject to the imposition of fines and penalties in accordance with the "Guidelines to Govern the Imposition of Administrative Sanctions in the Form of Fines and Penalties Pursuant to Section 46 of the Act"

promulgated by the ERC on May 17, 2002, as amended by Resolution No. 03, Series of 2009, entitled "Resolution Amending the Guidelines to Govern the Imposition of Administrative Sanctions in the Form of Fines and Penalties Pursuant to Section 46 of Republic Act No. 9136", dated February 23, 2009, including any subsequent amendments thereto.

Section 25. Miscellaneous Provisions

25.1. Exception. Where good cause appears, the ERC may allow an exemption from any provision of these Rules, if such is found to be in the public interest and is not contrary to law or any other related rules and regulations.

25.2. Separability. If any provision of these Rules is declared invalid or unconstitutional by a court of competent jurisdiction, those provisions which are not affected thereby shall continue to be in full force and effect.

25.3. Repealing. All prior rules and guidelines or portion thereof issued by the ERC in relation to net metering that are inconsistent with these Rules are hereby repealed or modified accordingly.

25.4. Effectivity. These Rules shall take effect within fifteen (15) days following its complete publication in a newspaper of general circulation or in the Official Gazette.

Pasig City, 16 August 2019.

ERC
Office of the Chairperson
AVSTD-2019-10-570-0001

AGNES VST DEVANADERA
Chairperson and CEO

JOSEFINA PATRICIA A. MAGPALE-ASIRIT
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PAUL CHRISTIAN M. CERVANTES
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ANNEX "A-1"

AMENDED NET-METERING INTERCONNECTION STANDARDS

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1. OVERVIEW

The Net-Metering Interconnection Standards for Qualified End-users sets forth the standards that Qualified End-users (QE) should adhere to prior to entering into Net-Metering Agreements (NMAs) with on-grid Distribution Utilities (DUs).

2. SCOPE AND PURPOSES

The Net-Metering Interconnection Standards for Qualified End-users provide for the rules and standards for the interconnection of QEs' Renewable Energy (RE) generating facilities to the DU's Distribution System, and apply to single-phase or three-phase generation with a maximum capacity of 100 kW. They provide technical guidance to address engineering, electric system reliability, and safety concerns for this type of interconnection.

3. DEFINITIONS

The following terms shall be understood to have the following meanings when used in these guidelines:

3.1 Commissioning Test refers to a test conducted when the equipment is installed to verify correct operation.

3.2 Connection Point refers to the point of connection of the QE System or Equipment to the Distribution System.

3.3 Distributed Generation refers to a system of small generation entities supplying directly to the distribution grid, any one of which shall not exceed one hundred kilowatts (100kW) in capacity, as defined in Section 4(j) of Republic Act No. 9513.

3.4 Distribution Asset Study (DAS) refers to a study to determine all distribution assets and costs necessary to accommodate a proposed net-metering interconnection.

3.5 Distribution Impact Study (DIS) refers to a set of technical studies which are used to assess the possible effects of a proposed expansion, reinforcement, or modification of the Distribution System or a User Development and to evaluate Significant Incidents.

3.6 Distribution Services and Open Access Rules (DSOAR) refers to the rules promulgated by the Energy Regulatory Commission under ERC Resolution No. 2, Series of 2010 including

any subsequent amendment thereto, covering, among others, the terms and conditions for the connection of generating facilities to the Distribution System.

3.7 Distribution System refers to the system of wires and associated facilities belonging to a franchised distribution utility extending between the delivery points on the transmission or sub-transmission system or generator connection and the point of connection to the premises of the end-user, as defined in Section 4(o) of Republic Act No. 9136.

3.8 Distribution Utility (DU) refers to any electric cooperative, private corporation, government-owned utility or existing local government unit which has an exclusive franchise to operate a Distribution System in accordance with its franchise and R.A. No. 9136, as defined in Section 4(l) of Republic Act No. 9513.

3.9 Energy Regulatory Commission (ERC) refers to the independent quasi-judicial regulatory agency created pursuant to Republic Act No. 9136, as defined in Section 4(n) of Republic Act No. 9513.

3.10 Flicker refers to the impression of unsteadiness of visual sensation induced by a light stimulus whose luminance or spectral distribution fluctuates with time.

3.11 Grounding refers to a conducting connection by which an electrical circuit or equipment is connected to earth or to some conducting body of relatively large extent that serves as ground.

3.12 Harmonics refers to sinusoidal voltages and currents having frequencies that are integral multiples of the fundamental frequency.

3.13 Interconnection refers to the result of the process of adding an RE system to the Distribution System.

3.14 Island refers to a condition in which a portion of the DU's distribution network is energized solely by one or more RE systems.

3.15 Metering Service Provider (MSP) refers to a person or entity authorized by ERC to provide Metering Services. The DU shall be the sole metering service provider for the retail market until such time that the ERC determines the provision of metering services at the retail level as competitive.

3.16 Net-Metering refers to a system, 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, as defined in Section 4 (gg) of R.A. 9513.

3.17 Net-Metering Agreement refers to the agreement between a QE and the DU governing their commercial and inter-connection arrangements between the DU and the QE (See Annex "A-2").

3.18 Parallel Operation refers to the operation of an RE system with or without an exporting capacity while connected to the DU's Distribution System.

3.19 Philippine Distribution Code (PDC) refers to the set of rules, requirements, procedures and standards governing DUs and Users of Distribution System in the operation, maintenance and development of the Distribution System. It also defines and establishes the relationship of the Distribution System with the facilities or installations of the parties connected thereto.

3.20 Philippine Electrical Code (PEC) refers to the electrical safety code that establishes basic materials quality and electrical work standards for the safe use of electricity for light, heat, power, communications, signaling, and for other purposes.

3.21 Qualified End-user (QE) refers to entities that generate electric power from an eligible on-site RE generating facility, such as, but not limited to, house or office building with photovoltaic system that can be connected to the grid, for the purposes of entering into a Net-Metering agreement, as defined in Section 7 of the Implementing Rules and Regulations of R.A. 9513.

3.22 Reclosing refers to the automatic return of power lines to service following their disconnection for fault conditions.

3.23 Renewable Energy (RE) Certificate refers to a certificate issued by the RE Registrar to the electric power industry participants showing the energy sourced, produced, and sold or used. RE Certificates may be traded in the RE Market in complying with the RPS, as defined in Section 3(tt) of the Implementing Rules and Regulations of R.A. 9513.

3.24 Renewable Energy Facility (RE system) refers to the generator(s) and/or inverter(s) together with all protective, safety, and associated equipment, located on the QE's side of the

Connection Point which the QE requests to interconnect to the DU's Distribution System.

3.25 Renewable Energy Resources (RE Resources) refer to energy resources that do not have an upper limit on the total quantity to be used. Such resources are renewable on a regular basis, and whose renewal rate is relatively rapid to consider availability over an indefinite period of time. These include, among others, biomass, solar, wind, geothermal, ocean energy, and hydropower conforming with internationally-accepted norms and standards on dams, and other emerging renewable energy technologies, as defined in Section 4(uu) of Republic Act No. 9513.

3.26 Standard Planning Data refers to the general data required by the distribution utility as part of the application for a net-metering interconnection.

3.27 Synchronization refers to the process of attaining the state when connected Generating Units and/or interconnected AC Systems operate at the same Frequency and where the phase angle displacements between their voltages vary about a stable operating point.

4. GENERAL GUIDELINES

4.1 A QE who intends to operate in parallel with the DU's Distribution System shall, in consultation with the DU, design, install, operate, and maintain all necessary equipment on its property for interconnection, unless otherwise stated in the Net-Metering Agreement.

4.2 The requirements in these guidelines shall be met at the Connection Point, although the devices used to meet these requirements can be located elsewhere.

4.3 The DU shall allow interconnection of RE systems with a maximum capacity of 100kW$_{AC}$ per QE account to its Distribution System, except for Solar Photovoltaic (PV) which shall be 100kW$_{DC}$.

4.4 The DU shall conduct inspections and witness the calibration and testing of the QE's lines, wires, and switches.

4.5 The DU shall disconnect the QE's generation facility from the Distribution System at any time, using the disconnect device as specified in 7.4.1 of these Rules, whenever the DU deems it necessary to conduct maintenance, test, repair, or emergency

condition or other safety concerns related to it, subject to the notice requirement as provided under the Amended Net Metering Rules.

4.6 All specifications and detailed plans for the installation of the communication, control and protective devices shall be of the DU's standards.

4.7 The QE shall inform the DU prior to the execution of any changes or modifications in the RE system or to the connection point consistent with Section 12 of the Amended Net Metering Rules. The QE shall be liable for any costs and/or damages incurred by the DU as a result of any changes or modifications in the RE system or to the connection point without the latter's approval.

4.8 Unless otherwise provided under this Guidelines, the RE system shall conform to the latest version of the PEC, PDC, DSOAR, other local codes, the Terms and Conditions of Service and Standard Rules and Regulations as approved by the ERC, and any subsequent amendment thereto.

5. APPLICATION FOR INTERCONNECTION

5.1 Upon written request, the DU shall immediately provide information and documents (such as the *pro forma* agreements and the application, technical requirements, specifications, listing of certified equipment, application fee information, applicable rate schedules and metering requirements) in response to a QE's inquiry. All such information shall be sent to the QE as agreed upon by the DU and the QE.

5.2 The application form shall include the following information:

- A description of the proposed connection or modification to an existing connection to the Distribution System;
- The relevant Standard Planning Data as specified in Section 5.4 of the PDC;
- RE systems shall pass at the very least, the following Type Tests:
    - Harmonic Test
    - Flicker Test
    - DC injection Test
    - Protection Tests
        - Over-frequency

        - Under-frequency
        - Over and Under Voltage
        - Anti-islanding
    - Fault Level Contribution Test
    - Self-Monitoring Test and other data as required by the DU.

- The completion date of the proposed interconnection.

- Certificate of Compliance requirements as provided in Resolution No. 16, Series of 2014, "A Resolution Adopting the 2014 Revised Rules for the Issuance of Certificates of Compliance (COCs) for Generation Companies, Qualified End-Users and Entities with Self-Generation Facilities".

5.3 The QE shall complete and file an application and any possible Detailed Planning Data as specified in Section 5.5 of the PDC. The filing must include the completed application and a fee (if required) for processing the application.

5.4 Upon receiving the application, the DU shall immediately acknowledge its receipt and state whether or not the application is complete.

5.5 Once an application is accepted by the DU as complete, the DU shall determine, in a non-discriminatory basis, whether a specific DIS is necessary in accordance with the DSOAR.

5.6 Upon completion of the study, the DU shall provide the applicant with the results of the study, including any additional interim agreements, such as construction agreements that may be necessary and a cost estimate to complete the interconnection.

5.7 Prior to the signing of the Net-Metering Agreement, the DU, together with the QE, shall inspect the RE system onsite and check its conformance to the technical requirements in the Net-Metering Agreement and of these guidelines. Any non-conformance shall be corrected first before the Net-metering Agreement is signed, and the RE system is connected and energized.

5.8 The DU and QE, taking into consideration the agreed target completion date, shall use their reasonable endeavors, in coordination with each other, to complete their respective connection arrangements as agreed in the Net-metering Agreement.

6. SYSTEM PARAMETERS

Any RE system causing interference, problems, or any unacceptable parameters to the DU's Distribution System shall be disconnected by the DU from the Distribution System and shall remain disconnected until the condition has been corrected, provided that reasonable notice is given on the intent to disconnect, and the QE is given at least three (3) days within which to remedy the hazardous condition. If the cause of the problem is the RE system, all costs associated with determining and correcting the problem shall be at the QE's expense.

6.1 Voltage Level

The QE shall operate its facility, maintaining the same voltage level as the DU's Distribution System at the Connection Point. The QE must provide an automatic method of disconnecting its facility from the Distribution System within the DU's limits as stated in Table 1.

Table 1 – Minimum Time Requirements for RE to Remain Connected at Different Voltage Ranges

RE System	
Voltage Range (% of Base Voltage)	**Time (s)**
V<50	0.16
50≤V<90	2.00
90<V ≤110	Normal Operating Range
110<V<120	1.00
V≥120	0.16

6.2 Frequency

All RE systems shall operate at a frequency of 60 Hz. The QE shall provide automatic disconnection means from the DU's Distribution System within the time prescribed in Table 2.

Table 2 - Minimum Time Requirements for RE to Remain Connected at Different Frequency Ranges

RE System	
Frequency Range (Hz)	**Time**
F > 62.4	Automatic disconnection
61.8 < F ≤ 62.4	5 minutes

58.2 ≤ F ≤ 61.8	Continuous Operation
57.6 ≤ F < 58.2	5 minutes
F < 57.6	5 seconds

6.3 Power Quality

6.3.1 Limitation of Direct Current (DC) Injection

The RE system and its interconnecting system shall not inject DC greater than 0.5% of the full load rated output current at the Connection Point.

6.3.2 Flicker Severity

The flicker severity at the Connection Point shall not exceed 1.0 unit for short term and 0.8 units for long term as specified in Section 3.2.6 of the PDC, or any subsequent amendments thereto.

6.3.3 Harmonics

The harmonic content of the voltage and current waveforms in the DU's Distribution System shall be restricted to levels that will not cause interference or equipment-operating problems. The harmonics shall be within the limits defined in Section 3.2.4 of the PDC or any subsequent amendment thereto.

6.4 Power Factor

The QE shall maintain a power factor of not less than 85% lagging, measured at the Connection Point. Failure to maintain the power factor within this range may result in rate penalties and/or discontinuation of interconnection with the DU's Distribution System.

7. SYSTEM PROTECTION

The QE shall be responsible for providing adequate protection for its system under any operating condition, and regardless of whether or not the interconnected generation is in operation. Conditions include, but are not limited to, single phasing of supply, system faults, equipment failures, abnormal voltage or frequency, lightning and switching surges, excessive harmonic voltages, excessive negative sequence voltages and islanding.

7.1 Synchronization

The QE shall provide synchronizing devices for synchronizing the RE system to the DU's Distribution System. Automatic synchronization devices shall be installed to monitor and control the synchronism, frequency, power factor and the voltage level of the RE system. The DU shall review, approve, and inspect the method of synchronization. Automatic synchronizing settings shall not be changed following installation unless mutually agreed by both parties. Typical limits for synchronizing parameters are given in Table 3.

Table 3 - Typical Synchronizing Parameter Limits

Aggregate Rating of RE Resource (kW)	Maximum Frequency Difference Δ f (Hz)	Maximum Voltage Difference Δ V (%)	Maximum Phase Angle Difference Δ Φ (Degrees)
≤ 100	0.3	10	20

7.2 Islanding

In case the QE's interconnection system detects islanding, the QE shall disconnect from the Distribution System within two (2) seconds. The QE shall provide systems against islanding to isolate and block the RE system from closing back into the Distribution System until the system is energized for at least ten (10) minutes from a normal utility source.

7.3 Integration with DU's Distribution System Grounding

The grounding scheme of the QE shall not cause over voltages that exceed the rating of the equipment connected to the DU's Distribution System and shall not disrupt the coordination of the ground fault protection on the Distribution System. All electrical systems and equipment shall be grounded in accordance with the requirements of the PEC.

7.4 Protective and Control Devices

The QE's protection system shall coordinate with the DU's protection system. The QE shall submit proposed fused types or relay settings to the DU for review and acceptance. Any subsequent relay changes shall also be submitted to the DU.

7.4.1 Disconnect Device

The QE shall provide a visible disconnect device to be used by the DU to electrically isolate the DU's Distribution System from the RE system and to establish working clearances for maintenance, safety and system considerations. The disconnect device shall be physically located within 10 feet from the Connection Point for ease of access by the DU personnel. If this is not practical, the disconnect device should be located between the RE system and the Connection Point. The type of disconnect device must allow for visual indication of the contact's position and the handle must be lockable in the open position with a padlock. Only the DU personnel and the QE will have access to the disconnect device.

The RE system installed within the QE's premises must be properly labeled and marked at the Connection Point to guide the DU personnel.

7.4.2 Protective Relays

Protective relays shall be installed to trip the corresponding circuit breaker during abnormal conditions. Protective relays for a given RE Resource rating typically include, but are not limited to, the lists shown in Tables 4, 5 and 6.

Table 4 - Interconnection Protective Function Requirements for Induction Generators

Device #	Protective Equipment	RE System Size	
		≤ 10 kW	>10 kW - 100 kW
27	Under Voltage Relay	x	x
27 GEN	Voltage Check Relay	x	x
59	Overvoltage Relay		x
81/O - 81/U	Over-Under Frequency Relay		x
	Anti-Islanding Relay (phase shift or RoCoF)	x	x

Table 5 - Interconnection Protective Function Requirements for Synchronous Generators

Device #	Protective Equipment	RE System Size	
		≤10 kW	>10 kW - 100 kW
25	Synchronism-Check	x	x

	Relay		
27	Under Voltage Relay	x	x
51V	Over current Relay, Voltage Restrained		x
59	Over-voltage Relay		x
81/O - 81/U	Over/Under frequency Relay	x	x
	Anti-Islanding Relay (phase shift or RoCoF)	x	x

Table 6 - Interconnection Protective Function Requirements for Inverters

Device #	Protective Equipment	RE System Size	
		≤10kW	≤ 100 kW
27	Under-voltage Relay	x	x
59	Over-voltage Relay	x	x
81/O – 81/U	Over/Under Frequency Relay	x	x
	Anti-Islanding Relay (phase shift or RoCoF)	x	x

7.5 Reclosing

The RE system should immediately disconnect from the Distribution System when the system is down. For a Distribution System with automatic reclosing, the RE recloser should wait for two (2) minutes from the time the DU recloser has normalized the portion of the system to which the RE system is connected before synchronizing back to the system.

8. OPERATIONS & MAINTENANCE

8.1 A QE's RE system shall be capable of operating in parallel with the DU's Distribution System at the point of interconnection.

8.2 The QE must inform the DU's System Operator if it is going to synchronize to or isolate from the DU system.

8.3 In the event there is no power from the DU, the RE system should automatically disconnect from the DU's system.

8.4 The QE shall provide the DU the contact number of the person who is responsible for the operation of the RE system.

8.5 The QE shall also maintain the RE system and interconnection facilities in a safe manner as approved by the DU and in conformity with all applicable laws, rules and regulations.

9. METERING

9.1 The RE system used for Net-Metering shall be equipped with metering equipment that can measure the flow of electricity in both directions at the same rate, through the use of a single bi-directional meter.

9.2 A Renewable Energy Certificate (REC) meter shall be installed in accordance with Section 7.2.2 of the 2017 Philippine Distribution Code to record all energy production of the RE system for purposes of issuance of REC, which the DU can use to comply with its RPS obligations. This is also to measure the actual consumption for the determination of non-exemption from paying the of the Lifeline Subsidy Rate, Senior Citizen Subsidy Rate and such other subsidies that may be relevant.

9.3 The Metering Service Provider (MSP) shall own and shall be responsible for the design, provision, installation, operation, maintenance, testing and sealing of the meter and associated metering equipment in accordance with Section 2.11 of the DSOAR.

9.4 The QE shall provide the required space and the associated civil works for the location of the metering facilities.

9.5 Metering facilities shall be installed in a clean place free of vibration and where it will be easily accessible and visible for reading and testing by both the DU and the QE. The applicable provisions of the DSOAR and Magna Carta for Residential Electricity Consumers shall apply.

10. TESTING AND COMMISSIONING

The DU shall have the right to witness the testing and commissioning upon completion of construction, and shall have a copy of the test data. The commissioning test shall be conducted after the interconnection system is installed and is ready for operation. Commissioning test shall include the following:

- Verification and inspections
- Reactive Power Test;
- Protection Tests;
- Reconnection Timing test (Blocking Test); and
- Synchronization Test

The DU and the RE system shall be equipped with whatever equipment is required to perform these tests. The DU shall not be responsible for verifying any control or signal wiring not directly related to the interconnection protection.

The DU reserves the right to test the relaying and control related to the protection of the DU's Distribution System.

11. BIBLIOGRAPHY

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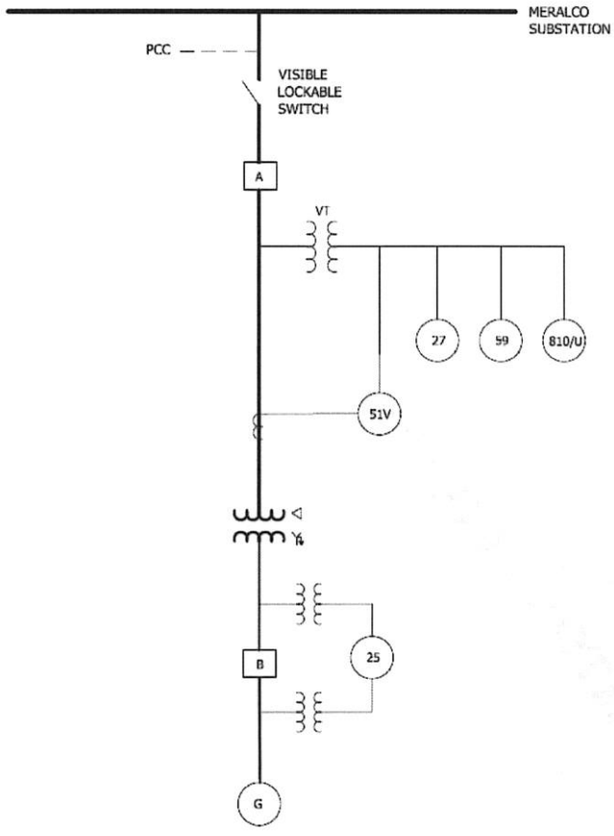
Relay and Control Requirements for Parallel Operation of Generation. PPL, Electric Utilities Corp., Inc., March 2003.

IREC Model Interconnection Standards and Procedures for Small Generator Facilities. Interstate Renewable Energy Council MR-I 2005

12. APPENDIX

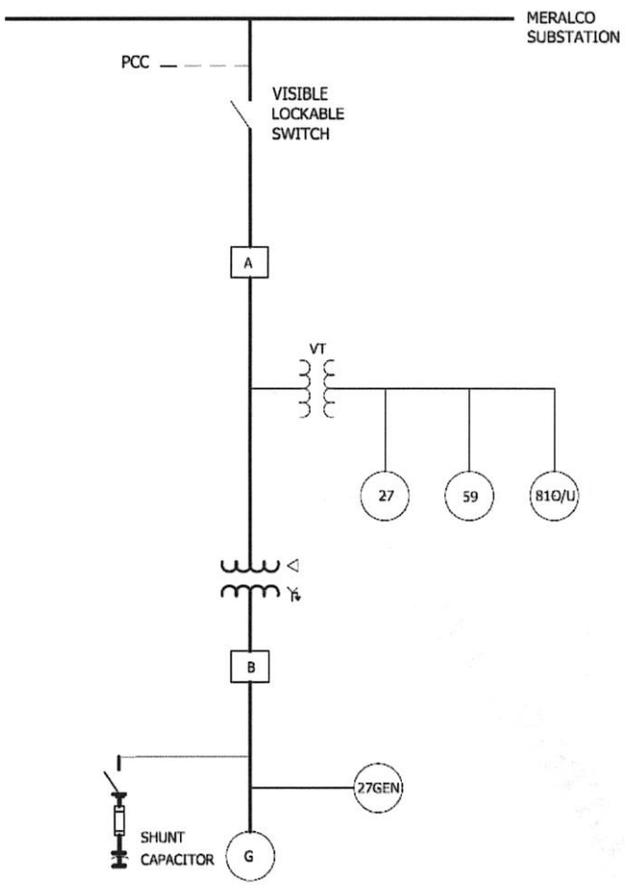
Appendix A - Typical Single-Line Diagram for the Protection of Synchronous Generator



LEGEND:

25	SYNCHRONISM CHECK RELAY
27	UNDERVOLTAGE RELAY
51V	OVERCURRENT RELAY, VOLTAGE RESTRAINED
59	OVERVOLTAGE RELAY
81O/U	OVER/UNDER FREQUENCY RELAY
PCC	POINT OF COMMON COUPLING

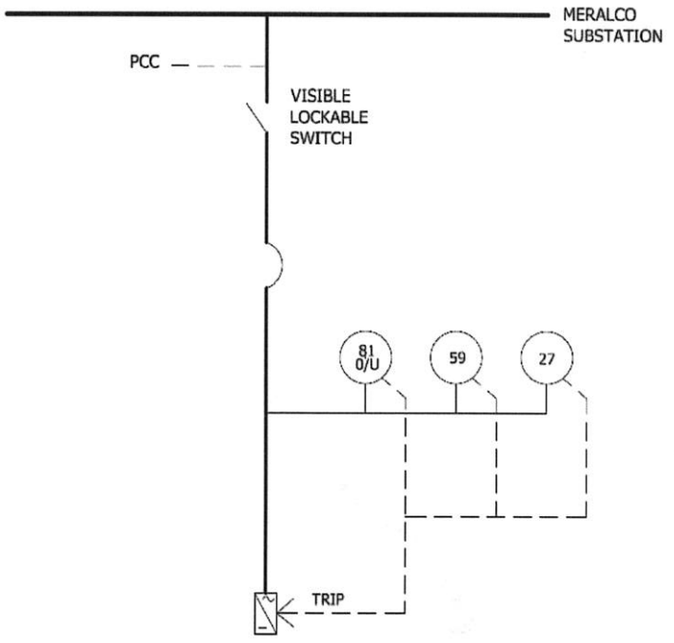
Appendix B - Typical Single-Line Diagram for the Protection of Induction Generator



LEGEND:

27	UNDERVOLTAGE RELAY
27GEN	VOLTAGE CHECK RELAY
59	OVERVOLTAGE RELAY
81O/U	OVER/UNDER FREQUENCY RELAY
PCC	POINT OF COMMON COUPLING

Appendix C - Typical Single-Line Diagram for the Protection of Inverter



LEGEND:

27	UNDERVOLTAGE
59	OVERVOLTAGE
81O/U	OVER/UNDER FREQUENCY
PCC	POINT OF COMMON COUPLING

Annex A-2

AMENDED NET-METERING AGREEMENT

This **Net-metering Agreement** is entered into by and between:

_____, of legal age, single/married, with postal address at _____, hereinafter referred to as the Qualified End-User (QE);

-and-

_____, an electric distribution utility duly organized and existing under Philippine laws, with principal office address at _____, franchised to construct, own, operate and maintain an electric distribution facility in the city/municipalities/barangays of _____, all in the Province of _____, represented herein by its President/General Manager _____, hereinafter referred to as the DU;

WITNESSETH THAT:

WHEREAS, QE intends to install within its premises for purposes of net-metering a Renewable Energy (RE) system, more particularly described as follows:

Technology Type: _____
Rated Capacity: _____
Location: _____

WHEREAS, DU has pre-qualified QE to be eligible to participate in the net-metering program;

NOW, THEREFORE, the parties enter into this net-metering agreement under the following terms and conditions:

Section 1. Compliance Standards. - The RE System to be installed within the QE's premises must be compliant with the standards set by Philippine Electrical Code (PEC), Philippine

Distribution Code (PDC), Distribution Service Open Access Rules (DSOAR) and the Net-Metering Interconnection Standards.

Section 2. Interconnection Set-Up. - The RE system shall be embedded in the QE's premises and shall be equipped with appropriate metering equipment.

a. The DU shall furnish and install a bi-directional meter at the QE's premises, without prejudice to the DU's compliance with Section 34 of the "Rules to Govern the Implementation of Advanced Metering Infrastructure (AMI) by Distribution Utilities and Other ERC-Authorized Entities," promulgated on 18 May 2016, and other relevant Rules as may be promulgated by the Commission.

b. All bi-directional meters and its installation shall be at the expense of the QE; except in the case of new customers; and QEs with existing separate meters required to be replaced with a bi-directional meter under "Rules to Govern the Implementation of Advanced Metering Infrastructure (AMI) by Distribution Utilities and other ERC - Authorized Entities," the cost thereof shall be on the account of the DU.

c. The DU shall also furnish and install, an REC meter in proximity to the RE System. This is to measure the total RE generated for compliance with the Renewable Portfolio Standards (RPS) and to measure the actual energy consumption for the determination of the following:

    i. non-exemption from payment of the lifeline subsidy rate;
    ii. payment of senior citizen subsidy rate; and
    iii. other relevant subsidies mandated by law.

d. The location of the above-mentioned meters shall be in accordance with Section 7.2.2 of the 2017 Philippine Distribution Code, and any subsequent amendments thereto.

A complete and more detailed plans and specifications of the interconnection set-up and facilities are attached as an integral part of this net-metering agreement.

Section 3. DU Inspection. - The QE shall allow the DU to access the QE's RE system to inspect, test, maintain and operate the protective devices and read or test the meters and other facilities,

provided that the QE was given a notice in writing at least three (3) days before the DU's intended date to enter the premises.

The DU, upon the same notice requirement as stated above, may limit the operation and/or disconnect, or require the disconnection of a QE's RE system from the DU's Distribution System under the following circumstances:

1. Routine maintenance, repairs or modification of the DU's Distribution System;

2. Upon determination by the DU that a QE's RE system is not compliant with the DSOAR and the PDC; and

3. Upon termination of the Agreement.

However, in cases of emergency where the DU reasonably believes that a hazardous condition exists which may warrant such limiting of the operations and/or disconnection to ensure public safety, only a reasonable notice to the QE is required.

Section 4. Meter Readings. - The DU shall be the Metering Service Provider and shall conduct the meter reading of the import and export meters every ____ day of the month for billing purposes. The DU shall immediately leave a copy of the results of its meter readings at the QE's premises, in accordance with Section 2.11.2 of the Distribution Services and Open Access Rules (DSOAR).

Section 5. Pricing of Exported Renewable Energy. - The price of export electricity shall be the DU's monthly generation charge, which is based on its blended generation cost, excluding other generation adjustments.

Section 6. Conduct of Distribution Impact Study (DIS). The DU shall determine, in a non-discriminatory basis, whether a specific DIS is necessary, to ensure the reliability and safety of the interconnection of the RE system and the Distribution System. There will be no additional charges that will be imposed on the QE for the conduct of the DIS.

Section 7. Billing Charges. - The net amount payable by or creditable to the QE shall be obtained by subtracting from the subtotal amount for import energy, the following: (a) the subtotal peso amount for export energy, and (b) the peso amount credited in

the previous month, if any. If the resulting peso amount is positive, the QE shall pay this positive peso amount to the DU. If the resulting peso amount is negative, the DU shall credit the negative peso amount to the QE's electric bill in the immediately succeeding billing period.

Section 8. RE Certificate. - The DU shall be entitled to an RE Certificate resulting from Net-Metering arrangements with the QE who is using an RE Resource to provide energy. Such RE Certificate shall be based on gross generation and shall be credited as compliance of the DU's obligations under the RPS.

Section 9. Modification to the RE System. - Any modification to an existing RE system shall require the QE to undergo the same process as that of a new customer including the execution of a new Net-Metering Agreement.

Section 10. Severability. - The unenforceability or invalidity of any provision or part of this Agreement shall not affect the enforceability or validity of the other provision or part of this Agreement.

Section 11. Amendments. - No changes or modifications of this Agreement shall be effective unless in writing signed by both Parties.

Section 12. Notices. - Each communication to be made hereunder shall be made in writing and, unless otherwise stated, may be sent through personal delivery, facsimile, or first class mail at the following address or facsimile number:

For the Qualified End User:

Address: _____
Fax: _____
Email: _____

For the Distribution Utility:

Address: _____
Fax: _____
Email: _____

Section 13. Non-waiver/exercise of rights. - Failure by a Party to exercise or delay in exercising a right, power or remedy does not prevent its exercise or is a waiver of such right, power or remedy. No waiver by either party of any of its rights, power or remedy under this Agreement shall be deemed to have been made unless expressed in writing and signed by both parties.

Section 14. Termination Date. – The agreement shall be co-terminus with the service contract of the QE with the DU under Customer Account No. _____. Either party may however pre-terminate this net-metering agreement for just cause.

Section 9. Dispute Resolution. – In case of dispute over the application of certain provisions of this agreement, the parties shall exert best efforts to resolve the dispute among themselves within thirty (30) calendar days from when the dispute arose. If the dispute remains unresolved after this thirty (30) day period, either party may file a petition for dispute resolution with the Energy Regulatory Commission (ERC), who shall have original and exclusive jurisdiction over such dispute.

While these are pending with the ERC, the status quo of cases involving violation of contract shall be maintained. The maintenance of the status quo shall only be applicable to the subject matter of the case and will not extend to any other right/s and obligation/s between the parties.

IN WITNESS WHEREOF, the parties execute this Net-Metering Agreement this (date) at (place).

ABC Electric Company/Cooperative
(DU)

By:
President/General Manager

Juan Dela Cruz
Qualified End-User

Witnesses:

_____ _____

Acknowledgment

Republic of the Philippines)
) S.S.

BEFORE ME, this _____, the following persons appeared before me,

NAME	Identification Documents (TIN/Driver's License/SSS)	Date/Place of Issue

known to me to be same persons who personally appeared before me and acknowledged to me that the foregoing agreement is the result of the free act and deed and that of the corporation/cooperative which they represent.

Doc. No. _____;
Page No. _____;
Book No. _____;
Series of _____.

LOGO

Distribution Utility
DU
CY: 20__
As of ()

Annex A-3

Count	Qualified End-User			Processing Timline		Renewable Energy Facility			MONTHLY MONITORING (Billing Cycle)																								Remarks
									JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Name	Account Number	Address	Date Applied	Date of Successful Testing and Commissioning	Technology	Rated Capacity (kW)	Meter Serial Number	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	Exported Energy (kWh)	Blended Generation Rate (Php/kWh)	

Prepared by:

Reviewd by:

Approved by: