LUMA ENERGY SERVCO, LLC[1]

DATE
Mr./Mrs. _____
Address

Interconnection Distributed Generation System (GD)
Name of Owner or Project: _ ___
Location: __ __
Project Number: ___ _
Capacity Evaluated: _____ /kW DC _____ **/kW AC**
OGPe Number or Autonomous Municipality, if applicable: ___ _

Dear Sir/Madam,

The interconnection of the project's GD with the Puerto Rico Electric Power Authority's (Authority) power grid is accepted through the certification of a licensed and collegiate electrical engineer or licensed and collegiate electrical expert, under Law 17-2019, known as the Puerto Rico Public Energy Policy Act. The registration date is when the certification of the electrical installation with its respective annexes, including the test certification, is confirmed as correct. LUMA reserves the right to subsequently carry out the necessary studies and inspections to determine if the interconnection of this system affects the quality of the signal or the safety or reliability of the electrical network. If so, the customer and the representative company will be notified of the estimated cost of the improvement required in the electrical network so that their system can continue in operation interconnected in parallel.

The distributed generation system consists of:

Inverter(s):
Quantity: __X___, Make: ____X___, Model: ____X____, AC capacity: __X__ W
Quantity: __X___, Make: ____X____, Model: ___X____, AC capacity:__X_ W

Generator(s) and/or photovoltaic modules:
Quantity: __X___, Make: _____X__, Model: ___X_____, Capacity C:__X__ W
Quantity: _X____, Make: _____X__, Model: ____X_ _, Capacity C:__X__ W

Energy Storage System (Technology:_____X_____):

_____

1. LUMA Energy ServCo, LLC ("LUMA") in its capacity as agent of the Puerto Rico Electric Power Authority ("Authority") and in accordance with the terms of the Puerto Rico Electric Power Transmission and Distribution System Operation and Maintenance Agreement.

Make: ____X_____, Model: _____X_____, Total capacity: __X___ kWh (AC/DC)
Make: ____X_____, Model: _____X_____, Total capacity: __X___ kWh (AC/DC)

The inverter(s) will operate in parallel continuously with the distribution network of the Electric Power Authority (Authority).

We include information on applicability, requirements and general provisions about this system:

1. LUMA Existing Service___XXXX____: Feeder ___XXXX__, at a voltage of ___XXXX___ kV, with __XXXX_conductor(s) with gauge __XXXX__, connected to the transformer _____XXXX__ or bank with FID _____XXXX___ and capacity of __XXXX__ kVA.

2. The GD is located within the property or structure with active service, as indicated in the registration data. It shall only be interconnected simultaneously in parallel with the Authority's system.

3. For solar photovoltaic distributed generation systems that are installed on the roofs of existing structures and whose capacity is less than or equal to 1 MW, **no building or use permit from the Office of Permit Management (OGPe) is required**. Projects for systems that do not comply with this dispensation have to be filed in the OGPe before LUMA, since it is required to include the use permit approved by the OGPe.

4. In the event that additional studies are required to determine if the feeder exceeds its capacity, as well as any necessary improvement construction or changes to the distribution system, the customer or contractor shall be responsible for the payment of the studies and improvements. LUMA reserves the right to disconnect net metering and GD if this payment is not received.

   If you do not agree with this decision, you may appeal for review before the Puerto Rico Energy Bureau within thirty (30) days from the date of this document, in accordance with the provisions of Law 57-2014, as amended, and in the Regulations of Adjudicative Procedures, Notices of Non-compliance, Review of Tariffs and Investigations, approved by the Energy Commission, currently Energy Bureau.

5. LUMA shall not be responsible for the design of the illustrative diagram. **The receipt by LUMA will not relieve the designer of his responsibility**. Both the designer and the contractor shall be responsible for complying with the provisions of the National Electrical Code (NEC), *National Electrical Safety Code* (NESC), building codes, applicable laws, and applicable regulations of the Authority and other government agencies or entities.

6. To initiate the registration of the GD, the following documents were delivered electronically:

1. LUMA Energy ServCo, LLC ("LUMA") in its capacity as agent of the Puerto Rico Electric Power Authority ("Authority") and in accordance with the terms of the Puerto Rico Electric Power Transmission and Distribution System Operation and Maintenance Agreement.

a. Confirmation of Customer Orientation on the GD Interconnection Process.
b. Certification of the OGPe of each installed computer (not the system computer)
c. Information (manufacturer's manual) or *data sheet* of the batteries and associated equipment information, as applicable.
d. Illustrative diagram of the GD with location plan certified by a licensed and collegiate electrical engineer.
e. CIAPR stamp (EDE) for each document certified by an engineer.
f. Electrical Installation Certification with its two annexes (Annex A – GD Test Certification and Annex B – Evidence of compliance with regulatory adjustments)
g. Electrical Installation Certification for the base of the meter (in cases with *supply side* installation).
h. Certification of the installer from the State Office of Public Energy Policy or its successor, the Department of Economic Development and Commerce's Energy Public Policy Program.
i. Evidence of membership and licensing of all electrical engineers or surveyors working on the project.
j. Affidavit from the property owner attesting to the owner's authorization to install the system, if the GD is installed in a rented property.
k. Certification of Inspection of Works and Permit of Use, if the GD requires permission from the OGPe for an installation that is not on an existing roof.

7. Inverter with battery bank: If the design includes a bimodal inverter, capable of providing energy to the loads connected to or isolated from the Authority, as the case may be, the output of the inverter to the loads (AC OUT) shall not be allowed to be directly connected to the service input of the Authority for safety reasons. This would interfere with the inverter's anti-island protection functions and pose a risk to the safety and operation of other electrical equipment in the event of breakdowns or interruptions of electrical service by LUMA.

8. Manual switch: By order of the Energy Commission, now Energy Bureau, LUMA does not require the installation of an external manual switch for inverter-based GD systems with a capacity of up to 300 kW. However, according to the NEC, every GD installation is required to provide a disconnection medium on the AC voltage side of the inverter. If it is necessary to disconnect the GD in those facilities of 300 kW or less in which the client chooses not to install a manual switch, it will be done from the point of delivery of the electric power service, which would interrupt the electrical service provided by the Authority to the client.

9. The client signs the Interconnection and Net Metering Agreement at the time of filing the GD registration, which will be processed once it satisfactorily complies with the acceptance tests, the requirements established in the Regulations, as applicable, and any other requirement necessary for the interconnection of the project. In addition, the client signs the Agreement for the Exemption of Insurance Requirement. LUMA will subsequently sign both Agreements. The customer will be able to print the agreements signed by both parties that will be available on the portal.

1. LUMA Energy ServCo, LLC ("LUMA") in its capacity as agent of the Puerto Rico Electric Power Authority ("Authority") and in accordance with the terms of the Puerto Rico Electric Power Transmission and Distribution System Operation and Maintenance Agreement.

10. Inspection of the facilities: After coordination with the client, LUMA may make physical inspections of the GDs interconnected with its electrical network in order to verify that they were built as stipulated in the illustrative diagram and the installation certification previously delivered.

11. Changes or modifications to the design of the GD: The client must electronically notify and provide technical documentation of the equipment to the Distribution Engineering Department of the region where the GD is located. LUMA will evaluate the changes to the GD and determine the corresponding action. If the changes or modifications are to increase the AC generation capacity in the facilities or in the type of technology, the customer must process a new registration.

12. Maintenance tests: LUMA will not require periodic testing of GD systems based on inverters with capacity up to 25 kW, however, it is the responsibility of the customer to perform the tests recommended by the manufacturer or by the best practices of the electrical industry.

13. LUMA may disconnect the GD from its electrical distribution system in any event of emergency, unsafe operating conditions and in breach of the Agreement, as established in the Regulations.

14. The interconnection of the GD in parallel with the electrical distribution system of the Authority, **does not grant the customer the right to use this system for the distribution of energy to other customers of LUMA or other users**.

15. It will be the responsibility of the project owner to obtain and manage all permits or endorsements from regulatory agencies such as: Public Energy Policy Program (PPPE), Office of Permit Management (OGPe), Planning Board, governmental, federal and private agencies, required for the development of the project.

Cordially

Approved by LUMA Energy, Business Transformation Department
(Date)

1. LUMA Energy ServCo, LLC ("LUMA") in its capacity as agent of the Puerto Rico Electric Power Authority ("Authority") and in accordance with the terms of the Puerto Rico Electric Power Transmission and Distribution System Operation and Maintenance Agreement.