

**GOVERNMENT OF PUERTO RICO
PUERTO RICO PUBLIC SERVICE REGULATORY BOARD
PUERTO RICO ENERGY BUREAU**

NEPR

Received:

Oct 7, 2021

6:25 PM

IN RE:

PROCESS FOR THE ADOPTION OF
REGULATION FOR DISTRIBUTION
RESOURCE PLANNING

CASE NO.: NEPR-MI-2019-0011

**SUBJECT: Submission of Presentation for Compliance
Hearing.**

**MOTION SUBMITTING PRESENTATION FOR COMPLIANCE HEARING
TO THE PUERTO RICO ENERGY BUREAU:**

COMES NOW, LUMA ENERGY SERVCO, LLC (LUMA), through the undersigned legal counsel and respectfully state and request the following:

1. In a Resolution and Order of December 31, 2020 (“December 31st Resolution and Order”), this honorable Puerto Rico Energy Bureau (“Energy Bureau”) initiated procedures for LUMA and the Puerto Rico Electric Power Authority (“PREPA”) to complete three tasks. *See* Resolution and Order of December 31, 2020, pages 8-10. The first task assigned to PREPA was to create voltage level maps by May 31, 2021. The second task involved the creation of preliminary maps of interconnection capacity and was completed on September 30, 2021. Finally, the third task consists of updating and completing a power grid inventory. *See id.*
2. On October 1, 2021, LUMA filed an *Informative Motion on Compliance with Order on Interconnection Capacity Maps* (“October 1st Informative Motion”). LUMA informed that as of September 30, 2021, the interconnection capacity maps were made been available for use by registered users in the lumapr.com website. As Exhibit 1 to the October 1st Informative

Motion, LUMA submitted both in the English and Spanish languages, a guide for users accessing and navigating the interconnection capacity maps.

3. As set forth in the December 31st Resolution and Order, this Energy Bureau has held three compliance hearings in this proceeding. The latest compliance hearing was held on July 14, 2021.
4. A compliance hearing is set for October 12, 2021.
5. In accordance with that portion of the December 31st Resolution and Order that set a compliance hearing for October 12, 2021 and directed that copies of the presentation to be offered shall be filed at least three days prior to each hearing, LUMA hereby submits its presentation for the October 12th compliance hearing, entitled “*Plan for Distribution System Interconnection Capacity Map & Power System Inventory-Compliance Hearing*,” October 12, 2021. *See* Exhibit 1.

WHEREFORE, LUMA respectfully requests that the Energy Bureau **accept** and **consider** the Power Point™ presentation in pdf format that is submitted as Exhibit 1 to this Motion, **allow** LUMA to offer the same at the compliance hearing scheduled for October 12, 2021, and **deem** that LUMA timely filed the same for consideration by the Energy Bureau in preparation for the upcoming compliance hearing.

RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 7th day of October 2021.

I certify that I filed this motion using the electronic filing system of the Puerto Rico Energy Bureau. A copy of this filing will be sent to counsels for the Puerto Rico Electric Power Authority, jmarrero@diazvaz.law and kbolanos@diazvaz.law.



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Exhibit 1
Presentation for Compliance Hearing of October 12, 2021



Plan for Distribution System Interconnection Capacity Map & Power System Inventory – Compliance Hearing

NEPR-MI-2019-0011
October 12, 2021

Agenda

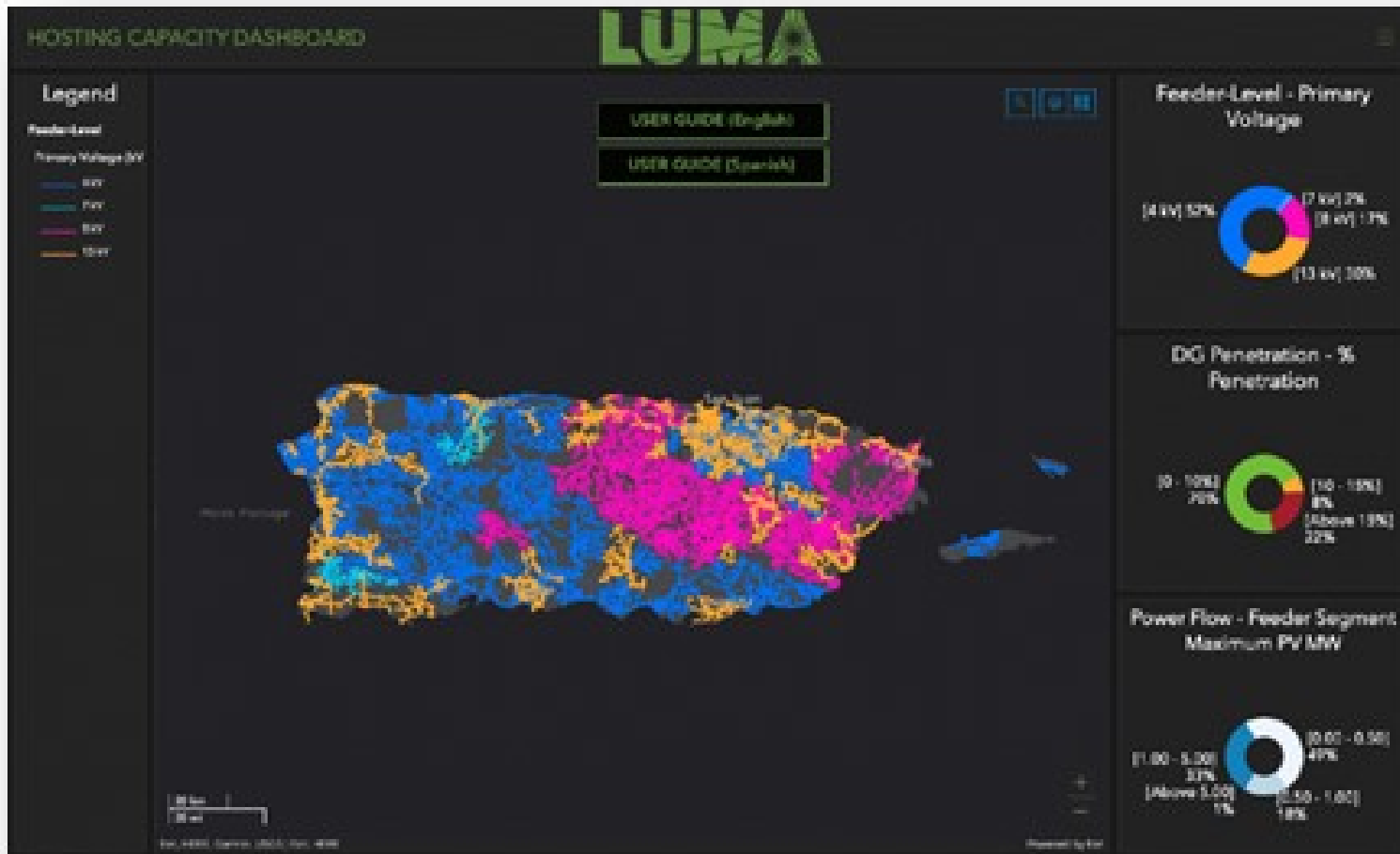
- Overall Status
- Status Updates by Order
 - Order 2: Preliminary maps of interconnection capacity
 - Order 3: Power grid inventory
- Pre-Engineering RFP Updates

Overall Status

- On track, no risk
- On track, some risk but manageable
- Delayed, high risk identified

Order	Overall Status	Risks	Next Steps
Order 1 – Voltage Level Maps	●	Complete	Update it in a quarterly basis.
Order 2 – Preliminary Maps of Interconnection Capacity	●	Complete (published on September 30)	Update it in a quarterly basis.
Order 3 – Power Grid Inventory	●	Information gaps have been discovered relating to DGs and backup generation. The team is exploring options to fill this gap	<ul style="list-style-type: none"> For items requiring multi-year data collection: proceed with inspections (substations) and procurement (line asset data). For DGs: Develop plan to solicit backup generation information for industrial and institutional customers.

Order 2 – Interconnection Capacity Map



Guía del usuario: Acceso a los mapas de capacidad de interconexión

LUMA

1. Navegación

Propósito: El mapa de capacidad de interconexión provee orientación a los desarrolladores y clientes para entender el impacto de conectar la generación distribuida al sistema. Este guía se utilizará para navegar por el panel de mapas de capacidad de interconexión.

1. Guía del usuario: este enlace puede ayudar a los usuarios a utilizar y navegar por la aplicación web "Hosting Capacity".

2. Búsqueda

3. Capas

4. Mapas base

5. Barra de escala: es una línea que contiene la altura en millas. La barra de escala está asociada con el mapa. Si la escala del mapa cambia, la barra de escala se actualiza para permanecer correcta.

6. Acercar / Alejar: permite al usuario acercar o alejar el mapa. Nota: el usuario puede usar su "mouse" para acercar o alejar mientras el puntero está en el marco del mapa.

2. Búsqueda de direcciones: el usuario puede utilizar direcciones de correo específicas y el mapa se acercará a esa área del mapa.

3. Capas: el usuario puede activar / desactivar las capas utilizando el menú de capas.

- Feeder-Level:** Circuitos de clase de voltaje simbolizados por nivel de voltaje.
- DG Penetration:** Circuitos simbolizados por porcentaje de penetración.
- Flujo de energía:** mínimo del segmento del alimentador (PV)

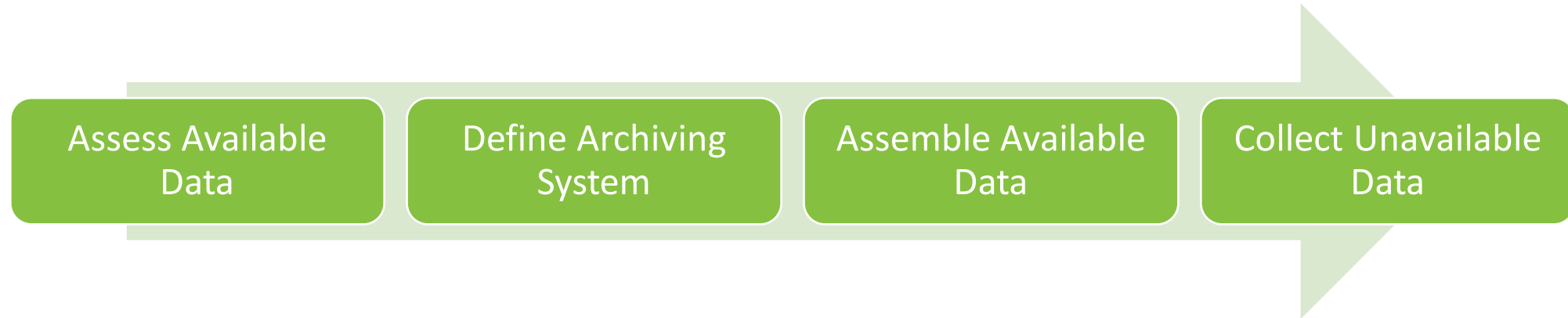
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Layers

- ☒ Feeder-Level
- ☒ DG Penetration
- ☒ Incremental Hosting Capacity

Order 3: Power Grid Inventory

As a reminder, Order 3 is 10 related sub-projects, each following this framework:



- **Assess available data:** Assess the availability of data in PREPA's existing systems.
- **Define archiving system:** Determine how the data should be stored to accomplish this order (e.g., a GIS field, a database, etc.). Create the necessary templates and frameworks.
- **Assemble available data:** For data available in existing systems, collect and input it into the selected storage method.
- **Collect unavailable data:** For data that is not available, create a plan to collect it. Where there are synergies, align with other existing data collection efforts.

Order 3: Power Grid Inventory

Highlights – Assess Data Availability / Define Archiving System

#	Data	Assess Data Avail.	Define Archiving	Assemble Avail. Data	Collect Unavail. Data	Next Steps (Assembling / Collecting Data)
a	Geographic position of circuits and service transformers	Complete	Complete	Not applicable	Aligned with field data project	Data to be collected during field verification initiative.
b	Availability of SCADA visibility	Complete	Complete	Complete	Not applicable	Availability data assembled.
c	Availability of data about load profiles	Complete	Complete	Complete	N/A	Availability data assembled.

Order 3: Power Grid Inventory

Highlights – Assess Data Availability / Define Archiving System

#	Data	Assess Data Avail.	Define Archiving	Assemble Avail. Data	Collect Unavail. Data	Next Steps (Assembling / Collecting Data)
d	Identification of DERs	Complete	Complete	In progress	In progress	DERs: Consolidating data sources and assessing missing data. Backup generation: Reach out to industrial and institutional customers to solicit backup generation information. Responses will be voluntary on the part of the customers.
e	Typical daily profile of DERs	Complete	Complete	Complete	Not applicable	PV profiles complete.
f	Xfmr state and remaining life	Complete	Complete	Not applicable	Aligned with field data project	Data to be collected during field verification initiative. Useful life calculations to follow.

Order 3: Power Grid Inventory

Highlights – Assess Data Availability / Define Archiving System

#	Data	Assess Data Avail.	Define Archiving	Assemble Avail. Data	Collect Unavail. Data	Next Steps (Assembling / Collecting Data)
g	Technical and non-technical losses	Complete	In progress	In progress	In progress	Technical: Rudimentary calculations complete. Non-technical: Rudimentary calculations in progress. Initiate customer yearly energy consumption consolidation per feeder to incorporate in the calculation model.
h	Physical and cyber vulnerabilities at substations	Complete	Complete	Not applicable	Aligned with field data project	Checklists created to be used during substation inspections. Physical assessments to be carried out 2021 – 2023, in progress. Cyber assessments to be carried out 2021 – 2025, beginning later this year.

Order 3: Power Grid Inventory

Highlights – Assess Data Availability / Define Archiving System

#	Data	Assess Data Avail.	Define Archiving	Assemble Avail. Data	Collect Unavail. Data	Next Steps (Assembling / Collecting Data)
i	Feeders with critical loads, priority loads, needing supplementary studies	Complete	Complete	Complete	Not applicable	Critical and priority loads complete. List of supplementary studies present and will be further updated as time goes by.
j	Location, state, joint use status of poles	Complete	Complete	Not applicable	Aligned with field data project	Data to be collected during field verification initiative.



Pre-Engineering RFP

Projected Timeline

MILESTONE / ACTIVITY	START DATE	END DATE
Procurement Process for New RFP Issuance (*)(**)	11 Jun 2021	9 Aug 2021
Bid Process Out to Public	10 Aug 2021	21 Oct 2021
Scope Addendum Posted (Office Validation)	20 Sep 2021	20 Sep 2021
Evaluation & Contractor Selection	28 Oct 2021	18 Nov 2021
Contract Negotiation	19 Nov 2021	6 Jan 2022
FOMB Approval	7 Jan 2022	11 Jan 2022
Contract Signing	12 Jan 2022	16 Jan 2022
Mobilization & Safety Training	17 Jan 2022	14 Feb 2022
Execution of Field Inventory and Health Assessment (*)	15 Feb 2022	31 Dec 2024
Data Entry (Collected Data)	15 Feb 2022	4 Feb 2025
Close Out	5 Feb 2025	18 Mar 2025

(*) Includes:

NEPR-MI-2019-0011: T&D System Field Inventory

NEPR-MI-2020-0019: T&D System Health Assessment

(**) Subject to PREPA Board ratification of LUMA's Consolidated FEMA Procurement manual





Thank you

