

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

IN RE: INTERCONNECTION REGULATIONS

CASE NO.: NEPR-MI-2019-0009

SUBJECT: June 18th Technical Conference /
Stakeholder Workshop Agenda

RESOLUTION

On April 4, 2024, the Solar and Energy Storage Association of Puerto Rico ("SESA") filed with the Energy Bureau of the Puerto Rico Public Service Regulatory Board ("Energy Bureau") a document referenced as *Urgent Request Regarding LUMA's Publication of a "Smart Inverter Setting Sheets- Technical"* in which it made aware that LUMA Energy ServCo, LLC and LUMA Energy, LLC (collectively "LUMA") had posted in its website Technical Bulletin 2024-0001 Smart Inverter Settings Sheet¹ that purported smart inverter requirements with an effective date of June 1, 2024.

On April 15, 2024, the Energy Bureau issued a Resolution and Order ("April 15 Order") scheduling a Technical Conference for May 16, 2024, at 10:00 a.m. to discuss supplementary interconnection study requirements and also smart inverter default utility required profiles as proposed by LUMA in its Technical Bulletin 2024-0001 Smart Inverter Settings Sheet.

On May 9, 2024, LUMA filed a document titled, *Urgent Motion to Reiterate Request to Reschedule the Technical Conference Set for May 16, 2024*, through which LUMA petitioned to reschedule the Technical Conference to June 11, 13, or 18, 2024 to facilitate participation of relevant personnel. This motion also postpones the effectiveness of Technical Bulletin 2024-0001 Smart Inverter Settings Sheet until July 1, 2024.

On May 13, 2024, the Energy Bureau issued an Order ("May 13 Order") that rescheduled the Technical Conference to June 18, 2024, at 10:00 a.m.

The Energy Bureau notes LUMA's willingness to use the grid support functionality found in IEEE STD 1547 compliant and UL-1741-SB certified smart inverters.² This is especially important when the uptake of these facilities in Puerto Rico is bound to substantially increase provided the federal grants³ available for the acquisition of this equipment. Incorporating smart inverter grid support functionality is an essential component of Integrated Distribution Planning ("IDP") that, if correctly leveraged, would benefit all grid users and result in the most cost-effective implementation of available grant funding.

However, specific provisions for smart inverter settings may modify the way DERs interact with the grid and warrants coordination with non-utility actors. The orderly activation of grid support functions will require equipment compliant with the IEEE STD 1547-2018 and UL-1741-SB certification. Requiring this equipment has an impact, therefore it is within public utility commissions jurisdiction to evaluate how and when this requirement is to be effectuated. Usually, state regulatory bodies provide a forum for stakeholders to evaluate proposed equipment specifications and then adopt requirements for when interconnecting

¹ Available at: <https://lumapr.com/wp-content/uploads/2024/04/Technical-Bulletin-2024-0001-Smart-Inverter-Settings.pdf> (last accessed June 6, 2024).

² NARUC Board of Directors adopted in 2020 a Resolution Recommending State Commissions Act to Adopt and Implement Distributed Energy Resource Standard IEEE 1547-2018, <https://pubs.naruc.org/pub/E86EF74B-155D-0A36-3138-B1A08D20E52B> (last accessed June 6, 2024).

³ US DOE, US EPA, US HUD



customers are to start using IEEE STD 1547-2018 compliant and UL-1741-SB certified inverters.⁴ Currently the Energy Bureau has not yet adopted such a requirement.

The Energy Bureau seeks to use the Technical Conference/Stakeholder Workshop, established via the May 13 Order, as an opportunity to discuss the best approach to adopt specific equipment requirements for inverter-based resources.

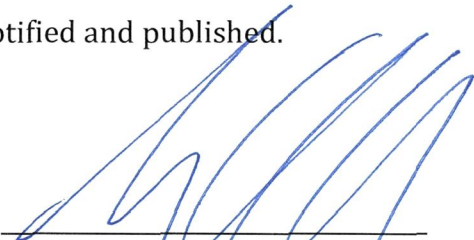
In addition to the topics identified in the April 15 Order, the Technical Conference/Stakeholder Workshop of June 18, 2024, will also be used to discuss how to best implement the grid support functionality of smart inverters and what equipment requirements are needed to orderly provide this capability to the electric grid.

The agenda for the Technical Conference/Stakeholder Workshop is included as Attachment A to this Resolution.

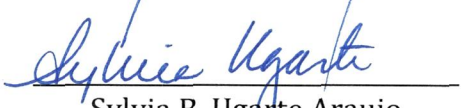
The Energy Bureau **WARNS** LUMA that:

- (i) noncompliance with this Resolution and Order, regulations and/or applicable laws may carry the imposition of fines and administrative sanctions of up to \$25,000 per day;
- (ii) any person who intentionally violates Act 57-2014, as amended, by omitting, disregarding, or refusing to obey, observe, and comply with any rule or decision of the Energy Bureau shall be punished by a fine of not less than five hundred dollars (\$500) nor over five thousand dollars (\$5,000) at the discretion of the Energy Bureau; and
- (iii) for any recurrence of non-compliance or violation, the established penalty shall increase to a fine of not less than ten thousand dollars (\$10,000) nor greater than twenty thousand dollars (\$20,000), at the discretion of the Energy Bureau.

Be it notified and published.



Edison Avilés Deliz
Chairman



Sylvia B. Ugarte Araujo
Associate Commissioner



Ferdinand A. Ramos Soegaard
Associate Commissioner



Antonio Torres Miranda
Associate Commissioner



⁴ As of January 1, 2024, in the State of Maryland, any small generator facility requiring an inverter for which an interconnection is submitted shall use a smart inverter that meets the requirements of IEEE Standard 1547-2018 and UL Standard 1741-SB, or subsequent revisions to these standards. In addition, all newly interconnected smart inverters are required to use Maryland’s state-wide standard settings profile, a utility specific default profile (DU-URP), or a utility site-specific (IA-URP) settings profile which are based on the hierarchy of Distributed Energy Resource Interconnection Requirements & Settings established by the Electric Power Research Institute (EPRI).

CERTIFICATION

I certify that the majority of the members of the Puerto Rico Energy Bureau agreed on June 12, 2024. Associate Commissioner Lillian Mateo Santos did not intervene. Also certify that on June 12, 2024, I have proceeded with the filing of this Resolution and Order and was notified by email to mvalle@gmlex.net; arivera@gmlex.net; Valeria.belvis@us.dlapiper.com; Laura.rozas@us.dlapiper.com; agustin.irizarry@upr.edu; javrua@sesapr.org; hriviera@jrsp.pr.gov; contratistas@jrsp.pr.gov; aconer.pr@gmail.com; John.jordan@nationalpfg.com.

I sign in San Juan, Puerto Rico, today, June 12, 2024.





Sonia Seda Gaztambide
Clerk

ATTACHMENT A

Technical Conference Stakeholder Workshop Agenda⁵ – June 18, 2024

Puerto Rico Energy Bureau (PREB) Hearing Room
World Plaza Building 8th Floor
268 Luis Muñoz Rivera Ave., San Juan, Puerto Rico 00918

Topic	Entity	Time
Increasing Hosting Capacity Study	Anny Huaman / Prof. Agustín Irizarry	10:05am
Interconnection Supplementary Studies <ul style="list-style-type: none">Reasonableness 15% triggerImpact of Smart Inverter Grid Support Functionality on Hosting Capacity	LUMA	10:30am
Lunch		12:30pm
Inverter Equipment Requirements <ul style="list-style-type: none">IEEE STD 1547-2018 complianceUL-1741-SB certification Impact on existing inventory <ul style="list-style-type: none">Soft phase-inNo grid support activation required	Facilitated Discussion Stakeholders	1:30pm
Smart Inverter Settings <ul style="list-style-type: none">Default Utility Required Settings Profile DU-URPUtility Site-Specific Settings Profile IA-URPState-wide Standard Settings ProfileIEEE STD 1547-2018 Categories A, B	Facilitated Discussion Stakeholders	2:45pm
Break		4:00pm
Other Issues raised by Stakeholders Stakeholder Next Steps	Facilitated Discussion Stakeholders	4:15pm
Adjourn		5:00pm



⁵ Technical Conference will take place in the Hearing Room of the Energy Bureau. An MS TEAMS link will be available to accommodate extraordinary circumstances preventing in-person participation.