

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



IN RE: REVIEW OF THE PUERTO RICO
ELECTRIC POWER AUTHORITY
INTEGRATED RESOURCE PLAN

CASE NO.: CEPR-AP-2018-0001

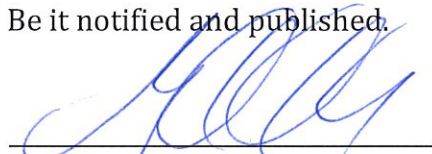
SUBJECT: Requirement of Information after
Technical Conference.

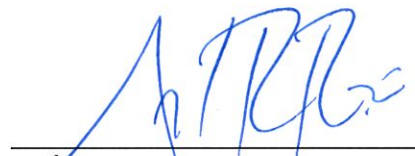
RESOLUTION AND ORDER

On August 14, 2018, the Puerto Rico Energy Bureau ("Energy Bureau") held a Technical Conference as part of the Integrated Resource Plan ("IRP") Prefiling Process. After the discussion held on the Technical Conference, the Energy Bureau determines that additional information is required in order to develop additional scenarios or topics that the Puerto Rico Electric Power Authority ("PREPA") shall be required to evaluate and include in the updated IRP.

As such, the Energy Bureau **ORDERS** PREPA to submit the information listed in Appendix A of this Resolution and Order, in accordance with the deadlines established therein.

Be it notified and published.




Edison Avilés Deliz
Chairman

Ángel R. Rivera de la Cruz
Associate Commissioner

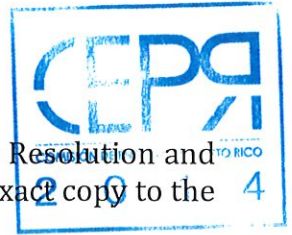
CERTIFICATION

I hereby certify that the majority of the members of the Puerto Rico Energy Bureau has so agreed on August 17, 2018. I also certify that on this date a copy of this Resolution and Order regarding the Case No. CEPR-AP-2018-0001 was notified by electronic mail to the following: n-vazquez@aepr.com, jorge.ruiz@prepa.com and astrid.rodriguez@prepa.com.



María del Mar Cintrón Alvarado
Clerk

I certify that today, August 17, 2018, I have proceeded with the filing of the Resolution and Order issued by the Puerto Rico Energy Bureau and I have sent a true and exact copy to the following:



Puerto Rico Electric Power Authority

Attn.: Astrid I. Rodríguez Cruz
Jorge R. Ruíz Pabón
Nitza D. Vázquez Rodríguez
PO Box 363928
San Juan, PR 00936-4267

For the record, I sign this in San Juan, Puerto Rico, today August 17, 2018.



María del Mar Cintrón Alvarado
Clerk

Appendix A

Information Requirements on PREPA's IRP Development



I. PREPA shall respond and file the following information with the Energy Bureau **on or before August 24, 2018.**

1. Please provide a summary of the comments received during the Stakeholder Meetings held by PREPA for the development of the IRP.
2. Please provide information regarding the critical loads determined by PREPA to be included within each potential electrical island or minigrid. The information should include, but not be limited to, peak capacity requirements for each critical load area, the expected duration requirements associated with the peak load, the location and substation from where the load is served.
3. Please provide information regarding the distributed generation determined by PREPA to be included within each potential electrical island or minigrid. The information should include, but not be limited to, the capacity of the installation and location by feeder.
4. Please provide the following transmission and subtransmission level detailed maps with high resolution:
 - a. A detailed map or maps of the Puerto Rico transmission and subtransmission grid, such as the ones shown on slides 33 and 40 of PREPA's August 14, 2018 Technical Conference presentation.
 - b. Additional detailed maps, such as those shown with information on the potential electrical islands to be considered in the analysis, such as shown on slides 35 and 36 of PREPA's August 14, 2018 Technical Conference presentation.
 - c. Provide on the maps required above the location and name of all transmission and major subtransmission stations; the location of critical loads, priority loads, reliable generation injection points, possible microgrid areas, and any additional data that informs said map.
5. Please also provide available underlying information used for the development of the maps in Question 4 above. This would include in tabular form the peak loads for each considered microgrid, and/or confirm that these data are the same as seen in slide 40 of PREPA's August 14, 2018 Technical Conference presentation. Please include the current transmission transfer capabilities that exist between the designated minigrid areas. Include any other quantitative information that would support an understanding of the technical parameters (e.g., but not limited to, peak load, existing local resource information, special circumstances) associated with each minigrid area.



6. Please provide a detailed explanation of the assumptions used to determine the technical and non-technical losses included in the load forecast. Please provide in Excel compatible electronic format with all formulae intact, all quantitative analysis used to generate the components of the net load forecast seen on slide 56 of PREPA's August 14, 2018 Technical Conference presentation, and include analogous quantitative information for the peak load in addition to the net energy for load.
7. Please provide a copy of the Potential Study, and any related documentation, on Energy Efficiency and Demand Response Programs developed by Siemens that serves as a basis for the determination of the assumptions to be modeled in the IRP. This includes information requested as part of Question 6 of the Commission's August 8, 2018 Resolution and Order in the instant proceeding (partially answered by PREPA on its August 13, 2018 Information Submission).
8. Please provide a summary of the maintenance requirements and schedule for the following generating units: Palo Seco 3 and 4, San Juan 7 and 8, and San Juan 9 and 10.
9. Please provide information on how the commencement of the construction of new resources is constrained or modeled in the development of the Action Plan for the IRP.

II. PREPA shall respond and file the following information with the Energy Bureau **on or before August 31, 2018.**

1. Please provide the document describing and explaining the ongoing "coordination" work as described in slide 37 of PREPA's August 14, 2018 Technical Conference presentation. Provide at least a sample of the maps being created as part of that process, preferably for heavier-loaded areas in the north in the San Juan region.