



GOVERNMENT OF PUERTO RICO

ENERGY BUREAU
PUBLIC SERVICE REGULATORY BOARD

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BY ELECTRONIC MAIL

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Ms. Anais Rodríguez Vega
Acting Secretary
Department of Natural and Environmental Resources (DNER)
San José Industrial Park
1375 Ponce de Leon Ave.
San Juan, PR 00926

Att: Eng. Amarilys Rosario Ortiz
Director -Air Quality Division
Department of Natural and Environmental Resources (DNER)

Re: *Update to Tables 5, 6 and 7 of the Energy Bureau's April 11, 2022 Filing.*

Dear Acting Secretary:

On April 11, 2022, the Energy Bureau of the Puerto Rico Public Service Regulatory Board ("Energy Bureau") submitted comments to the following documents issued by the Department of Natural and Environmental Resources ("DNER") (the "April 11 Filing").

- (a) *Puerto Rico Non-Attainment State Implementation Plan Sulfur Dioxide (SO₂) National Ambient Air Quality Standard*, published by the DNER on March 11, 2022.
- (b) *Regulation for the Control of Atmospheric Pollution Amendment (Rule 102, 210 and 425)*, published by the DNER on March 11, 2022.

The April 11 Filing included amongst others, the following tables:

Table 5 (*Updated Renewables Procurement Schedule*)

Table 6 (*Updated Expected Integration of Renewables*)

Table 7 (*Updated Retirements Authorized in the Approved IRP*)

At the request of the DNER, on May 27, 2022, the Energy Bureau provided updates to Tables 5, 6 and 7 (the "May 27 Filing"). On October 11, the DNER requested additional updates to the May 27 Filing, specifically regarding Tables 5, 6 and 7.

Enclosed you will find updates to Table 5 and Table 6. The information in Table 7 remains unaltered, however, it is also included herein to keep a complete schedule of the relevant Puerto Rico Electric Power Authority's ("PREPA") generation resources under evaluation by the DNER.

Tables 6 and 7 consider a modified schedule for the procurement and integration of renewable and battery storage resources integration (collectively referred to as the "Renewables Schedule"). As part of the ongoing Tranche 2 RFP, the Energy Bureau aggregated the renewable and storage resources quantities pertaining to the Tranche 2 and Tranche 3 RFPs. That is, 1,000 MW of renewable resources and 500 MW of battery storage resources. Besides, as part of the Renewables Schedule, the renewable and battery storage resources quantities pertaining to Tranche 4 RFP will be combined with the Tranche 5 RFP. Given the foregoing, the integration of renewable and battery storage resources is not expected to be significantly different from the one described in the May 27 Filing.

If you need any additional information, please feel free to contact the undersigned.

Cordially,

/s/ Antonio Torres Miranda

Antonio Torres Miranda
Legal Affairs Director

Enclosure

UPDATED TABLES 5, 6 & 7

The modified schedule of minimum quantities of renewables and battery storage additions is expected to be as follows:

Table 5
Updated Renewables Procurement Schedule

Procurement Tranche	RFP Target Release Date	Solar PV or equivalent other energy, MW	4-hr. Battery Storage equivalent, MW
2-3	September 2022	1,000	500
4-5	March 2023	1,000	500
6	September 2023	750	125

Based on the foregoing estimates, the integration of renewables and storage resources mandated by the Approved IRP is expected to be as follows:

Table 6
Updated Expected Integration of Renewables

Contract		Project Capacity	Generation Type	Expected COD ¹
1	Tranche #1-PPOA-1	25 MW AC	PV Solar	June 2024
2	Tranche #1-PPOA-2	20 MW AC	PV Solar	June 2024
3	Tranche #1-PPOA-3	100 MW AC	PV Solar	June 2024
4	Tranche #1-PPOA-4	29.975 MW AC	PV Solar	June 2024
5	Tranche #1-PPOA-5	20.70 MW AC	PV Solar	June 2024
6	Tranche #1-PPOA-6	33 MW AC	PV Solar	June 2024
7	Tranche #1-PPOA-7	25 MW AC	PV Solar	June 2024
8	Tranche #1-PPOA-8	35 MW AC	PV Solar	June 2024
9	Tranche #1-PPOA-9	25 MW AC	PV Solar	June 2024
10	Tranche #1-PPOA-10	80 MW AC	PV Solar	June 2024
11	Tranche #1-PPOA-11	120 MW AC	PV Solar	June 2024
12	Tranche #1-PPOA-12	100 MW AC	PV Solar	June 2024
13	Tranche #1-PPOA-13	60 MW AC	PV Solar	June 2024
14	Tranche #1-PPOA-14	38.7 MW AC	PV Solar	June 2024
15	Tranche #1-PPOA-15	60 MW AC	PV Solar	June 2024
16	Tranche #1-PPOA-16	25 MW AC	PV Solar	June 2024
17	Tranche #1-PPOA-17	32.1 MW AC	PV Solar	June 2024
18	Tranche #1-PPOA-18	20 MW AC	PV Solar	June 2024
19	Tranche #1-ESSA-19	100 MW (400 MWh or equivalent)	Energy Storage	June 2024

¹ Commercial Operational Date ("COD").

	Contract	Project Capacity	Generation Type	Expected COD¹
20	Tranche #1-ESSA-20	100 MW (400 MWh or equivalent)	Energy Storage	June 2024
21	Tranche #1-ESSA-21	20 MW (80 MWh or equivalent)	Energy Storage	June 2024
22	Tranche #1-ESSA-22	20 MW	Energy Storage	June 2024
23	Tranche #1-ESSA-23	100 MW	Energy Storage	June 2024
24	Tranche #1-ESSA-22	25 MW	Energy Storage	June 2024
25	Tranche #1-ESSA-22	50 MW	Energy Storage	June 2024
26	Tranche #1-ESSA-22	50 MW	Energy Storage	June 2024
27	Tranche #1-ESSA-22	25 MW	Energy Storage	June 2024
23	Tranche #1-GSA-23	17 MW	Grid Service	June 2024
24	Amended-PPOA-Ciro One Salinas, LLC	90 MW	PV Solar	December 2023
25	Amended PPOA Xzerta Tec Solar I, LLC	60 MW	PV Solar	December 2023
26	Amended PPOA Punta Lima Wind, LLC	26 MW	Wind	August 2024 ²
27	Tranche #2 and #3	1000 MW (Aggregate)	Renewable	June 2025
28	Tranche #2 and #3	500 MW (Aggregate)	Storage	June 2025
29	Tranche #4 and #5	1,000 MW (Aggregate)	Renewable	December 2025
30	Tranche #4 and #5	500 MW (Aggregate)	Storage	December 2025
33	Tranche #6	750 MW (Aggregate)	Renewable	June 2026
34	Tranche #6	125 MW (Aggregate)	Storage	June 2026
	TOTAL	5,282.45 MW		

² Assuming that the amendment PPOA is approved by the Title III Court by August 2022.

According with the preceding plan, in the Approved IRP the Energy Bureau authorized the retirement of the oil-fired steam resources, combine cycle turbines and peaking units for the period covered between 2021 and 2025, as follows:

Table 7
Updated Retirements Authorized in the Approved IRP

PREPA Facility	Generation Unit	Retirement Date
Palo Seco Steam	Boiler 1	Not considered as an available resource in the Approved IRP. Requires major repair. Retire by December 31 2022
Palo Seco Steam	Boiler 2	Not considered as an available resource in the Approved IRP. Requires major repair. Retire by December 31 2022
Palo Seco Steam	Boiler 3	Available but repairs required. Retire by December 31, 2024.
Palo Seco Steam	Boiler 4	Available but repairs required. Retire by December 31, 2025.
Palo Seco GT	Power Block 1-1, 1-2	Three new diesel Multi-Pack GTs in place at Palo Seco (81 MW total). Three of six older units available (Power blocks 1-1, 1-2, and 2-1), 63 MW total. Remaining (Power Blocks 2-2, 3-1,3-2) retire by June 2023.
Palo Seco GT	Power Block 2-1	
Palo Seco GT	Power Block 2-2	
Palo Seco GT	Power Block 3-1	
Palo Seco GT	Power Block 3-2	
San Juan Steam	Boiler 7	Unit limited availability/ requires repair. Retire December 2022.
San Juan Steam	Boiler 8	Unit limited availability/ requires repair. Retire December 2022.
San Juan Steam	Boiler 9	Not considered as an available resource in the IRP, limited functionality now. Retire by December 31, 2024.
San Juan Steam	Boiler 10	Not considered as an available resource in the Approved IRP. Requires major repair. Retire by December 31 2022
Aguirre Steam	AG1	Retire December 31, 2025.
Aguirre Steam	AG2	Retire December 31, 2026.
Aguirre CC	Gas Turbine CC1-1HRSG	Retire December 31, 2028
Aguirre CC	Gas Turbine CC1-2HRSG	Retire December 31, 2028

PREPA Facility	Generation Unit	Retirement Date
Aguirre CC	Gas Turbine CC1-3HRSG	Retire December 31, 2028
Aguirre CC	Gas Turbine CC1-4HRSG	Retire December 31, 2028
Aguirre CC	Gas Turbine CC2-1HRSG	Retire December 31, 2029
Aguirre CC	Gas Turbine CC2-2HRSG	Retire December 31, 2029
Aguirre CC	Gas Turbine CC2-3HRSG	Retire December 31, 2029
Aguirre CC	Gas Turbine CC2-4HRSG	Retire December 31, 2029

Data included in Table 7 is based on February 14, 2022, Generation Directorate of PREPA response to Request of Information #5, dated February 14, 2022, in Case No. NEPR-MI-2021-0002.

Note: Range of uncertainty as to availability and operational status of units. Retirement estimate based on capacity balance and planned.