

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

<b>NEPR</b>  <b>Received:</b>  <b>Apr 20, 2023</b>  <b>8:11 PM</b>
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**IN RE:** THE PERFORMANCE OF THE  
PUERTO RICO ELECTRIC POWER  
AUTHORITY

**CASE NO.:** NEPR-MI-2019-0007  
  
**SUBJECT:** Informative Motion in  
Compliance with the January 12 Order

**INFORMATIVE MOTION IN COMPLIANCE  
WITH THE JANUARY 12 ORDER**

COMES NOW, the Puerto Rico Electric Power Authority (PREPA), through the undersigned legal representation and respectfully submits and prays as follows:

1. On January 12, 2023, the Energy Bureau of the Public Service Regulatory Board (“Energy Bureau”) issued a *Resolution and Order* regarding underlying data for metrics filed by LUMA and PREPA (the “January 12 Order”). In the January 12 Order, the Energy Bureau analyzed PREPA and LUMA’s<sup>1</sup> reports and underlying data of particular performance metrics categorized by the Energy Bureau as underperforming.

2. Also, in the January 12 Order, the Energy Bureau directed PREPA and LUMA to comply with several directives. Among these was the directive for PREPA to provide, for the next quarterly filing due on April 20, 2023, the following information:

- a. Provide an update on the status of the collection and analysis of emissions data.
- b. Confirm whether the Mayaguez Gas and Aguirre Combined Cycle units returned to service in November and December 2022 as stated in Annex A and provide a summary of work undertaken at the Mayaguez Gas and Aguirre Combined Cycle plants.

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<sup>1</sup> LUMA Energy, LLC ("Management Co") and LUMA Energy ServCo, LLC (jointly, "LUMA").

- c. Provide updates on the maintenance issued and corrective measures identified in its Metric Report along with its Quarterly Performance Metrics Report going forward.
3. PREPA's responses to the requests to the above order are included in Annex A, attached herein.

**WHEREFORE**, PREPA respectfully requests that the Energy Bureau take notice of PREPA's compliance with the January 12 Order.

**RESPECTFULLY SUBMITTED.**

In San Juan, Puerto Rico, on this 20<sup>th</sup> day of April 2023.

*/s Joannely Marrero Cruz*  
Joannely Marrero-Cruz  
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TSPR No. 20,014

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## CERTIFICATE OF SERVICE

It is hereby certified that, on this same date, I have filed the above motion with the Clerk of the Energy Bureau using the Energy Bureau's Electronic Filing System at the following address: <http://radicacion.energia.pr.gov>. It is further certified that I have sent a copy to [margarita.mercado@us.dlapiper.com](mailto:margarita.mercado@us.dlapiper.com) and [ana.rodriquezrivera@us.dlapiper.com](mailto:ana.rodriquezrivera@us.dlapiper.com).

In San Juan, Puerto Rico, this 20<sup>th</sup> day of April 2023.

*/s Joannely Marrero Cruz*  
Joannely Marrero-Cruz

## **Annex A**

- a. PREB Request: Provide an update on the status of the collection and analysis of emissions data.

**PREPA's Response:**

The Puerto Rico Electric Power Authority ("PREPA") has provided LUMA, for the current quarterly filing, the requested Planning and Environmental Metric information through December 2022, and a portion of the requested information for Q1 2023. PREPA is in the process of collecting and processing some of the necessary data to prepare the remaining Planning and Environmental Metric information for Q1 2023 and expects to be able to provide that information by May 15, 2023. PREPA respectfully informs that the justification for the delayed reporting is in part due to the LUMA transition and related personnel changes which have unfortunately delayed the preparation of a number of reports, including the reporting of the Planning and Environmental Metric information. The remaining PREPA staff, now operating in new departments and capacities, have had to come up to speed on unfamiliar tasks and also request and receive access to servers, programs, and archive systems necessary to complete the reports. PREPA officials are diligently working to reduce the delay in delivering these metrics and the goal and commitment is to deliver these reports on a timely basis going forward.

- b. PREB Request: Confirm whether the Mayaguez Gas and Aguirre Combined Cycle units returned to service in November and December 2022 as stated in Annex A and provide a summary of work undertaken at the Mayaguez Gas and Aguirre Combined Cycle plants.

**PREPA's Response:**

In regard to the Mayaguez Gas plant, the Mayaguez 3B unit was put offline on May 25, 2022. Its return to service is expected for the first week of May 2023. Some of the problems and findings that damaged the unit included the following: High Breather

Pressure in bearings GG (“Gas Generator Turbine Section”); Hot section Distress on High Pressure Compressor Section of GG; pressure loss on bearings 4 and 5; excessive growth in the High-Pressure Compressor 9th stage disk; consistent cracking on the blade chevrons and loss of coating on first row of High-Pressure Turbine Section; 3rd stage outer air segments, honeycombs have been damaged and others with missing chunks. The unit was sent to the manufacturer to repair the above-mentioned findings and the repaired unit was received in Puerto Rico last week. Currently, PREPA technical and operations personnel are awaiting an available funds certificate to contract the installation and commissioning of the unit, as such PREPA restates it expects the unit to be available for service during the first or at the latest the second week of May 2023.

In regard to the Aguirre Combined Cycle plant, in November 2022 no units were available, currently three out of the ten units are available for dispatch, subject to LUMA as the system operator deciding they need to put them in service for high demand or loss of baseload, since these units are serving as peaking load. PREPA herein includes a detailed report of the findings and works performed in the Aguirre combined cycle units. See, Annex A-1.

- c. PREB Request: Provide updates on the maintenance issues and corrective measures identified in its Metric Report along with its Quarterly Performance Metrics Report going forward.

**PREPA’s Response:**

PREPA strives to have a preemptive maintenance program to improve the overall generation reliability. As the Energy Bureau is aware, PREPA has an inherent responsibility of maintaining the integrity of its generation assets, which has a direct effect

in the safety, reliability and performance of the electrical service, and this is done by complying with the repair and maintenance schedule of these systems, in a coordinated manner and not having to make changes in a reactive way. Especially, given the condition of PREPA's aged legacy generation and water facilities, additional funds allocation for Generation Necessary Maintenance Expenses ("NME"), has been requested and explained in detail to the Energy Bureau in docket NEPR-MI-2021-0004. See, Annex A-2, PREPA Repairs Program 2023-2024 Generating Unit Status.

*In Re: The Performance of the Puerto Rico Electric Power Authority*  
Case No.: NEPR-MI-2019-0007  
PREPA – Informative Motion in compliance with the January 12 Order

Annex A-1





## GOBIERNO DE PUERTO RICO

Autoridad de Energía Eléctrica de Puerto Rico

INFORME ESTADO DE UNIDADES  
CENTRAL CICLO COMBINADO DE AGUIRRE  
Fecha: 17 de abril de 2023

### **STAG 1**

- 1) Unidad 1-1: Unidad disponible a partir de marzo 2023. A esta unidad se le llevó a cabo una inspección del paso de gases calientes según las recomendaciones del fabricante y se le reemplazó el rotor de turbina.
- 2) Unidad 1-2: Unidad no disponible. Unidad en proceso de instalar el rotor del generador de resguardo ante avería del mismo en operación. Además se le realizó una inspección de combustores. Unidad trabajada por contratista y debe quedar disponible en abril de 2023.
- 3) Unidad 1-3: Unidad no disponible. Esta unidad se encuentra en Inspección Mayor (MI) según recomendado por el fabricante. Ante la falta de propuestas para realizar coating del estator del compresor en sitio se está generando contratos para adquirir las etapas 1 a la 4 del estator del compresor y para el ensamblaje de la misma.
- 4) Unidad 1-4: Unidad no disponible. Esto, debido a avería en el rotor del generador. No se cuenta con un rotor del generador disponible para la unidad se tiene que identificar fondos y generar un contrato para reparar el mismo.
- 5) Unidad V-1: Unidad no disponible. Unidad se encontraba disponible operacional, se movilizó el contratista Alonso y Carus para el remplazo del tanque de condensado que se encontraba en un alto grado de deterioro. Este proyecto es financiado por fondos de FEMA.

### **STAG 2**

- 1) Main Power Transformer (MPT) 2-1/2-2
  - a) Las unidades 2-1 y 2-2 se encuentran no disponibles. Esto debido a avería en el MPT 2-1/2-2. Se instaló el transformador de resguardo el cual tuvo una falla después de ser energizado. Se corrigieron deficiencias entre contratistas y Luma. A abril de 2023 se coordina con Luma el mantenimiento al aceite para llenado del mismo y continuar pruebas para entregar unidades disponibles.
- 2) Unidad 2-3: Unidad disponible a partir de febrero 2023.
- 3) Unidad 2-4: Unidad disponible a partir de febrero 2023.
- 4) Unidad V-2: Unidad no disponible. Unidad depende del MPT 2-1, 2-2 debido a que a través de este transformador se alimentan los equipos auxiliares de la unidad.



*In Re: The Performance of the Puerto Rico Electric Power Authority*  
Case No.: NEPR-MI-2019-0007  
PREPA – Informative Motion in compliance with the January 12 Order

Annex A-2





Puerto Rico Electric Power Authority

Generation Directorate

Current Status of PREPA Generation Fleet

REV: February 27, 2023

Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments		
<b>PREPA's Base Generation</b>														
San Juan	CT 5	160	150	Available	June 30 2022		Eng. Victor Ortiz Plant Manager	\$45.00	\$38.00	\$45.00		Minor Outage from dec 7 to dec 21 2022. Unit affected by Huracane Fiona. Major overhaul beginning January 15, 2022 until jun 30 2022; Approximate cost \$45 millions including LTSA (Long Term Services Agreement).		
	STM 5	60		Not Available	June 30 2022								Forced Outage . Unit online expedted 5 march 2023. Unit affected by Huracane Fiona.Forecast February 2023.Major overhaul beginning January 15, 2022 until june 30 2022. Verifying delivery of steam turbine parts is a critical path.	
	CT 6	160	150	Available					\$33.00			\$33.00	Combustion inspection for december 1 to december 31 2022. Unit online January 9 2023. Problems with turbine control valves in steam units cause a limitatiion on combustion units. Unit Major overhaul; Proposed date: February 2024; Approximate cost \$33 millions.	
	STM 6	60	50	Available	Sep-13	Jun-10								Unit on line january 9 2023. Generator Rotor Inspection October 27, 2021; Generator Instrumentation Problems (field ground). Unit online January 30, 2022. Unit off line on april 30 2022 ,problems with turbine control valves. Forecast January 2023. Major overhaul Proposed date: February 2024.
	7	100	0	Not Available	Aug-08	Aug-08			\$18.00				\$18.00	Forced Outage ; Transformer problem. Short Outage from dec 7 to dec 21 2022. Boiler failure on jan 2023; Unit on line january 25 2023; Valve inspection and repair finish january 5 2022; Turbine rotors have expired hours for major repair (over 70K hours). Approximate repair cost \$5 millions. Boilers Repairs (\$10 millions) needed. Major inspection date to be determined. Unit in limited use (8%) according to EPA MATS (Mercury and Air Toxic Standards). Total Outage cost aproximate \$18 millions.
	8	100	0	Not available	Nov-10	Nov-10			\$18.00					Boiler pipe breakage problems, steam leaks and feedwater heater #6 problems. Limited use unit (8%) according to EPA (MATS). Boiler air leaks. Approximate cost of boiler repairs and auxiliary equipment, \$18 millions including new boiler piping.
	9	100	0	Not Available	Nov-19	Aug-12			\$2.00					Enviromental outage from february 19 to april 1 2023. Unit affected by Hurace Fiona. Limitation cause for problems BFP; repair finish july 25 2022. Unit have problem with excitation system on december 30 2021; Luma working from january 2 to january 3 2022. Unit Star up january 4 2022. Programmed outage finished: 7 days (October 28 - November 3, 2021); coolers replacement, BFP 9-1 and 9-2 inspection, condenser cleaner, etc. DEMI (Demineralized) water production problems. Temporary water production plant of the Central (RO) faces operational problems. In the process of completing the installation of a new permanent DEMI plant.
	10	100	0	Not available	Sep-09	Sep-09		\$17.00		\$17.00		Low pressure turbine fault. Unit not available since the end of 2015. Returning the unit to service entails an approximate investment of \$17 millions and an estimated duration of the works, 6 months. Forecast Unit Online June 30 2023. Epa requirement re-activation policy.		
Palo Seco	1	85	0	Not available	Apr-08	Apr-08	Eng. Antonio Kalil Plant Manager	\$10.00			\$10.00	Limited use unit EPA (MATS). Boiler air leaks, requires replacement of boiler piping. Generator has major stator failure and requires turbine work.		
	2	85	0	Not available				\$15.00				\$15.00	Limited used unit EPA (MATS). Faulty unit generator; the unit's Main Power Transformer is used as an output transformer for new MPA FT-8.	
	3	216	200	Available	Nov-09	Nov-09		\$9.00				\$9.00	Several Forced Outage between October 31 - December 16, 2021; Economizer (boiler) tubes failure, condenser tubes failure, front standard problems. Forecast Unit return online for December 17, 2021. It is required to purchase boiler tube and economizer panels for approximately \$5 millions and repair auxiliary equipments, for march 2023-may 2023	
	4	216	200	Available	May-09	Jun-19		\$3.00	\$3.00	\$3.00			Forced Outage beginning september 3 to december 2022 . Problems with DC Pump; turbine bearing inspection. Environmental outage beginning january 23 2022 until march 21 2022; Work will be carried out on the boiler and replacement of the air pre-heater baskets. Unit online BFP 4-1 repair finished December 12. Forced outage on september due to oil leak through control wiring and high pressure differential on the air preheaters. Unit return to service on Sunday, October 10, 2021. Work will be carried out on the boiler and replacement of the air pre-heater baskets.	
Aguirre Steam Plant	1	450	0	Not Available	Feb-12	Dec-08	Eng. Alexis Cruz Plant Manager	\$20.70	\$16.00	\$19.00	\$1.70	Forced outage : Do a reinspection in generator area. Forecast april 2023. Major repair beginning on March 16 2022 until july 30 2022. Major works, environmental outages, boiler tubes replacement and turbine rotors replacement for an approximate \$19 millions.		
	2	450	0	Not Available	Mar-10	Dec-19		\$2.35				\$2.35	Unit on environmental outage from january 162023 to march 1 2023. Unit affected by Huracane Fiona. Unit on line by october 13 2022. Last inspection beginning march 2 until march 11 2022. Repair airheater seals and boilers air infiltration. This action eliminated at least 50 mw limitation. Beginnig the procurement process to repair the Excitation System next fiscal year.	
Costa Sur	5	410	190	Available	Jul-13	Jul-13	Eng. Miguel Beauchamp Plant Manager	\$21.80	\$2.80	\$2.80	\$19.00	Unit limited to 222 mw for BFP problems until april 2023.. Forced Outage between may 12 to may 24 2022 to replace the generator hydrogen seals. Forced Outage November 30 - December 5, 2021. BFP 5-1 and BFP 5-2 motors failure. Main steam piping failure on September 13, 2021. Unit return service on Wednesday, October 6, 2021. Major outage ( boiler, environmental maintenance and replacement of turbine rotors) scheduled for January 2023. Approximate cost \$19 millions.		
	6	410	410	Aavailable	Sep-12	Feb-21		\$6.70	\$3.00	\$5.00	\$1.70	Unit off line for boiler backpass cleaning until nov 4. Unit online january 5 2022. Last summer Low pressure turbine failure (LP turbine failure) after major unit repair including these rotors for \$20 millions. Rotors were shipped to the US workshop by ship during the week of September 20-27. Findings report and repairs begginig october and finished on December 2, 2021. Rotor shipped to Puerto Rico on December 6, 2021. Unit on test December 30 2021; Turbine balance works from januart 1 to january 7 , 2022 an approximate cost of replacement of damaged parts of \$5 millions.		
<b>Total PREPA Base Generation</b>		<b>3162</b>	<b>1350</b>	<b>42.69%</b>				<b>\$221.55</b>	<b>\$62.80</b>	<b>\$91.80</b>	<b>\$129.75</b>	<b>Available</b>		



Puerto Rico Electric Power Authority

Generation Directorate

Current Status of PREPA Generation Fleet

REV: February 27, 2023

Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments	
<b>PREPA's Reserve Generation Fleet</b>													
Aguirre Combined Cycle	I-1	50	0	Not Available			Eng. Alexis Cruz Plant Manager	\$1.00	\$1.00	\$1.00		Major inspection 11 July to 10 January 2023, Repair and inspect collector rings. Unit on March 9 2022, Hot gas path inspection \$1.7 millions. April 2022	
	I-2	50	0	Not Available SC				\$1.00	\$1.00	\$1.00			Unit affected by Hurricane Fiona. Inlet filters clogged. Hot gas path inspection scheduled for June 2022. Unit off line from Dec 2022; Make inspection in the unit to return to service
	I-3	50	0	Not Available				\$2.50	\$1.00	\$2.50			Major inspection scheduled for 2/14/22 until 01/29/2023. Repair cost \$2.5 millions
	I-4	50	0	Not Available				\$2.00			\$2.00		Unit affected by Hurricane Fiona. Inspect generator rotor. PT Repair; Minor outage October 20 - return unit online for November 5 2021. Generator failure on Dec 2022. Inspect generator rotor.
	ST-1	96	0	Not Available				\$2.00	\$1.00	\$1.00	\$1.00		Unit affected by Hurricane Fiona. Unit off line October 19 2021 ; water line repair to cooling tower; condenser fouling and air in leakages. Unit on line May 2022.
	II-1	50	0	Not available				\$2.00			\$2.00		MPT 2-1, 2-2 failure; in process to replacement until January 2023
	II-2	50	0	Not available				\$2.00			\$2.00		MPT 2-2 failure; in process to replacement until December 2023; Major inspection
	II-3	50	50	Available				\$1.00			\$1.00		Unit online. PT failure; Unit off line since Dec 2022. Unit affected by Hurricane Fiona. Repair coolers fan
	II-4	50	50	Available				\$1.70			\$1.70		Unit online. PT failure; Unit off line since Dec 2022. Unit affected by Hurricane Fiona. Stand by Transformer fail. Hot gas path inspection and spare rotor \$1.7 millions.
ST-2	96	0	Not available			\$2.00			\$2.00		Steam Tube Failure and generator rings problems		
<b>Total Aguirre CC</b>		<b>592</b>	<b>100</b>	<b>16.89%</b>				<b>\$17.20</b>	<b>\$4.00</b>	<b>\$5.50</b>	<b>\$11.70</b>	<b>Availability</b>	
DAGUAO	1-1	21	20	Available			Eng. Jaime Umpierre Hidro Gas Head Division	\$2.00	\$1.00	\$2.00		Unit affected by Hurricane Fiona. Major Outage Repair planned April 2022	
	1-2	21	19	Available				\$2.00	\$1.00	\$2.00			Unit affected by Hurricane Fiona. Generator Ground Inspection from Dec 20 2021; Major Outage Repair for 2022
AGUIRRE	2-1	21	0	Not available				\$4.00			\$4.00		Unit requires major turbine repair and a complete generator assembly.
	2-2	21	0	Not Available				\$2.00	\$1.00	\$2.00			Major Outage Repair
PALO SECO	1-1	21	20	Available				\$2.00	\$1.00	\$2.00			Major Outage Repair 2022
	1-2	21	0	Not available				\$2.30			\$2.30		Major Outage Repair and Generator breaker replacement
	2-1	21	18	Available				\$2.00	\$1.00	\$2.00			Major Outage Repair 2022
	MPA 1	28	28	Available				\$0.10	\$0.10	\$0.10			Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve emission testing. Emission test between July-August 2022.
	MPA 2	28	28	Available				\$0.10	\$0.10	\$0.10			Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve emission testing. Emission test between July-August 2022
	MPA 3	28	28	Available				\$0.10	\$0.10	\$0.10			Environmental air permit. Contract awarded to perform environmental acceptance tests. EPA approve emission testing. Emission test between July-August 2022
COSTA SUR	1-1	21	0	Not available				\$2.00	\$2.00	\$2.00			Unit reached full speed not load with excitation. Phasing tests schedule for July 2022. Major Outage Repair
	1-2	21	0	Not available				\$4.00			\$4.00		Turbocompressor replacement. Major Outage Repair
JOBOS	1-1	21	20	Available				\$2.00	\$1.00	\$2.00			Unit affected by Hurricane Fiona. Major Outage Repair 2022
	1-2	21	16	Available				\$2.00	\$1.00	\$2.00			Unit affected by Hurricane Fiona. Due for major inspection (August 2020) and speed reduction gearbox replacement.
YABUCOA	1-1	21	0	Not available				\$2.00	\$1.00	\$2.00			Unit affected by Hurricane Fiona. Alignment process.
	1-2	21	0	Not Available				\$2.00	\$1.00	\$2.00			Unit affected by Hurricane Fiona. Alignment process finish ;
VEGA BAJA	1-1	21	0	Not available				\$2.10	\$0.00	\$2.10			Voltage regulator repair unit expected in service on April 2022
	1-2	21	0	Not available				\$4.00			\$4.00		Turbocompressor major failure.
<b>Total 18 Peaking Units</b>		<b>399</b>	<b>197</b>	<b>49.37%</b>					<b>\$36.70</b>	<b>\$11.30</b>	<b>\$22.40</b>	<b>\$14.30</b>	<b>Availability</b>
MAYAGÜEZ	1A	27.5	27.5	Available				Eng. Jaime Umpierre Hidro Gas Head Division Eng. Waldo Córdoba Plant Manager	\$18.00	\$8.00	\$18.00		Unit on line ; August 15 ; Voltaje Regulator Control failed ; replacement on September 2022. Unit Repair Cost estimate \$18 millions for both units 1A and 1B. Major outage finished on May 22 2022 (ahead
	1B	27.5	27.5	Available									Turbine Failure; Do a assessment to repair the unit; forecast finish September 14 2022
	2A	27.5	27.5	Available									
	2B	27.5	27.5	Available									
	3A	27.5	27.5	Available									
	3B	27.5	0	Not Available									Problem with Gear box
	4A	27.5	27.5	Available			\$0.80		\$0.80	\$0.80			
4B	27.5	27.5	Available										
<b>Total Mayagüez</b>		<b>220</b>	<b>192.5</b>	<b>87.50%</b>				<b>\$18.80</b>	<b>\$8.80</b>	<b>\$18.80</b>	<b>\$0.00</b>		
CAMBALACHE	1	82.5	0	Not available			Eng. Carmen Quintana Plant Manager	\$20.00	\$0.00	\$18.00	\$2.00	Unit out of service since 2011; Combustion turbine failure; Proposal \$18 millions and six months.	
	2	82.5	0	Not Available				\$8.90	\$4.00	\$6.90	\$2.00	Combustion Inspection from 19 Feb to March 5; Outage beginning April 19 2022 until Jun 15 2022; New Automatic Voltaje Regulator; Control System and Maintenance Services HTS.	
	3	82.5	82	Available				\$8.90	\$4.00	\$6.90	\$2.00	Outage LTSA with GE ; Unit until August 14 2022 New Automatic Voltaje Regulator; Control System and Maintenance Services HTS	
<b>Total Cambalache</b>		<b>247.5</b>	<b>82</b>	<b>33.13%</b>				<b>\$37.80</b>	<b>\$8.00</b>	<b>\$31.80</b>	<b>\$6.00</b>		
VIEQUES	1	3	3	Available			Eng. Jaime Umpierre Hidro Gas Head Division						
	2	3	0	Not Available									Troubleshooting control system issues.
Culebra	1	2	2	Available									
	2	2	2	Available									
	3	2	0	Not Available									
<b>Total Vieques and Culebra</b>		<b>12</b>	<b>7</b>	<b>58.33%</b>									
<b>Total Peaking &amp; Emergency Units</b>		<b>1,470.5</b>	<b>578.5</b>	<b>39.34%</b>				<b>\$110.50</b>	<b>\$32.10</b>	<b>\$78.50</b>	<b>\$32.00</b>	<b>Availability</b>	



Generation Directorate

Current Status of PREPA Generation Fleet

REV: February 27, 2023

Power Station	Unit	Capacity (MW)	Available Capacity	Condition	Date of last major maintenance	Date of last major maintenance	Person in charge of attending	NME (Million)	FY 2021-22 Available Budget	FY22	FY23	Currents Status / Action Plan / Comments	
<b>HYDROELECTRICS</b>													
Toro Negro	1-1	1.5	1.5	Available			Eng. Jaime Umpierre Hidro Gas Head Division						
Toro Negro	1-2	1.5	1.5	Available									
Toro Negro	1-3	1.5	1.5	Available									
Toro Negro	1-4	4	0	Not available									
Toro Negro	2	2	0	Not available									Turbine inlet main valve replacement. Phasing test pending.
Yauco	1	25	0	Not available				\$8.00	\$2.00	\$4.00	\$4.00		Pending turbine and generator major overhaul. Federal restoration funding allocation for \$8 millions.
Yauco	2-1	4.5	0	Not Available									Unit out of Service December 31 2021 General Inspection ; Limited pending relay protection system modifications.
Yauco	2-2	4.5	4	Available									
Garzas	1-1	3.6	3.6	Available									
Garzas	1-2	3.6	1	Aavailable									Generator bearing repair. Expected in-service on October 2021.
Garzas	2	5	0	Not available									Transmission line failure due to Hurricane María. Federal restoration funding approved.
Caonillas	1-1	9	0	Not available				\$5.00		\$1.00	\$4.00		Station flooding failure due to Hurricane María. In preparation of specifications and bid process documents. Federal restoration funding allocation for \$5 millions.
Caonillas	1-2	9	0	Not available									
Caonillas	2	3.6	0	Not available									Pending major restoration budget approvals.
Dos Bocas	1	5	0	Not Available									Restored generator in coordination for transportation to site.
Dos Bocas	2	5	0	Not Available									
Dos Bocas	3	5	5	Available									
Patillas	1-1	0.8	0	Not available									Downstream flow risk concerns.
Patillas	1-2	0.6	0	Not available									Downstream flow risk concerns.
Río Blanco	1	2.5	0	Not available									Penstock major failure. Federal restoration funding approved.
Río Blanco	2	2.5	0	Not available								Penstock major failure. Federal restoration funding approved.	
<b>Total Hydro</b>		<b>99.7</b>	<b>18.1</b>	<b>18.15%</b>			<b>\$13.00</b>	<b>\$2.00</b>	<b>\$5.00</b>	<b>\$8.00</b>			
<b>Total NME (Necessary Maintenance Expenses)</b>								<b>\$345.05</b>	<b>\$96.90</b>	<b>\$175.30</b>	<b>\$169.75</b>		