NEPR

Received:

Jan 22, 2024

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

IN RE:

**CASE NO.:** NEPR-MI-2021-0004

REVIEW OF LUMA'S INITIAL BUDGET

**SUBJECT:** Motion to Submit Reports on Grid Modernization and Emergency Work-Related Federal Funding in Compliance with Resolution and Order dated June 25, 2023

MOTION TO SUBMIT REPORTS ON GRID MODERNIZATION AND EMERGENCY WORK-RELATED FEDERAL FUNDING IN COMPLIANCE WITH RESOLUTION AND ORDER DATED JUNE 25, 2023

#### TO THE HONORABLE PUERTO RICO ENERGY BUREAU:

**COMES NOW GENERA PR LLC** ("Genera"), as agent of the Puerto Rico Electric Power Authority ("PREPA"), through its counsel of record, and respectfully state and request the following:

1. On June 25, 2023, the Energy Bureau issued a Resolution and Order titled Determination on the FY24 Annual Budgets for the Electric Utility System – LUMA, Genera, and PREPA ("June 25<sup>th</sup> Order"), through which it (1) modified the Proposed Consolidated FY2024 Budget; (2) approved the modified budgets subject to compliance with various orders included in the June 25<sup>th</sup> Order; and (3) included a series of determinations and orders addressed to Genera regarding the GenCo Budget. <sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Pursuant to the *Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement* ("LGA OMA"), dated January 24, 2023, executed by and among PREPA, Genera, and the Puerto Rico Public-Private Partnerships Authority, Genera is the sole operator and administrator of the Legacy Generation Assets (as defined in the LGA OMA) and the sole entity authorized to represent PREPA before the Energy Bureau with respect to any matter related to the performance of any of the O&M Services provided by Genera under the LGA OMA.

<sup>&</sup>lt;sup>2</sup> See June 25<sup>th</sup> Order, pp. 16 - 21.

- 2. Pertinent to this Motion, the June 25<sup>th</sup> Order included reporting requirements outlined in its Attachment I, comprising but not limited to:
  - a. implementation of Grid Modernization Plan Report; and
  - b. permanent and Emergency Work-Related Federal Funding Report & Infrastructure Plan Updates.
- 3. On September 1, 2023, Genera filed a document titled *Motion to Submit Monthly Maintenance Report for August 2023, in Compliance with Resolution and Order dated June 25, 2023* ("September 1st Motion"). Relevant to the present matter, Genera requested modifications to the filing schedule for the aforementioned reports:
  - a. the Implementation of Grid Modernization Plan within twenty (20) days following the conclusion of each bi-monthly reporting period; and
  - b. the submission of the Permanent and Emergency Work-Related Federal Funding Report & Infrastructure Plan Updates within twenty (20) days after the end of the monthly reporting period.
- 4. In compliance with the June 25<sup>th</sup> Order and in accordance with the September 1<sup>st</sup> Motion, Genera hereby submits a series of detailed reports. These reports, listed below as exhibits, provide comprehensive information and updates for the period from July 1<sup>st</sup> to December 31<sup>st</sup>, 2023. They encompass the major investment categories and projects that Genera is implementing to ensure reliable and resilient power delivery. The information provided meets the reporting requirements of the June 25<sup>th</sup> Order, which includes (a) the implementation of the Grid Modernization, and (b) the Permanent and Emergency Work-Related Federal Funding and Infrastructure Report.
  - 5. The attached exhibits are the following:

- i. Exhibit A, Genera Grid Modernization Highlights 28DEC2023;
- ii. Exhibit B, Genera Project Master-Tracker 31DEC2023;
- iii. Exhibit C, Genera Project Cash Flow 31DEC2023;
- iv. Exhibit D, Genera Milestone Overview 31DEC2023;
- v. Exhibit E, Genera Critical Tasks 31DEC2023; and
- vi. Exhibit F, Genera Project Overview 31DEC2023.

WHEREFORE, Genera respectfully requests that this Energy Bureau take notice of the above for all purposes and deem that Genera has partially complied with the June 25<sup>th</sup> Order concerning the reports specified in Attachment I of the June 25<sup>th</sup> Order.

#### RESPECTFULLY SUBMITTED.

In San Juan, Puerto Rico, this 22<sup>nd</sup> day of January 2024.

#### **ECIJA SBGB**

PO Box 363068 San Juan, Puerto Rico 00920 Tel. (787) 300.3200 Fax (787) 300.3208

/s/ Jorge Fernández-Reboredo Jorge Fernández-Reboredo jfr@sbgblaw.com TSPR 9,669

/s/ Alejandro López-Rodríguez Alejandro López-Rodríguez alopez@sbgblaw.com TSPR 22,996

/s/ Joaquín M. Lago González Joaquín M. Lago González jlago@sbgblaw.com TSPR 20,678

#### **CERTIFICATE OF SERVICE**

I hereby certify that a true and accurate copy of this motion was filed with the Office of the Clerk of the Energy Bureau using its Electronic Filing System and that I will send an electronic copy of this motion to PREPA through its counsels of record: Juan M. Martínez-Nevárez, at imartinez@gmlex.net, Alexis G. Rivera-Medina, at arivera@gmlex.net, Joselyn Rodríguez-Gonzalez, at <a href="mailto:jrodriguez@gmlex.net">jrodriguez@gmlex.net</a>, and Mirelis Valle-Cancel, at <a href="mailto:mvalle@gmlex.net">mvalle@gmlex.net</a>; and to LUMA, through counsels of record: Margarita Mercado Echegaray, its at margarita.mercado@us.dlapiper.com; Margarita Rodríguez Rivera, Ana at ana.rodriguezrivera@us.dlapiper.com; and Julian Anglada Pagan, at julian.angladapagan@us.dlapiper.com.

In San Juan, Puerto Rico, this 22<sup>nd</sup> day of January 2024.

/s/ Alejandro López-Rodríguez Alejandro López-Rodríguez

## Exhibit A Genera Grid Modernization Highlights\_28DEC2023

### **Accomplishments (current month)**

### Upcoming Actions and Activities (next two weeks)

### Generation Assets Repairs

- Palo Seco 4 08AUG2023 Forced outage due to generator failure.
  - Finding: generator stator phase C is grounded.
  - · Initial recommendation: stator rewind.
  - Genera mobilized a contractor to make another assessment and test last week. Preliminary results useful for deliberation are available.
  - We approved a Change Request to continue the repair process.
  - Continuing with inspection and test, Startup unit TBD
  - · Environmental outage works on the unit are in progress.
- Cambalache 3- Inspection C maintenance completed. Unit online on 16DEC2023.

### Repairs:

- Aguirre CC Transformer 2-1 & 2-2 Based on the test results, the transformer cannot be returned to service. It must be replaced. Working on the scope of work.
- Aguirre 2 Environmental outage beginning 16DEC2023 until 29JAN2024.
- **San Juan 5** Combustion inspection from 08DEC2023 until 23DEC2023. Unit Startup and online 24DEC2023.

### High Priority Due Outs (Short Suspense)

- Costa Sur 5 Unit Major Maintenance in progress. The estimated completion date
  is 17DEC2023 (FEMA reimbursable). The water pump and turbine boiler feed pump
  base were damaged. Recently discovered damages repairs will take at least until
  24DEC2023. Unit Startup beginning 29DEC2023.
- Aguirre 1 The stator cooling fan seal was repaired. Currently working to improve generator megger and remove cooper on generator water cooling system. The OEM technical advisor recommended some additional tests. Genera is preparing an order to move special equipment to the island. Estimated completion date: TBD. (NME funded).
- **Palo Seco 3** Major maintenance and environmental outage in progress. 22NOV2023 until 28MAR2024. 06DEC23 FOMB approved the turbine contract.

### Challenges, Shortfalls, Limitations or Constraints

### Aguirre Combined Cycle

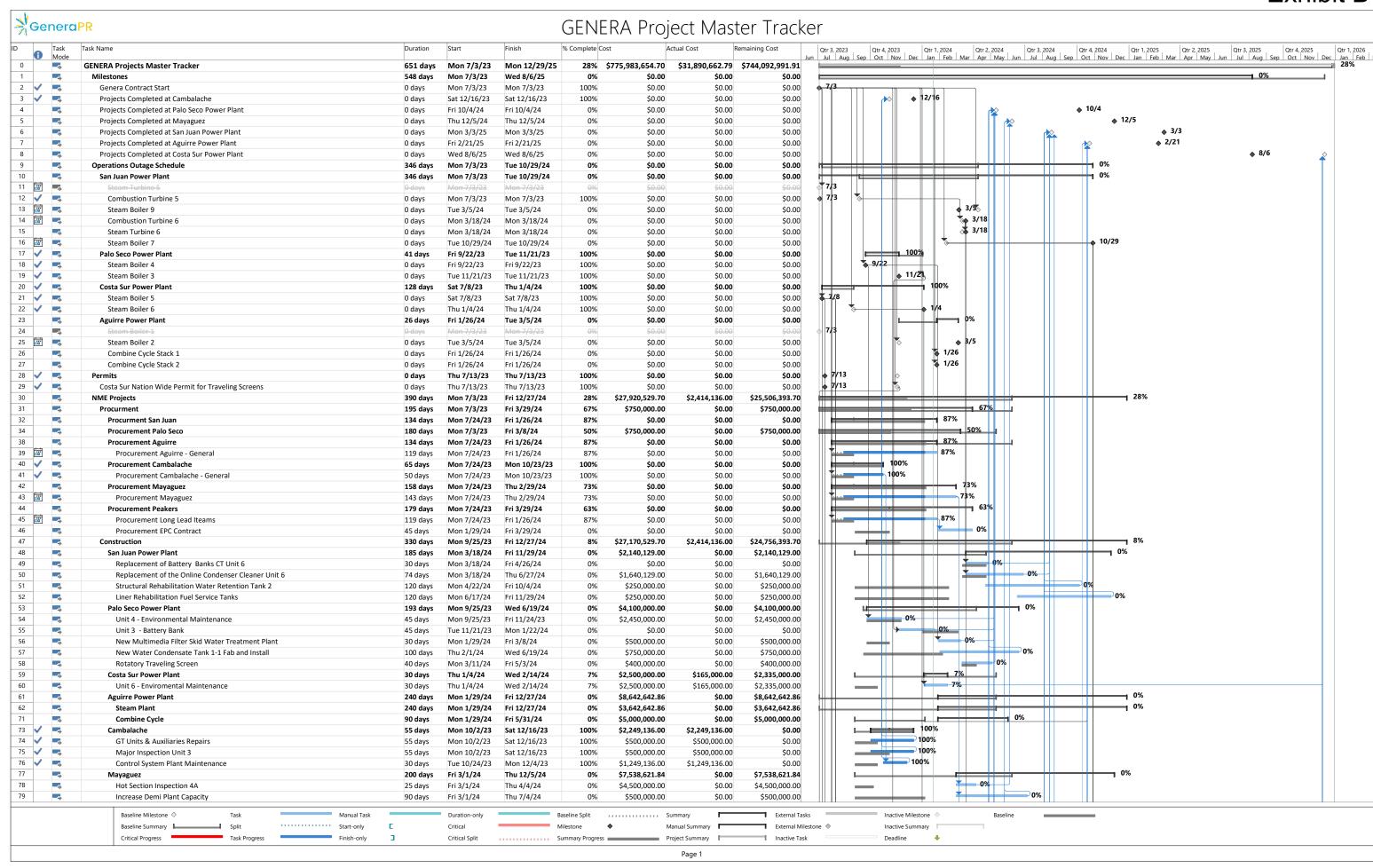
- Units 1-3 Major inspection and rotor installation. Expected to return in APR2024. (FEMA funded). In the process of awarding a contract.
- Units 1-4 Hot gas path inspection and rotor installation contract in process of awarding. Expected to return in FEB2024.

# Grid Modernization Report Legacy Generation Assets - Status as of 27DEC2023

UNIT	COD	USE	FUEL	NAMEPLATE CAPACITY (MW)	CURRENT CAPACITY	REPAIRS FUNDS SOURCE	EXPECTED COMPLETION DATE	NOTES
Aguirre 1	May 1975	Base	Bunker C	450	0	Federal & NME	02/12/2024	Under maintenance
Costa Sur 5	Sep 1972	Base	LNG & Bunker C	410	0	Federal	12/29/2023	Under maintenance
Palo Seco 4	Jul 1970	Base	Bunker C	216	0	NME	02/2025	Under damage assessment
Palo Seco 3	Feb 1970	Base	Bunker C	216	0	Federal & NME	04/14/2024	Under maintenance
San Juan 5	Oct 2008	Base	LNG & Diesel	210	210	NME	12/24/2023	StarUp process
Aguirre 2	Oct 1975	Base	Bunker C	450	0	N/A	12/27/2023	Short Outage Valve failures; StarUp process
Costa Sur 6	Sep 1973	Base	LNG & Bunker C	410	370	N/A	N/A	Limitations
AG-CC 1&2	July 1977	Reserve	Diesel	592	200	N/A	N/A	Limitations
Mayaguez	Apr 2009	Reserve	Diesel	220	194	N/A	N/A	Limitations
Cambalache	Apr 1997	Reserve	Diesel	247	154	N/A	N/A	Normal Operation
Peakers Fleet	(18) 1971 & (3) 2019	Reserve	Diesel	396	160	N/A	N/A	Failures and limitations
San Juan 7	May 1965	Base	Bunker C	100	0	Federal & NME	12/27/2023	UPS Trip; StarUp process
San Juan 6	Oct 2008	Base	LNG & Diesel	220	0	N/A	12/27/2023	Condenser cleaning; Starup process
San Juan 9	June 1968	Base	Bunker C	100	91	N/A	N/A	Normal Operation
TOTALS				4,247 MW	1,379 MW			Available Capacity
Legend: Unit under maintenance or repair Un				Unit in service with lim	nited Capacity	Unit under norm	al operation	Genera

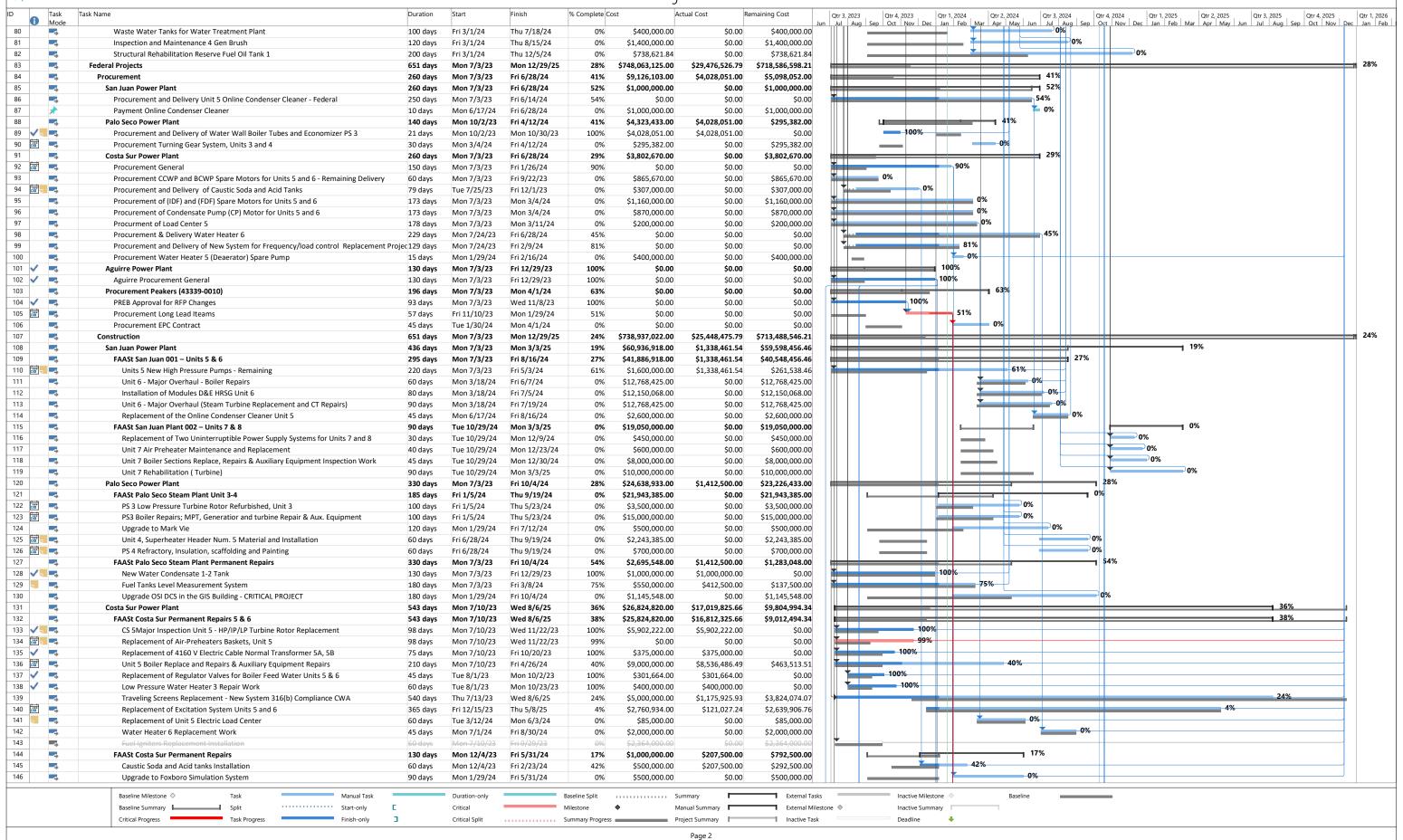
## Exhibit B Genera Project Master-Tracker\_31DEC2023

### Exhibit B



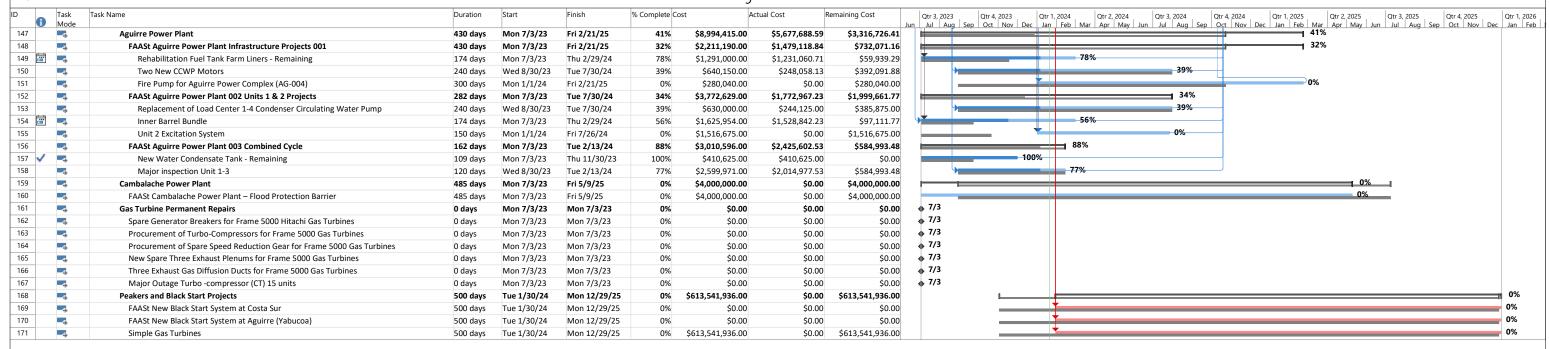


### **GENERA Project Master Tracker**





### **GENERA Project Master Tracker**



## Exhibit C Genera Project Cash Flow\_31DEC2023

\$31,890,662.79 \$908,250,079.8 \$744,092,991.9 (\$132,266,425.1 6)



The chart shows the project's cumulative cost and the cost per quater.

To see the costs for a different time period, select the Edit option from the Field List.

The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outline Level in the Field List.

Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
Milestones	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operations Outage Schedule	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Permits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NME Projects	\$25,506,393.70	\$2,414,136.00	\$27,920,529.7 0	\$2,414,136.00	\$2,449,136.0 0	\$55,150,067.39
Federal Projects	\$718,586,598.21	\$29,476,526.79	\$748,063,125. 00	\$29,476,526.79	\$23,882,652. 75	\$98,874,997.50

### Exhibit C

## Exhibit D Genera Milestone Overview \_31DEC2023

# MILESTONE REPORT

### LATE MILESTONES

Milestones that are past due.

Name	Finish
Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines	Mon 7/3/23
Procurement of Turbo- Compressors for Frame 5000 Gas Turbines	Mon 7/3/23
Procurement of Spare Speed Reduction Gear for Frame 5000 Gas Turbines	Mon 7/3/23
New Spare Three Exhaust Plenums for Frame 5000 Gas Turbines	Mon 7/3/23
Three Exhaust Gas Diffusion Ducts for Frame 5000 Gas Turbines	Mon 7/3/23
Major Outage Turbo - compressor (CT) 15 units	Mon 7/3/23

### MILESTONES UP NEXT

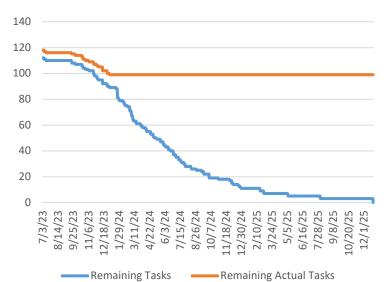
Milestones due in this month.

whilestones due in this month.	
Name	Finish
Combine Cycle Stack 1	Fri 1/26/24
Combine Cycle Stack 2	Fri 1/26/24
Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines	Mon 7/3/23
Procurement of Turbo- Compressors for Frame 5000 Gas Turbines	Mon 7/3/23
Procurement of Spare Speed Reduction Gear for Frame 5000 Gas Turbines	Mon 7/3/23
New Spare Three Exhaust Plenums for Frame 5000 Gas Turbines	Mon 7/3/23
Three Exhaust Gas Diffusion Ducts for Frame 5000 Gas Turbines	Mon 7/3/23
Major Outage Turbo - compressor (CT) 15 units	Mon 7/3/23

### COMPLETED MILESTONES

Milestones that are 100% complete.

Name	Finish
Genera Contract Start	Mon 7/3/23
Projects Completed at Cambalache	Sat 12/16/23
Combustion Turbine 5	Mon 7/3/23
Steam Boiler 4	Fri 9/22/23
Steam Boiler 3	Tue 11/21/23
Steam Boiler 5	Sat 7/8/23
Steam Boiler 6	Thu 1/4/24
Costa Sur Nation Wide Permit for Traveling Screens	Thu 7/13/23



### Exhibit D

## Exhibit E Genera Critical Tasks\_31DEC2023

### **CRITICAL TASKS**

A task is critical if there is no room in the schedule for it to slip.

Learn more about managing your project's critical path.

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Procurement Long Lead Iteams	Fri 11/10/23	Mon 1/29/24	51%	0 hrs	Subcontracts
Replacement of Air-Preheaters Baskets, Unit 5	Mon 7/10/23	Wed 11/22/23	99%	0 hrs	Subcontracts
FAASt New Black Start System at Costa Sur	Tue 1/30/24	Mon 12/29/25	0%	0 hrs	Subcontracts[\$45, 200,000.00]
FAASt New Black Start System at Aguirre (Yabucoa)	Tue 1/30/24	Mon 12/29/25	0%	0 hrs	Subcontracts[\$45, 200,000.00]
Simple Gas Turbines	Tue 1/30/24	Mon 12/29/25	0%	0 hrs	Subcontracts[\$61 3,541,936.00]

■ Status: Complete

■ Status: On Schedule

■ Status: Late

Status: Future Task

### Exhibit F Genera Project Overview\_31DEC2023

### **PROJECT OVERVIEW**

MON 7/3/23 - MON 12/29/25

% COMPLETE

28%

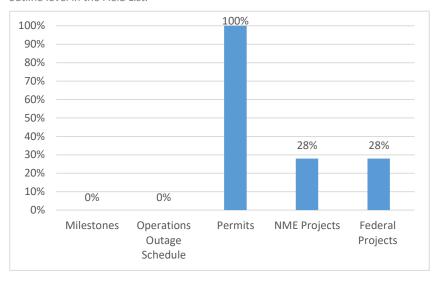
### MILESTONES DUE

Milestones that are coming soon.

Name	Finish
Projects Completed at Palo Seco Power Plant	Fri 10/4/24
Projects Completed at Mayaguez	Thu 12/5/24
Projects Completed at San Juan Power Plant	Mon 3/3/25
Projects Completed at Aguirre Power Plant	Fri 2/21/25
Projects Completed at Costa Sur Power Plant	Wed 8/6/25
Steam Turbine 5	Mon 7/3/23
Steam Boiler 9	Tue 3/5/24
Combustion Turbine 6	Mon 3/18/24
Steam Turbine 6	Mon 3/18/24
Steam Boiler 7	Tue 10/29/24
Steam Boiler 1	Mon 7/3/23
Steam Boiler 2	Tue 3/5/24
Combine Cycle Stack 1	Fri 1/26/24
Combine Cycle Stack 2	Fri 1/26/24
Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines	Mon 7/3/23
Procurement of Turbo-Compressors for Frame 5000 Gas Turbines	Mon 7/3/23
Procurement of Spare Speed Reduction Gear for Frame 5000 Gas Turbines	Mon 7/3/23
New Spare Three Exhaust Plenums for Frame 5000 Gas Turbines	Mon 7/3/23
Three Exhaust Gas Diffusion Ducts for Frame 5000 Gas Turbines	Mon 7/3/23
Major Outage Turbo -compressor (CT) 15 units	Mon 7/3/23

### % COMPLETE

Status for all top-level tasks. To see the status for subtasks, click on the chart and update the outline level in the Field List.



#### LATE TASKS

Tasks that are past due.

asks that are past due.					
Name	Start	Finish	Duration	% Complete	Resource Names
Steam Turbine 5	Mon 7/3/23	Mon 7/3/23	0 days	0%	
Steam Boiler 1	Mon 7/3/23	Mon 7/3/23	0 days	0%	
Unit 4 - Environmental Maintenance	Mon 9/25/23	Fri 11/24/23	45 days	0%	Subcontracts[ \$3,750,000.00 ]
Unit 3 - Battery Bank	Tue 11/21/23	Mon 1/22/24	45 days	0%	Subcontracts[ \$500,000.00]
Procurement CCWP and BCWP Spare Motors for Units 5 and 6 - Remaining Delivery	Mon 7/3/23	Fri 9/22/23	60 days	0%	Subcontracts
Procurement and Delivery of Caustic Soda and Acid Tanks	Tue 7/25/23	Fri 12/1/23	79 days	0%	Subcontracts
Procurement of (IDF) and (FDF) Spare Motors for Units 5 and 6	Mon 7/3/23	Mon 3/4/24	173 days	0%	Subcontracts[ \$865,670.00]
Procurement of Condensate Pump (CP) Motor for Units 5 and 6	Mon 7/3/23	Mon 3/4/24	173 days	0%	Subcontracts[ \$870,000.00]
Procurment of Load Center 5	Mon 7/3/23	Mon 3/11/24	178 days	0%	Subcontracts[ \$285,000.00]
Procurement Long Lead Iteams	Fri 11/10/23	Mon 1/29/24	57 days	51%	Subcontracts
Replacement of Air- Preheaters Baskets, Unit 5	Mon 7/10/23	Wed 11/22/23	98 days	99%	Subcontracts
Unit 5 Boiler Replace and Repairs & Auxiliary Equipment Repairs	Mon 7/10/23	Fri 4/26/24	210 days	40%	Subcontracts[ \$9,000,000.00 ]

### Exhibit F

Fuel Igniters Replacement Installation	Mon 7/10/23	Fri 9/29/23	60 days	0%	Subcontracts[ \$2,364,000.00 ]
Fire Pump for Aguirre Power Complex (AG-004)	Mon 1/1/24	Fri 2/21/25	300 days	0%	Subcontracts[ \$280,040.00]
Inner Barrel Bundle	Mon 7/3/23	Thu 2/29/24	174 days	56%	Subcontracts[ \$1,625,954.00 ]
Unit 2 Excitation System	Mon 1/1/24	Fri 7/26/24	150 days	0%	Subcontracts[ \$1,516,675.00 ]
FAASt Cambalache Power Plant – Flood Protection Barrier	Mon 7/3/23	Fri 5/9/25	485 days	0%	Subcontracts[ \$4,000,000.00 ]
Spare Generator Breakers for Frame 5000 Hitachi Gas Turbines	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts
Procurement of Turbo-Compressors for Frame 5000 Gas Turbines	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts
Procurement of Spare Speed Reduction Gear for Frame 5000 Gas Turbines	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts
New Spare Three Exhaust Plenums for Frame 5000 Gas Turbines	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts
Three Exhaust Gas Diffusion Ducts for Frame 5000 Gas Turbines	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts
Major Outage Turbo -compressor (CT) 15 units	Mon 7/3/23	Mon 7/3/23	0 days	0%	Subcontracts