GeneraPR

Generation Status & Forecast

Operations Report

Daniel Hernandez, PE, MEM

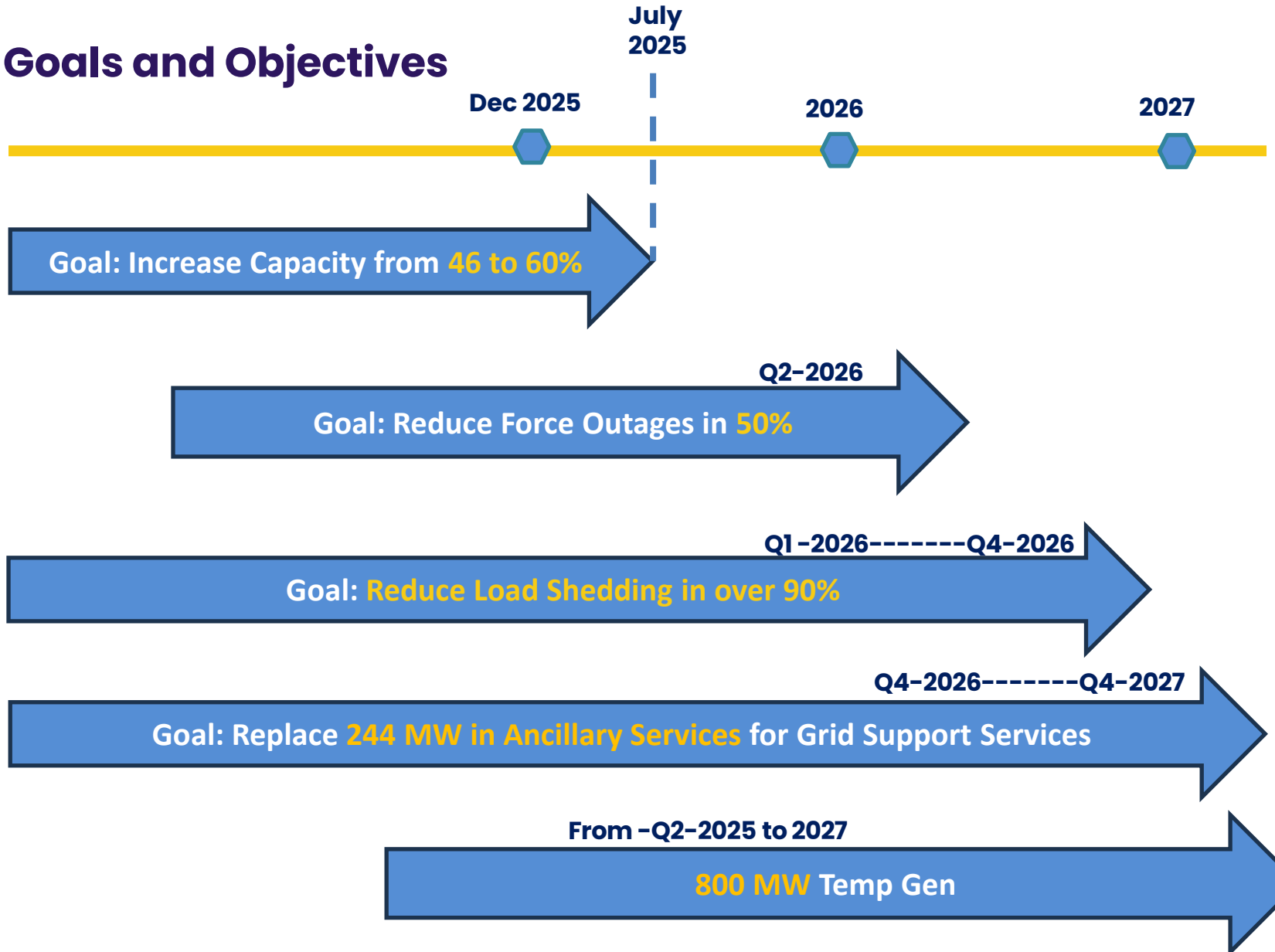


March 2025

Workplan to Increase Reliability

Strategic Priorities
✓ Short-Term Repairs
✓ Critical Components Replacement
✓ BESS Project 430 MW
✓ Peaker Units Replacement Project
✓ Temp Gen 565 MW

Goals and Objectives



Current Generation System Availability

GeneraPR 3/6/2025

Generating Station		Available Generation (MW)	Expected COD
San Juan	CT 5	152	
	STG 5	55	
	CT 6	-	April
	STG 6	-	July
	7	-	Aug
	9	100	
Palo Seco	3	180	
	4	-	July
Aguirre	1	-	TBD
	2	-	May
Costa Sur	5	-	May
	6	370	
Total GeneraPR - Base Generation		**857**	
Aguirre Combined Cycle		150	
Peaking Units (PS, AG, CS, VB, Jobos, Yab. & Dag.)		111	
San Juan TM (Trailer mounted)		200	
Palo Seco TM (Trailer mounted)		90	
PS MP PW FT-8 (Mobilepac)		81	
Mayaguez Gas turbine		98	
Cambalache Gas turbine		154	
GeneraPR - Total Generation		**1,741**	
AES		507	
Ecoelectrica		566	
Hydroelectric		19	
Renewables		-	
System - Grand Total		**2,833**	
Peak Demand (TOC Forecast)		**2,447**	
Reserve		**386**	
Peak Demand Previous Day		**2,404**	

LUMA 3/6/2025

DAILY GENERATION AVAILABILITY REPORT

LUMA is not responsible for generation and is providing this report as part of service to our customers.
The report shows the availability generation as reported daily by each generator.

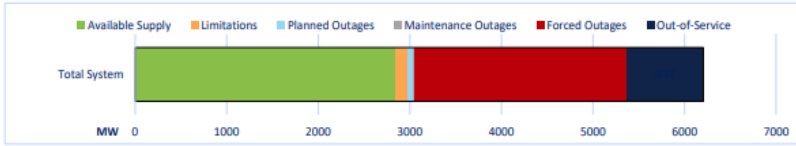
3/6/2025

Projected System Availability and Reserves

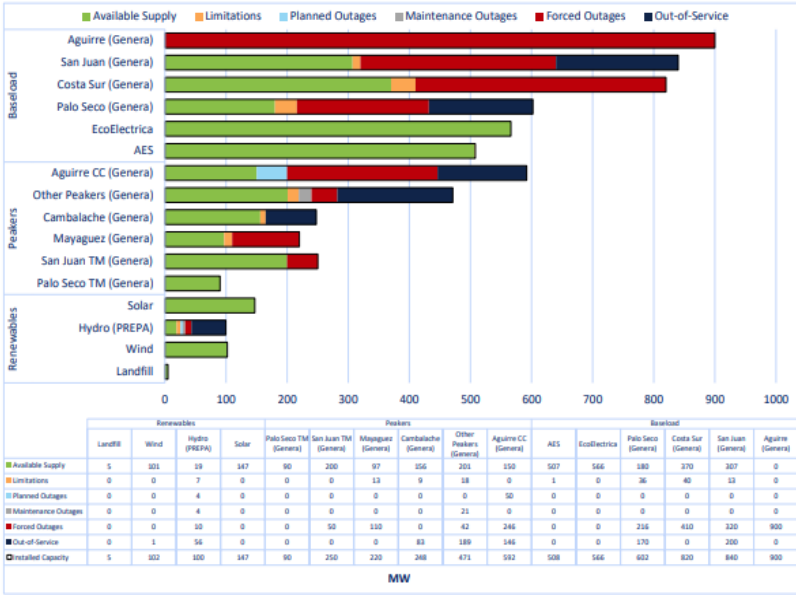
2,447 PEAK DEMAND	670 REQUIRED RESERVES	274 RESERVES SHORTFALL	
2,843 AVAILABLE SUPPLY	396 AVAILABLE RESERVES	46% AVAILABILITY RATE	

Previous Day	3/5/2025	
Min. Demand	1,789 MW	Time: 10:34 AM
Peak Demand	2,438 MW	Time: 7:52 PM
Total Generation	44,192 MWh	

System Availability and Status



Availability and Status as reported by each Generator



Generation Fleet Short-Term Repairs

Forced Outage Repairs					
Unit	Condition	Outage Date	Expected Operational Date (2025)	Expected Operational Capacity	Comments
San Juan 6	CTG – major maintenance	Aug 20, 2024	**CTG- April 30**	155 MW	Repair in progress
Aguirre CC 2-1, 2-2	FO – Pipe type cable failure	Jan 1, 2025	**May 1st week**	100 MW	• Contractor mobilization is in progress. • Requires materials from LUMA's warehouse (poles and accessories)- email sent 2/5/2025 - DONE
Costa Sur 5	Air Heater Basket Replacement	Feb 28, 2025	**May 10**	330 MW	Repair in progress
Aguirre 2	Gen rotor	Feb 2, 2025	**May 20**	365 MW	Gen rotor low megger. In the process of removing the rotor.
Palo Seco 4	FO – Generator repair and environmental maintenance	Aug 8, 2023	**July 19**	200 MW	Repair in progress.
San Juan 6	STG -gen repair	June 12, 2024	**STG – July 30**	55 MW	Repair in progress
San Juan 7	FO – Turbine repair	Oct 2, 2024	**Aug 1st week**	100 MW	Contract recently approved

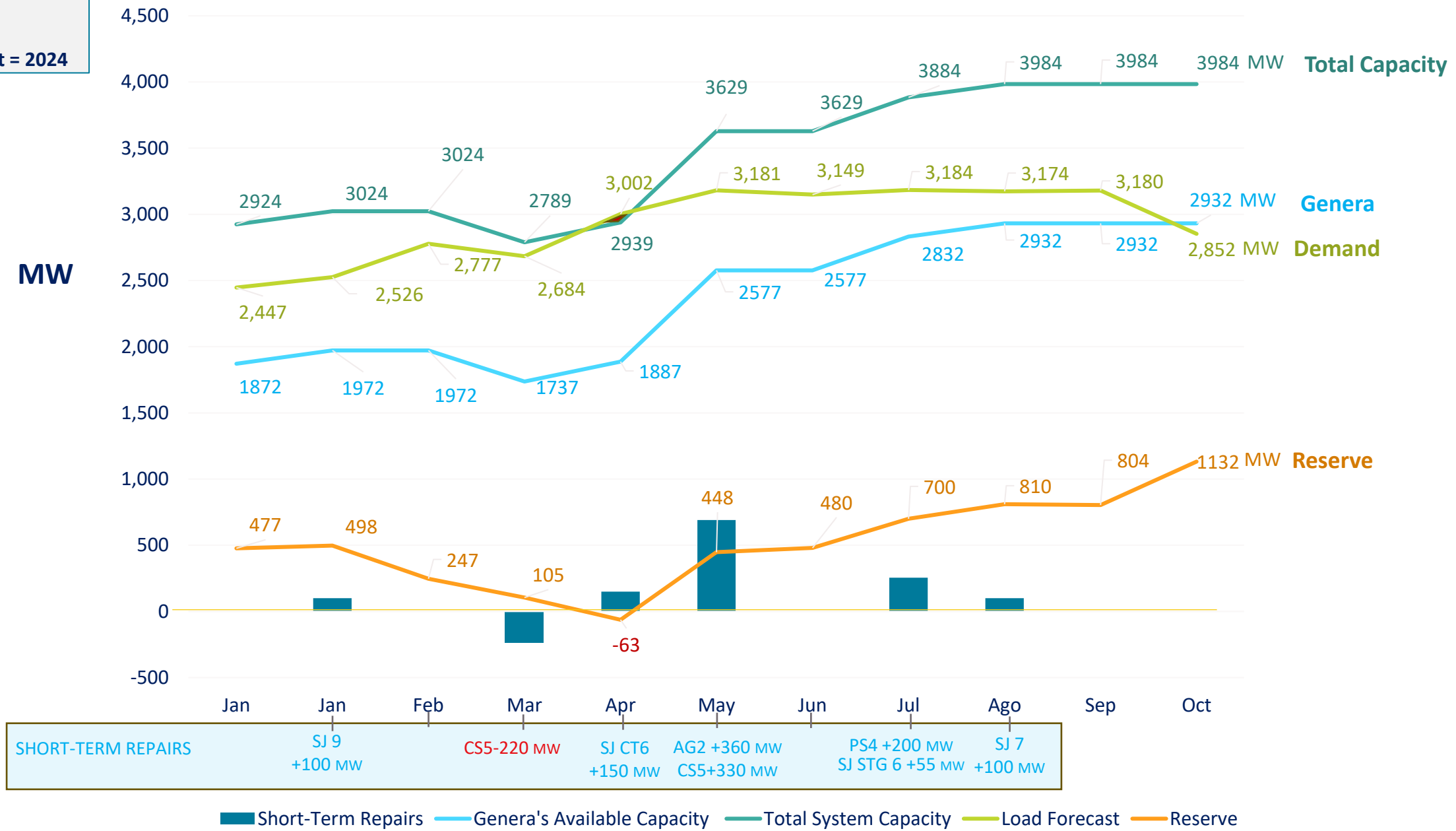
Case I

Assumptions:

-- **0% FO**

-- **Demand Forecast = 2024**

2025 Short-term Repairs and Available Capacity Forecast



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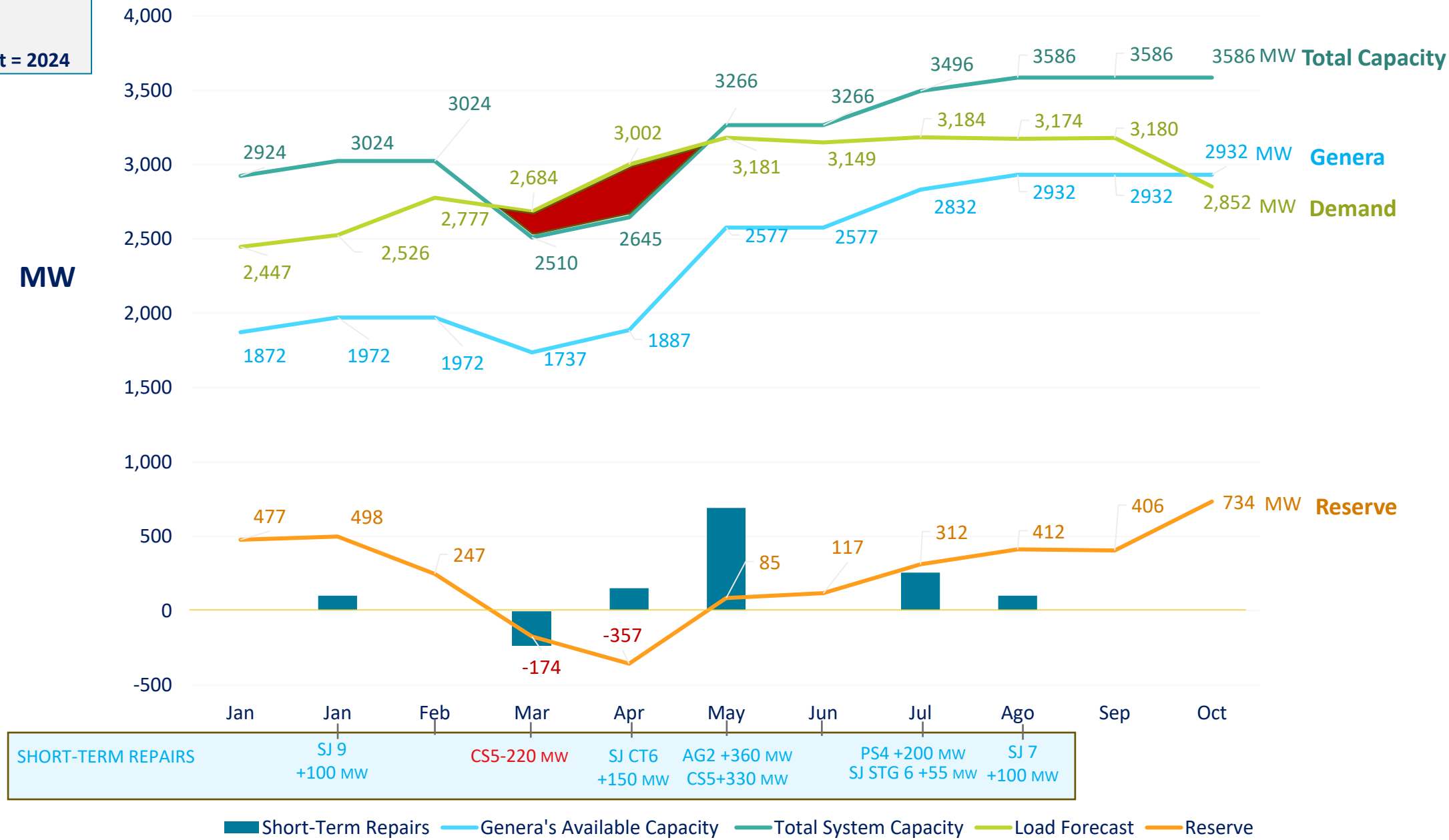
Case II

Assumptions:

-- 10% FO

-- Demand Forecast = 2024

2025 Short-term Repairs and Available Capacity Forecast



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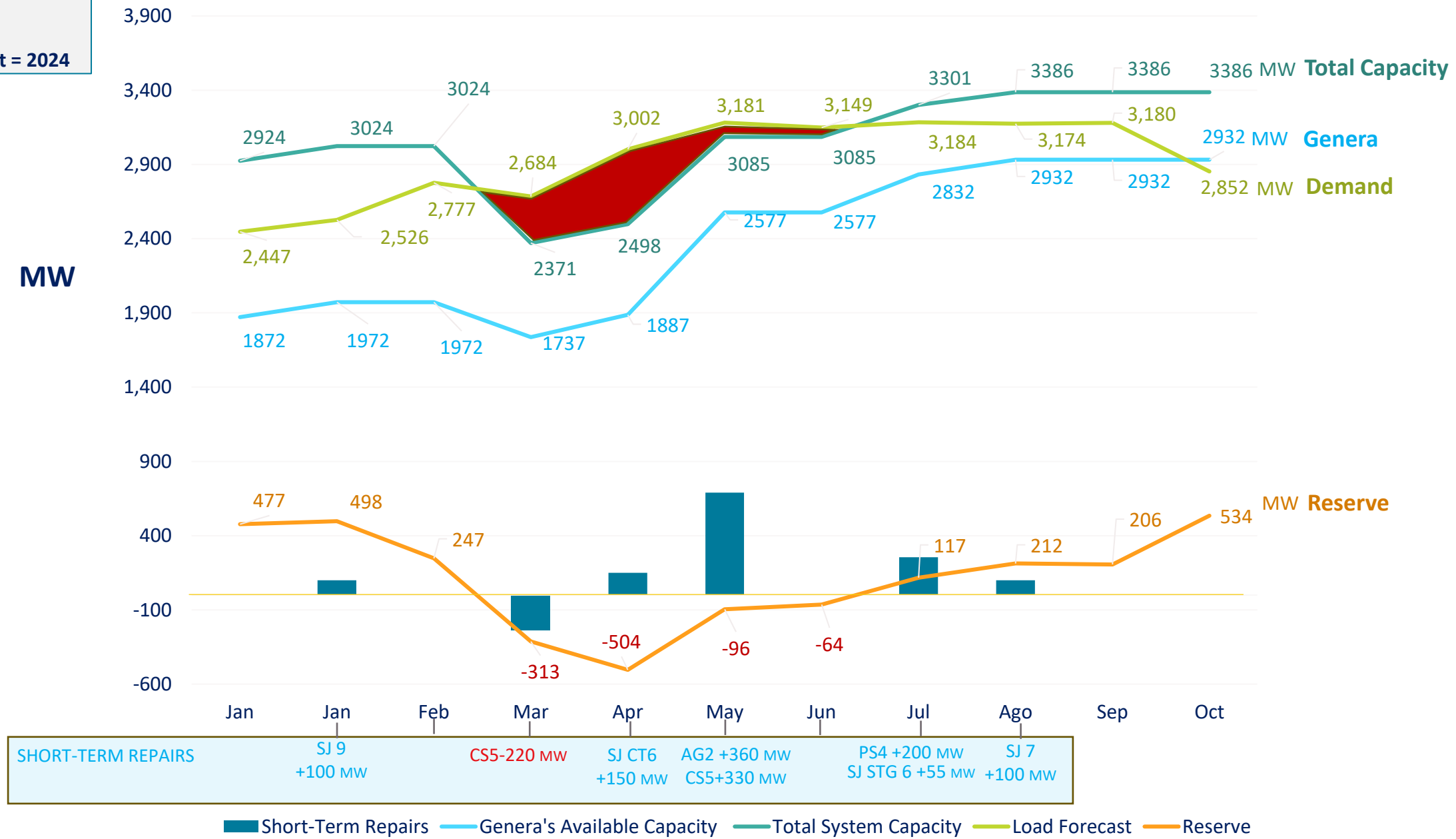
Case II.a

Assumptions:

-- 15% FO

-- Demand Forecast = 2024

2025 Short-term Repairs and Available Capacity Forecast



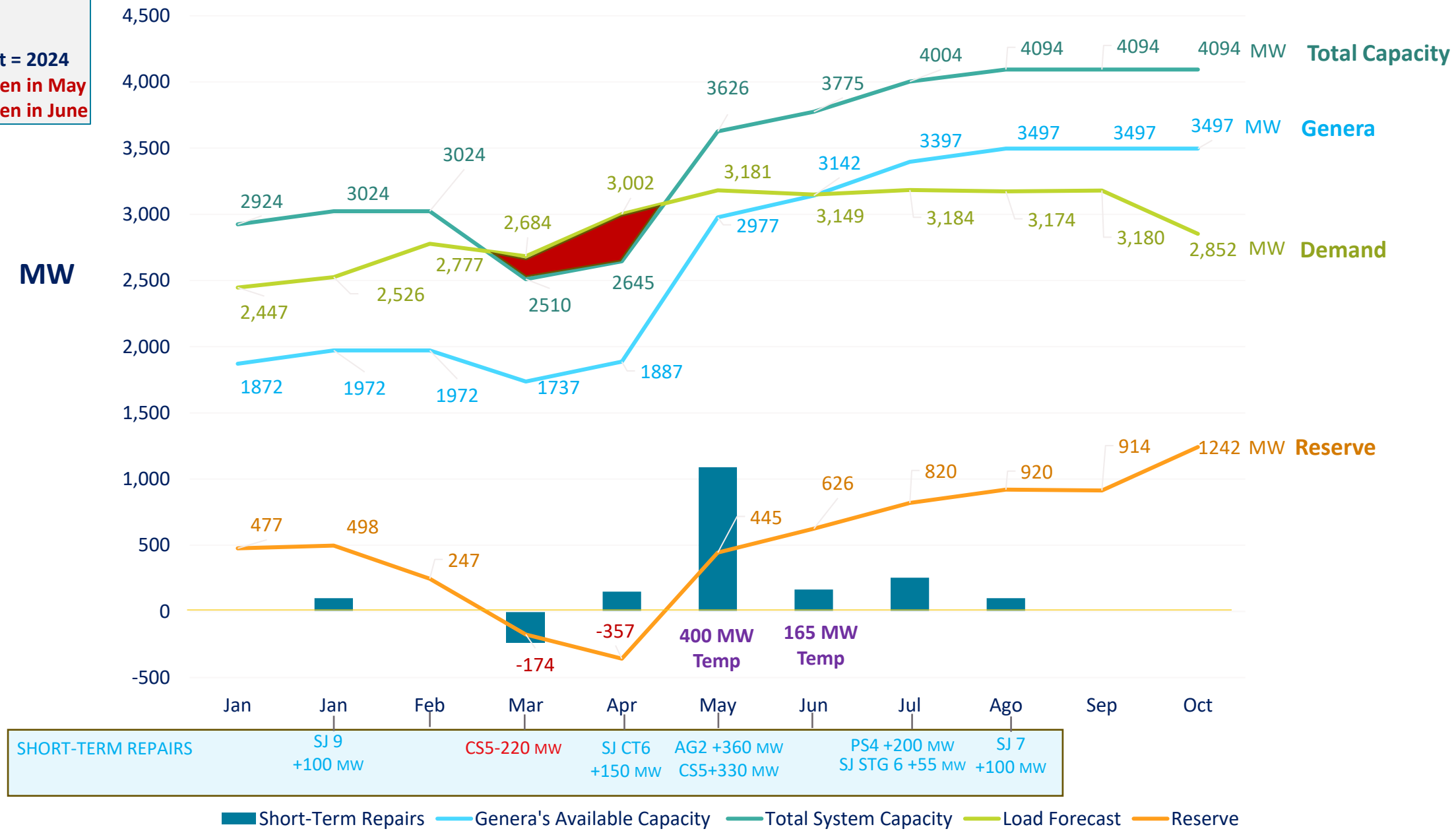
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2025 Short-term Repairs and Available Capacity Forecast

Case III

Assumptions:

- **10% FO**
- **Demand Forecast = 2024**
- **400 MW Temp Gen in May**
- **165 MW Temp Gen in June**



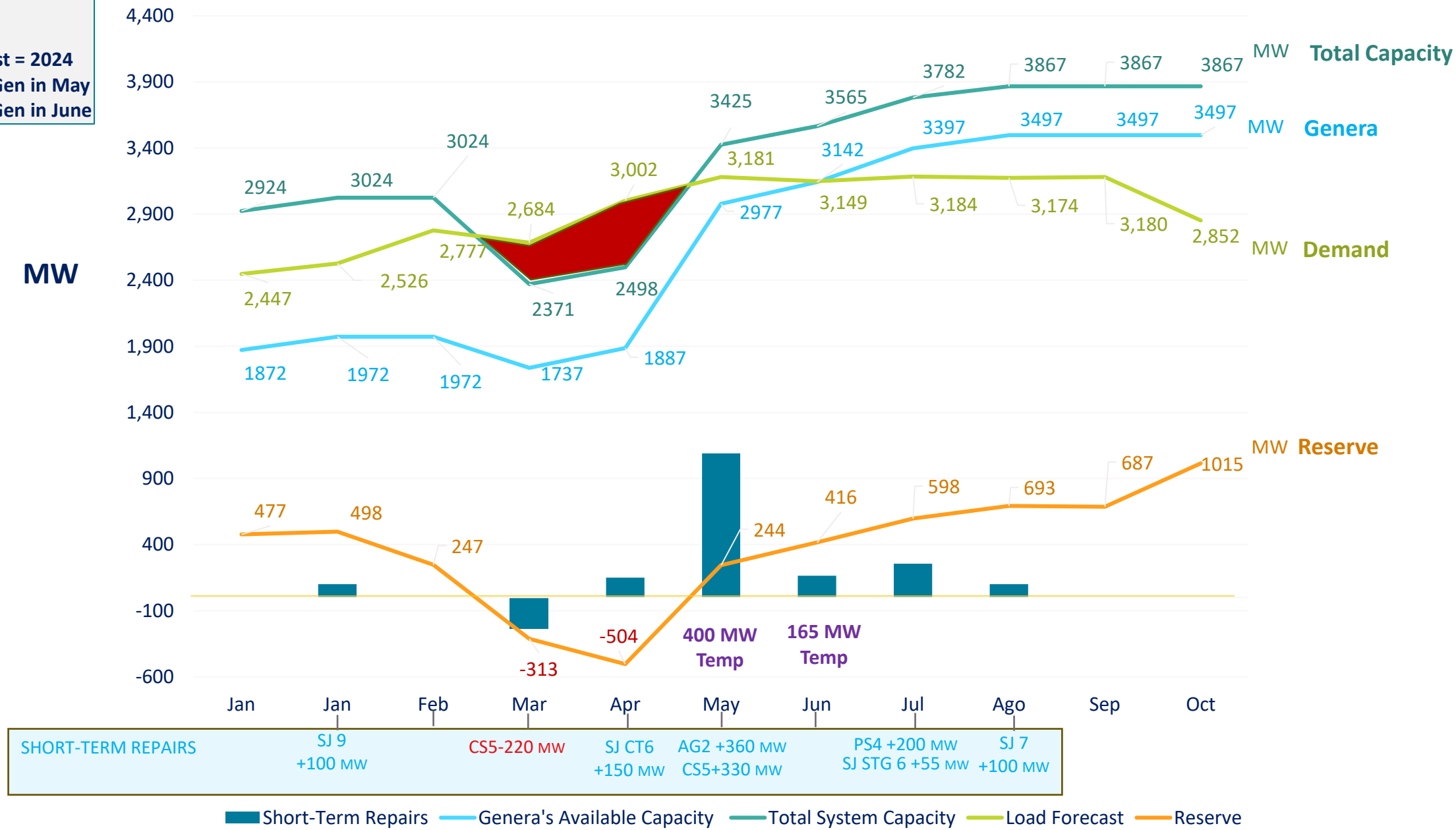
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2025 Short-term Repairs and Available Capacity Forecast

Case III.a

Assumptions:

- **15% FO**
- **Demand Forecast = 2024**
- **400 MW Temp Gen in May**
- **165 MW Temp Gen in June**



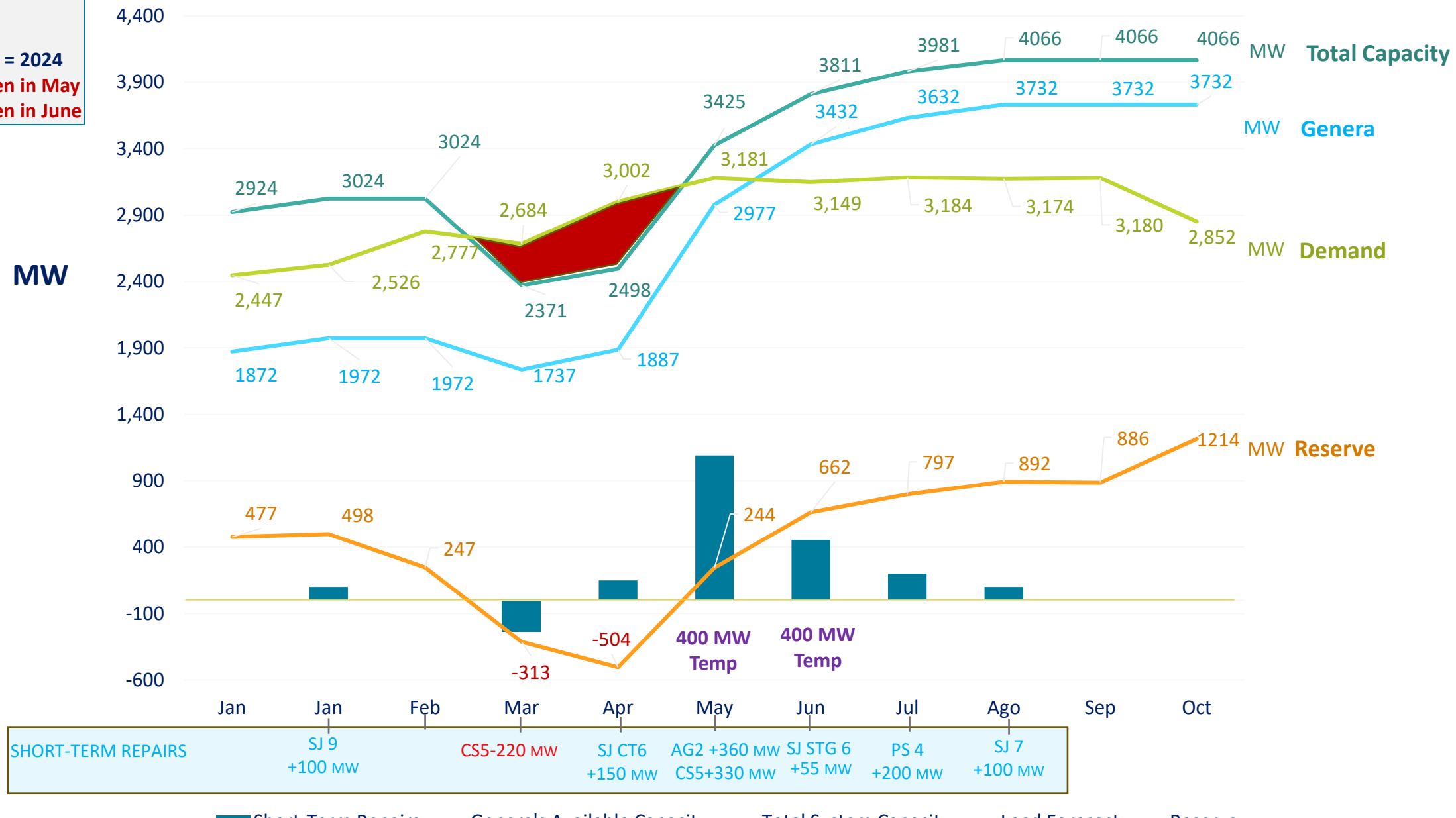
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2025 SHORT-TERM REPAIRS AND AVAILABLE CAPACITY FORECAST

Case IV

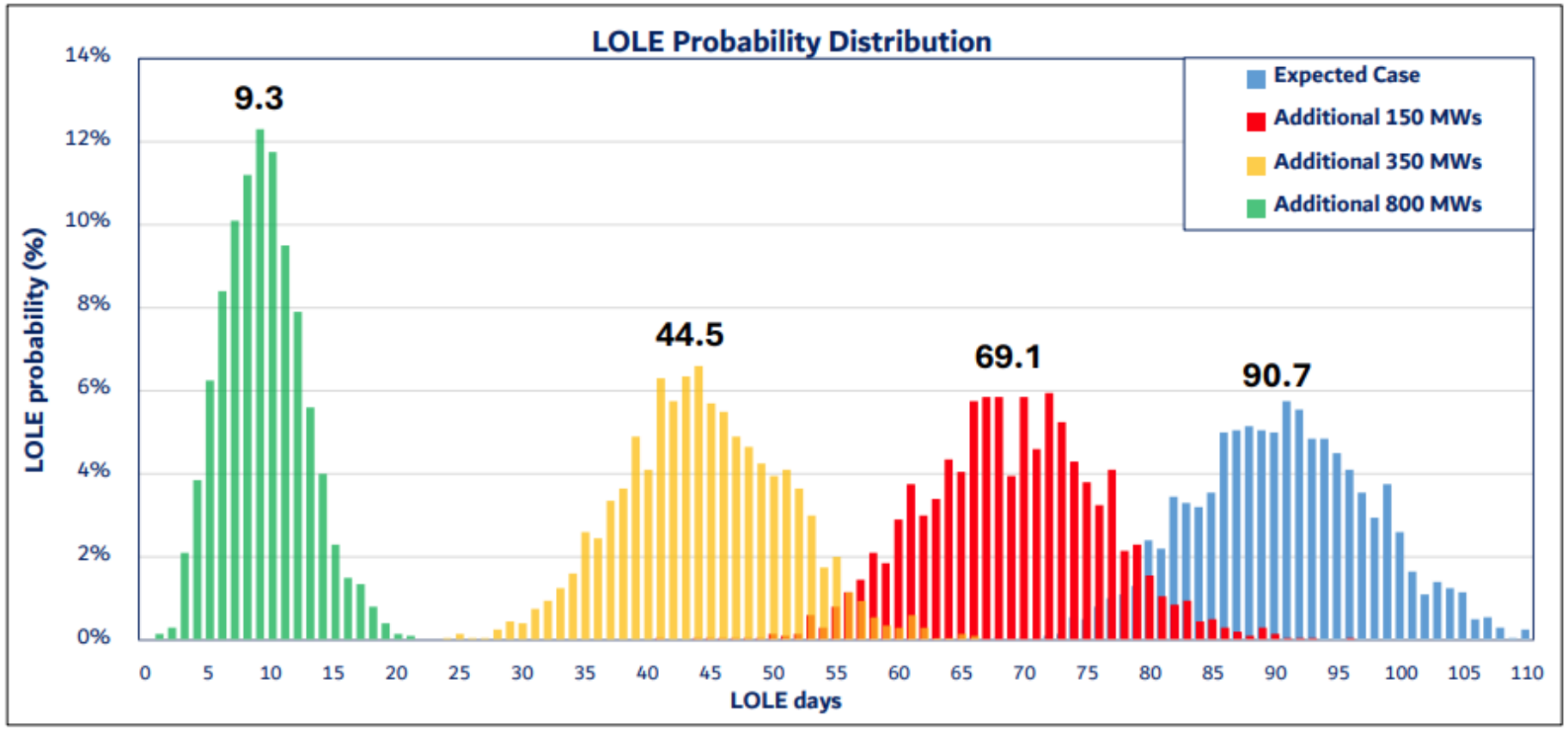
Assumptions:

- **-- 15% FO**
- **-- Demand Forecast = 2024**
- **-- 400 MW Temp Gen in May**
- **-- 400 MW Temp Gen in June**



Engr. Daniel Hernandez

The addition of 800 MW will bring the portfolio closer to industry standards, even lesser amounts of additions will help



Case	LOLE Days	% LOLE reduction
Expected	90.7	-
+150 MWs	69.1	24%
+350 MWs	44.5	51%
+800 MWs	9.3	90%

- It will be a challenge to locate and install 800 MW of new emergency generation in the near term
- Three different increments of additions were modeled to indicate the relative benefits of even smaller amounts of capacity
- LUMA has not reviewed the feasibility or schedule of Genera's proposal, these numbers were only chosen to be illustrative of the relative impact

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Thanks!

