



RA Regulation, 2024

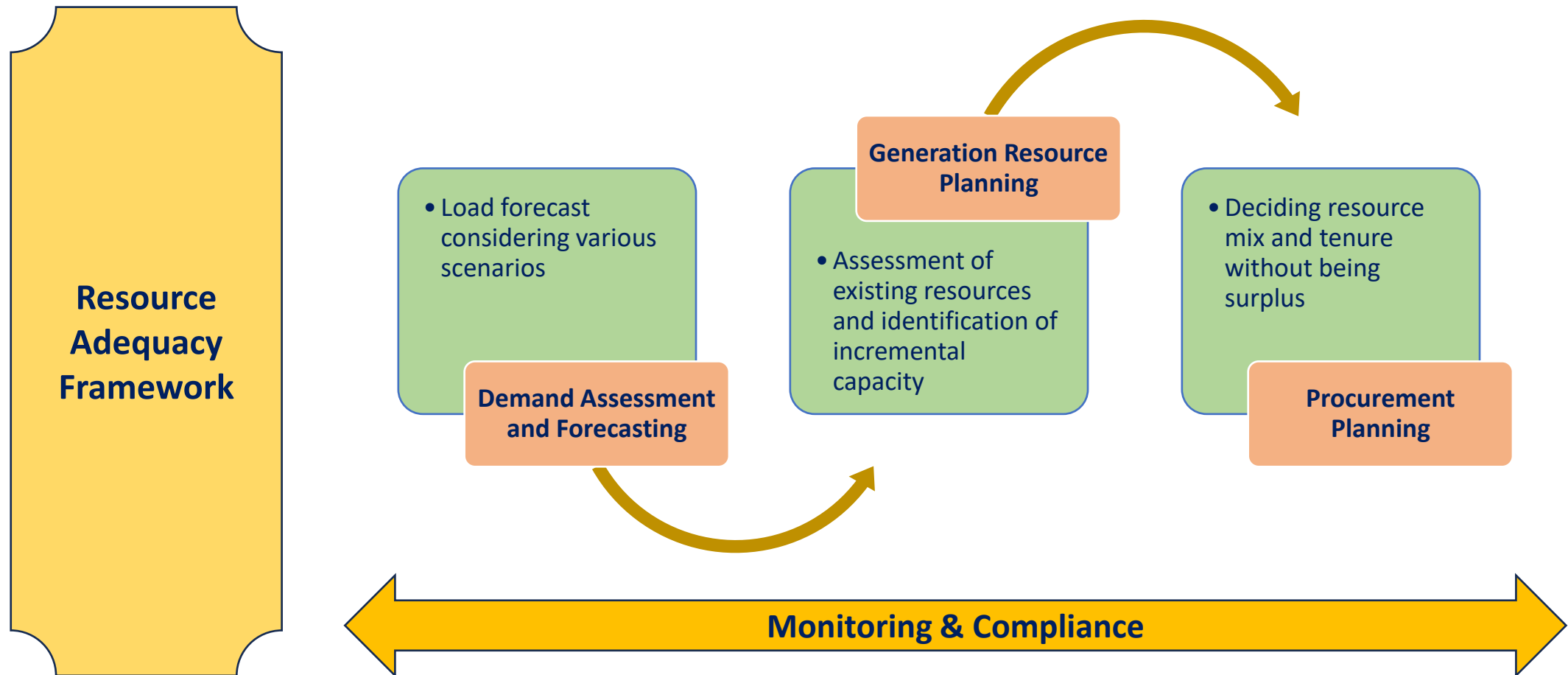
Tata Power Mumbai Distribution

Nitin Lothe

5th Dec 2024

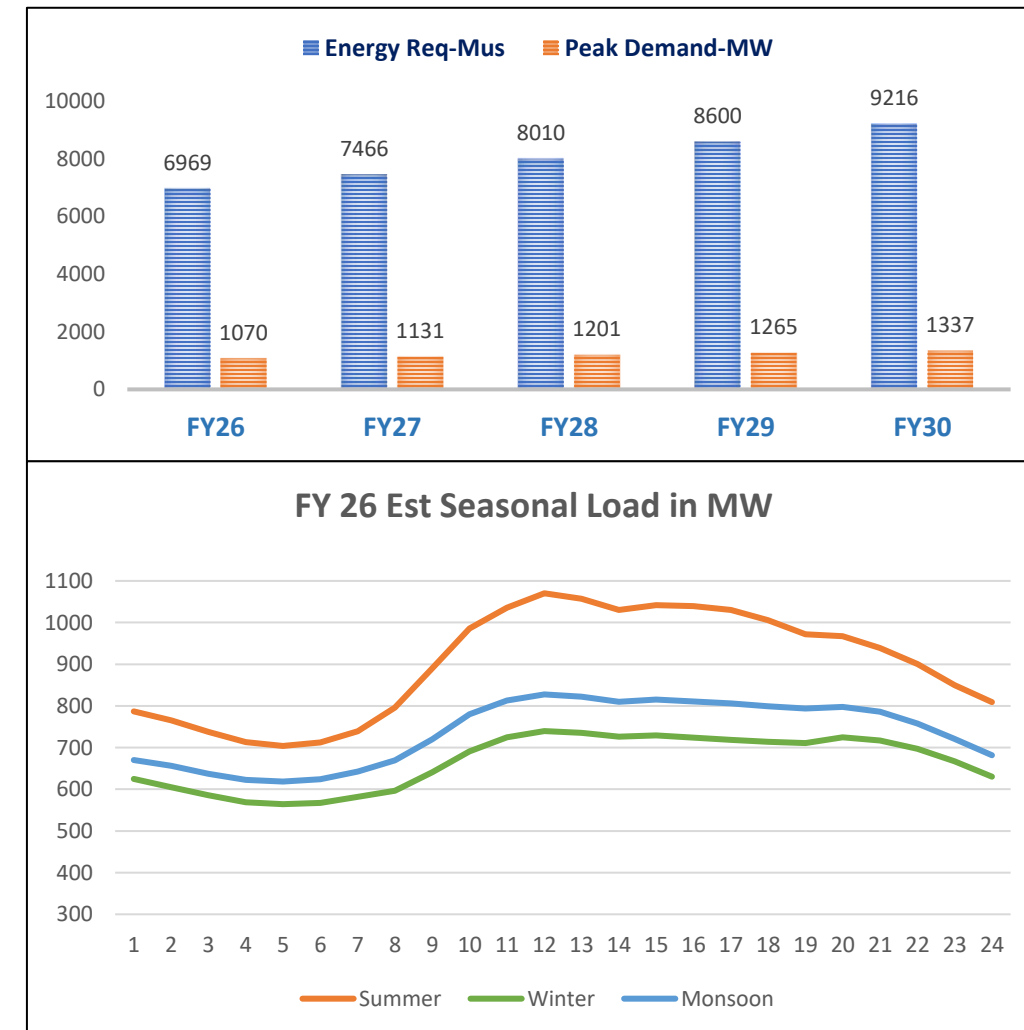
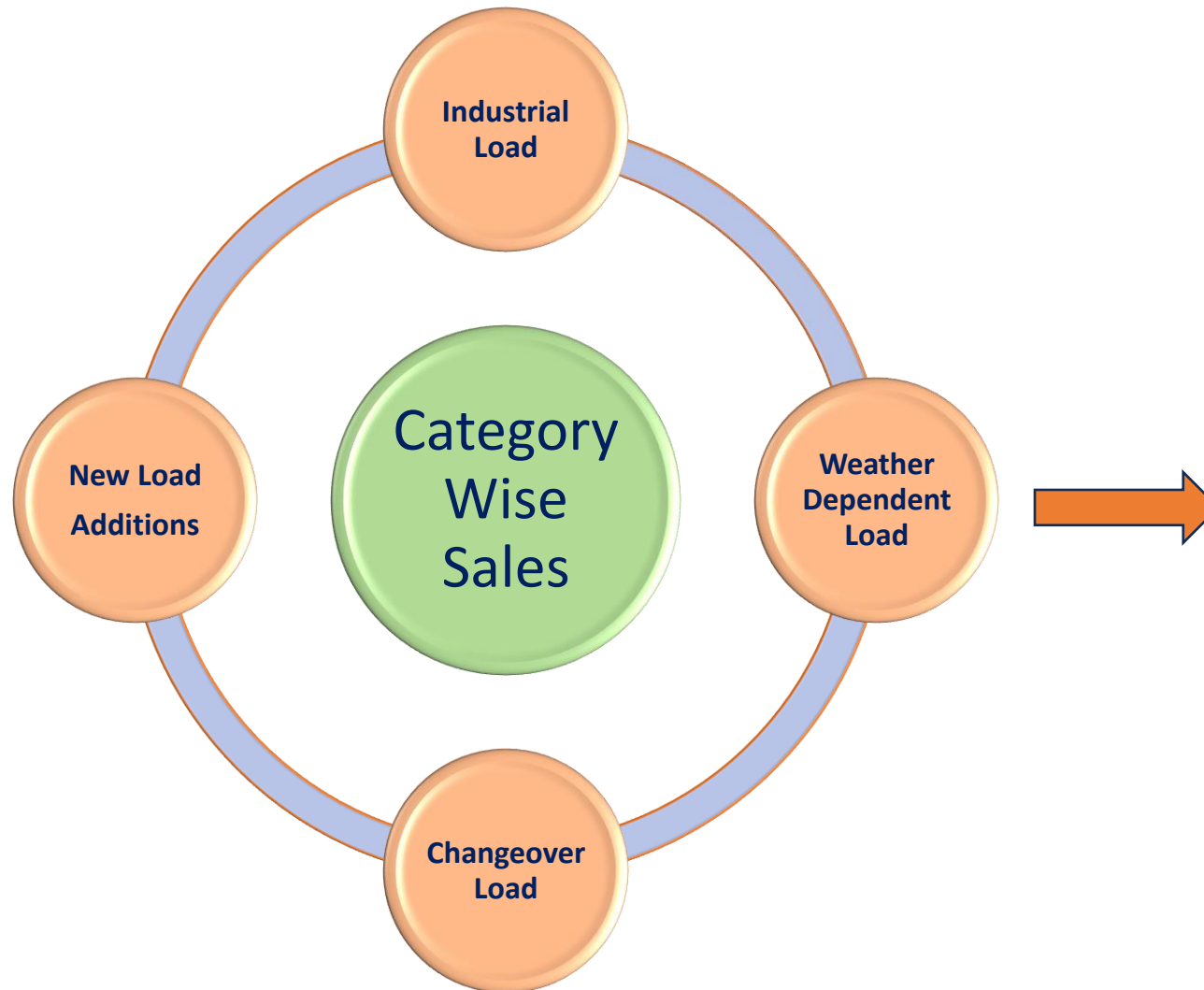
Lighting up Lives!

Objective: To ensure adequate supply of generation to serve expected demand *in all operating conditions*



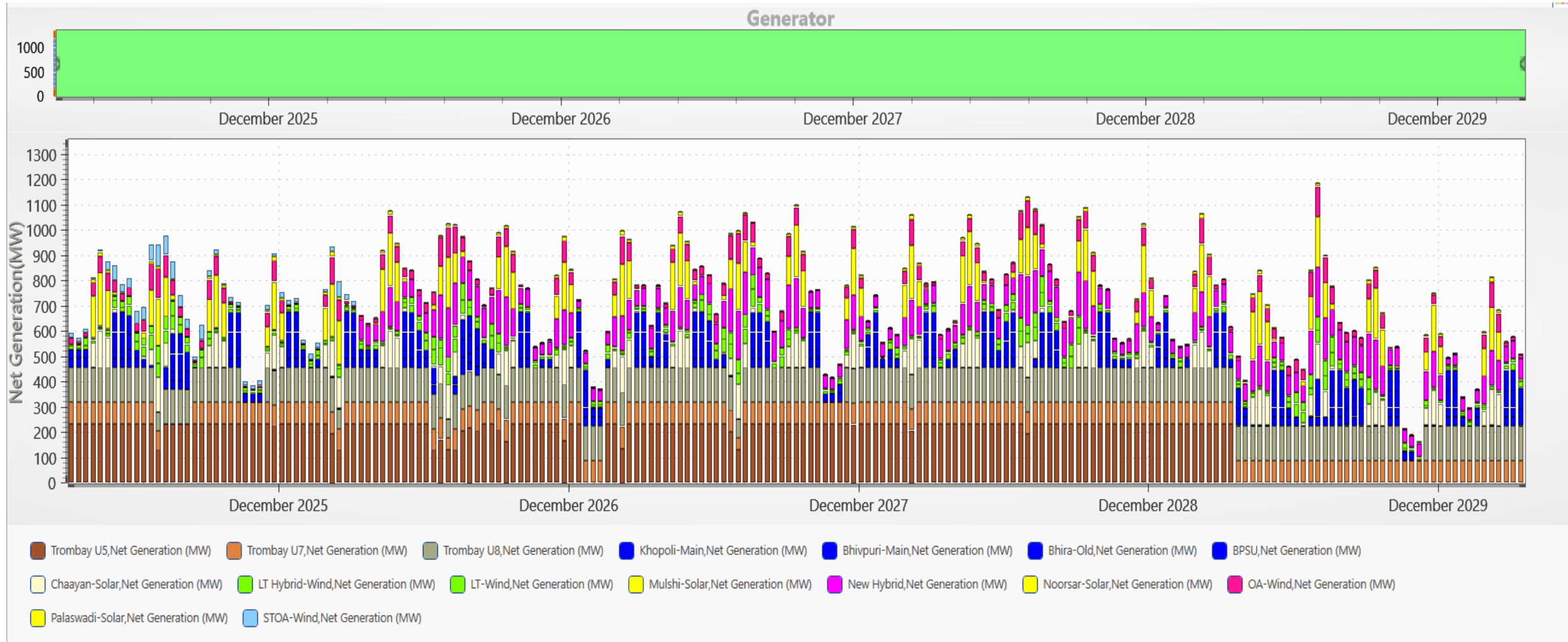


1. Demand Assessment and Forecasting

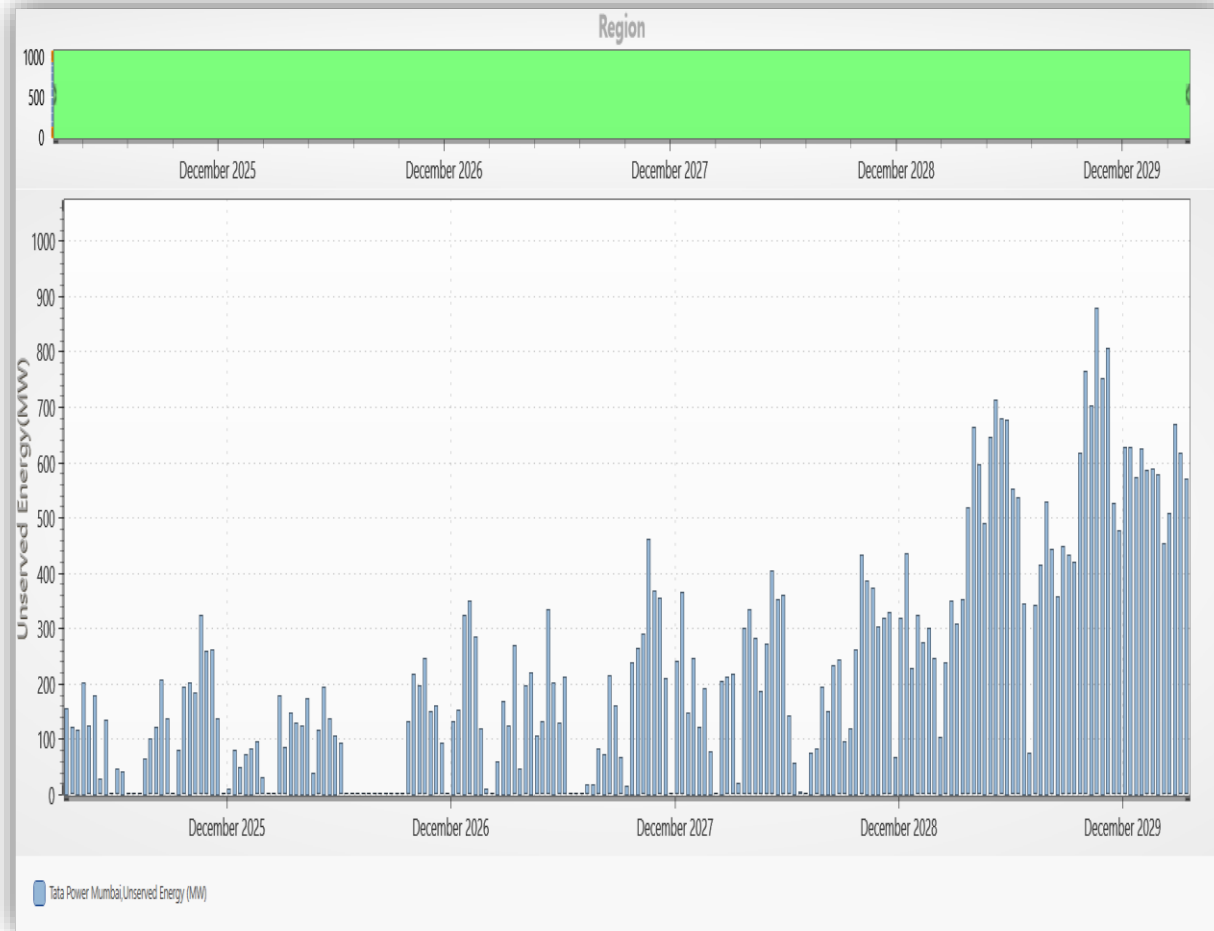




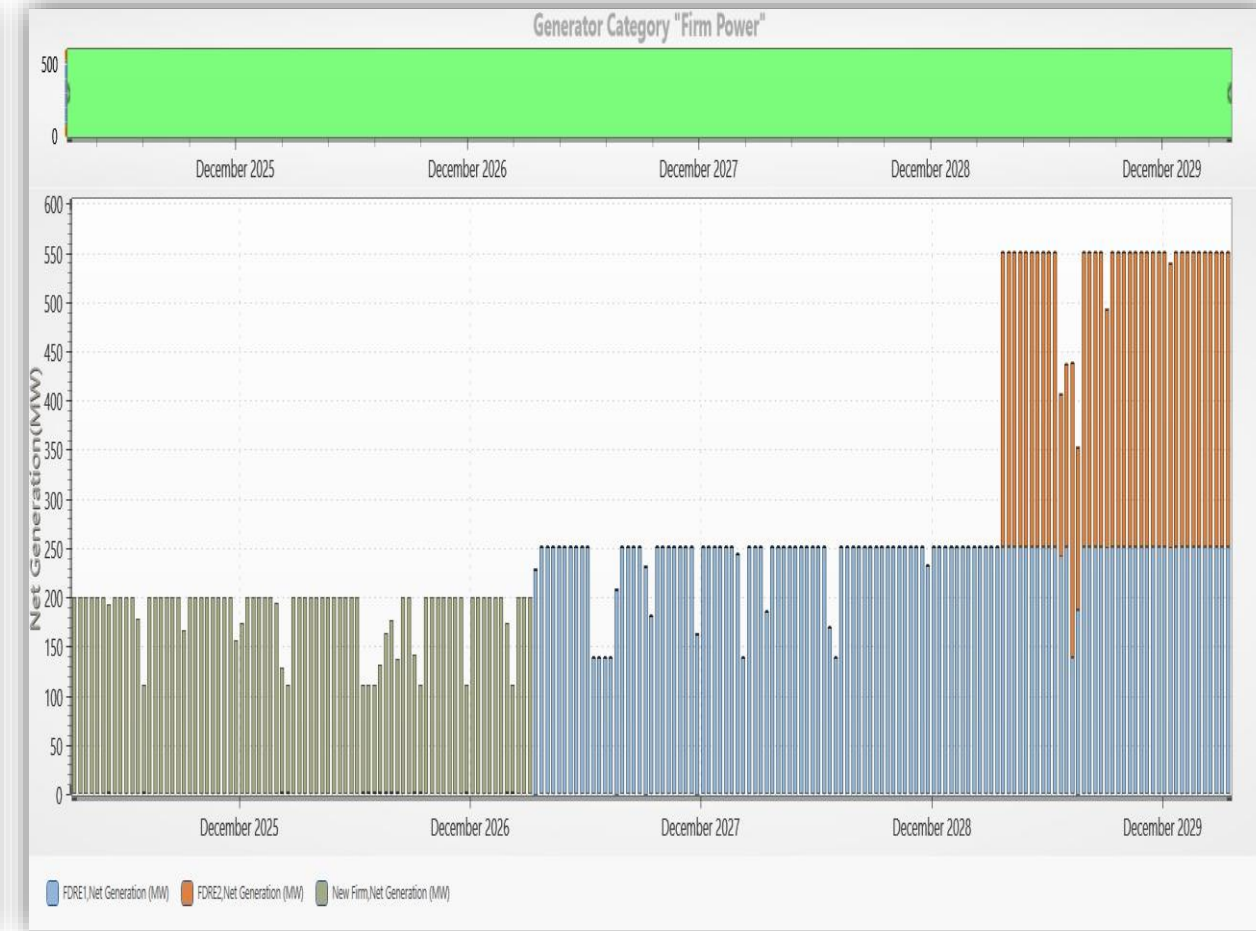
2. Generation Resource Planning



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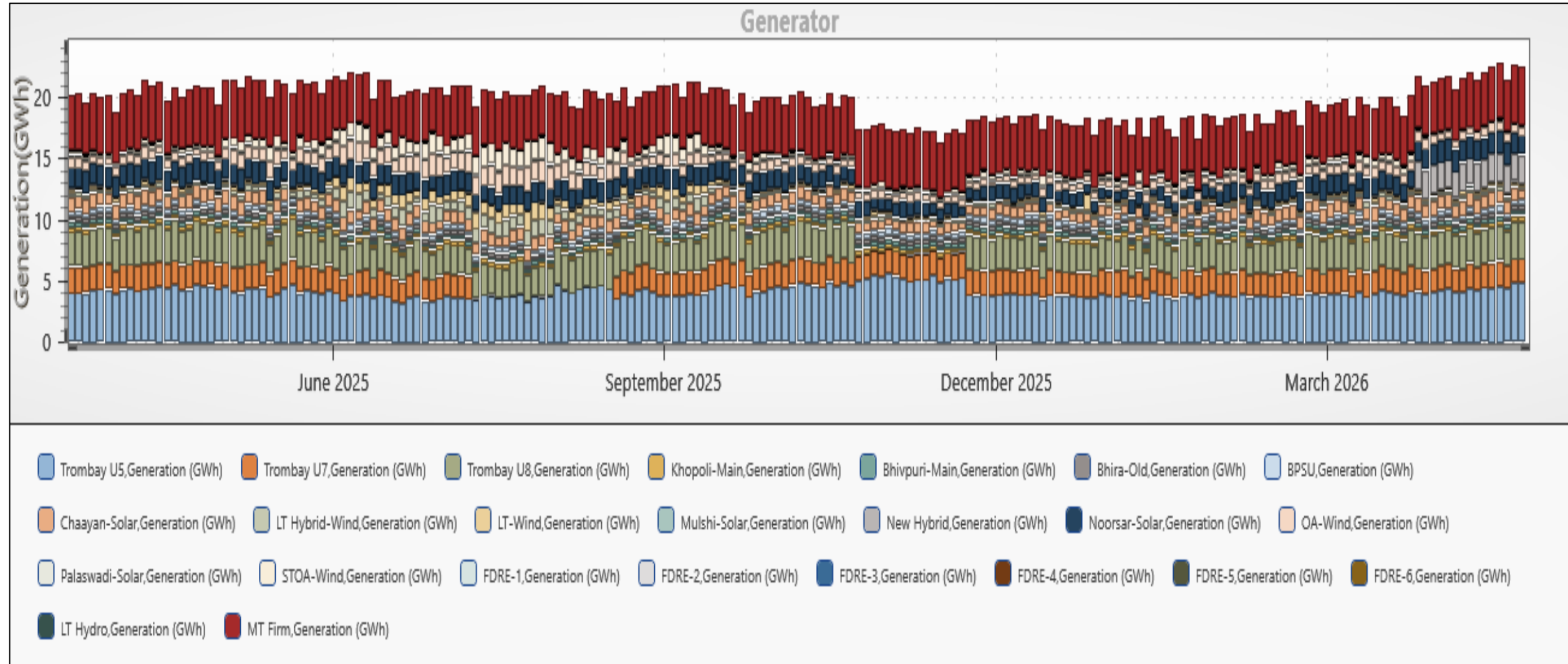


Net Un-served Hourly Demand



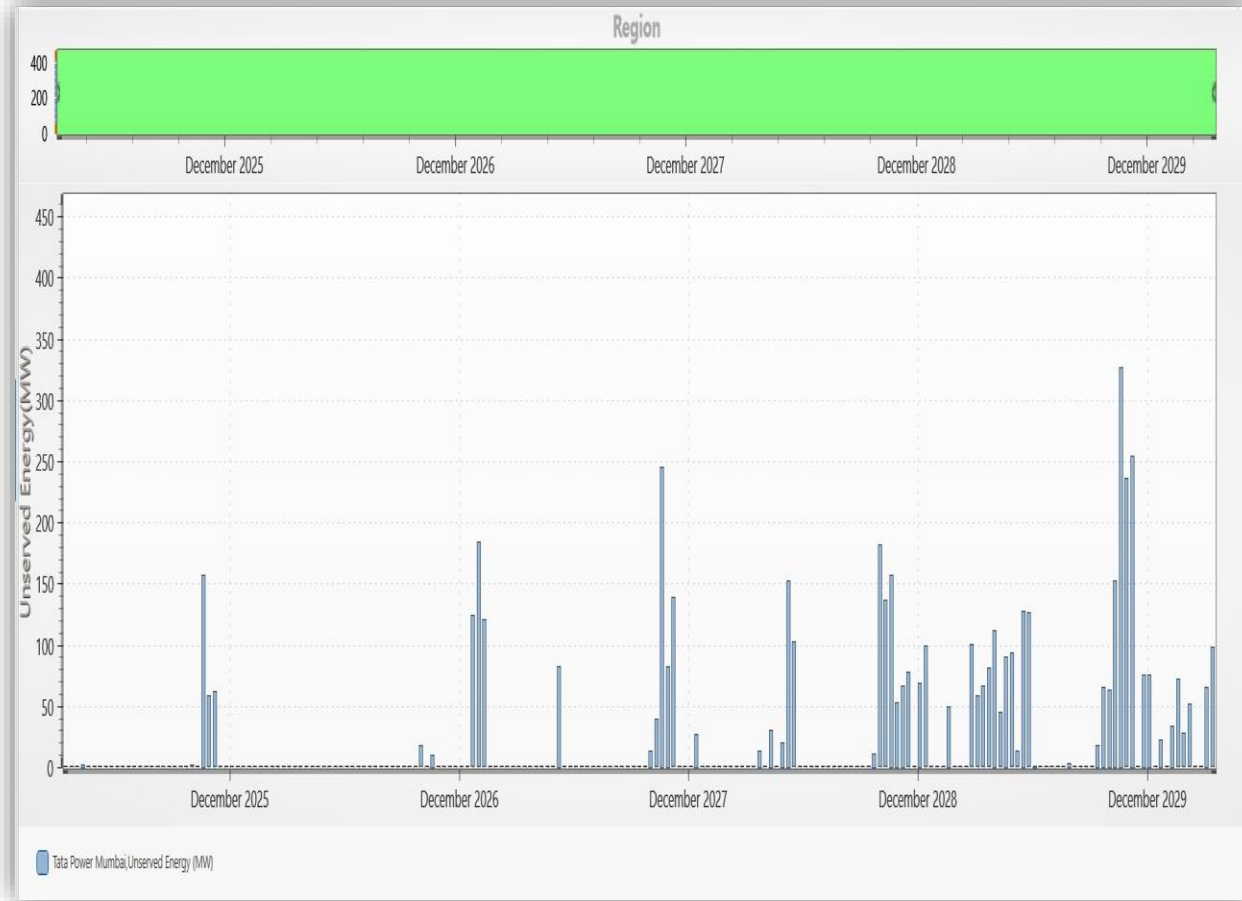
Incremental Capacities Proposed

3. Procurement Planning

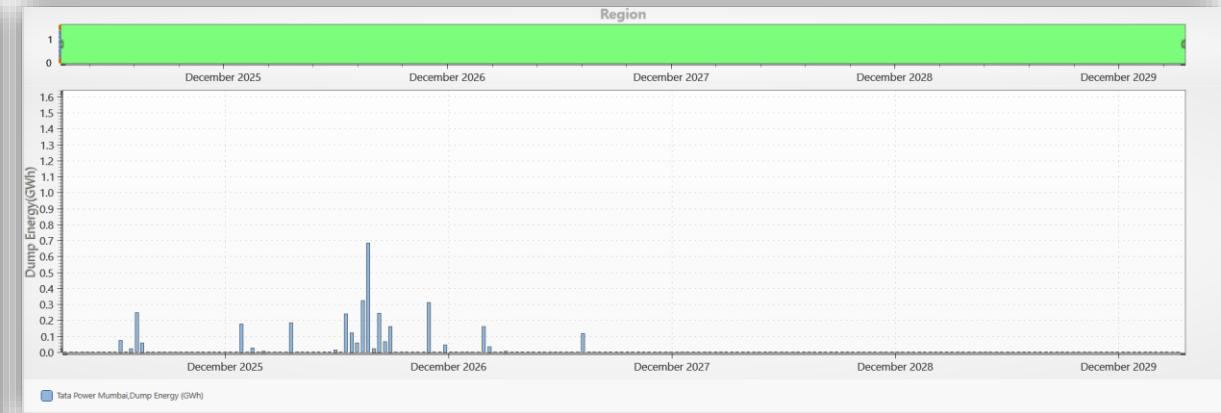




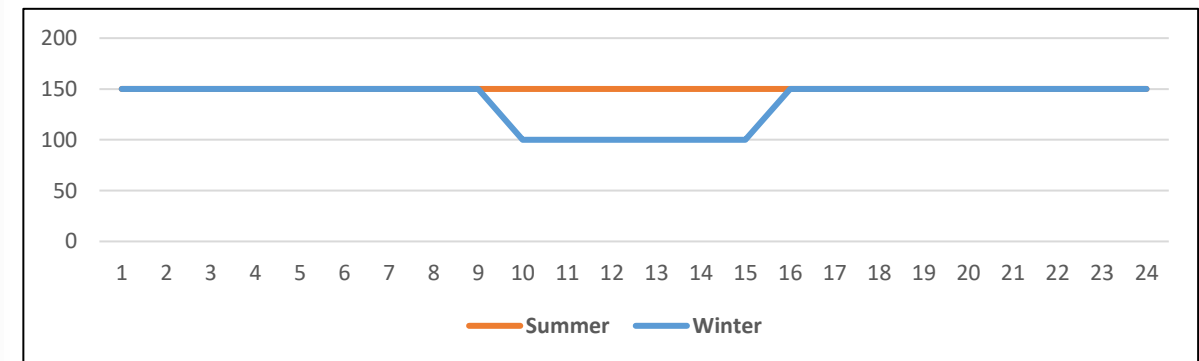
3. Procurement Planning



Net Un-served Hourly Demand



Dump Energy



Dispatch Requirement Of Proposed Source



As Per Net Load Approach

FY	Solar CC	Wind CC
FY20	42%	15%
FY21	49%	10%
FY22	14%	11%
FY23	19%	20%
FY24	6%	20%
Average CC	26%	15%

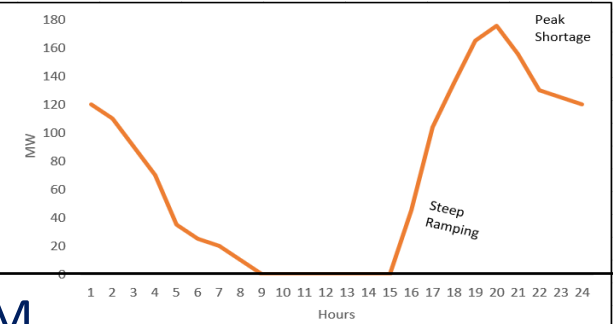
As Per CEA Draft Discussion Paper

Period	Solar	Wind
Solar Hours	51%	22%
Non-Solar Hours	0%	17%

Discussion Points



Forecasting of Changeover Sales	Consumer's own, independent utility N
Category-wise sales for Non-Compliance Charges	Mandatory to project category-wise sales Difficult to contract thermal on LT, as RPO
Incremental Capacities	Flexible resources required, in cases of sudden drop/rise in demand Hourly intra-state measurement is challenging Though RTG storage solutions are available, same will take some time Some of the most power may be offered difficult to derive optimal to settle technically and financially May be incorporated in a framework suitably Industry should inefficient resource lock-ins
	Power Exchanges may be included with some ceiling
	Standard guidelines may be issued for uniformity



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Thank You!

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