

Generation and Reservoirs Statistics

December 22, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 22, 2024

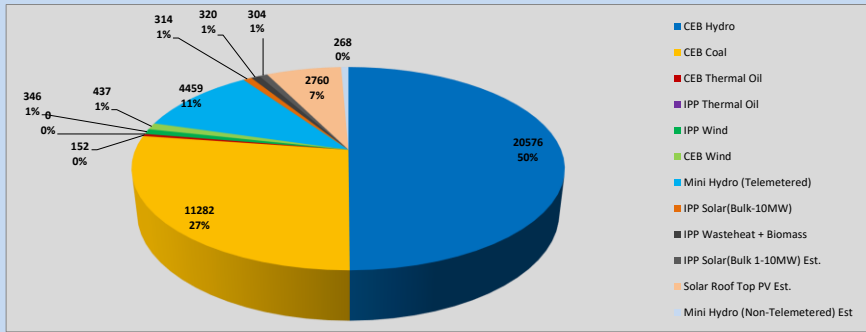


Table 01

	Generation (MWh)
CEB Hydro	20,576
CEB Coal	11,282
CEB Thermal Oil	152
IPP Thermal Oil	-
IPP Wind	346
CEB Wind	437
Mini Hydro (Telemetered)	4,459
IPP Solar (Bulk)	314
IPP Waste heat + Biomass	320
Total Generation (Excluding estimated figures)	37,886
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	268
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	41,218

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	519	53.83%
CEB Coal	208	21.61%
CEB Thermal Oil	12	1.22%
IPP Thermal	21	2.19%
IPP Wind	12	1.24%
CEB Wind	13	1.32%
Mini Hydro *	101	10.45%
IPP Solar *	71	7.33%
IPP Waste heat + BMP	8	0.82%
Total	964	

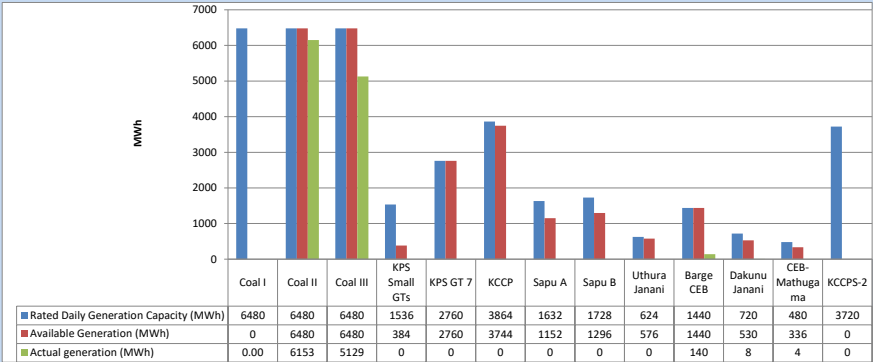
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,257	32.41%
CEB Coal	5,359	33.03%
CEB Thermal Oil	1,524	9.39%
IPP Thermal	757	4.66%
IPP Wind	395	2.44%
CEB Wind	378	2.33%
Mini Hydro *	1,355	8.35%
IPP Solar *	1,043	6.43%
IPP Waste heat	154	0.95%
Total	16,222	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 22, 2024

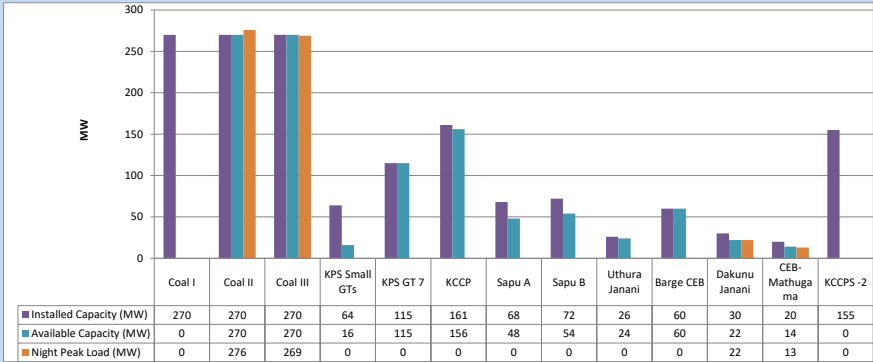


Available Generation is estimated based on plant availability at 6.00am on

December 23, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 22, 2024

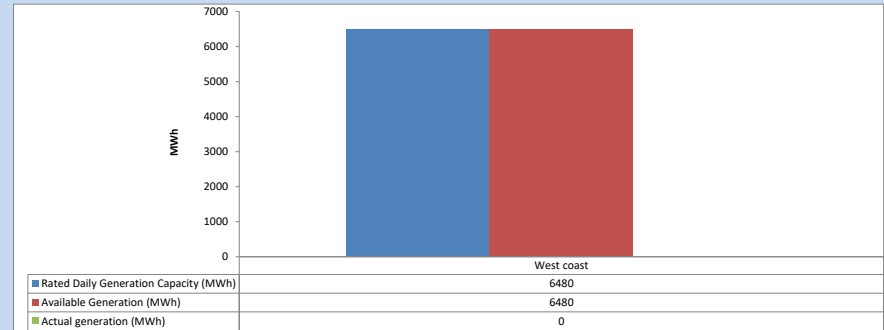


Plant availability is recorded at 6.00 am on

December 23, 2024

1.4 IPP owned Thermal Plant Dispatch

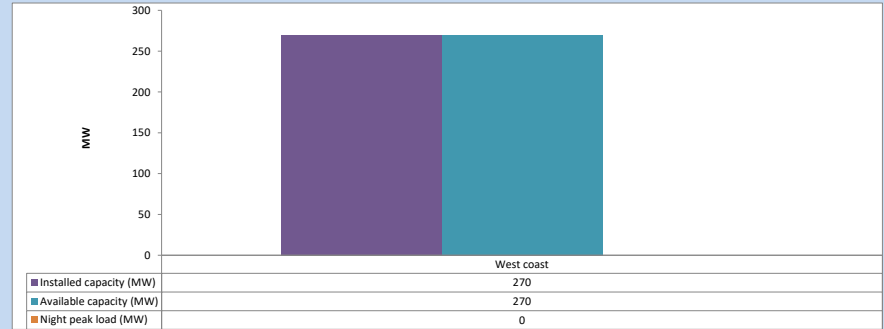
December 22, 2024



Available Generation is estimated based on plant availability at 6.00am on

December 23, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

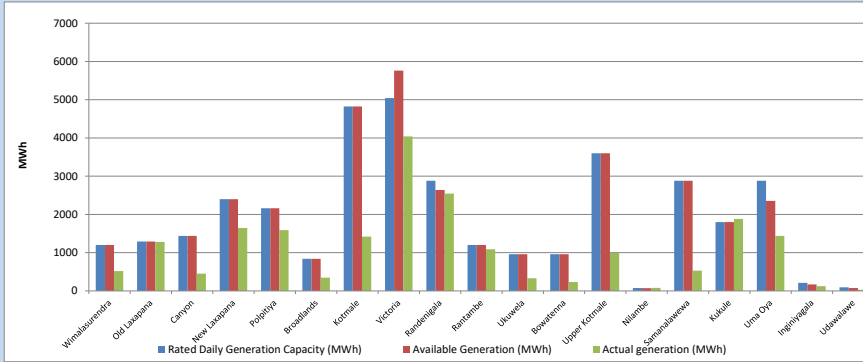


Plant availability is recorded at 6.00 am on

December 23, 2024

1.6 Major Hydro Plant Dispatch

December 22, 2024

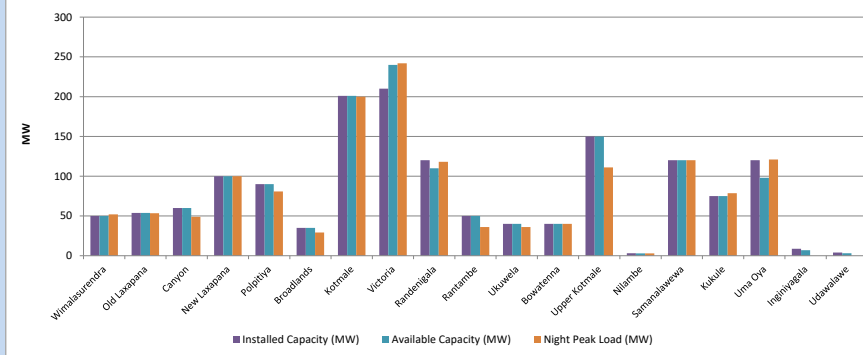


Available Generation is estimated based on plant availability at 6.00am on

December 23, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 22, 2024



Plant availability is recorded at 6.00 am on

December 23, 2024

1.8 Summary of Major Plant performance

December 22, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	519
Old Laxapana	54	54	54	1,280
Canyon	60	60	49	452
New Laxapana	100	100	100	1,645
Polpitiya	90	90	81	1,590
Broadlands	35	35	29	347
Kotmale	201	201	200	1,420
Victoria	210	240	242	4,040
Randenigala	120	110	118	2,546
Rantambe	50	50	36	1,089
Ukuwela	40	40	36	330
Bowatenna	40	40	40	234
Upper Kotmale	150	150	111	997
Nilambe	3	3	3	78
Samanalawewa	120	120	120	532
Kukule	75	75	79	1,881
Uma Oya	120	98	121	1,439
Inginigala	9	7	0	126
Udawalawe	4	3	0	32
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	276	6,153
Puttalam Coal III	270	270	269	5,129
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	0	0
Barge CEB	60	60	0	140
CEB-Hambantota	30	22	22	8
CEB-Mathugama	20	14	13	4
KCCPS-2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,845	2,285	37,887

Note-

Plant availability is the availability recorded at 6 am on

December 23, 2024

1.9 Contribution to the Night Peak in MW

December 22, 2024

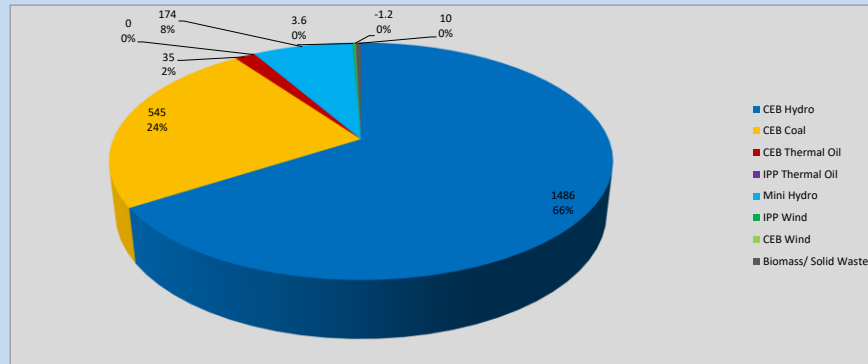


Table 05

CEB Hydro	1,486	MW
CEB Coal	545	MW
CEB Thermal Oil	35	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	174	MW
IPP Wind	3.6	MW
CEB Wind	-1.2	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

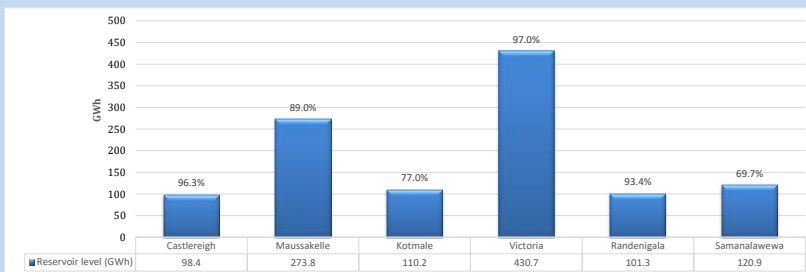
Table 06

Night Peak*	2,300	MW
Day Peak Maximum Demand	2,235	MW
Day Peak Minimum Demand	1,674	MW
Off Peak Minimum Demand	1,424	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

1.10 Reservoir Levels -

as at 06.00 Hr on December 23, 2024



Total Reservoir Level
% of Total capacity

1,135 GWh
88.8%

1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

December 22, 2024

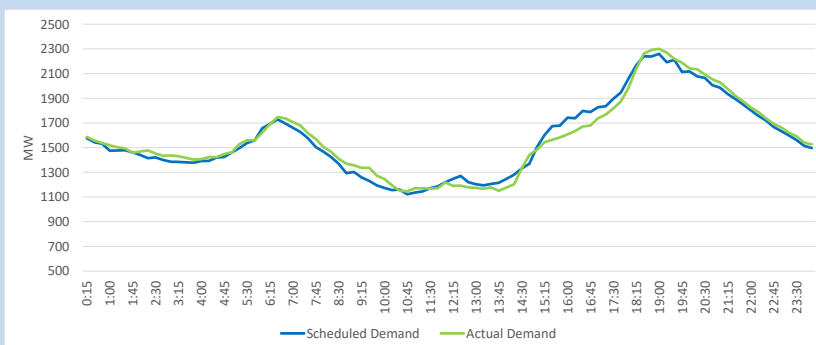
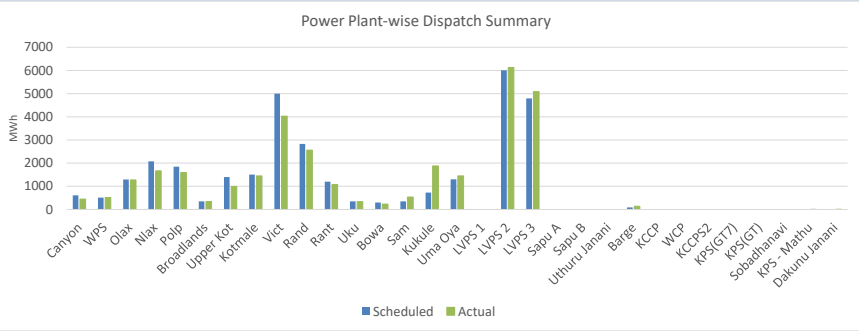


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	21,663	20,576	(1,087)
CEB Coal	10,802	11,282	480
CEB Thermal Oil	88	152	64
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	5,088	5,876	788
Total	37,641	37,886	245

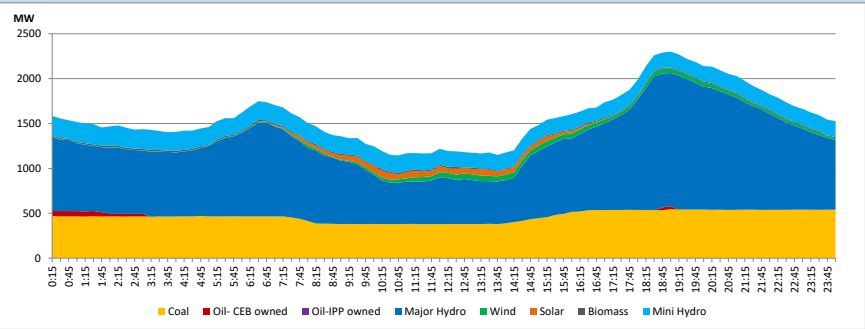
1.12 Power Plant-wise Dispatch Summary

December 22, 2024



1.13 Daily Load Curve

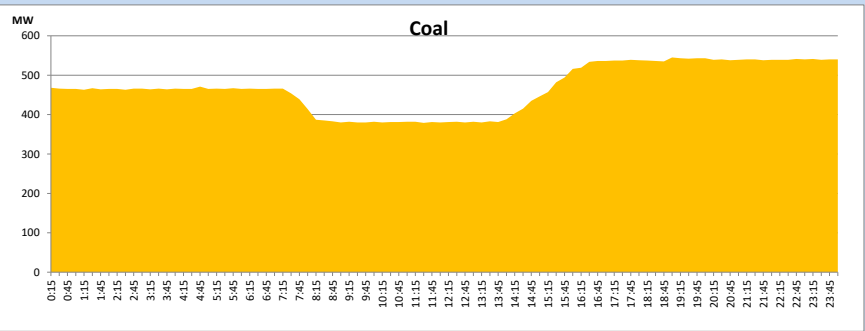
December 22, 2024



Solar and wind data is based on Telemetered Power Stations only

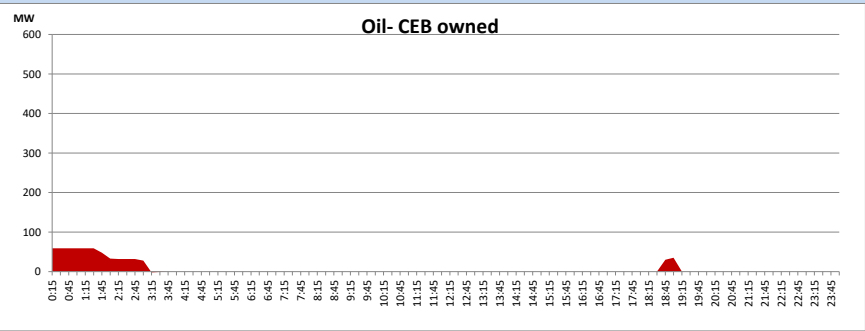
Coal Generation during

December 22, 2024



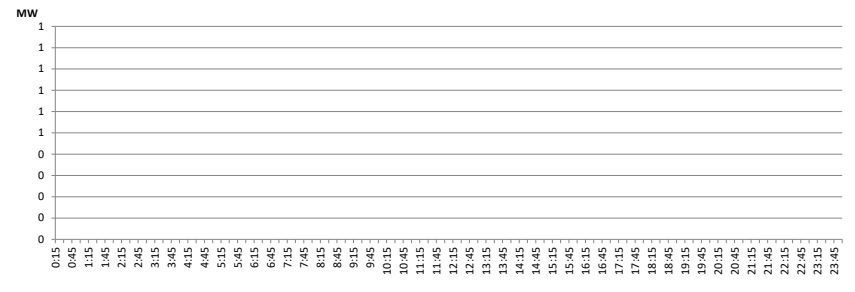
CEB Oil Plant Generation during

December 22, 2024



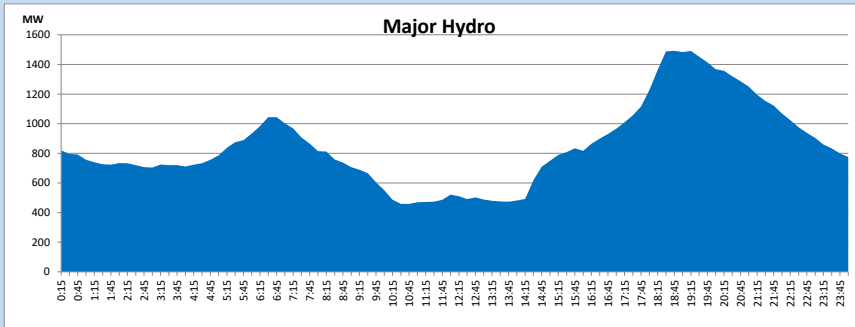
IPP Oil Plant Generation during

December 22, 2024



Major Hydro Generation during

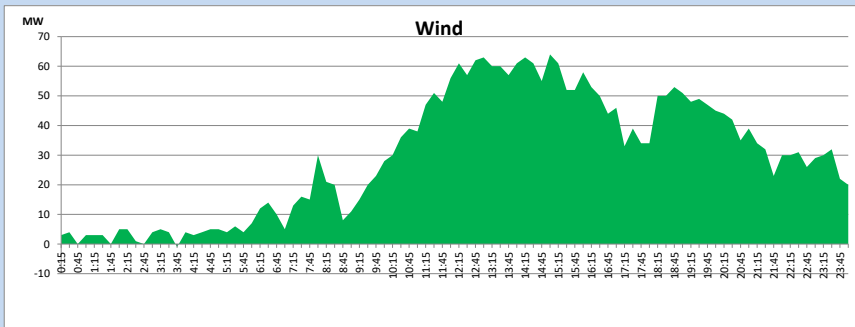
December 22, 2024



Wind Generation during

December 22, 2024

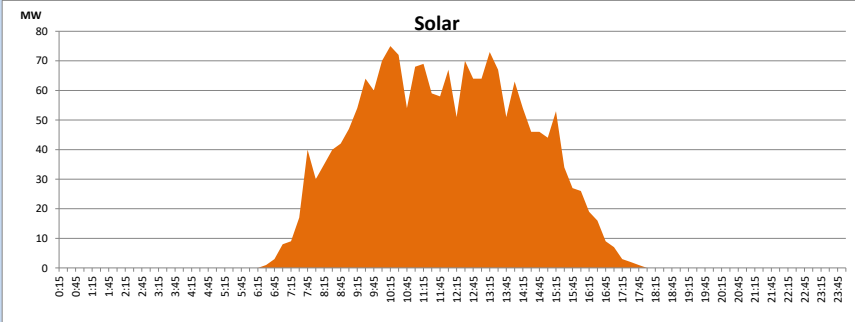
Based on Telemetered Power Stations only



Solar Generation during

December 22, 2024

Based on Telemetered Power Stations only

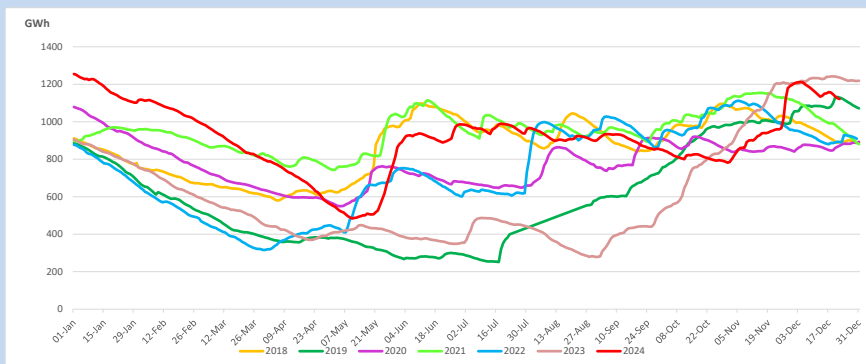


1.14 Major Incidents reported during the day

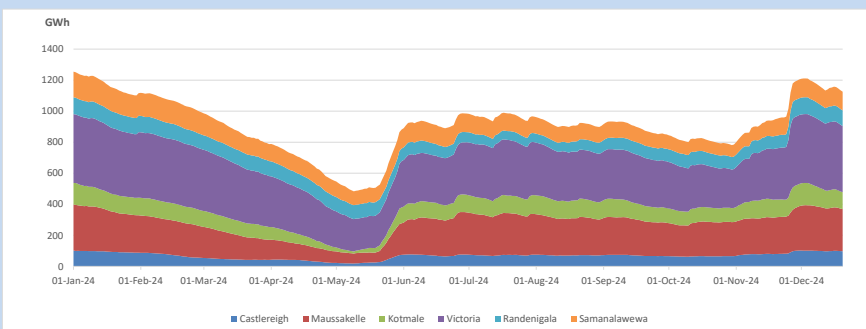
December 22, 2024

- 1) Biyagama 220/132/33kV T/F 02 tripped only from the 132kV end at 13:50hrs due to the operation of SEF protection. The T/F is yet to be normalized.
- 2) Uma Oya unit 02 tripped at 13:58hrs, rejecting 30MW from the system due to a stator winding RTD (Resistance Temperature Detector) fault. The unit resumed generation at 16:46hrs.

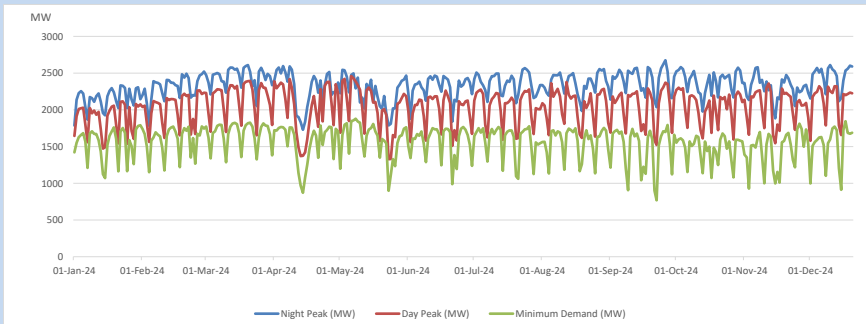
2. Comparison of Total Reservoir Storage Levels with Past Years



3. Variation of Major Hydro Reservoir Levels in the current year (GWh)

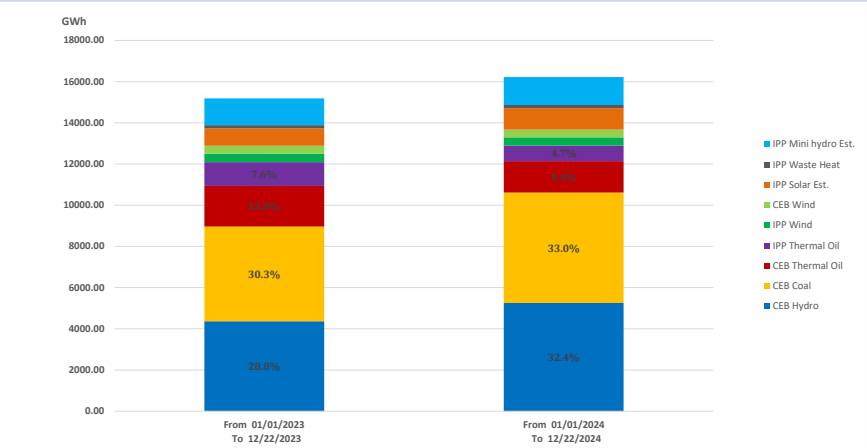


4. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

5. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2023 To 12/22/2023 15,188 GWh
From 01/01/2024 To 12/22/2024 16,222 GWh
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd energy due to power cuts has been excluded in 2023

Thermal Power Plant - Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
Sobadhanavi	Auto Diesel

6. Installed System Capcity

Table 09

	Installed Capacity (MW)
CEB Hydro	1,531
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	482
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities