

Generation and Reservoirs Statistics

December 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 3, 2024

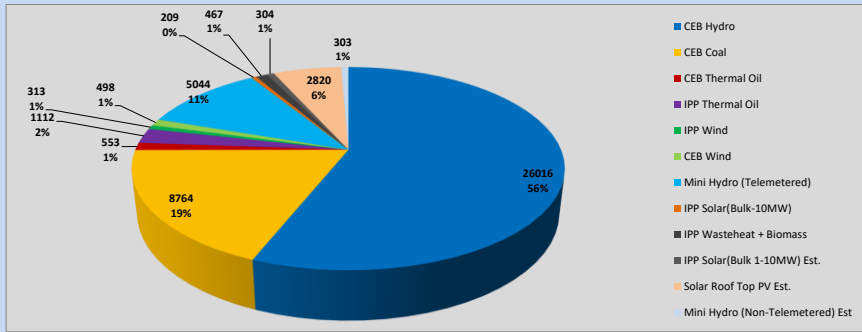


Table 01

	Generation (MWh)
CEB Hydro	26,016
CEB Coal	8,764
CEB Thermal Oil	553
IPP Thermal Oil	1,112
IPP Wind	313
CEB Wind	498
Mini Hydro (Telemetered)	5,044
IPP Solar (Bulk)	209
IPP Waste heat + Biomass	467
Total Generation (Excluding estimated figures)	42,976
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	303
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	46,403

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	66	51.25%
CEB Coal	25	19.53%
CEB Thermal Oil	1	0.90%
IPP Thermal	1	0.86%
IPP Wind	4	2.98%
CEB Wind	3	2.18%
Mini Hydro *	17	13.29%
IPP Solar *	10	7.88%
IPP Waste heat + BMP	1	1.12%
Total	129	

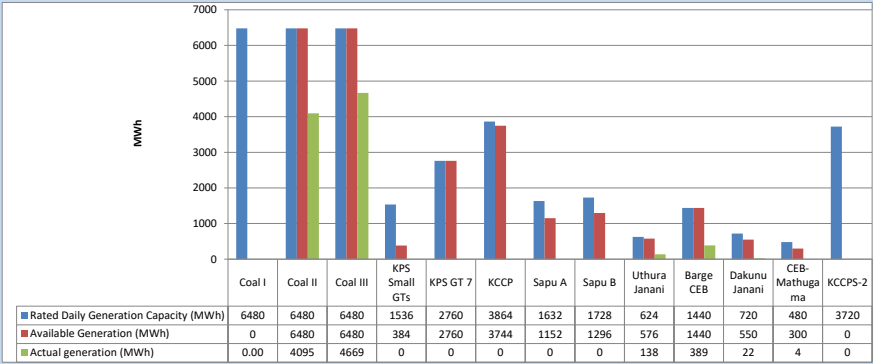
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,804	31.22%
CEB Coal	5,176	33.64%
CEB Thermal Oil	1,513	9.83%
IPP Thermal	737	4.79%
IPP Wind	387	2.52%
CEB Wind	368	2.39%
Mini Hydro *	1,272	8.27%
IPP Solar *	982	6.38%
IPP Waste heat	147	0.96%
Total	15,387	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 3, 2024

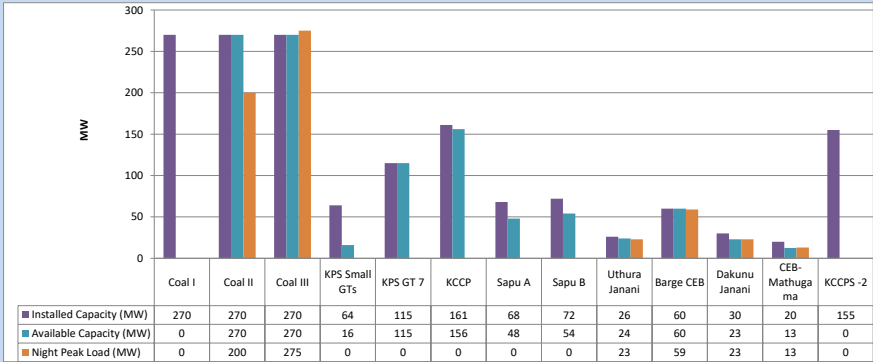


Available Generation is estimated based on plant availability at 6.00am on

December 4, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 3, 2024

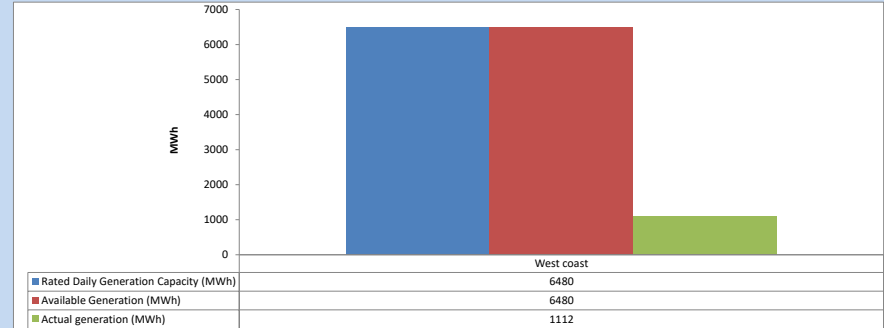


Plant availability is recorded at 6.00 am on

December 4, 2024

1.4 IPP owned Thermal Plant Dispatch

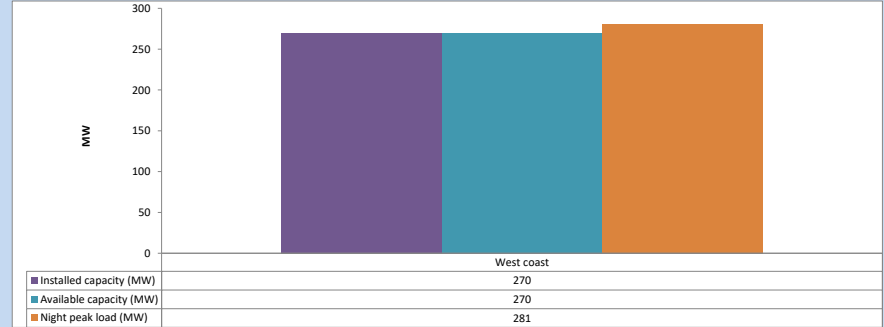
December 3, 2024



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

December 4, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

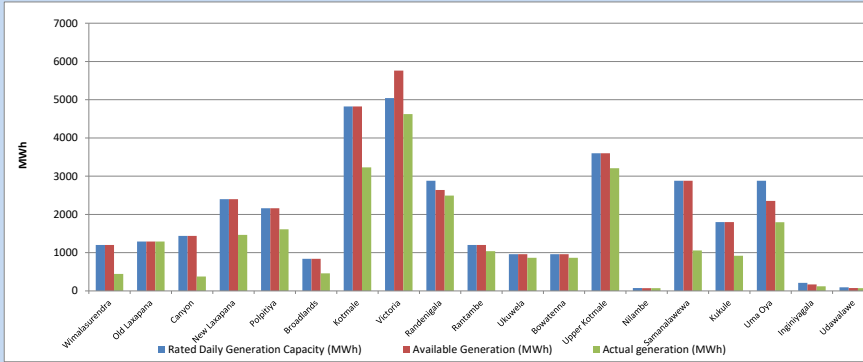


Plant availability is recorded at 6.00 am on

December 4, 2024

1.6 Major Hydro Plant Dispatch

December 3, 2024

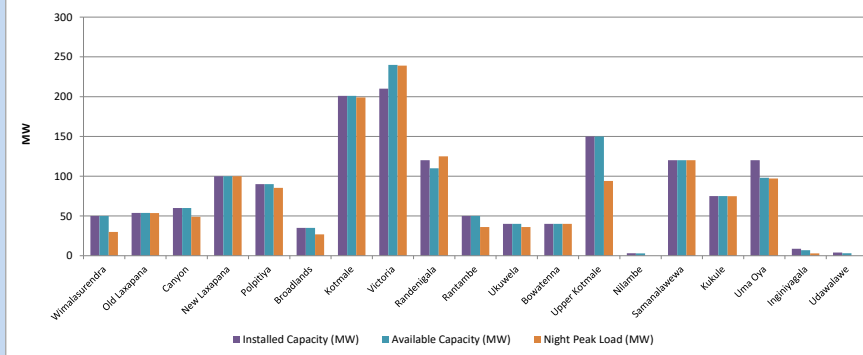


Available Generation is estimated based on plant availability at 6.00am on

December 4, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 3, 2024



Plant availability is recorded at 6.00 am on

December 4, 2024

1.8 Summary of Major Plant performance

December 3, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	446
Old Laxapana	54	54	54	1,293
Canyon	60	60	49	376
New Laxapana	100	100	100	1,463
Polpitiya	90	90	85	1,610
Broadlands	35	35	27	461
Kotmale	201	201	199	3,230
Victoria	210	240	239	4,625
Randenigala	120	110	125	2,492
Rantambe	50	50	36	1,041
Ukuwela	40	40	36	865
Bowatenna	40	40	40	866
Upper Kotmale	150	150	94	3,208
Nilambe	3	3	0	72
Samanalawewa	120	120	120	1,058
Kukule	75	75	75	919
Uma Oya	120	98	97	1,797
Inginigala	9	7	3	121
Udawalawe	4	3	0	73
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	200	4,095
Puttalam Coal III	270	270	275	4,669
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	23	138
Barge CEB	60	60	59	389
CEB-Hambantota	30	23	23	22
CEB-Mathugama	20	13	13	4
KCCPS-2	155	0	0	0
West Coast	270	270	281	1,112
Sobadhanavi	220	212	0	0
Total	3,602	2,844	2,504	42,976

Note-

Plant availability is the availability recorded at 6 am on

December 4, 2024

1.9 Contribution to the Night Peak in MW

December 3, 2024

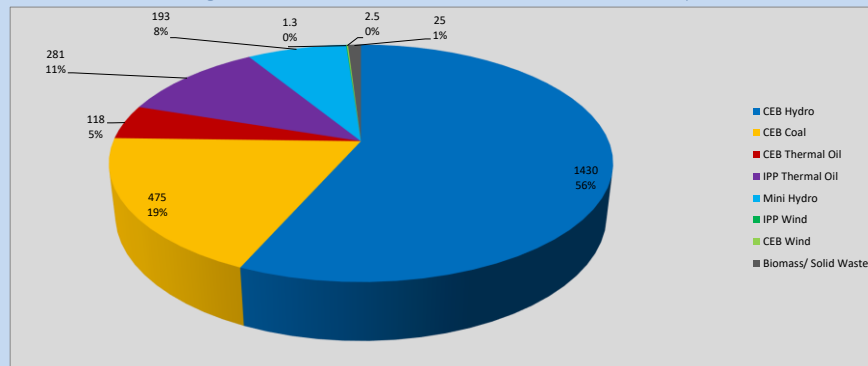


Table 05

CEB Hydro	1430	MW
CEB Coal	475	MW
CEB Thermal Oil	118	MW
IPP Thermal Oil	281	MW
Mini Hydro (Telemetered)	193	MW
IPP Wind	1.3	MW
CEB Wind	2.5	MW
Biomass/ Solid Waste	25	MW

Recorded Peak Demand Data

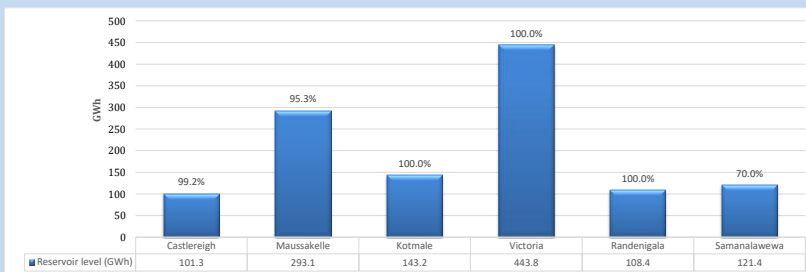
Table 06

Night Peak*	2,525	MW
Day Peak Maximum Demand	2,225	MW
Day Peak Minimum Demand	1,562	MW
Off Peak Minimum Demand	1,352	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 4, 2024



Total Reservoir Level
% of Total capacity

1211.2 GWh
94.7%

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

December 3, 2024

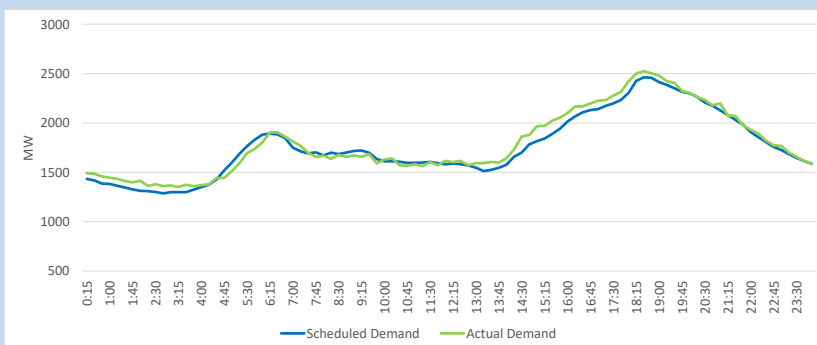
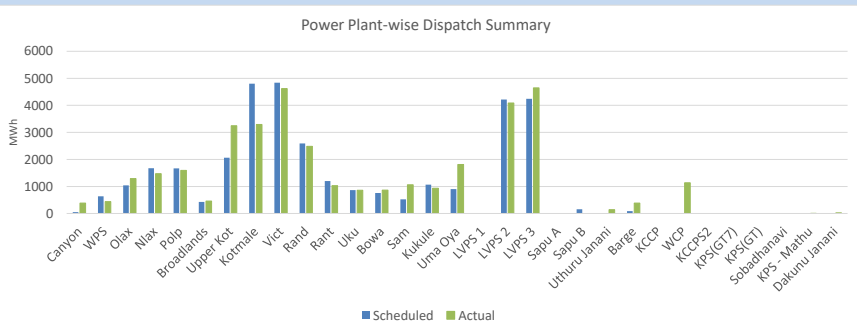


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,101	26,016	915
CEB Coal	8,458	8,764	306
CEB Thermal Oil	261	553	292
IPP Thermal Oil	-	1,112	1,112
NCRE (excluding non telemetered power plants)	8,414	6,531	(1,883)
Total	42,234	42,976	742

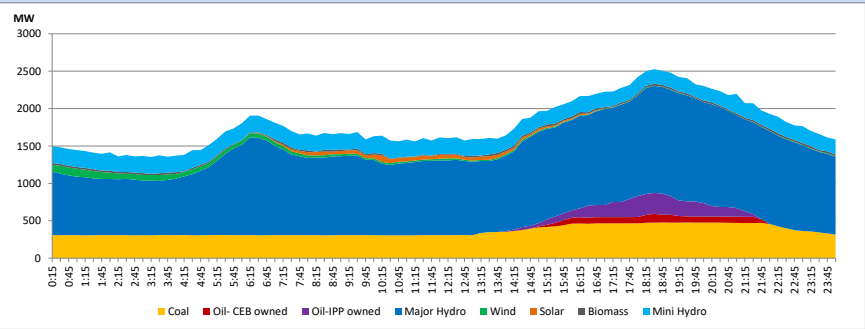
1.12 Power Plant-wise Dispatch Summary

December 3, 2024



1.13 Daily Load Curve

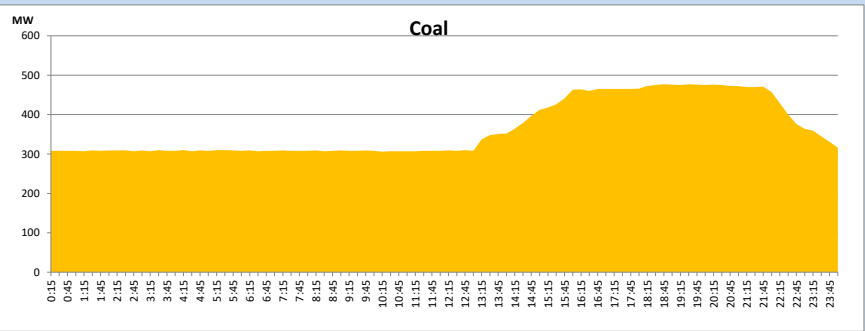
December 3, 2024



Solar and wind data is based on Telemetered Power Stations only

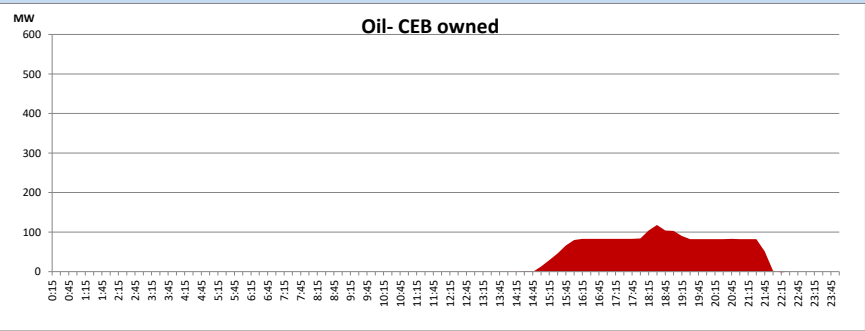
Coal Generation during

December 3, 2024



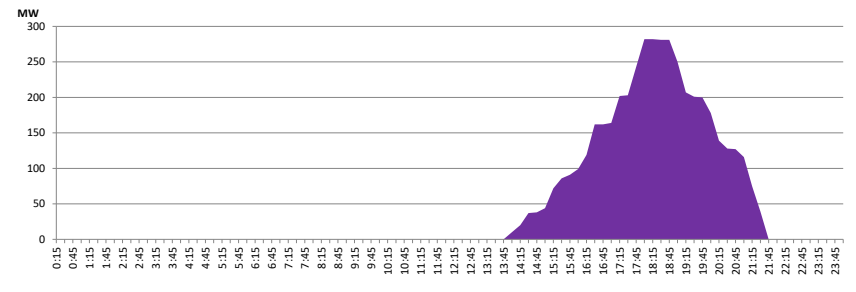
CEB Oil Plant Generation during

December 3, 2024



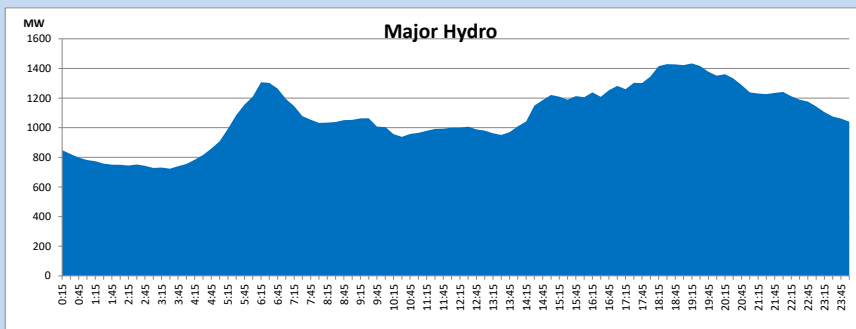
IPP Oil Plant Generation during

December 3, 2024



Major Hydro Generation during

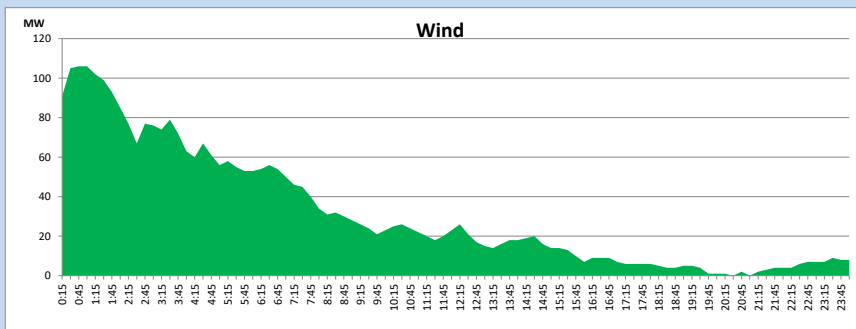
December 3, 2024



Wind Generation during

December 3, 2024

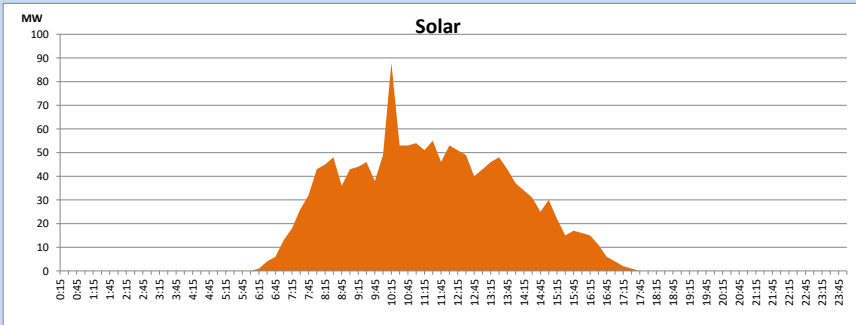
Based on Telemetered Power Stations only



Solar Generation during

December 3, 2024

Based on Telemetered Power Stations only

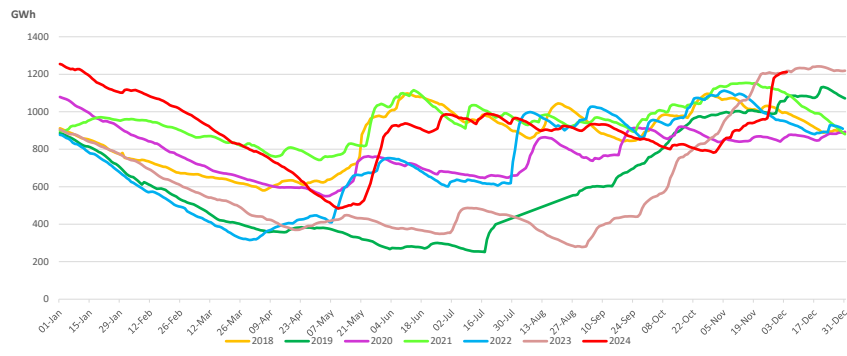


1.14 Major Incidents reported during the day

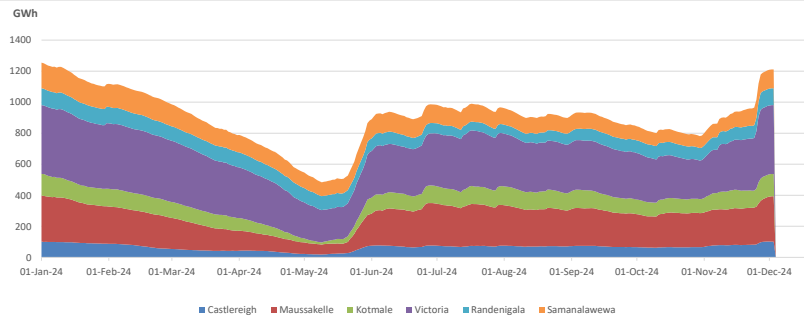
December 3, 2024

- 1) Norton pond spilling stopped at 08:00hrs.
- 2) Victoria reservoir spilling stopped at 07:58hrs, started again at 22:37hrs and spilling stopped at 02:02hrs (04.12.2024).
- 3) Randenigala reservoir spilling started at 03:17hrs (04.12.2024) and spilling stopped at 05:07hrs (04.12.2024).
- 4) Rantambe pond spilling started at 03:38hrs (04.12.2024) and spilling stopped at 05:14hrs (04.12.2024).

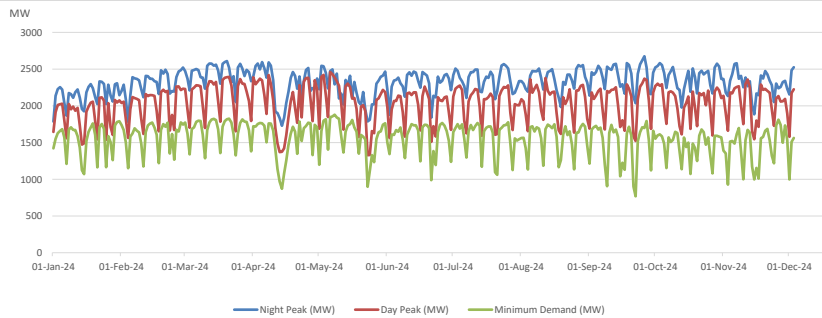
2. Comparison of Total Reservoir Storage Levels with Past Years



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

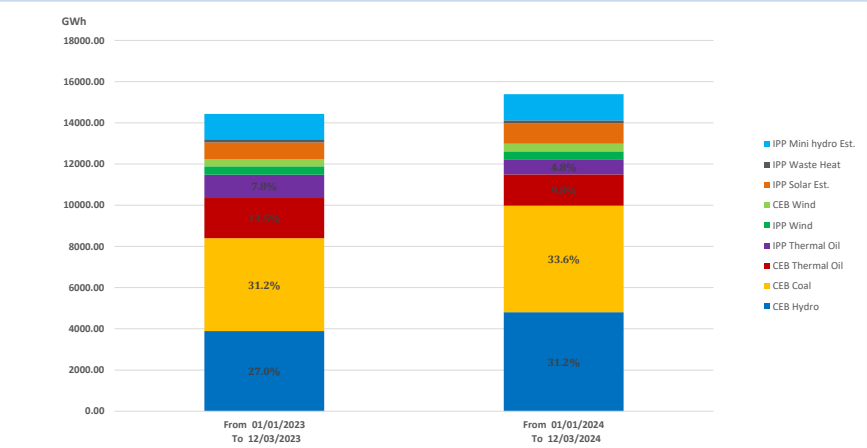


4. Variation of Demand during the current year



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 12/03/2023 14433 GWh
From 01/01/2024 To 12/03/2024 15387 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	1531
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