

Generation and Reservoirs Statistics

November 25, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 25, 2024

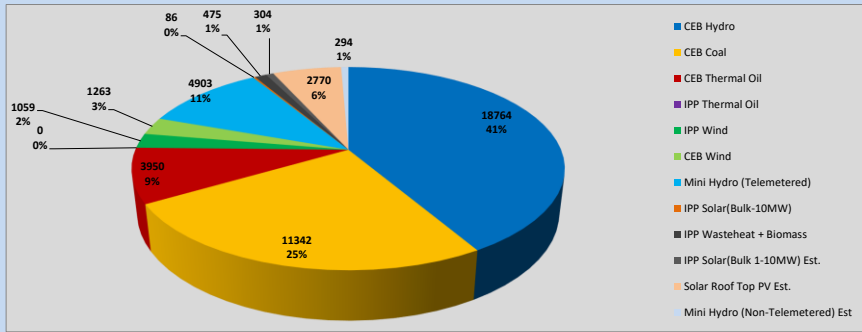


Table 01

	Generation (MWh)
CEB Hydro	18,764
CEB Coal	11,342
CEB Thermal Oil	3,950
IPP Thermal Oil	-
IPP Wind	1,059
CEB Wind	1,263
Mini Hydro (Telemetered)	4,903
IPP Solar (Bulk)	86
IPP Waste heat + Biomass	475
Total Generation (Excluding estimated figures)	41,842
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	294
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	45,210

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	383	34.94%
CEB Coal	309	28.22%
CEB Thermal Oil	111	10.08%
IPP Thermal	38	3.44%
IPP Wind	9	0.83%
CEB Wind	12	1.12%
Mini Hydro *	139	12.64%
IPP Solar *	84	7.69%
IPP Waste heat + BMP	11	1.04%
Total	1,096	

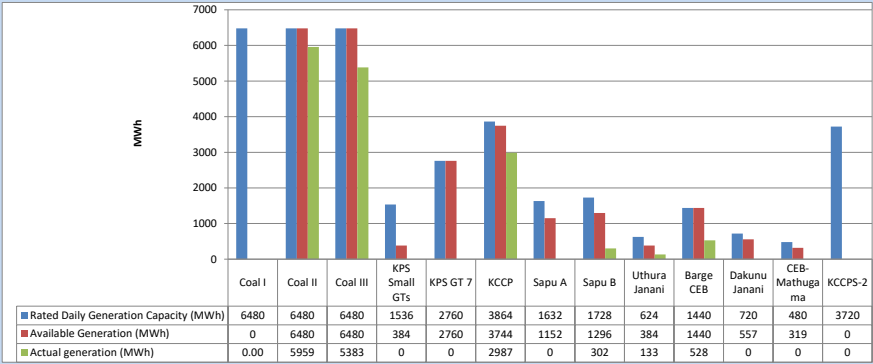
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,623	30.81%
CEB Coal	5,107	34.04%
CEB Thermal Oil	1,510	10.06%
IPP Thermal	735	4.90%
IPP Wind	385	2.57%
CEB Wind	360	2.40%
Mini Hydro *	1,208	8.05%
IPP Solar *	936	6.24%
IPP Waste heat	139	0.93%
Total	15,004	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 25, 2024

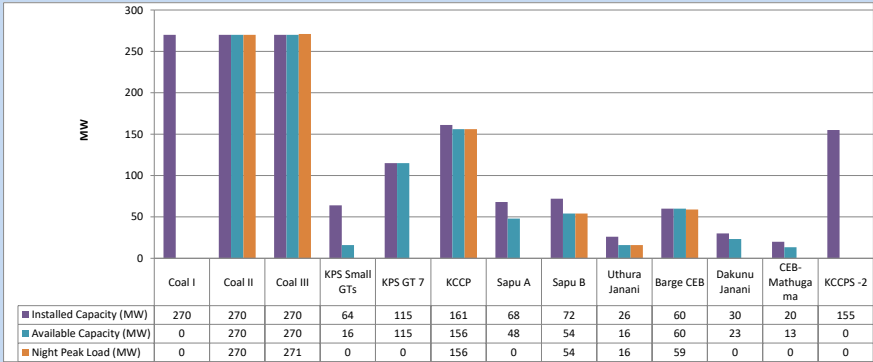


Available Generation is estimated based on plant availability at 6.00am on

November 26, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 25, 2024

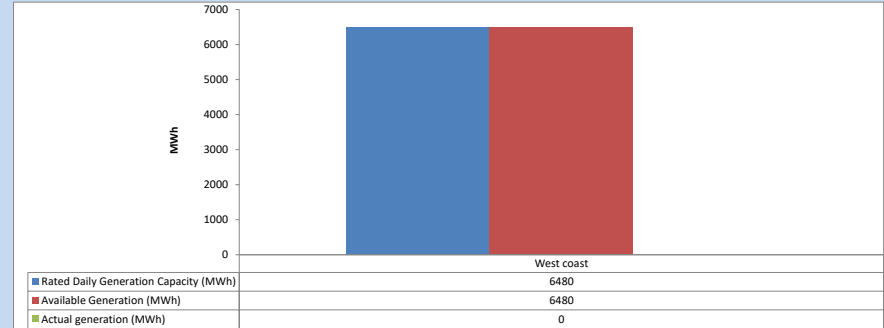


Plant availability is recorded at 6.00 am on

November 26, 2024

1.4 IPP owned Thermal Plant Dispatch

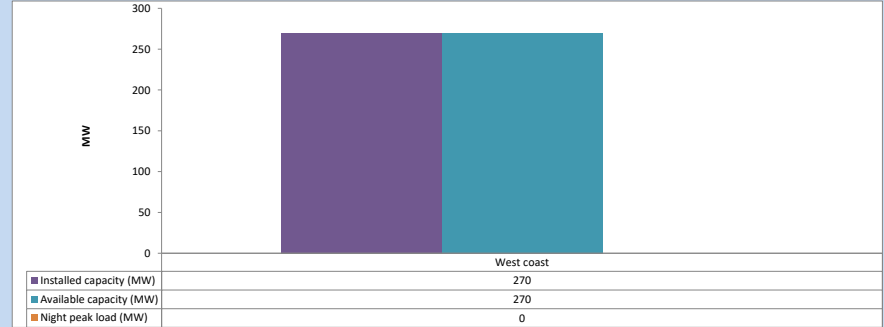
November 25, 2024



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

November 26, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

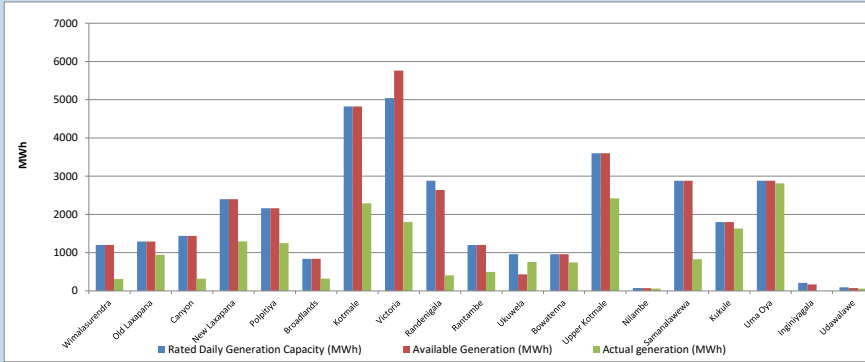


Plant availability is recorded at 6.00 am on

November 26, 2024

1.6 Major Hydro Plant Dispatch

November 25, 2024

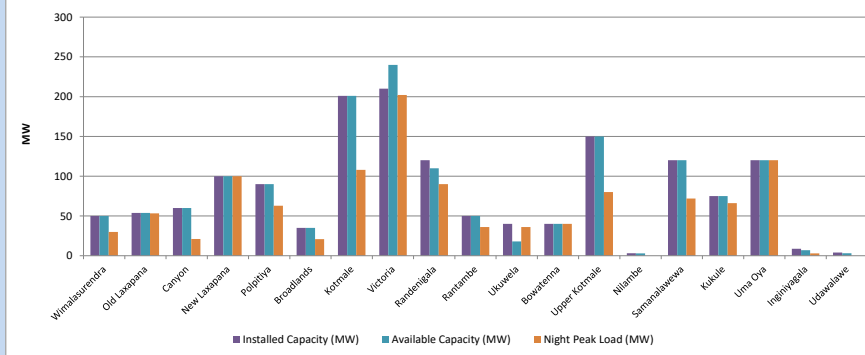


Available Generation is estimated based on plant availability at 6.00am on

November 26, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 25, 2024



Plant availability is recorded at 6.00 am on

November 26, 2024

1.8 Summary of Major Plant performance

November 25, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	312
Old Laxapana	54	54	53	945
Canyon	60	60	21	320
New Laxapana	100	100	100	1,297
Polpitiya	90	90	63	1,250
Broadlands	35	35	21	323
Kotmale	201	201	108	2,290
Victoria	210	240	202	1,805
Randenigala	120	110	90	406
Rantambe	50	50	36	497
Ukuwela	40	18	36	758
Bowatenna	40	40	40	747
Upper Kotmale	150	150	80	2,423
Nilambe	3	3	0	61
Samanalawewa	120	120	72	828
Kukule	75	75	66	1,632
Uma Oya	120	120	120	2,812
Inginigala	9	7	3	0
Udawalawe	4	3	0	59
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,959
Puttalam Coal III	270	270	271	5,383
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	156	2,987
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	54	302
Uthura Janani	26	16	16	133
Barge CEB	60	60	59	528
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	3,049	2,291	41,843

Note-

Plant availability is the availability recorded at 6 am on

November 26, 2024

1.9 Contribution to the Night Peak in MW

November 25, 2024

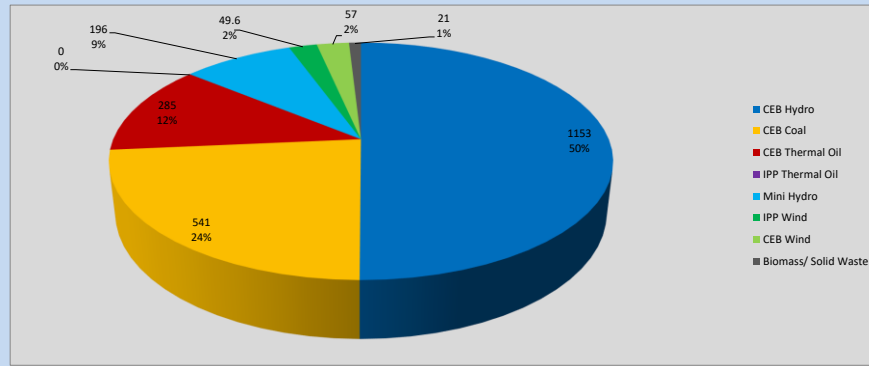


Table 05

CEB Hydro	1153	MW
CEB Coal	541	MW
CEB Thermal Oil	285	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	196	MW
IPP Wind	49.6	MW
CEB Wind	57	MW
Biomass/ Solid Waste	21	MW

Recorded Peak Demand Data

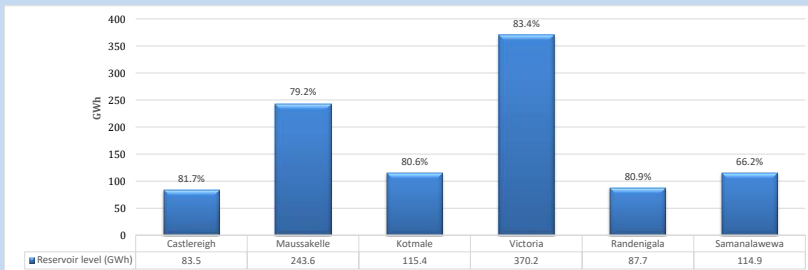
Table 06

Night Peak*	2,303	MW
Day Peak Maximum Demand	2,102	MW
Day Peak Minimum Demand	1,733	MW
Off Peak Minimum Demand	1,125	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 November 26, 2024



Total Reservoir Level
% of Total capacity

1015.3 GWh
79.4%

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

November 25, 2024

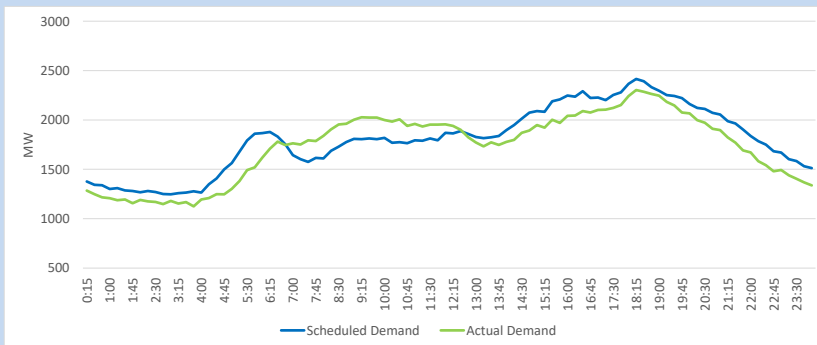
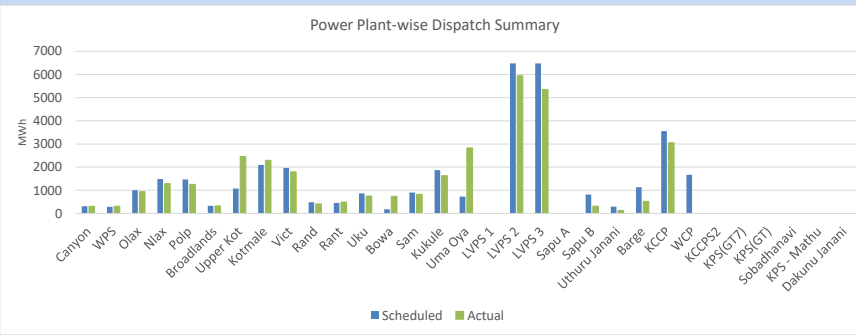


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,513	18,764	3,251
CEB Coal	12,960	11,342	(1,618)
CEB Thermal Oil	5,797	3,950	(1,847)
IPP Thermal Oil	1,665	-	(1,665)
NCRE (excluding non telemetered power plants)	7,311	7,786	475
Total	43,246	41,842	(1,404)

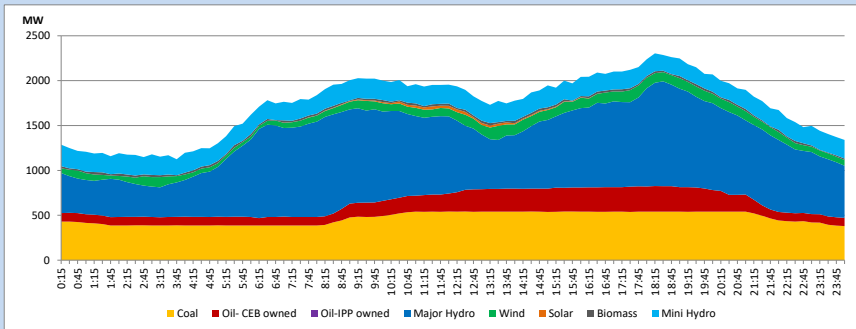
1.12 Power Plant-wise Dispatch Summary

November 25, 2024



1.13 Daily Load Curve

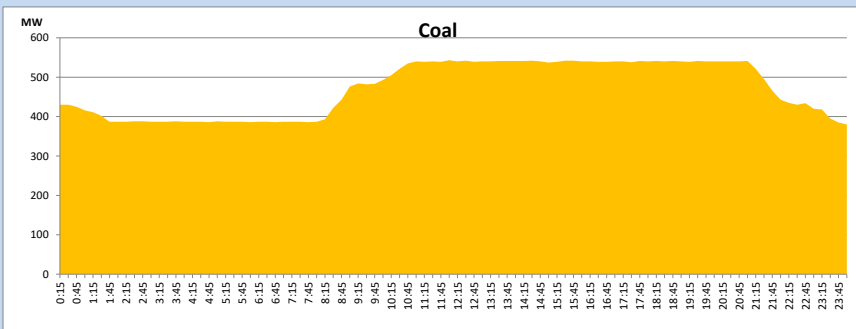
November 25, 2024



Solar and wind data is based on Telemetered Power Stations only

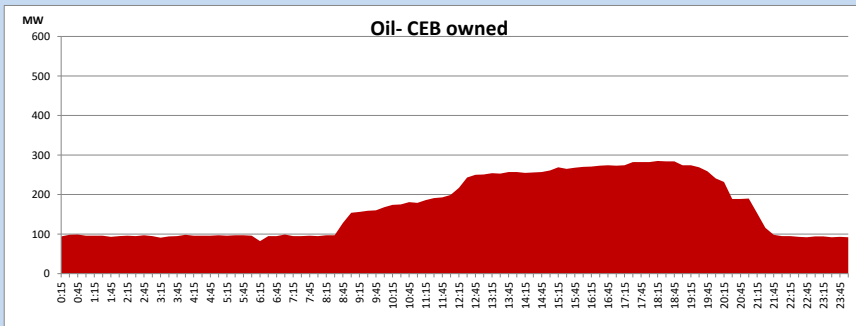
Coal Generation during

November 25, 2024



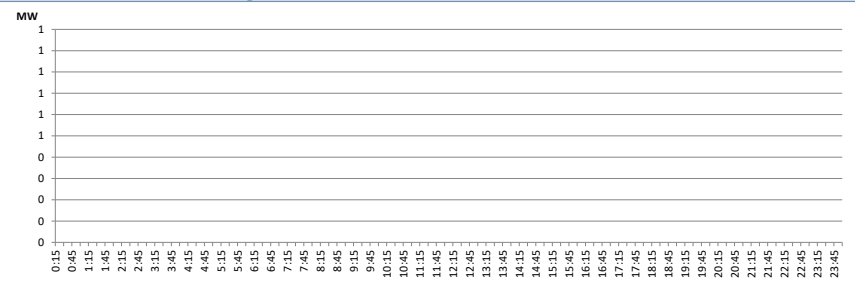
CEB Oil Plant Generation during

November 25, 2024



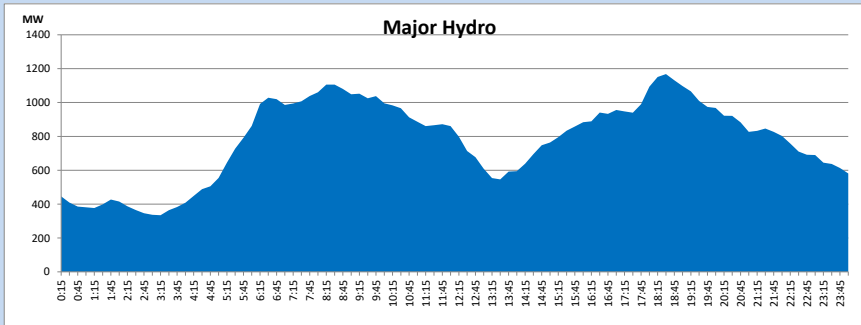
IPP Oil Plant Generation during

November 25, 2024



Major Hydro Generation during

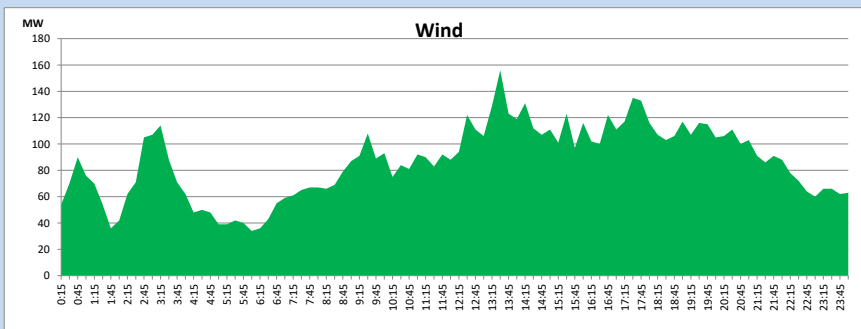
November 25, 2024



Wind Generation during

November 25, 2024

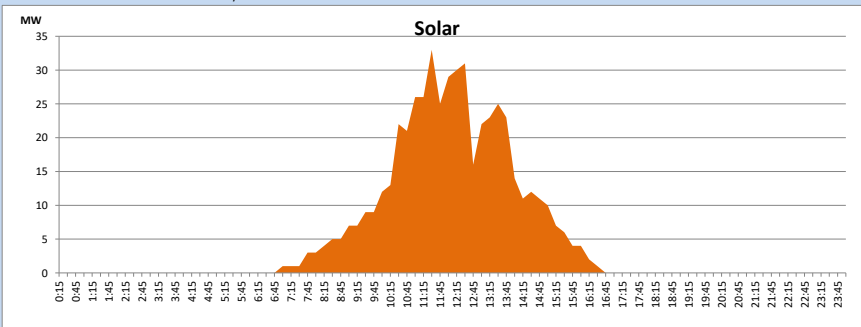
Based on Telemetered Power Stations only



Solar Generation during

November 25, 2024

Based on Telemetered Power Stations only

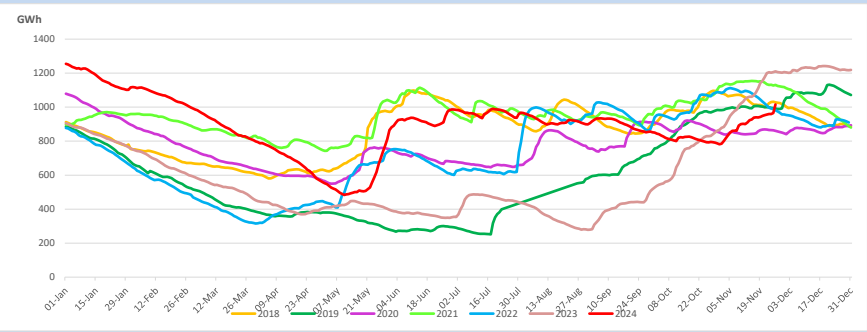


1.14 Major Incidents reported during the day

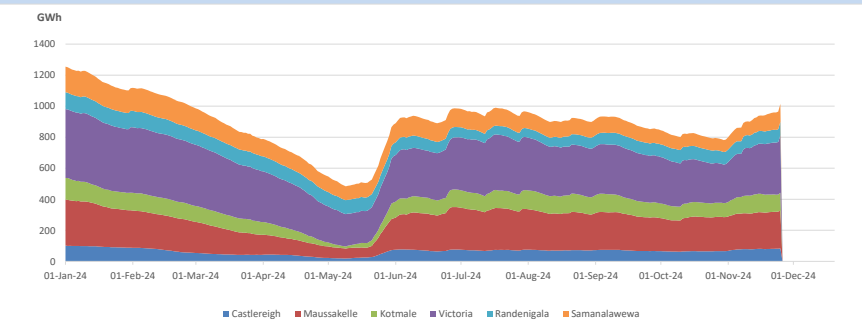
November 25, 2024

- Uma Oya Unit 02 made a forced shutdown at 10:14hrs due to low governor oil level. Uma Oya Unit 02 resumed generation at 10:45hrs.
- Balangoda - Wewelwatte 132kV cct tripped from Wewelwatte end, and tripped and A/R from Balangoda end at 13:05hrs due to the operation of distance protection. The cct was normalized at 13:18hrs.
- Uma Oya Dyraba & Puhuipola ponds spilling started at 19:10hrs & 19:50hrs respectively and spilling continues to the present hour.
- Upper Kotmale pond spilling started at 02:06hrs (26.11.2024) and spilling continues to the present hour.
- Rantambe pond spilling started at 02:16hrs (26.11.2024) and spilling continues to the present hour.
- Rantambe Unit 01 & Unit 02 made a forced shutdown for intake cleaning at 02:44hrs & 02:11hrs (26.11.2024) respectively. Rantambe Unit 01 & Unit 02 restored at 03:24hrs & 02:40hrs (26.11.2024).
- Ukuwela Unit 01 and Unit 02 stopped at 22:15hrs and 22:17hrs due to blockage of Polgolla intake respectively. Ukuwela unit 01 resumed generation at 03:29hrs (26.11.2024) and unit 02 is yet to be resumed generation.
- Bowathenna reservoir spilling started at 03:35hrs (26.11.2024) and spilling continues to the present hour.

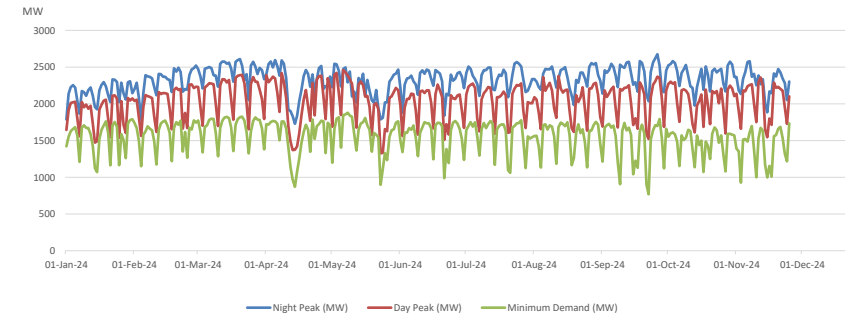
2. Comparison of Total Reservoir Storage Levels with Past Years



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

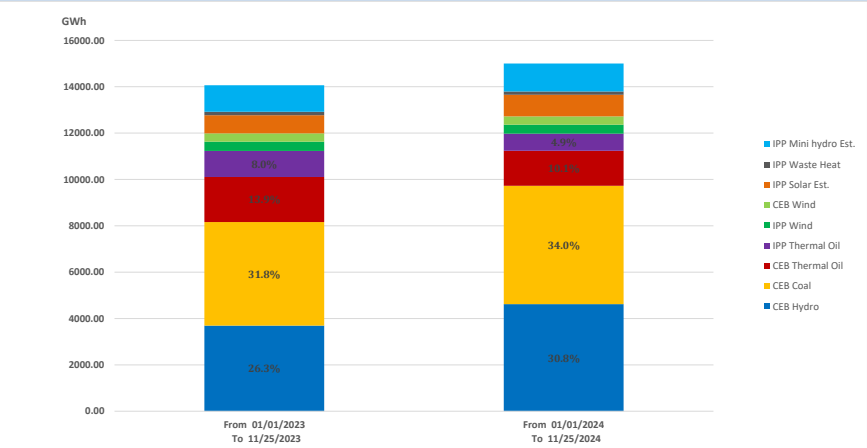


4. Variation of Demand during the current year



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 11/25/2023 14063 GWh
From 01/01/2024 To 11/25/2024 15004 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 Capacity

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)	495
Rooftop Solar (LT Bulk)	338
Rooftop Solar (HT Bulk)	104

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