

Generation and Reservoirs Statistics

November 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 14, 2024

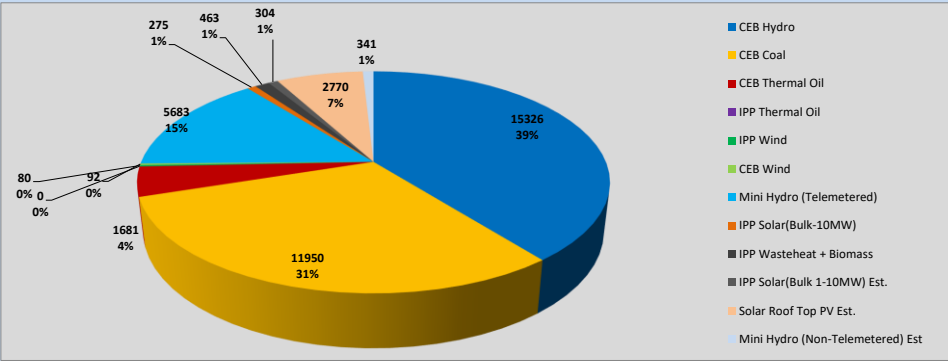


Table 01

	Generation (MWh)
CEB Hydro	15,326
CEB Coal	11,950
CEB Thermal Oil	1,681
IPP Thermal Oil	-
IPP Wind	80
CEB Wind	92
Mini Hydro (Telemetered)	5,683
IPP Solar (Bulk)	275
IPP Waste heat + Biomass	463
Total Generation (Excluding estimated figures)	35,550
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	341
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	38,965
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	204	32.74%
CEB Coal	177	28.47%
CEB Thermal Oil	65	10.38%
IPP Thermal	37	5.89%
IPP Wind	4	0.64%
CEB Wind	5	0.83%
Mini Hydro *	77	12.43%
IPP Solar *	48	7.67%
IPP Waste heat + BMP	6	0.95%
Total	622	

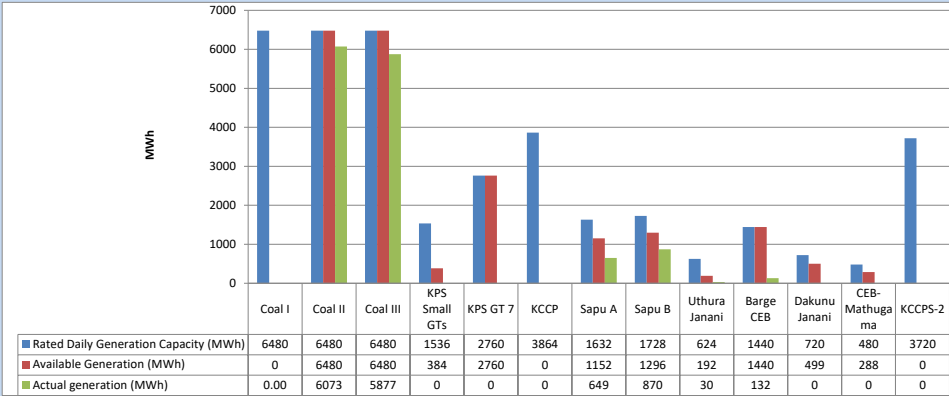
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,444	30.59%
CEB Coal	4,975	34.24%
CEB Thermal Oil	1,464	10.07%
IPP Thermal	734	5.05%
IPP Wind	380	2.62%
CEB Wind	353	2.43%
Mini Hydro *	1,147	7.89%
IPP Solar *	900	6.19%
IPP Waste heat	133	0.92%
Total	14,530	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

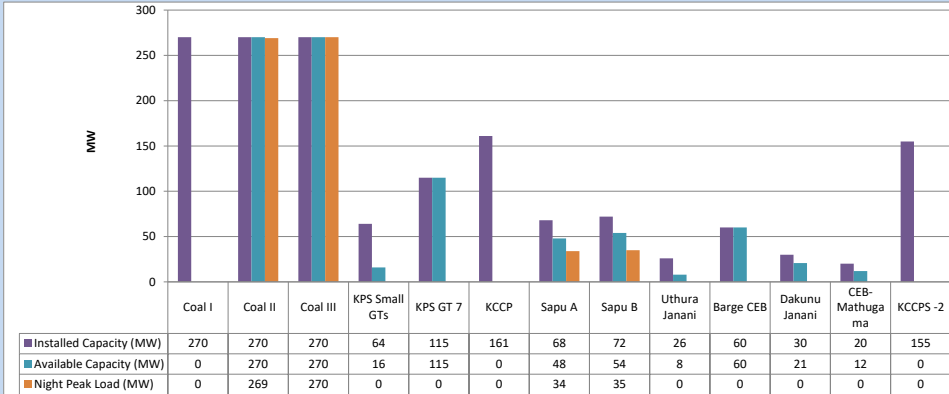
November 14, 2024



Available Generation is estimated based on plant availability at 6.00am on November 15, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

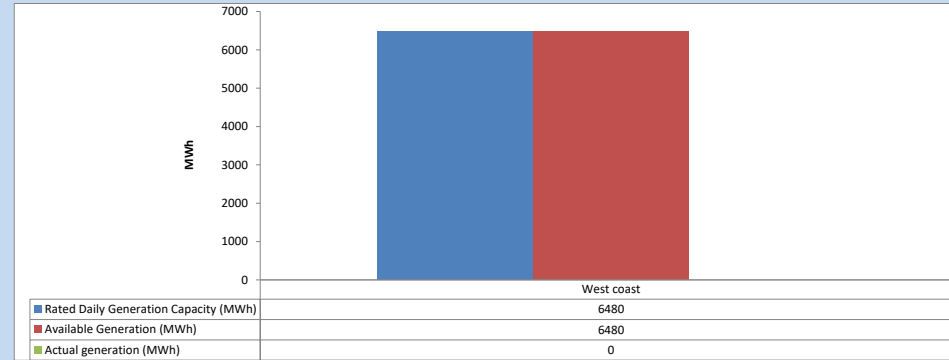
November 14, 2024



Plant availability is recorded at 6.00 am on November 15, 2024

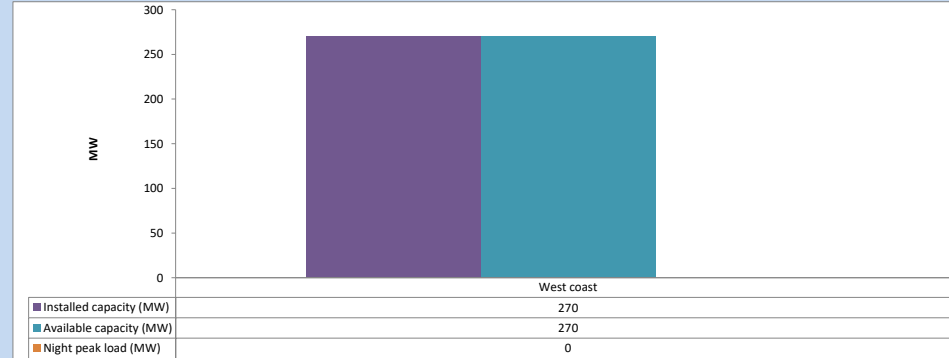
1.4 IPP owned Thermal Plant Dispatch

November 14, 2024



Available Generation is estimated based on plant availability at 6.00am on November 15, 2024

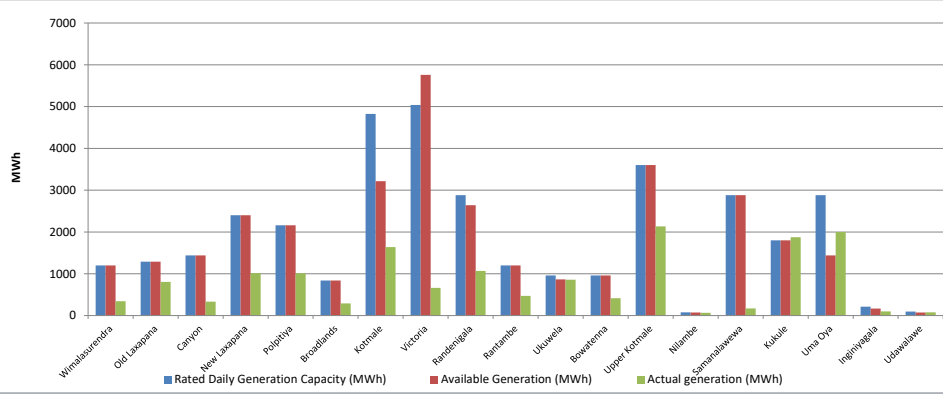
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 15, 2024

1.6 Major Hydro Plant Dispatch

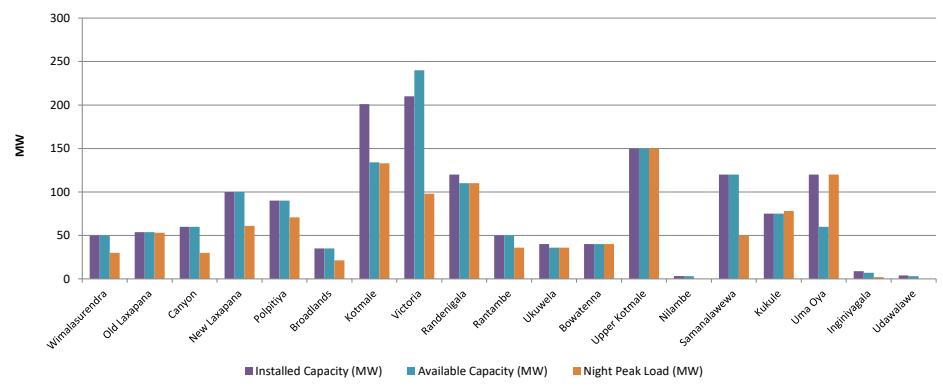
November 14, 2024



Available Generation is estimated based on plant availability at 6.00am on November 15, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 14, 2024



Plant availability is recorded at 6.00 am on November 15, 2024

1.8 Summary of Major Plant performance

November 14, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	344
Old Laxapana	54	54	53	804
Canyon	60	60	30	333
New Laxapana	100	100	61	1,015
Polpitiya	90	90	71	1,010
Broadlands	35	35	21	290
Kotmale	201	134	133	1,640
Victoria	210	240	98	662
Randenigala	120	110	110	1,069
Rantambe	50	50	36	470
Ukuwela	40	36	36	858
Bowatenna	40	40	40	415
Upper Kotmale	150	150	150	2,134
Nilambe	3	3	0	66
Samanalawewa	120	120	50	170
Kukule	75	75	78	1,873
Uma Oya	120	60	120	1,998
Inginipagala	9	7	2	99
Udawalawe	4	3	0	76
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,073
Puttalam Coal III	270	270	270	5,877
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	68	48	34	649
Sapugaskanda B	72	54	35	870
Uthura Janani	26	8	0	30
Barge CEB	60	60	0	132
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	2,773	1,992	35,550

Note- Plant availability is the availability recorded at 6 am on November 15, 2024

1.9 Contribution to the Night Peak in MW

November 14, 2024

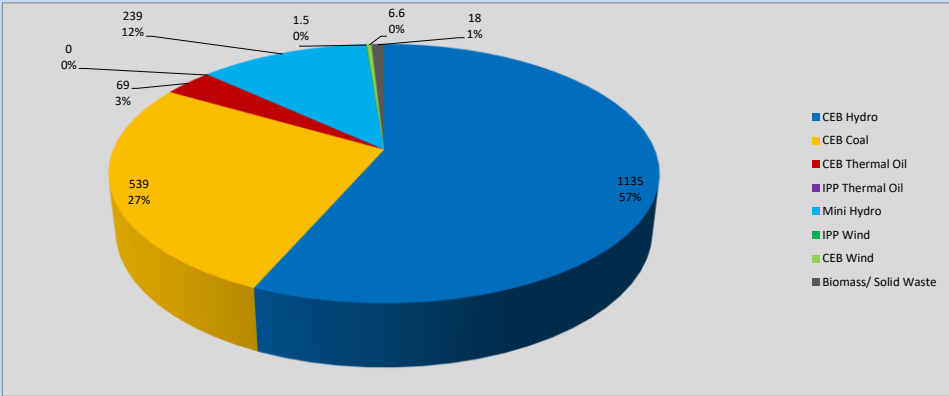


Table 05

CEB Hydro	1135	MW
CEB Coal	539	MW
CEB Thermal Oil	69	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	239	MW
IPP Wind	1.5	MW
CEB Wind	6.6	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

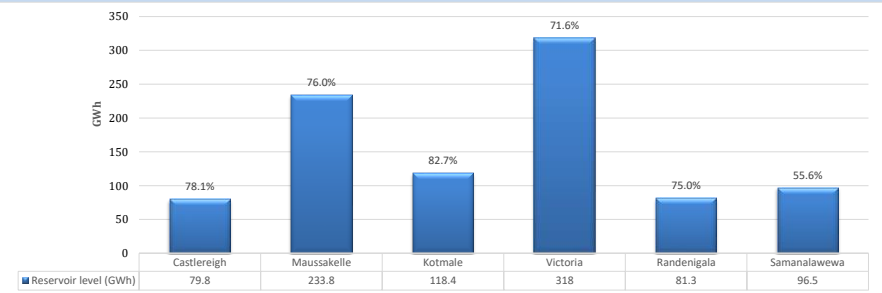
Table 06

Night Peak*	2,008	MW
Day Peak Maximum Demand	1,651	MW
Day Peak Minimum Demand	1,173	MW
Off Peak Minimum Demand	1,339	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 15, 2024



Total Reservoir Level 927.8 GWh
% of Total capacity 72.5%

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

November 14, 2024

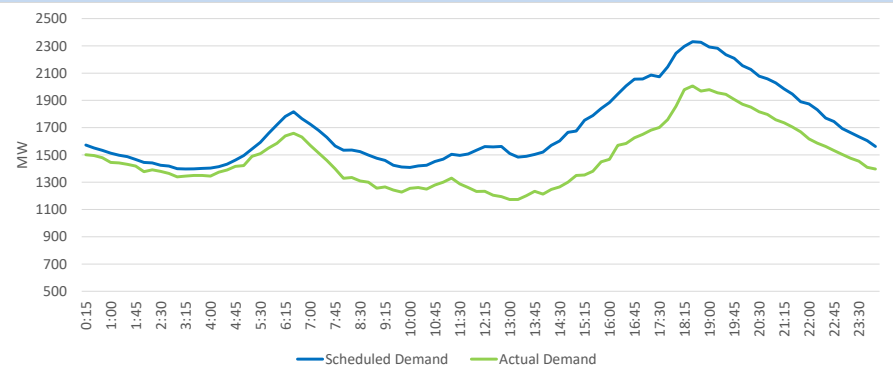
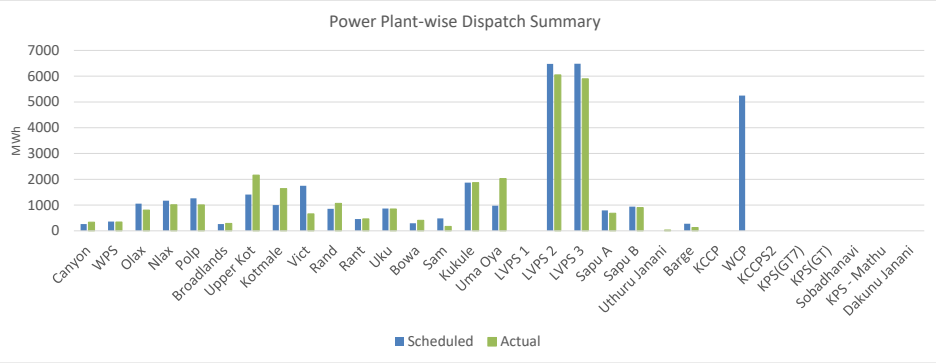


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,320	15,103	783
CEB Coal	12,959	11,954	(1,006)
CEB Thermal Oil	2,006	1,744	(262)
IPP Thermal Oil	5,245	-	(5,245)
NCRE (Telemetered)	6,202	6,734	533
Total	40,732	35,534	(5,198)

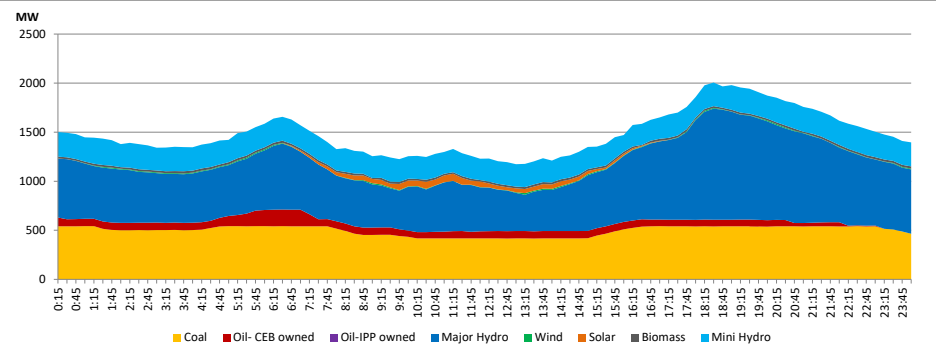
1.12 Power Plant-wise Dispatch Summary

November 14, 2024



1.13 Daily Load Curve

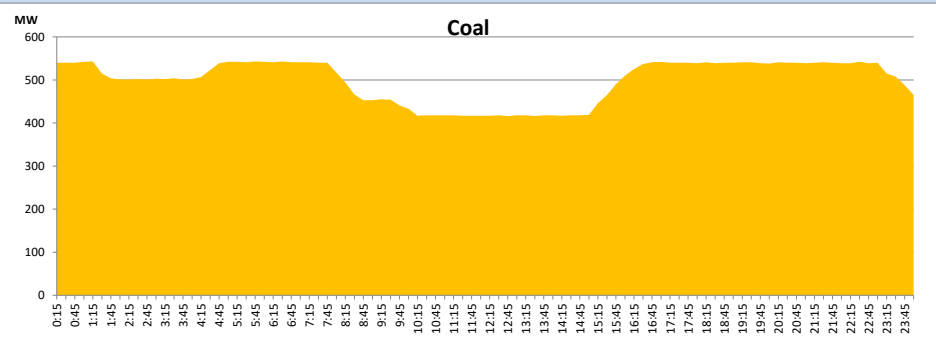
November 14, 2024



Solar and wind data is based on Telemetered Power Stations only

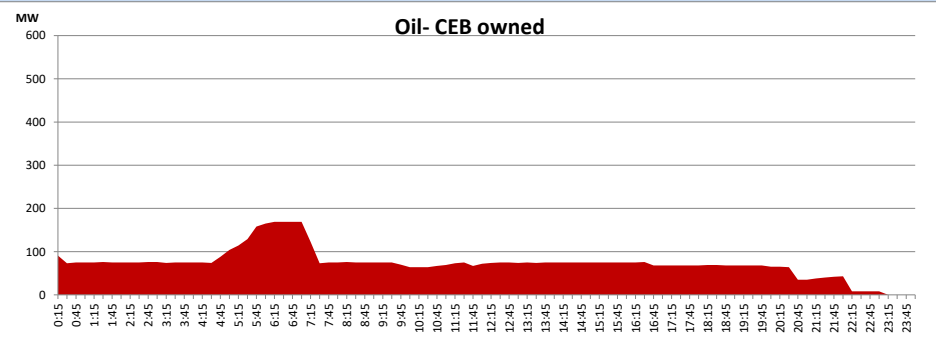
Coal Generation during

November 14, 2024

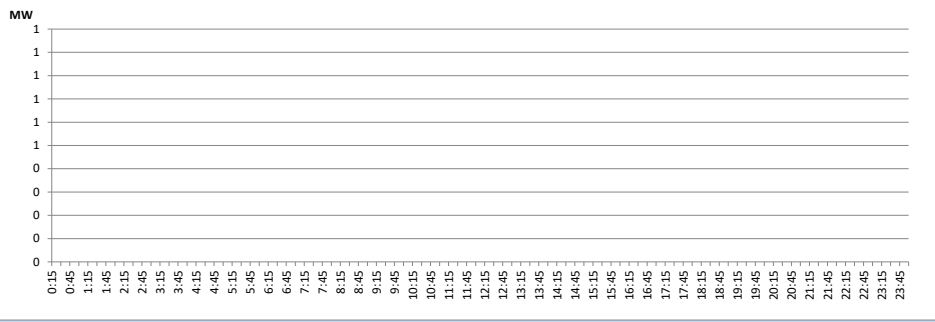


CEB Oil Plant Generation during

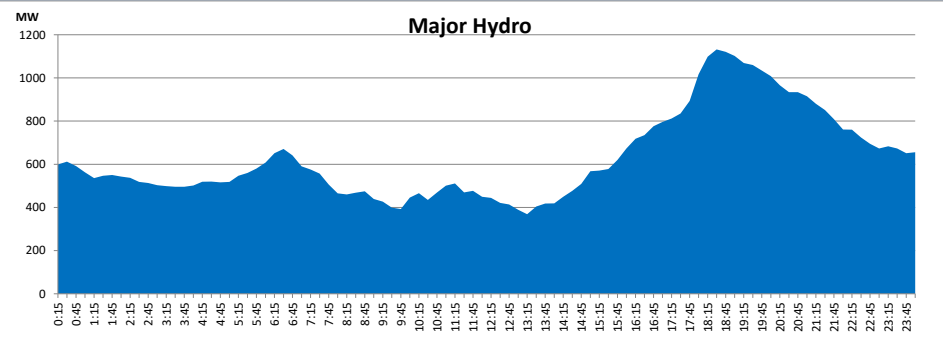
November 14, 2024



IPP Oil Plant Generation during November 14, 2024

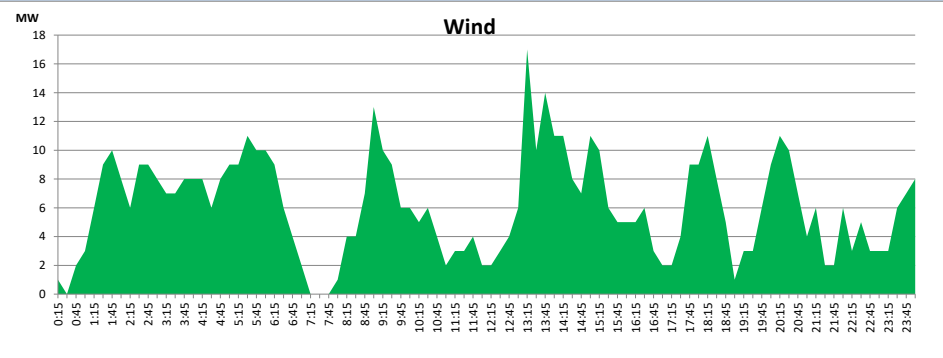


Major Hydro Generation during November 14, 2024



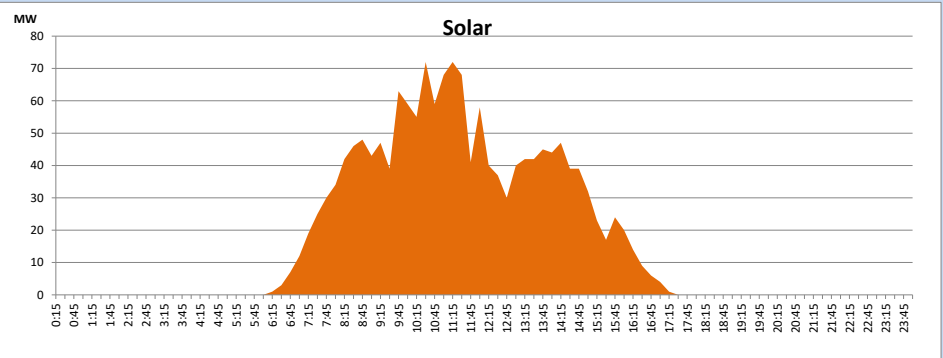
Wind Generation during November 14, 2024

Based on Telemetered Power Stations only



Solar Generation during November 14, 2024

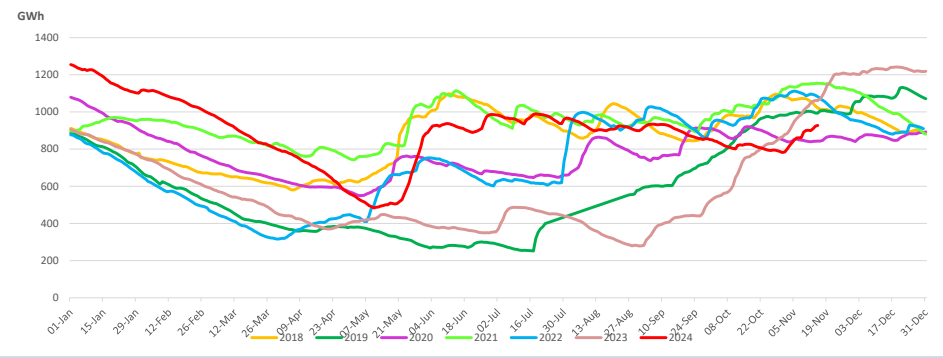
Based on Telemetered Power Stations only



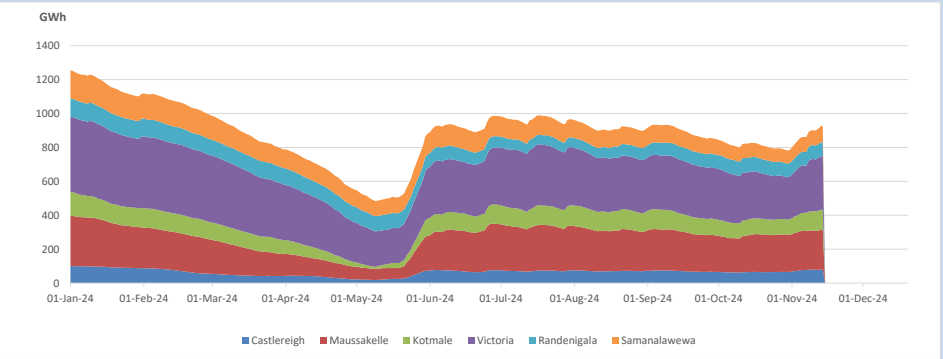
1.14 Major Incidents reported during the day November 14, 2024

- 1) Uma Oya Puhulpola pond spilling started at 14:37hrs. and spilling stopped at 17:40hrs. Uma Oya Dyrabaa pond spilled intermittently and spilling stopped at 19:25hrs.
- 2) Kosgama - Polpitiya 132kV cct and Broadlands - Seethawaka 132kV cct tripped and A/R from all four ends at 16:00hrs due to the operation of distance protection.
- 3) WPS unit 01 tripped at 16:39hrs with an indication of lower guide bearing water flow low, relecting 25MW from the system. The unit resumed generation at 17:39hrs.

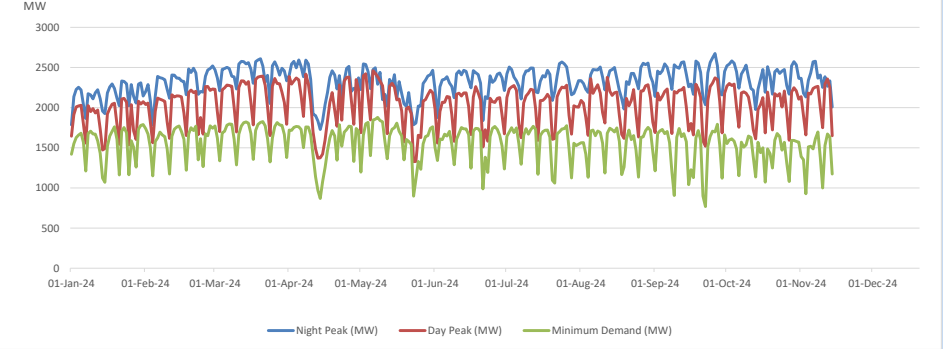
2. Comparison of Total Reservoir Storage Levels with Past Years



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

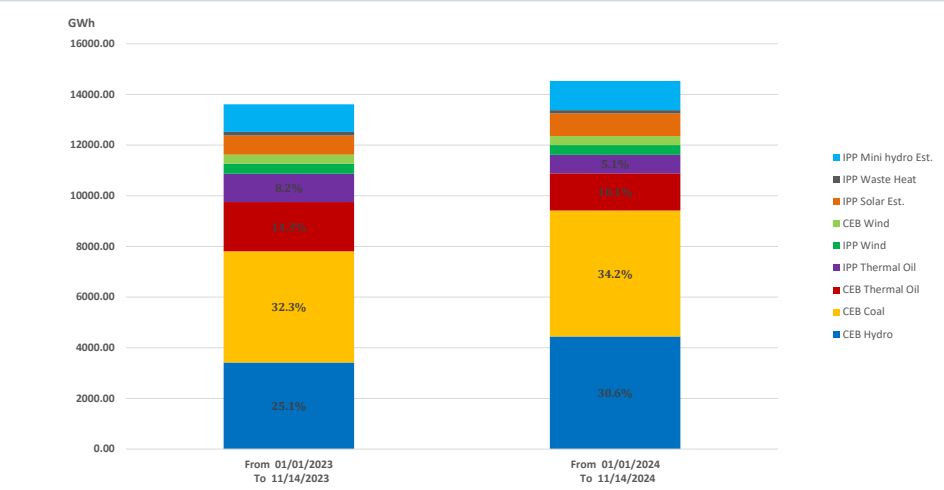


4. Variation of Demand during the current year



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 11/14/2023 13610 GWh
From 01/01/2024 To 11/14/2024 14530 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