

Generation and Reservoirs Statistics

November 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 4, 2024

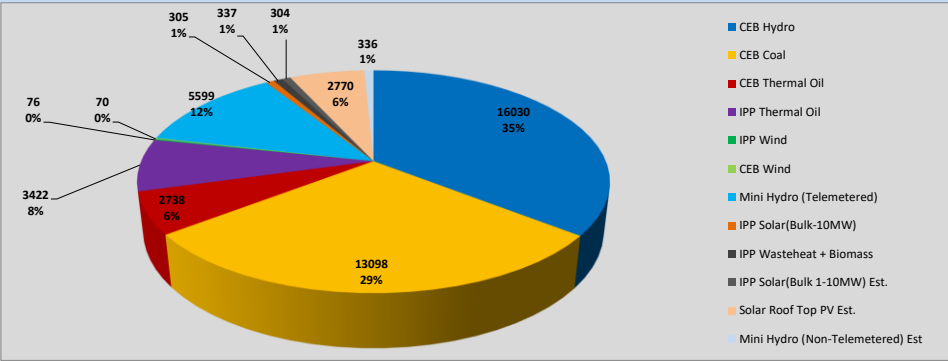


Table 01

	Generation (MWh)
CEB Hydro	16,030
CEB Coal	13,098
CEB Thermal Oil	2,738
IPP Thermal Oil	3,422
IPP Wind	76
CEB Wind	70
Mini Hydro (Telemetered)	5,599
IPP Solar (Bulk)	305
IPP Waste heat + Biomass	337
Total Generation (Excluding estimated figures)	41,675
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	336
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	45,085

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	60	35.72%
CEB Coal	49	29.23%
CEB Thermal Oil	14	8.38%
IPP Thermal	9	5.13%
IPP Wind	0	0.20%
CEB Wind	0	0.15%
Mini Hydro *	21	12.39%
IPP Solar *	14	8.00%
IPP Waste heat + BMP	1	0.80%
Total	169	

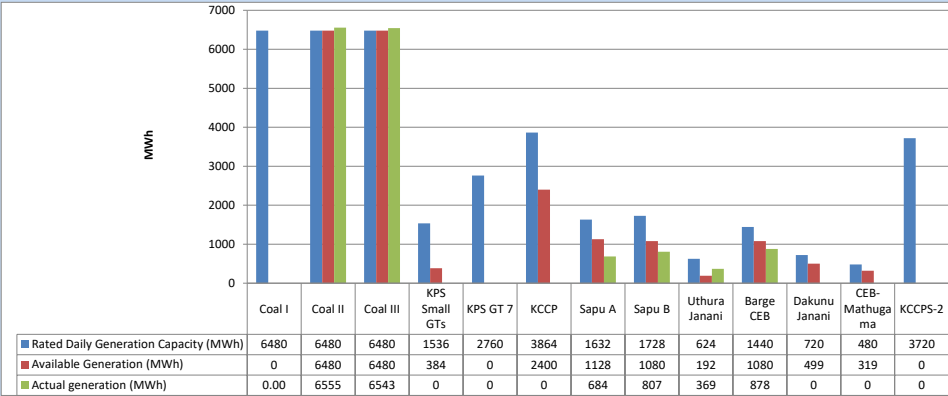
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,301	30.55%
CEB Coal	4,847	34.43%
CEB Thermal Oil	1,413	10.04%
IPP Thermal	706	5.02%
IPP Wind	377	2.68%
CEB Wind	348	2.47%
Mini Hydro *	1,090	7.75%
IPP Solar *	865	6.15%
IPP Waste heat	129	0.92%
Total	14,076	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

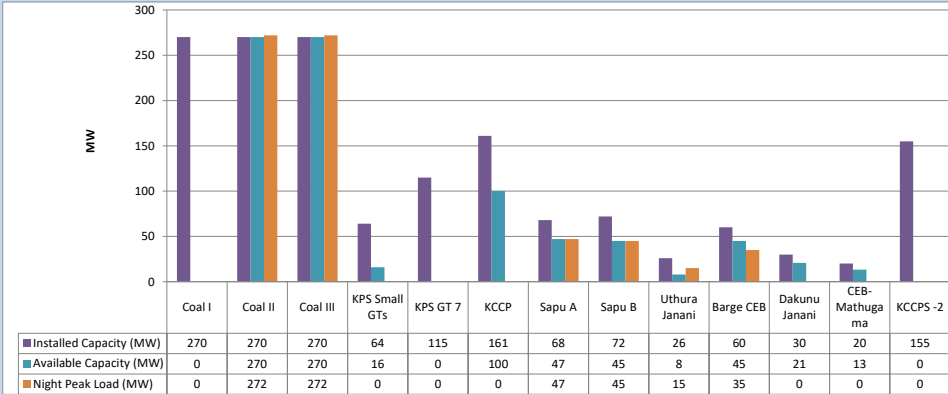
November 4, 2024



Available Generation is estimated based on plant availability at 6.00am on November 5, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

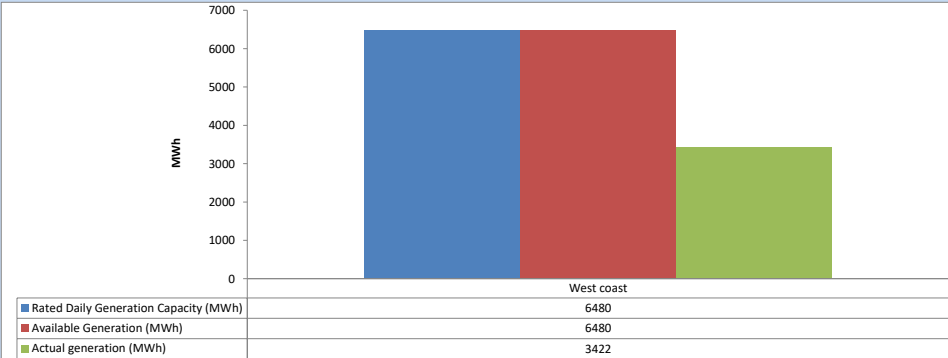
November 4, 2024



Plant availability is recorded at 6.00 am on November 5, 2024

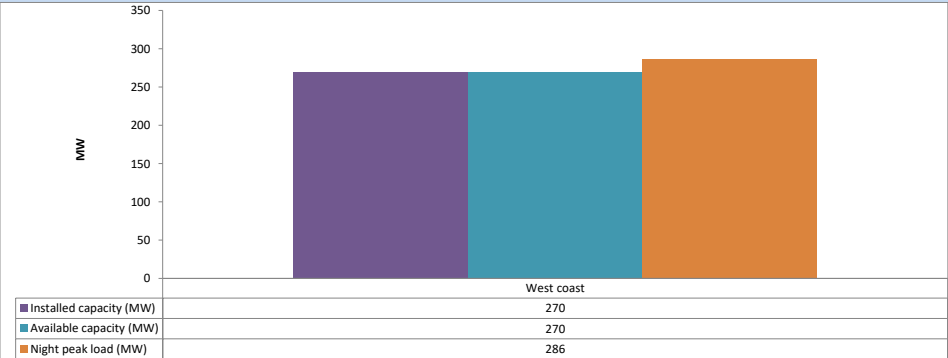
1.4 IPP owned Thermal Plant Dispatch

November 4, 2024



Available Generation is estimated based on plant availability at 6.00am on November 5, 2024

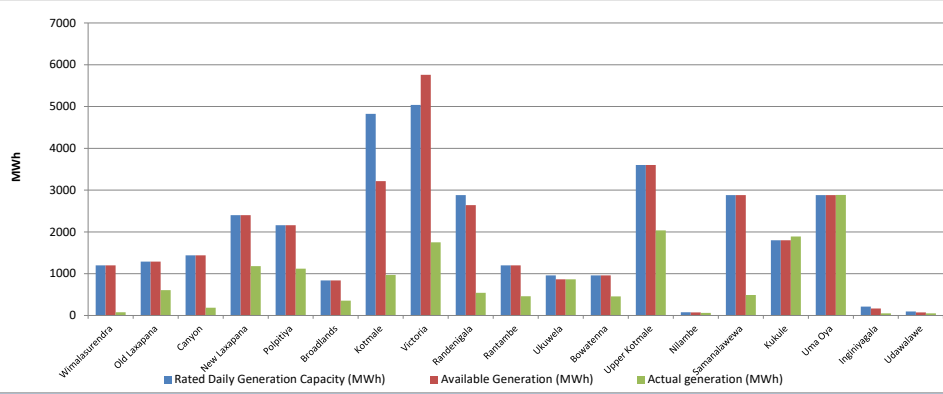
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 5, 2024

1.6 Major Hydro Plant Dispatch

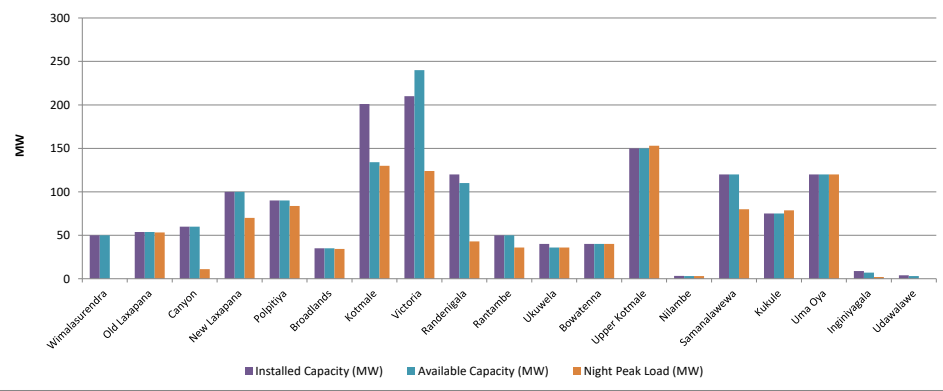
November 4, 2024



Available Generation is estimated based on plant availability at 6.00am on November 5, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 4, 2024



Plant availability is recorded at 6.00 am on November 5, 2024

1.8 Summary of Major Plant performance

November 4, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	0	78
Old Laxapana	54	54	53	605
Canyon	60	60	11	186
New Laxapana	100	100	70	1,181
Polpitiya	90	90	84	1,120
Broadlands	35	35	34	356
Kotmale	201	134	130	970
Victoria	210	240	124	1,752
Randenigala	120	110	43	541
Rantambe	50	50	36	461
Ukuwela	40	36	36	866
Bowatenna	40	40	40	456
Upper Kotmale	150	150	153	2,036
Nilambe	3	3	3	62
Samanalawewa	120	120	80	489
Kukule	75	75	79	1,888
Uma Oya	120	120	120	2,884
Inginipigala	9	7	2	51
Udawalawe	4	3	0	49
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	272	6,555
Puttalam Coal III	270	270	272	6,543
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	100	0	0
Sapugaskanda A	68	47	47	684
Sapugaskanda B	72	45	45	807
Uthura Janani	26	8	15	369
Barge CEB	60	45	35	878
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	286	3,422
Sobadhanavi	220	0	0	0
Total	3,602	2,794	2,329	41,676

Note- Plant availability is the availability recorded at 6 am on November 5, 2024

1.9 Contribution to the Night Peak in MW

November 4, 2024

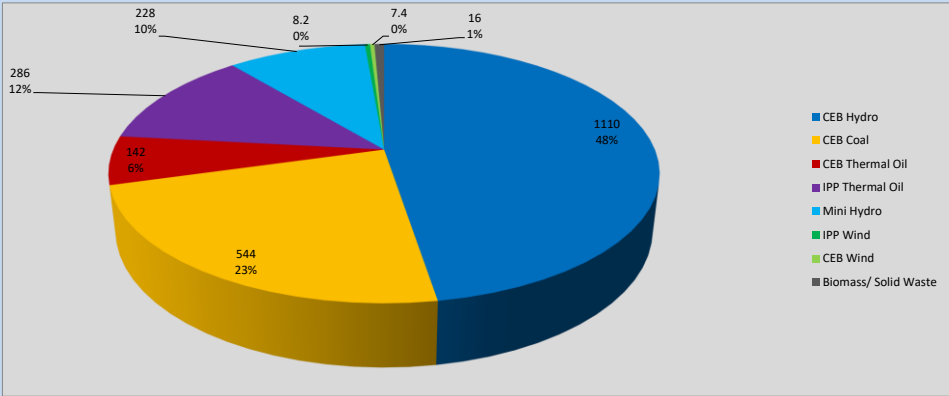


Table 05

CEB Hydro	1110	MW
CEB Coal	544	MW
CEB Thermal Oil	142	MW
IPP Thermal Oil	286	MW
Mini Hydro (Telemetered)	228	MW
IPP Wind	8.2	MW
CEB Wind	7.4	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

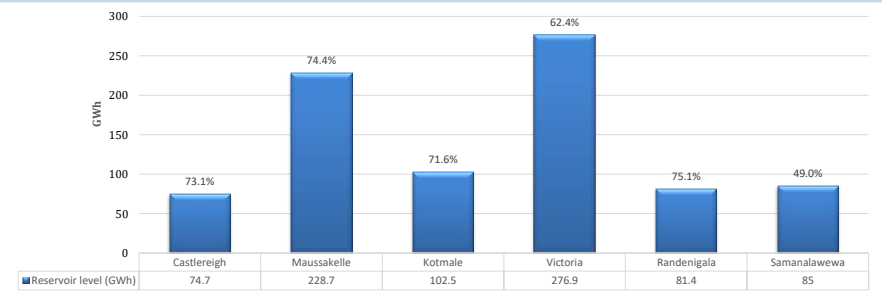
Table 06

Night Peak*	2,341	MW
Day Peak Maximum Demand	2,182	MW
Day Peak Minimum Demand	1,513	MW
Off Peak Minimum Demand	1,252	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 5, 2024



Total Reservoir Level 849.2 GWh
% of Total capacity 66.4%

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

November 4, 2024

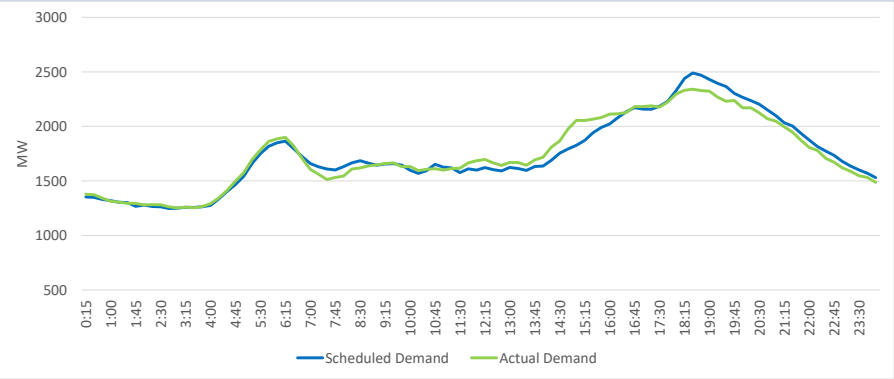
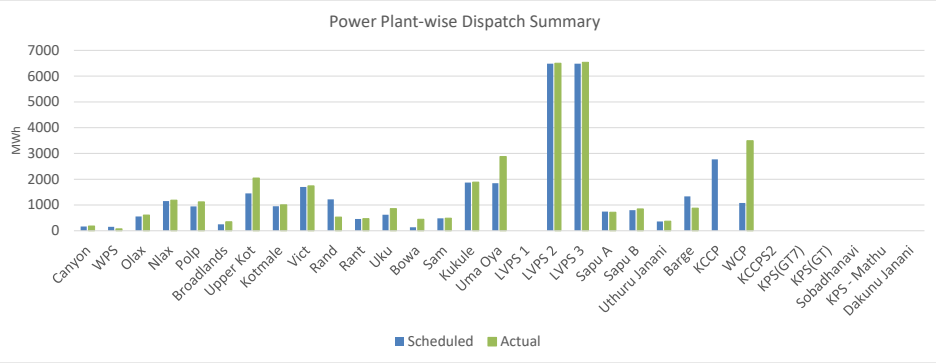


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,943	15,882	1,939
CEB Coal	12,960	13,038	78
CEB Thermal Oil	6,003	2,817	(3,186)
IPP Thermal Oil	1,076	3,496	2,420
NCRE (Telemetered)	7,836	6,579	(1,257)
Total	41,817	41,812	(6)

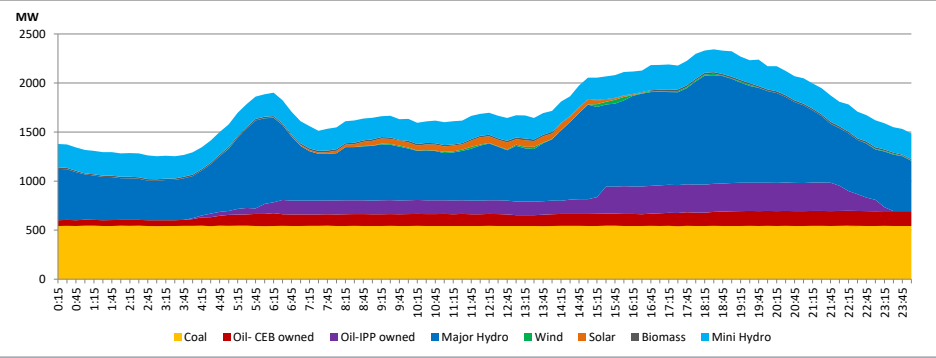
1.12 Power Plant-wise Dispatch Summary

November 4, 2024



1.13 Daily Load Curve

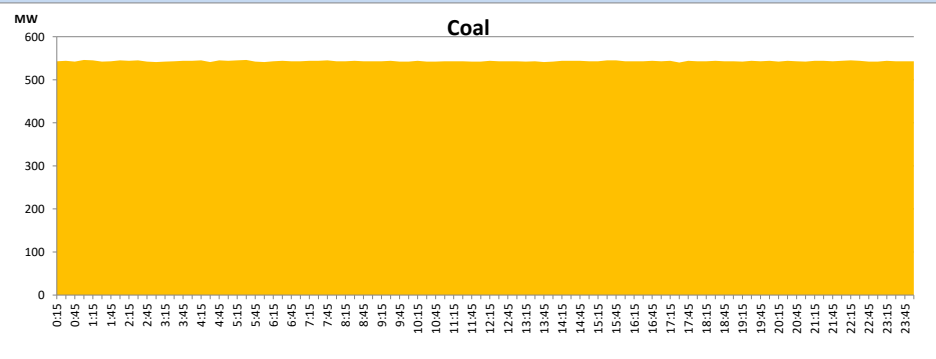
November 4, 2024



Solar and wind data is based on Telemetered Power Stations only

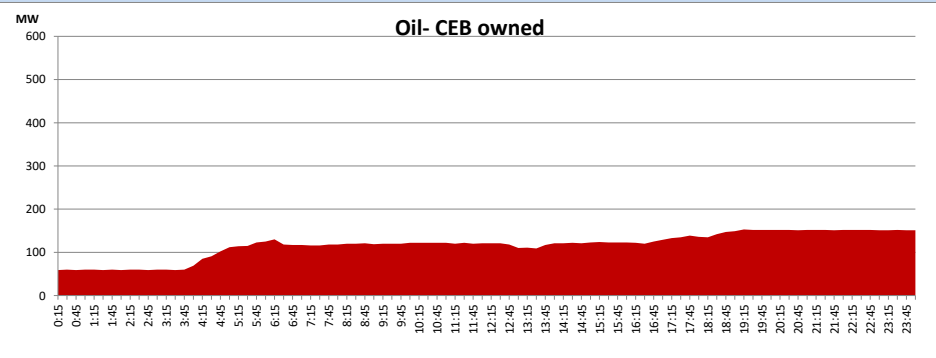
Coal Generation during

November 4, 2024

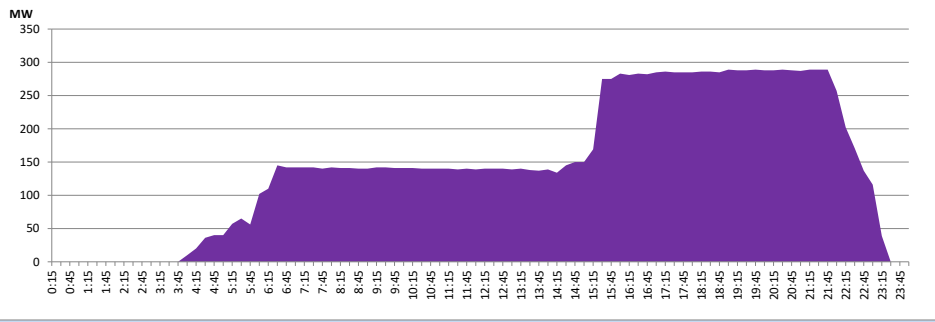


CEB Oil Plant Generation during

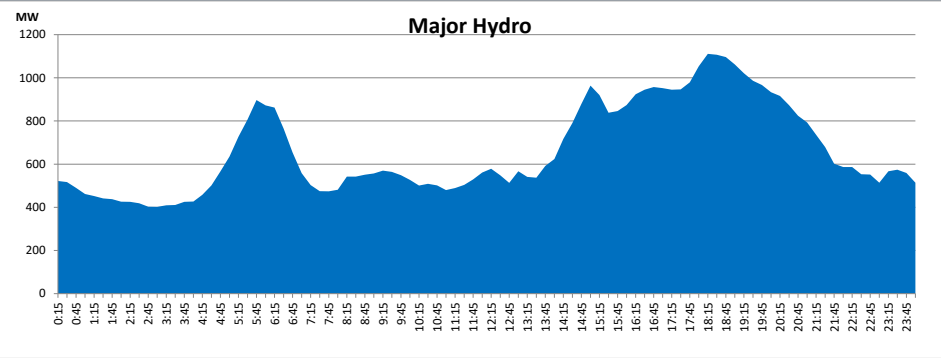
November 4, 2024



IPP Oil Plant Generation during November 4, 2024

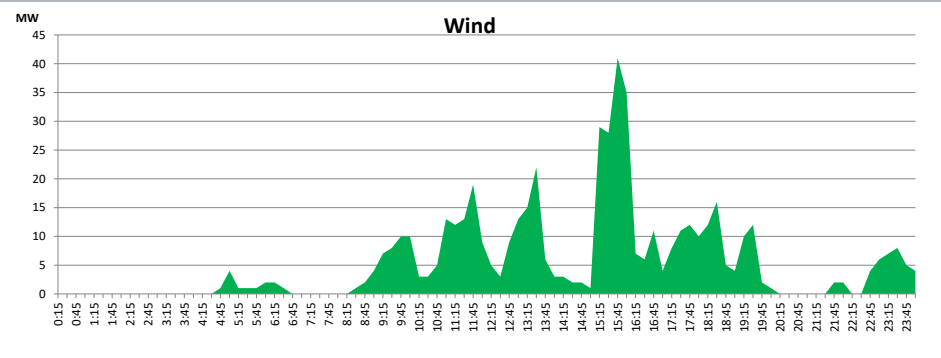


Major Hydro Generation during November 4, 2024



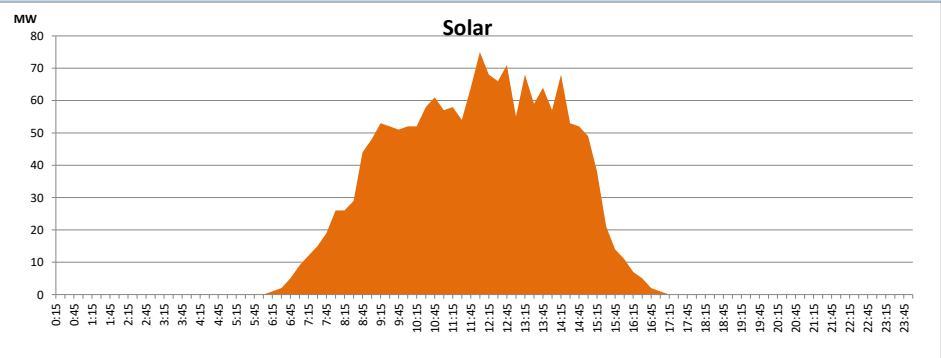
Wind Generation during November 4, 2024

Based on Telemetered Power Stations only



Solar Generation during November 4, 2024

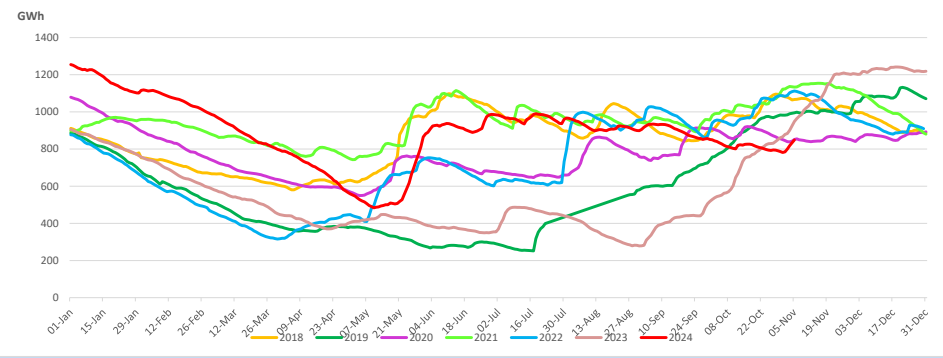
Based on Telemetered Power Stations only



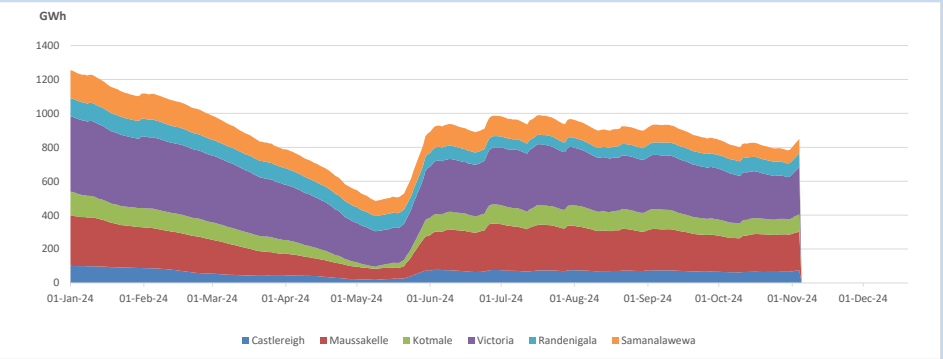
1.14 Major Incidents reported during the day November 4, 2024

- 1) New Anuradhapura GSS 220/132/33kV T/F 01 tripped from all ends at 07:14hrs with an indication of differential protection trip alarm. The T/F is yet to be normalized.
- 2) New Anuradhapura - Puttalam 132kV cct 01 tripped from Puttalam end at 12:50hrs without any indication (The cct was switched off at New Anuradhapura end due to the system requirement). The cct was restored at 13:27hrs.
- 4) Kukule Ganga pond spilling continues to the present hour.
- 5) Uma Oya Dyrabaa pond spilling stopped at 06:55hrs.

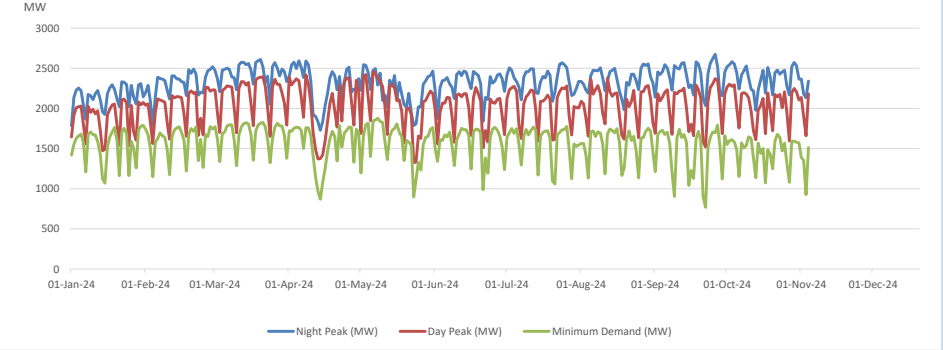
2. Comparison of Total Reservoir Storage Levels with Past Years



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

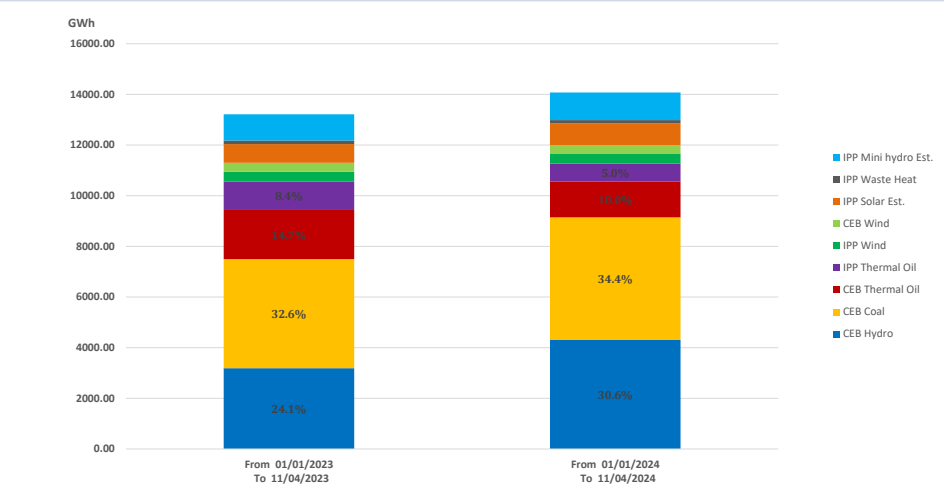


4. Variation of Demand during the current year



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 11/04/2023

13215 GWh

From 01/01/2024 To 11/04/2024

14076 GWh

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

Unserviced 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