

Generation and Reservoirs Statistics

November 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 16, 2024

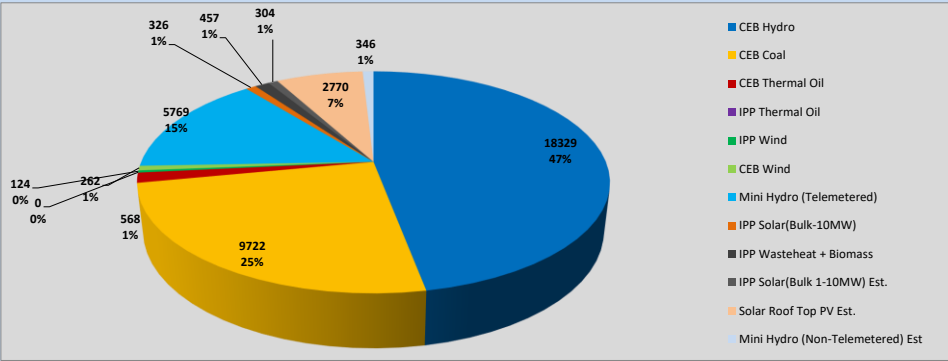


Table 01

	Generation (MWh)
CEB Hydro	18,329
CEB Coal	9,722
CEB Thermal Oil	568
IPP Thermal Oil	-
IPP Wind	124
CEB Wind	262
Mini Hydro (Telemetered)	5,769
IPP Solar (Bulk)	326
IPP Waste heat + Biomass	457
Total Generation (Excluding estimated figures)	35,557
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	346
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	38,977
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	238	34.11%
CEB Coal	197	28.27%
CEB Thermal Oil	65	9.34%
IPP Thermal	37	5.26%
IPP Wind	4	0.60%
CEB Wind	6	0.80%
Mini Hydro *	90	12.83%
IPP Solar *	54	7.81%
IPP Waste heat + BMP	7	0.98%
Total	698	

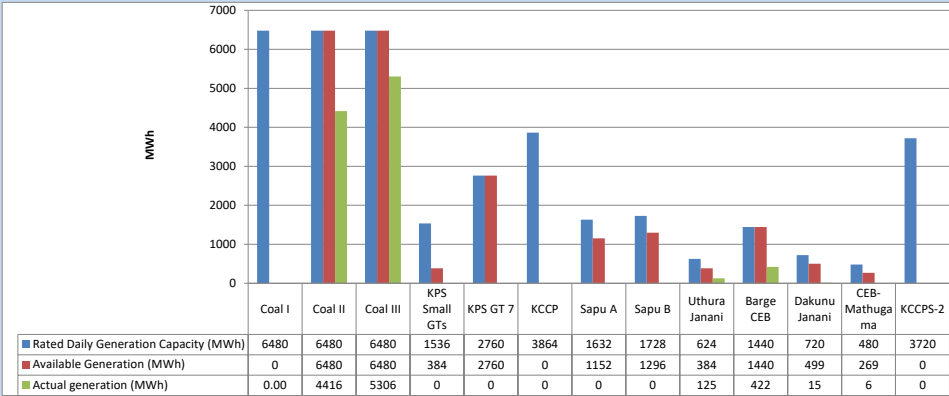
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,478	30.66%
CEB Coal	4,995	34.20%
CEB Thermal Oil	1,464	10.03%
IPP Thermal	734	5.03%
IPP Wind	381	2.61%
CEB Wind	353	2.42%
Mini Hydro *	1,159	7.94%
IPP Solar *	906	6.21%
IPP Waste heat	134	0.92%
Total	14,605	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

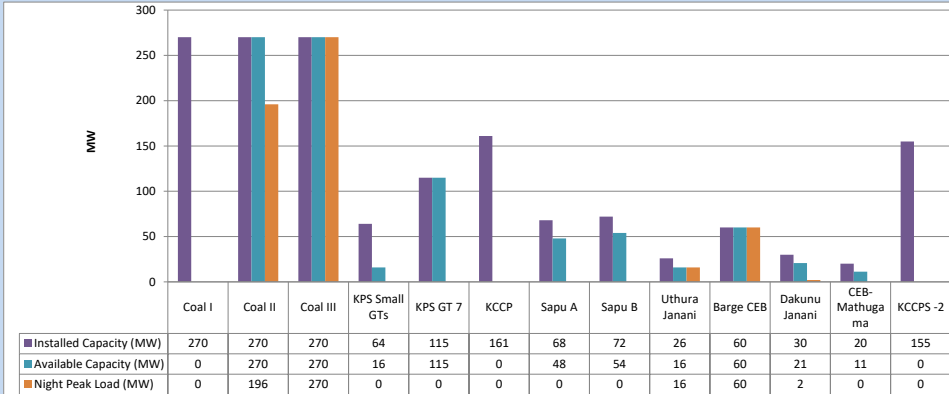
November 16, 2024



Available Generation is estimated based on plant availability at 6.00am on November 17, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

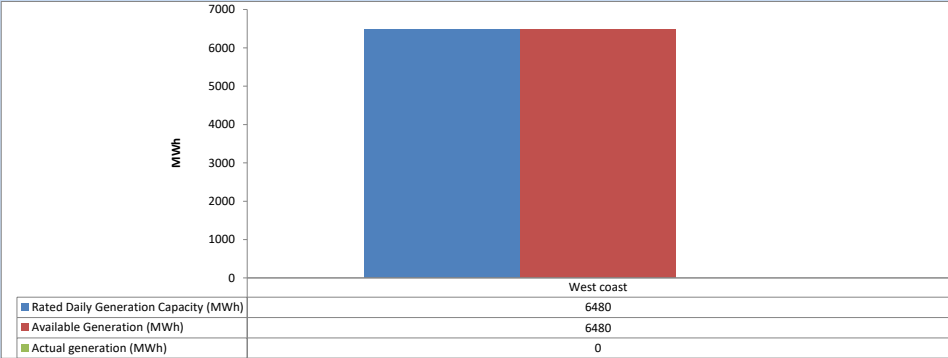
November 16, 2024



Plant availability is recorded at 6.00 am on November 17, 2024

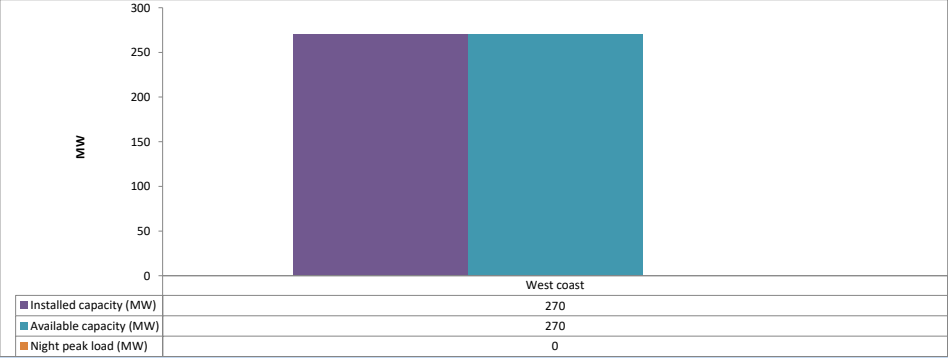
1.4 IPP owned Thermal Plant Dispatch

November 16, 2024



Available Generation is estimated based on plant availability at 6.00am on November 17, 2024

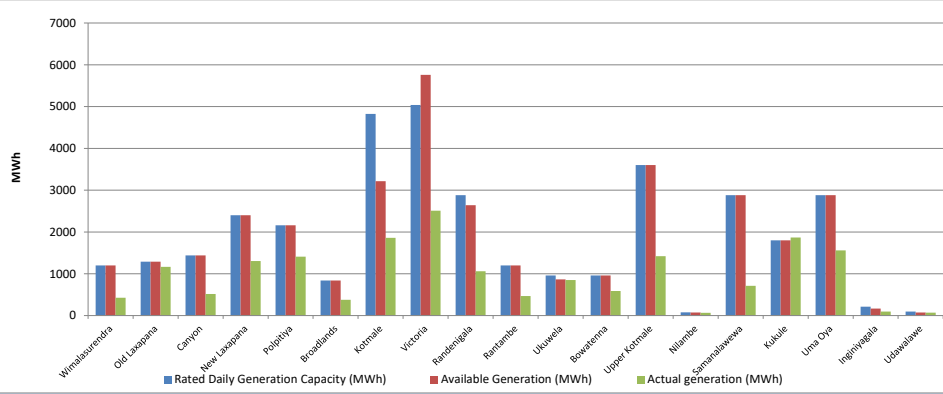
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 17, 2024

1.6 Major Hydro Plant Dispatch

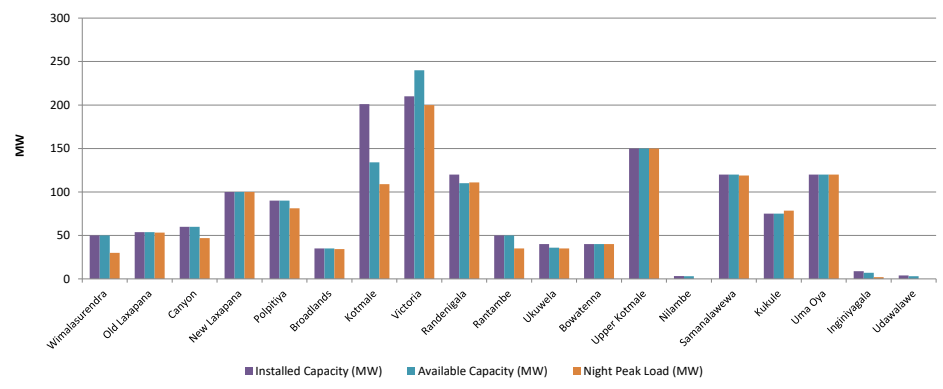
November 16, 2024



Available Generation is estimated based on plant availability at 6.00am on November 17, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 16, 2024



Plant availability is recorded at 6.00 am on November 17, 2024

1.8 Summary of Major Plant performance

November 16, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	428
Old Laxapana	54	54	53	1,167
Canyon	60	60	47	516
New Laxapana	100	100	100	1,304
Polpitiya	90	90	81	1,410
Broadlands	35	35	34	378
Kotmale	201	134	109	1,860
Victoria	210	240	200	2,510
Randenigala	120	110	111	1,059
Rantambe	50	50	35	469
Ukuwela	40	36	35	851
Bowatenna	40	40	40	586
Upper Kotmale	150	150	150	1,422
Nilambe	3	3	0	65
Samanalawewa	120	120	119	712
Kukule	75	75	79	1,868
Uma Oya	120	120	120	1,561
Inginipigala	9	7	2	95
Udawalawe	4	3	0	68
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	196	4,416
Puttalam Coal III	270	270	270	5,306
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	16	16	125
Barge CEB	60	60	60	422
CEB-Hambantota	30	21	2	15
CEB-Mathugama	20	11	0	6
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	2,840	2,152	35,557

Note- Plant availability is the availability recorded at 6 am on November 17, 2024

1.9 Contribution to the Night Peak in MW

November 16, 2024

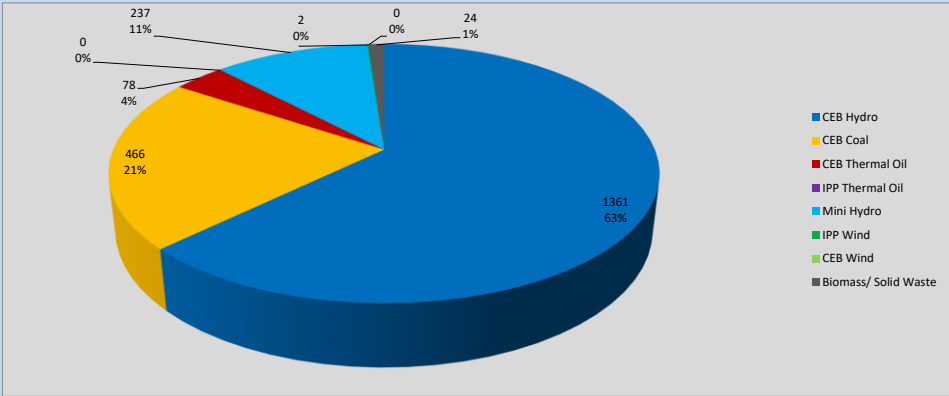


Table 05

CEB Hydro	1361	MW
CEB Coal	466	MW
CEB Thermal Oil	78	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	237	MW
IPP Wind	2	MW
CEB Wind	0	MW
Biomass/ Solid Waste	24	MW

Recorded Peak Demand Data

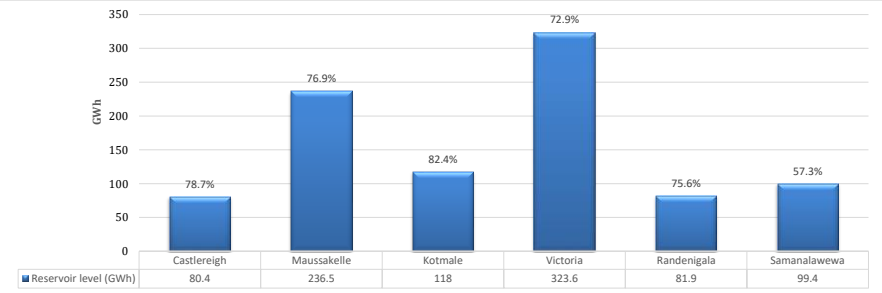
Table 06

Night Peak*	2,168	MW
Day Peak Maximum Demand	1,800	MW
Day Peak Minimum Demand	1,154	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 17, 2024



Total Reservoir Level 939.8 GWh
% of Total capacity 73.5%

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

November 16, 2024

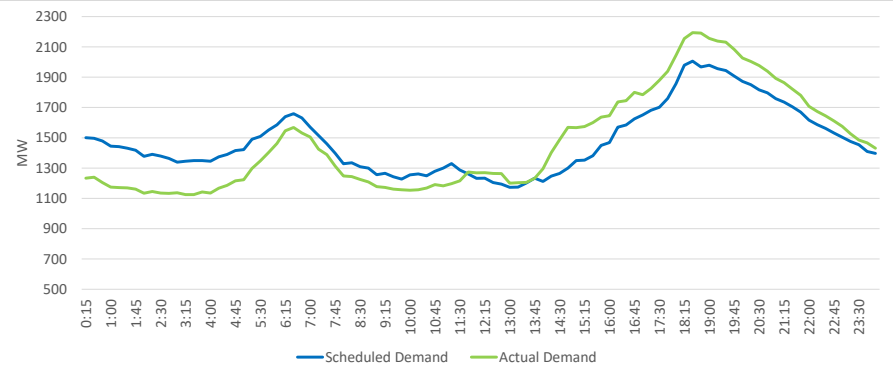
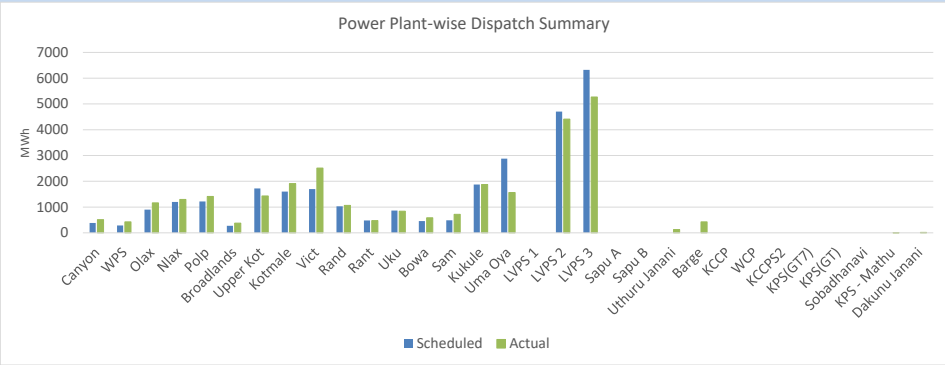


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,349	18,148	799
CEB Coal	11,025	9,679	(1,346)
CEB Thermal Oil	-	576	576
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,158	6,901	(257)
Total	35,531	35,304	(228)

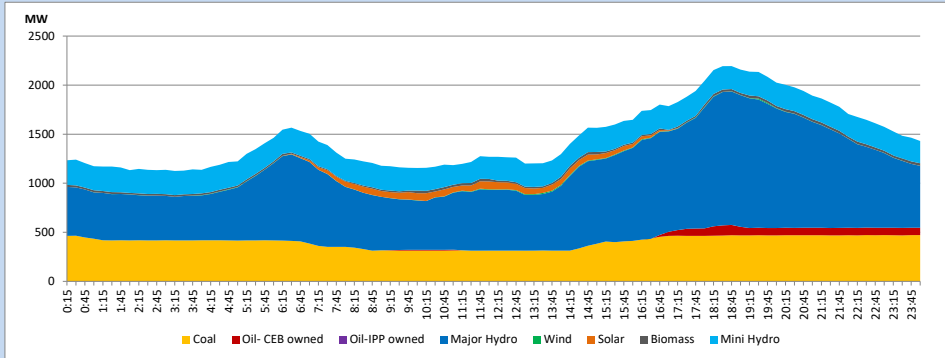
1.12 Power Plant-wise Dispatch Summary

November 16, 2024



1.13 Daily Load Curve

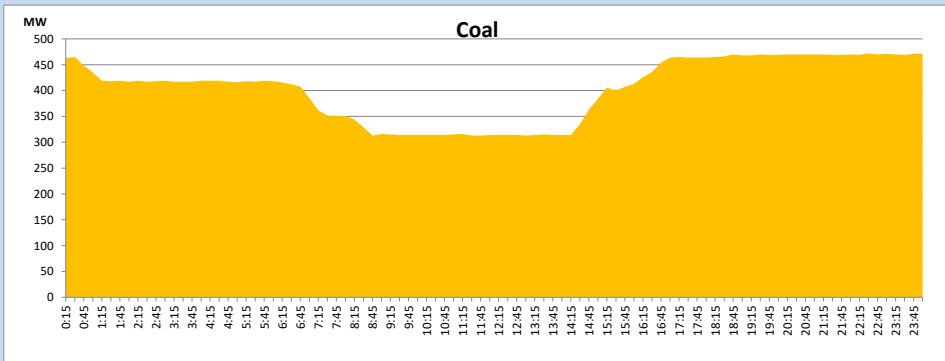
November 16, 2024



Solar and wind data is based on Telemetered Power Stations only

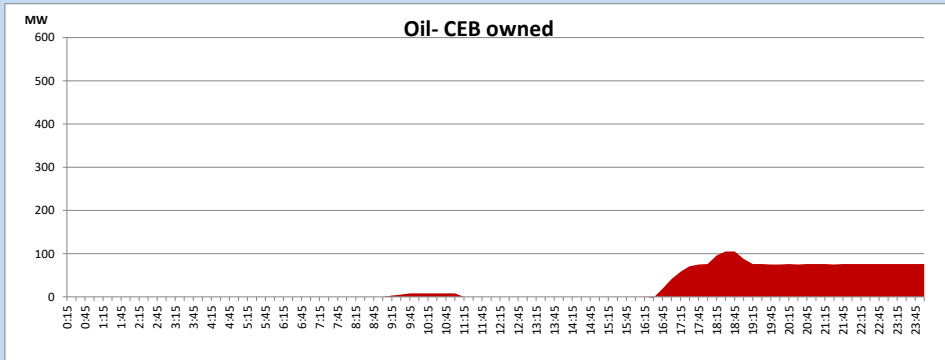
Coal Generation during

November 16, 2024

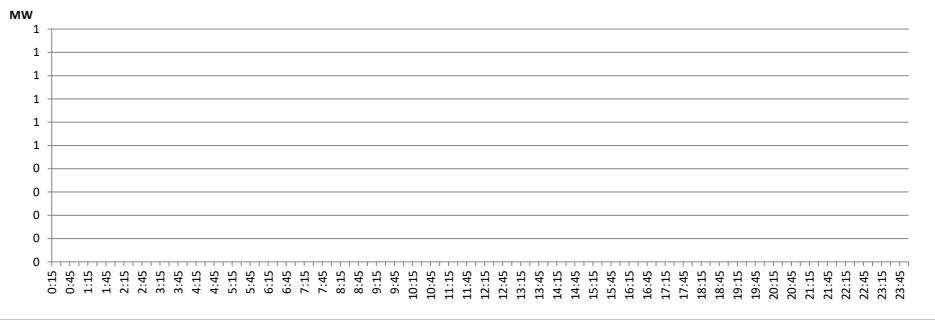


CEB Oil Plant Generation during

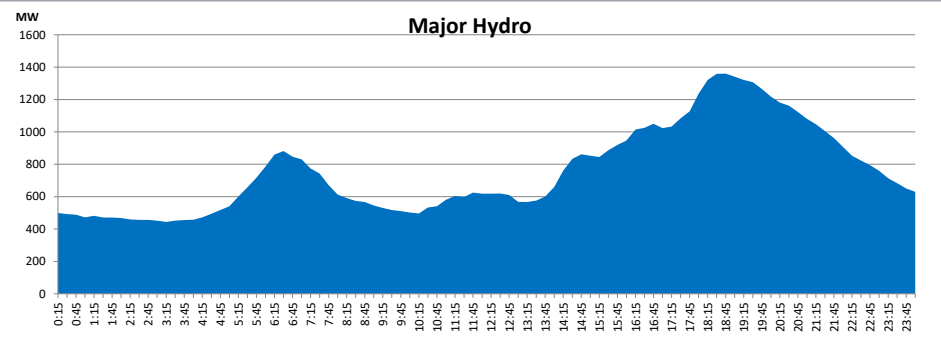
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IPP Oil Plant Generation during November 16, 2024

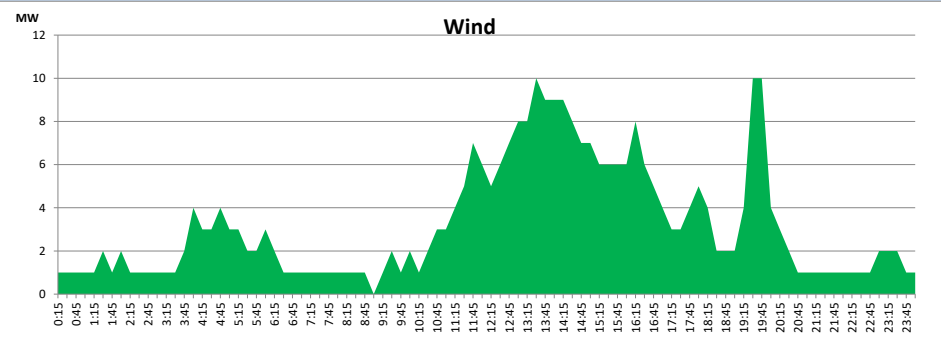


Major Hydro Generation during November 16, 2024



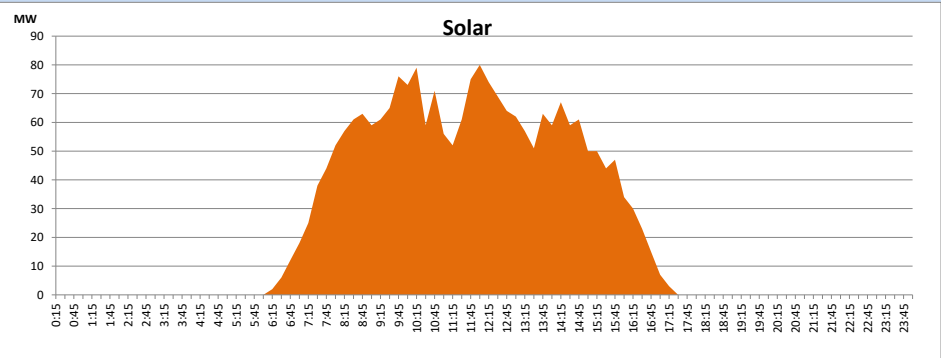
Wind Generation during November 16, 2024

Based on Telemetered Power Stations only



Solar Generation during November 16, 2024

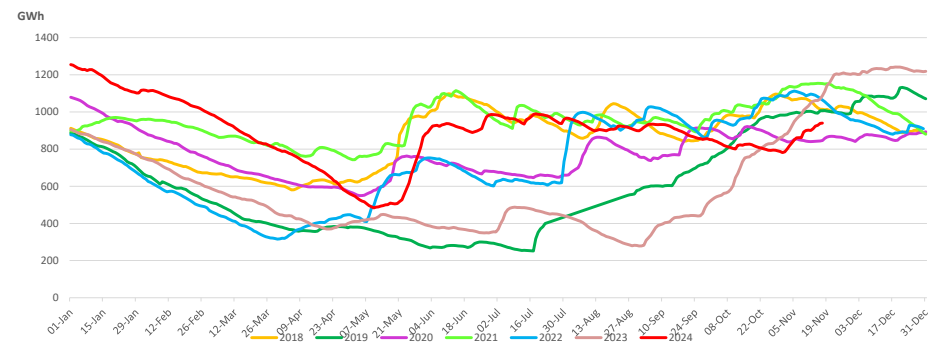
Based on Telemetered Power Stations only



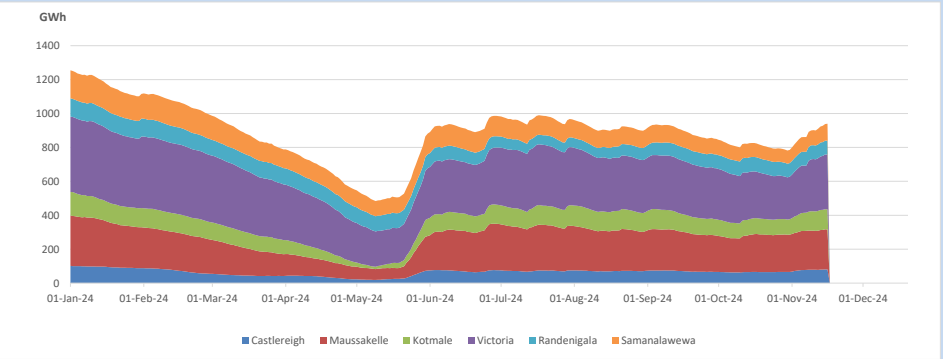
1.14 Major Incidents reported during the day November 16, 2024

Nil.

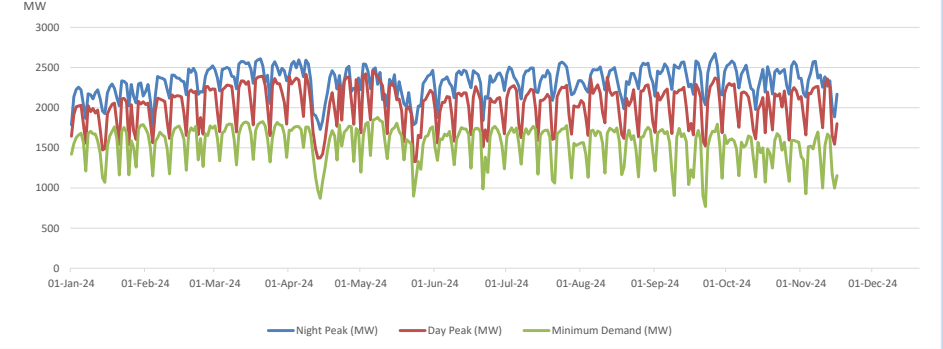
2. Comparison of Total Reservoir Storage Levels with Past Years



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

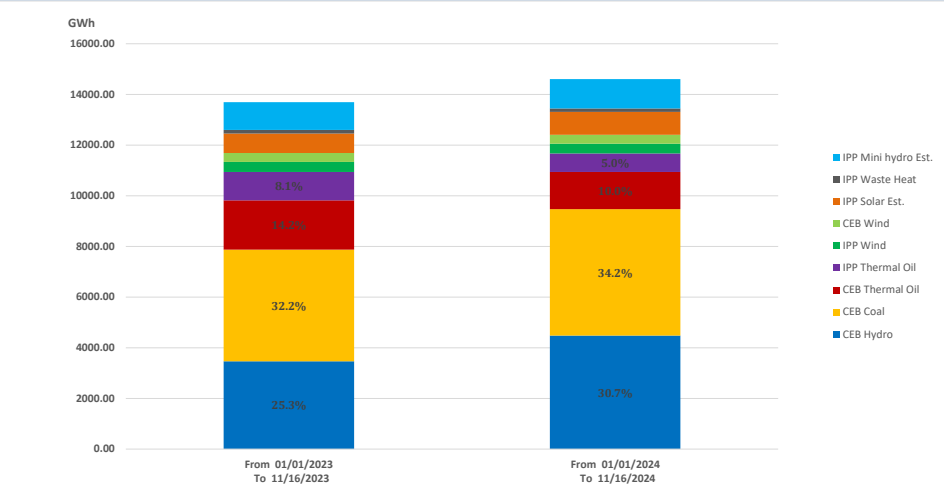


4. Variation of Demand during the current year



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 11/16/2023 13696 GWh
From 01/01/2024 To 11/16/2024 14605 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