

Generation and Reservoirs Statistics

November 15, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 15, 2024

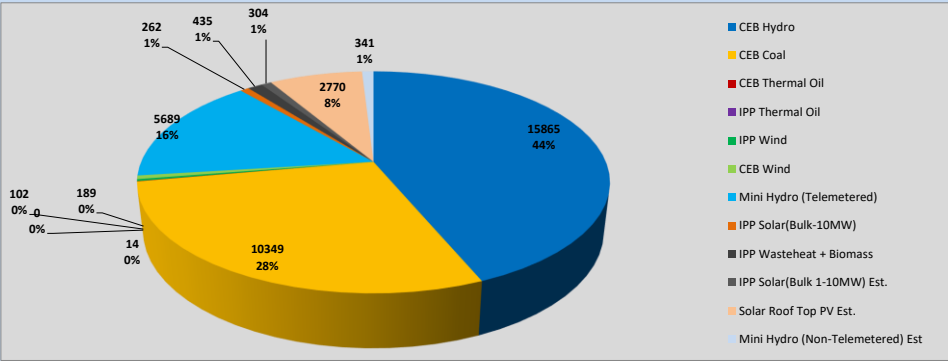


Table 01

	Generation (MWh)
CEB Hydro	15,865
CEB Coal	10,349
CEB Thermal Oil	14
IPP Thermal Oil	-
IPP Wind	102
CEB Wind	189
Mini Hydro (Telemetered)	5,689
IPP Solar (Bulk)	262
IPP Waste heat + Biomass	435
Total Generation (Excluding estimated figures)	32,905
* 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)	36,320
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	220	33.34%
CEB Coal	188	28.47%
CEB Thermal Oil	65	9.81%
IPP Thermal	37	5.57%
IPP Wind	4	0.62%
CEB Wind	5	0.81%
Mini Hydro *	83	12.66%
IPP Solar *	51	7.75%
IPP Waste heat + BMP	6	0.97%
Total	659	

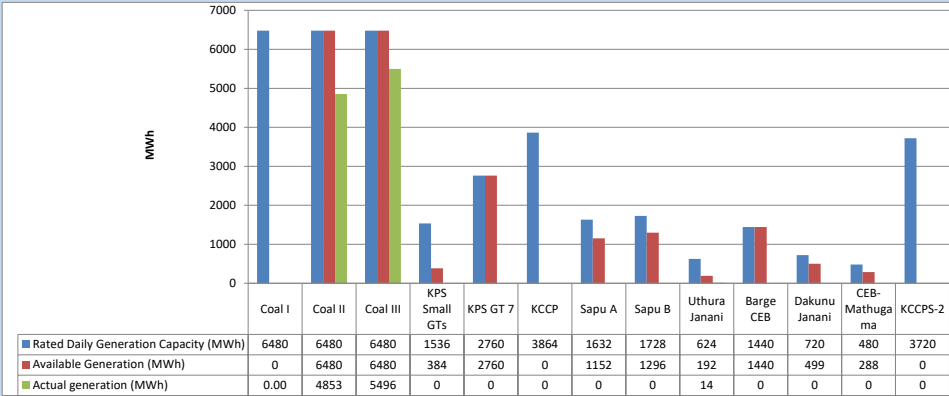
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,460	30.62%
CEB Coal	4,985	34.22%
CEB Thermal Oil	1,464	10.05%
IPP Thermal	734	5.04%
IPP Wind	381	2.61%
CEB Wind	353	2.42%
Mini Hydro *	1,153	7.92%
IPP Solar *	903	6.20%
IPP Waste heat	134	0.92%
Total	14,566	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

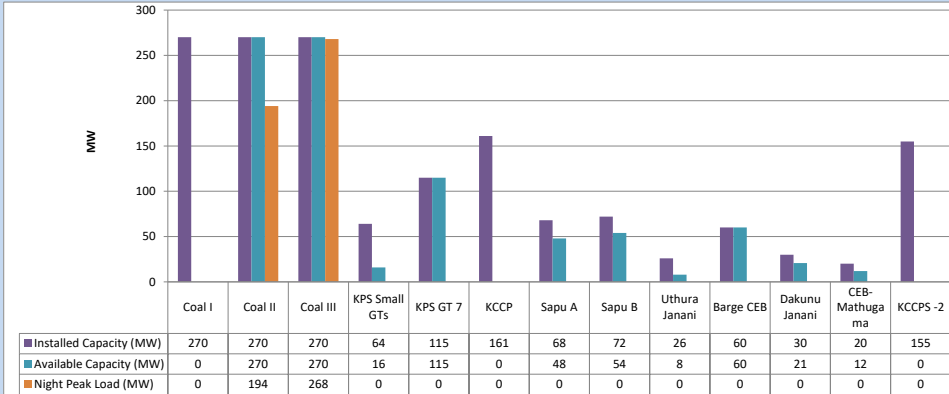
November 15, 2024



Available Generation is estimated based on plant availability at 6.00am on November 16, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

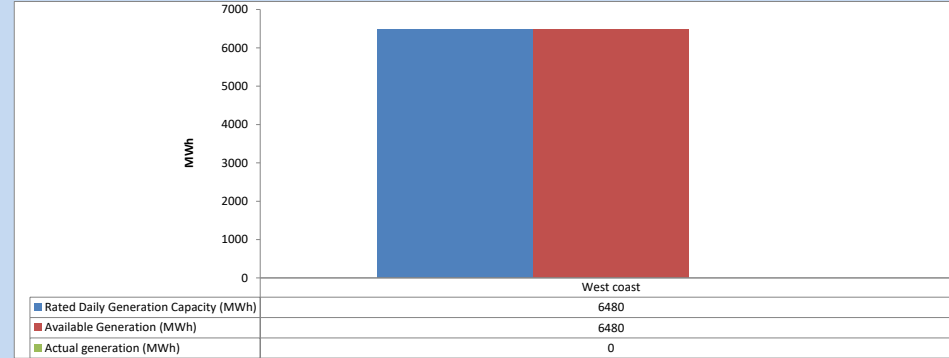
November 15, 2024



Plant availability is recorded at 6.00 am on November 16, 2024

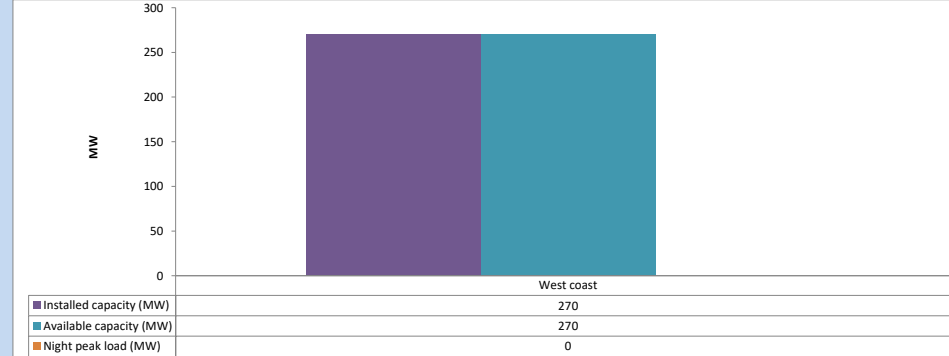
1.4 IPP owned Thermal Plant Dispatch

November 15, 2024



Available Generation is estimated based on plant availability at 6.00am on November 16, 2024

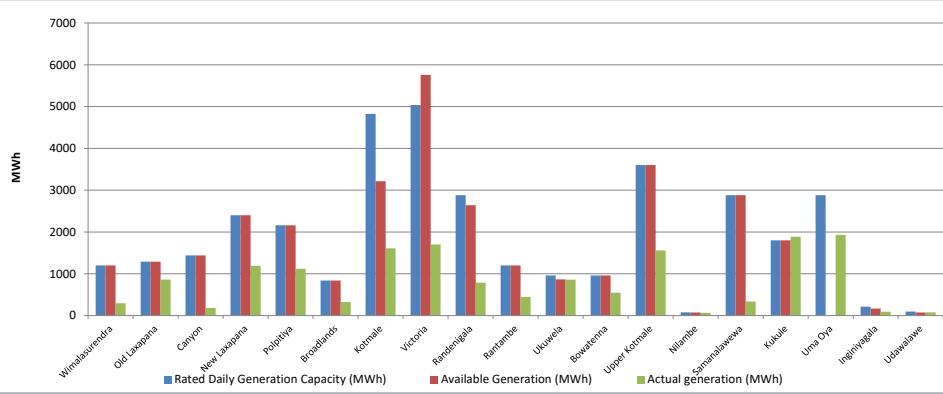
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 16, 2024

1.6 Major Hydro Plant Dispatch

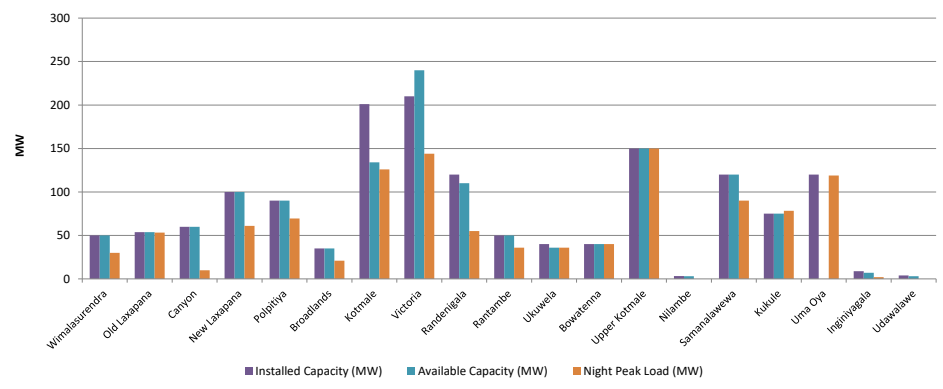
November 15, 2024



Available Generation is estimated based on plant availability at 6.00am on November 16, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 15, 2024



Plant availability is recorded at 6.00 am on November 16, 2024

1.8 Summary of Major Plant performance

November 15, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	295
Old Laxapana	54	54	53	863
Canyon	60	60	10	181
New Laxapana	100	100	61	1,190
Polpitiya	90	90	69	1,120
Broadlands	35	35	21	323
Kotmale	201	134	126	1,610
Victoria	210	240	144	1,703
Randenigala	120	110	55	787
Rantambe	50	50	36	446
Ukuwela	40	36	36	859
Bowatenna	40	40	40	545
Upper Kotmale	150	150	150	1,559
Nilambe	3	3	0	65
Samanalawewa	120	120	90	335
Kukule	75	75	78	1,885
Uma Oya	120	0	119	1,930
Inginipagala	9	7	2	93
Udawalawe	4	3	0	76
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	194	4,853
Puttalam Coal III	270	270	268	5,496
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	8	0	14
Barge CEB	60	60	0	0
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	2,713	1,872	32,905

Note- Plant availability is the availability recorded at 6 am on November 16, 2024

1.9 Contribution to the Night Peak in MW

November 15, 2024

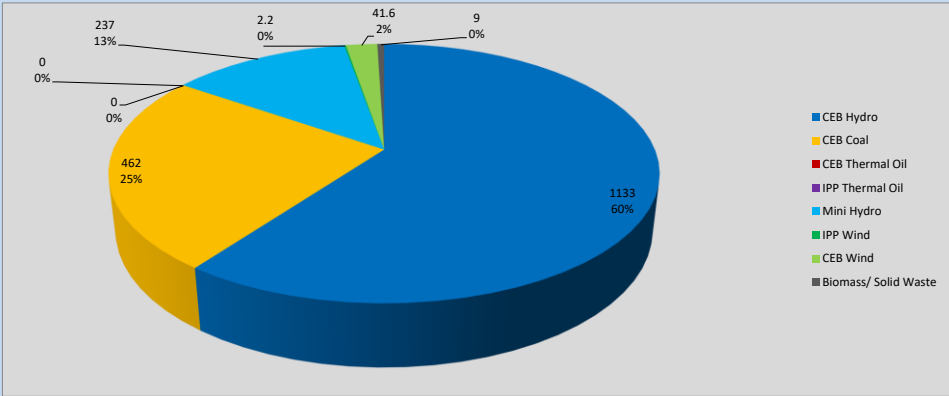


Table 05

CEB Hydro	1133	MW
CEB Coal	462	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	237	MW
IPP Wind	2.2	MW
CEB Wind	41.6	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

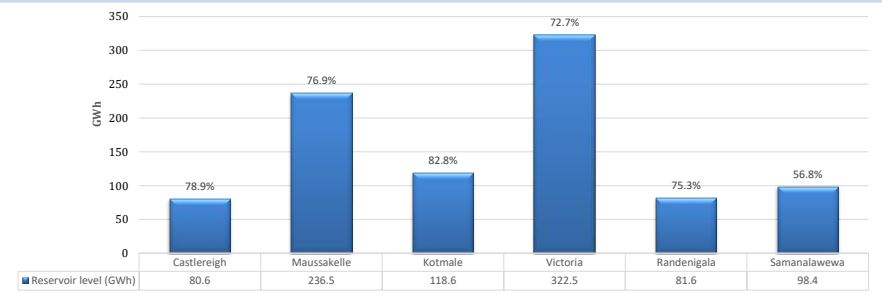
Table 06

Night Peak*	1,885	MW
Day Peak Maximum Demand	1,545	MW
Day Peak Minimum Demand	997	MW
Off Peak Minimum Demand	1,238	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 16, 2024



Total Reservoir Level 938.2 GWh
% of Total capacity 73.4%

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

November 15, 2024

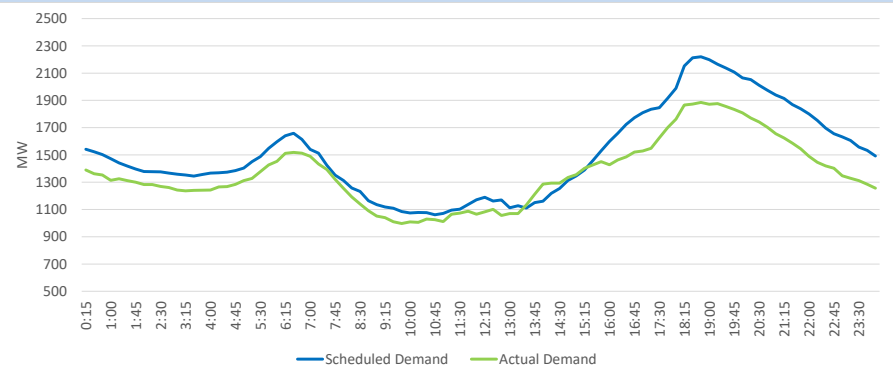
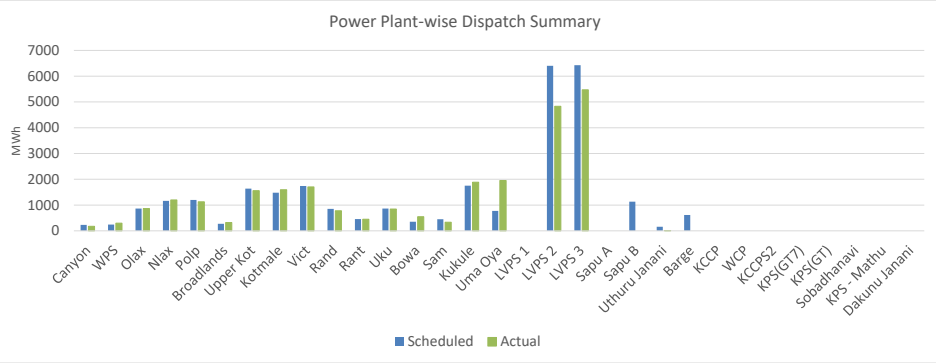


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,319	15,631	1,312
CEB Coal	12,827	10,302	(2,525)
CEB Thermal Oil	1,905	15	(1,891)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,109	6,822	(287)
Total	36,160	32,769	(3,391)

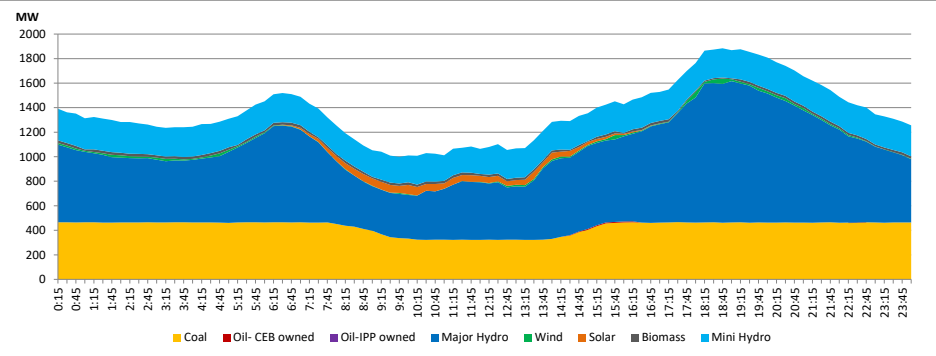
1.12 Power Plant-wise Dispatch Summary

November 15, 2024



1.13 Daily Load Curve

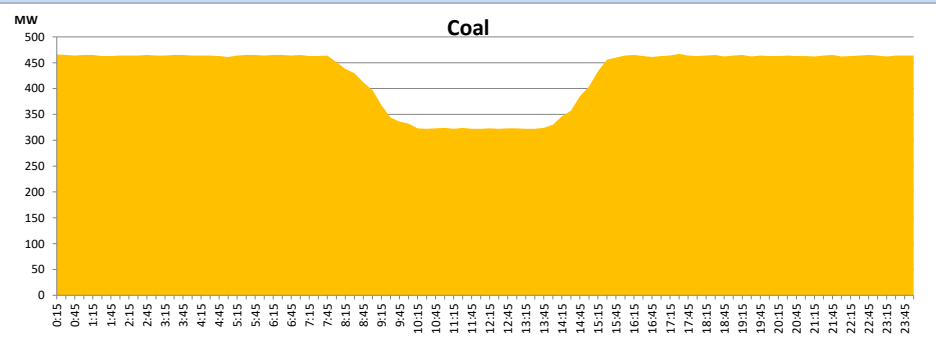
November 15, 2024



Solar and wind data is based on Telemetered Power Stations only

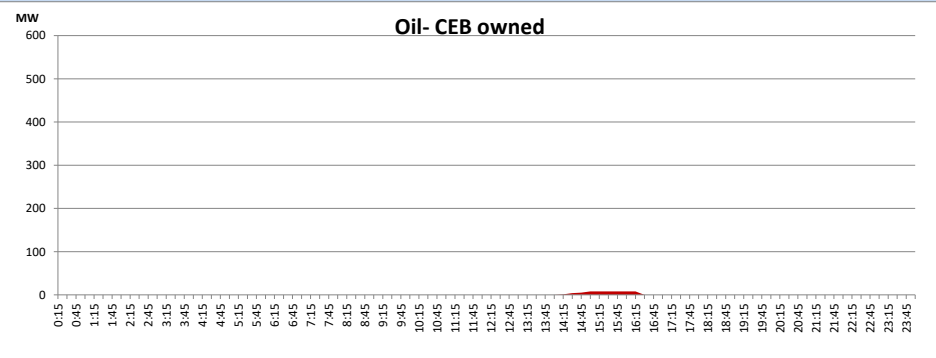
Coal Generation during

November 15, 2024

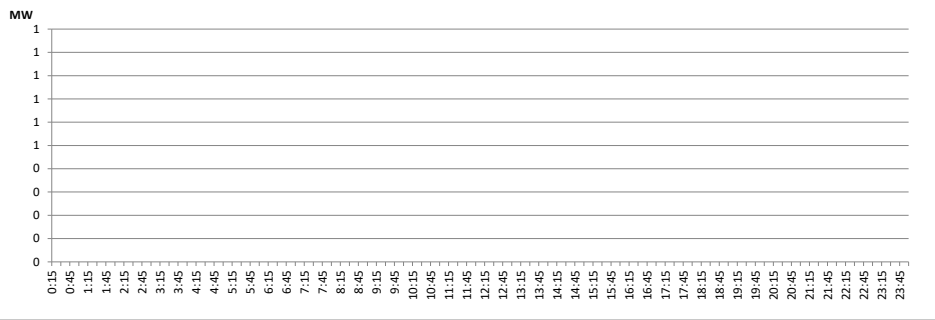


CEB Oil Plant Generation during

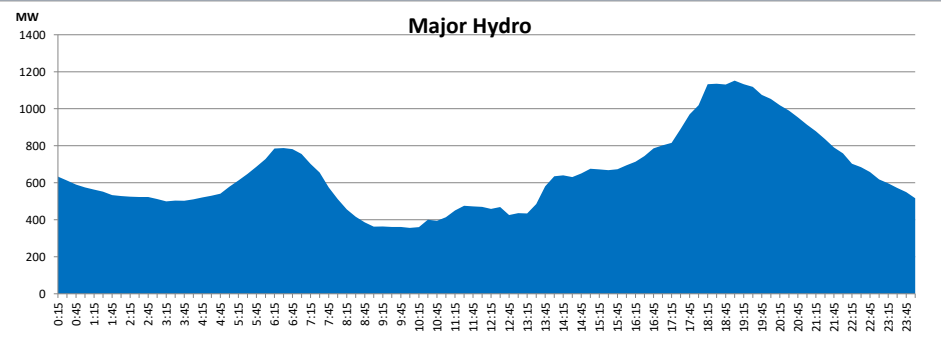
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IPP Oil Plant Generation during November 15, 2024

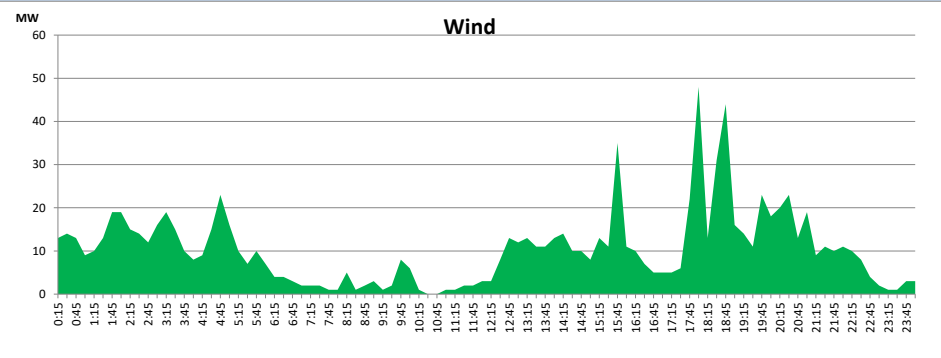


Major Hydro Generation during November 15, 2024



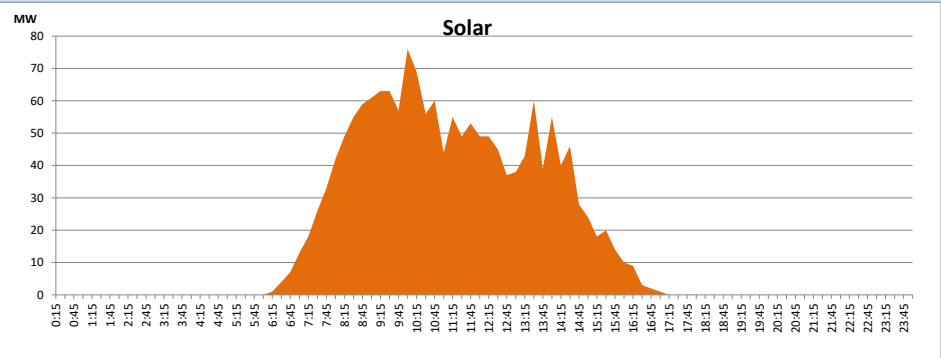
Wind Generation during November 15, 2024

Based on Telemetered Power Stations only



Solar Generation during November 15, 2024

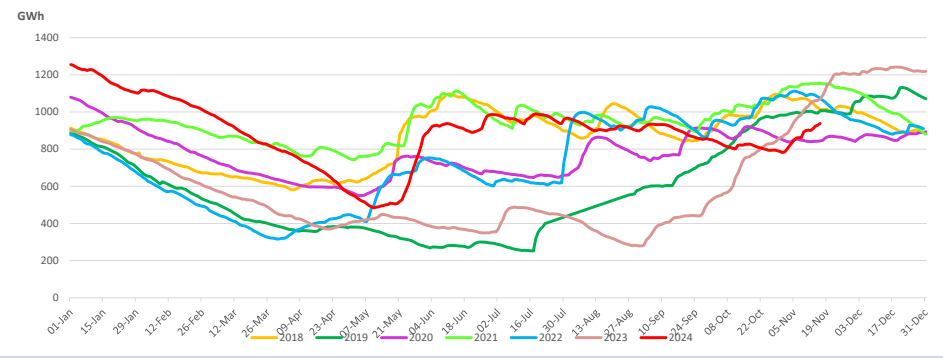
Based on Telemetered Power Stations only



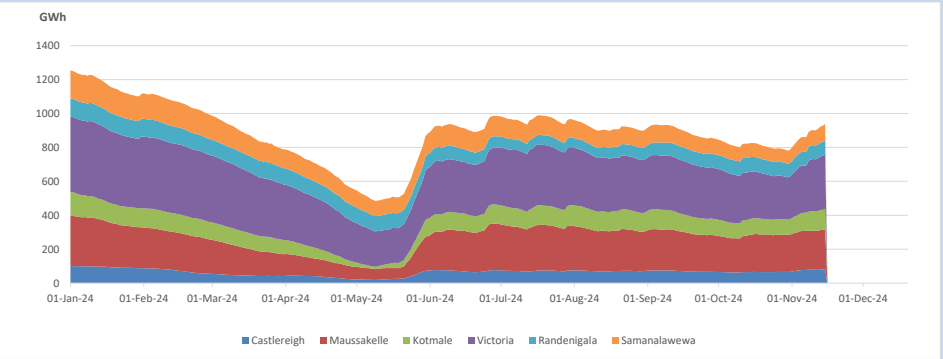
1.14 Major Incidents reported during the day November 15, 2024

Nil.

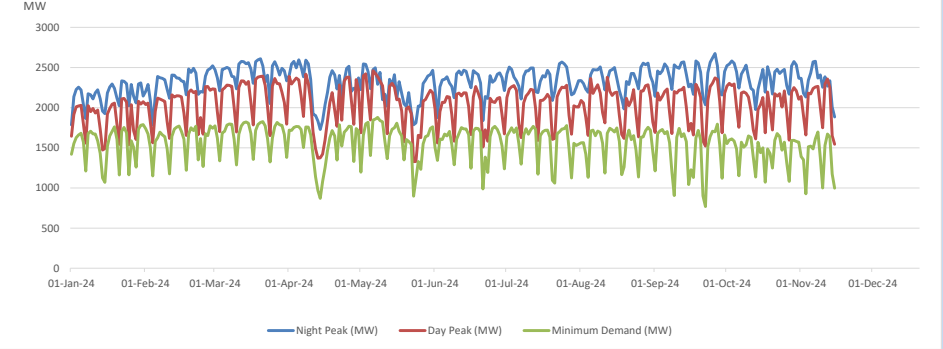
2. Comparison of Total Reservoir Storage Levels with Past Years



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

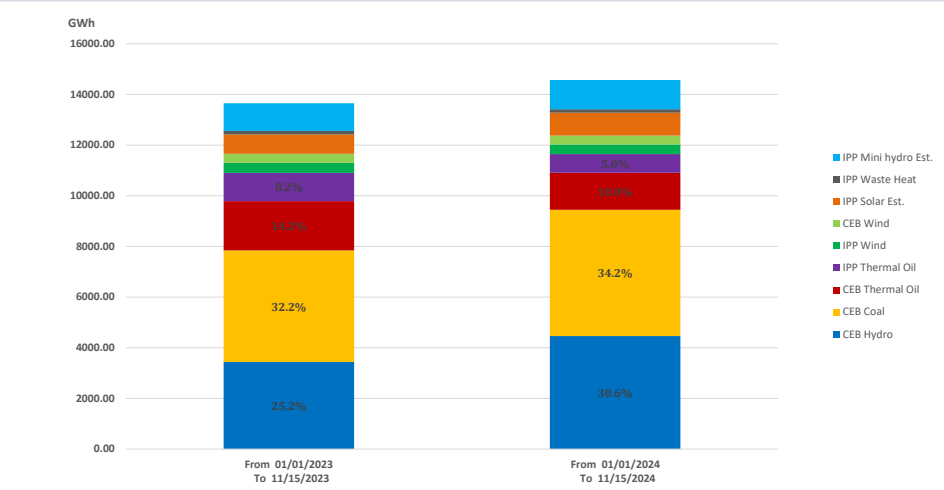


4. Variation of Demand during the current year



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 11/15/2023 13653 GWh
From 01/01/2024 To 11/15/2024 14566 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