

Generation and Reservoirs Statistics

November 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 13, 2024

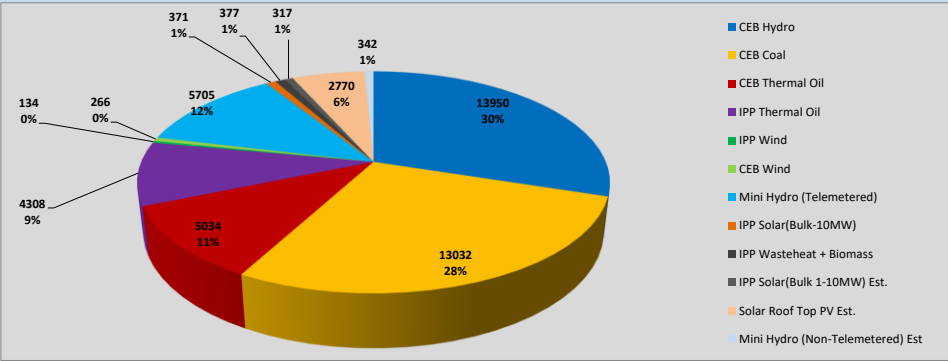


Table 01

	Generation (MWh)
CEB Hydro	13,950
CEB Coal	13,032
CEB Thermal Oil	5,034
IPP Thermal Oil	4,308
IPP Wind	134
CEB Wind	266
Mini Hydro (Telemetered)	5,705
IPP Solar (Bulk)	371
IPP Waste heat + Biomass	377
Total Generation (Excluding estimated figures)	43,177
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	342
* Estimated IPP Solar PV (Bulk 1-10MW)	317
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,606
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	188	32.30%
CEB Coal	165	28.32%
CEB Thermal Oil	63	10.78%
IPP Thermal	37	6.29%
IPP Wind	4	0.67%
CEB Wind	5	0.87%
Mini Hydro *	71	12.23%
IPP Solar *	44	7.61%
IPP Waste heat + BMP	5	0.94%
Total	583	

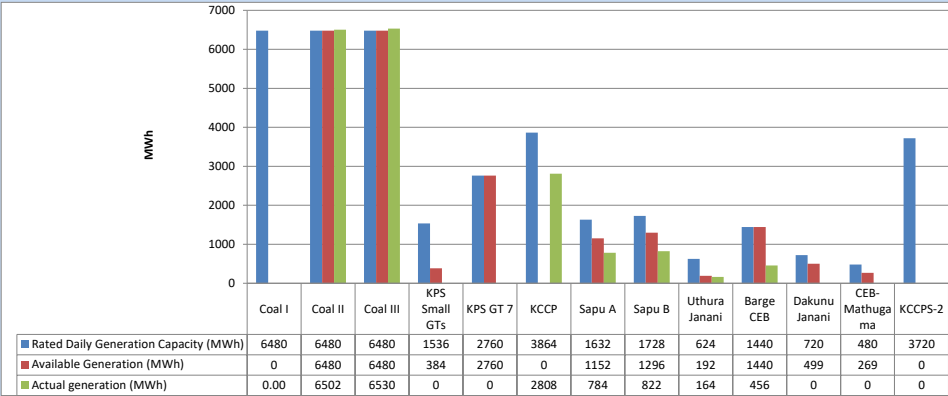
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,429	30.56%
CEB Coal	4,963	34.25%
CEB Thermal Oil	1,462	10.09%
IPP Thermal	734	5.07%
IPP Wind	380	2.62%
CEB Wind	353	2.43%
Mini Hydro *	1,141	7.87%
IPP Solar *	896	6.18%
IPP Waste heat	133	0.92%
Total	14,491	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

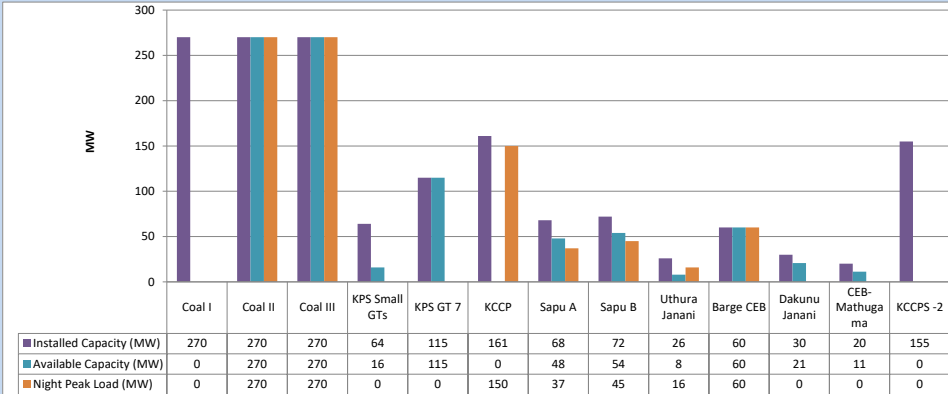
November 13, 2024



Available Generation is estimated based on plant availability at 6.00am on November 14, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

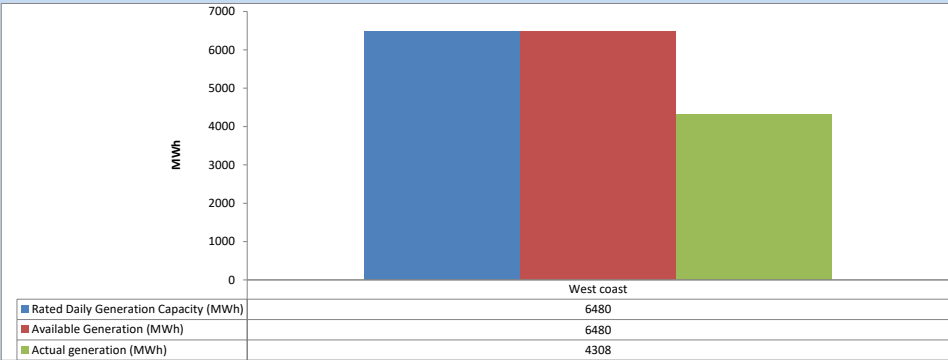
November 13, 2024



Plant availability is recorded at 6.00 am on November 14, 2024

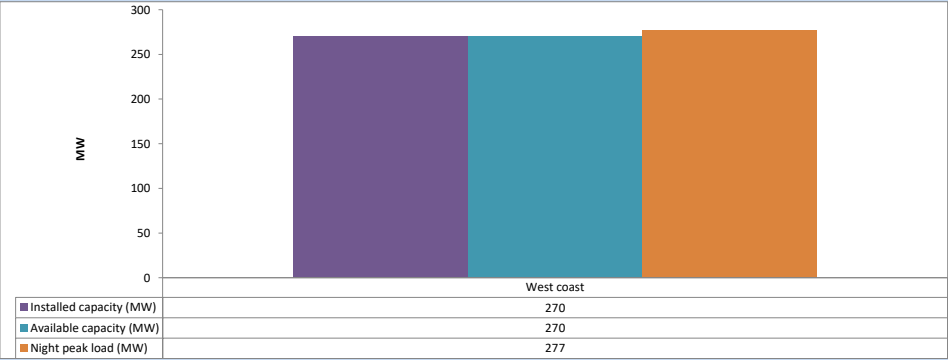
1.4 IPP owned Thermal Plant Dispatch

November 13, 2024



Available Generation is estimated based on plant availability at 6.00am on November 14, 2024

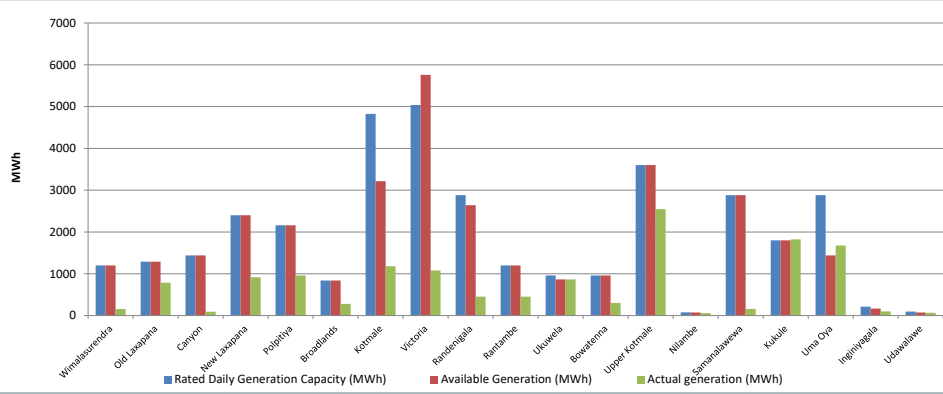
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 14, 2024

1.6 Major Hydro Plant Dispatch

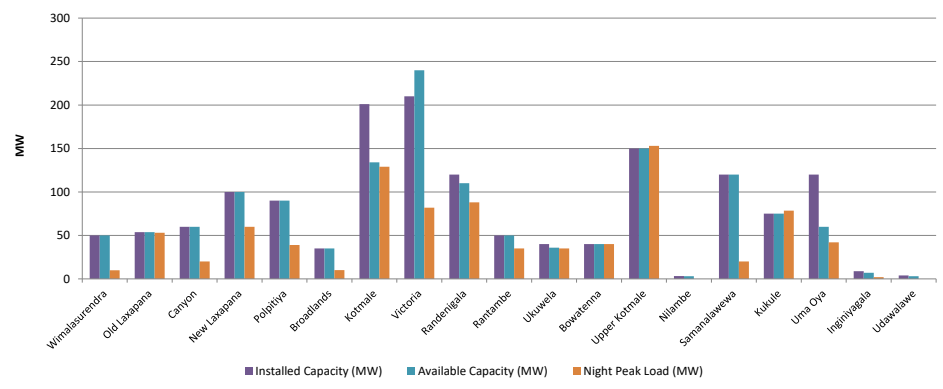
November 13, 2024



Available Generation is estimated based on plant availability at 6.00am on November 14, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 13, 2024



Plant availability is recorded at 6.00 am on November 14, 2024

1.8 Summary of Major Plant performance

November 13, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	10	155
Old Laxapana	54	54	53	787
Canyon	60	60	20	92
New Laxapana	100	100	60	919
Polpitiya	90	90	39	960
Broadlands	35	35	10	280
Kotmale	201	134	129	1,180
Victoria	210	240	82	1,080
Randenigala	120	110	88	451
Rantambe	50	50	35	453
Ukuwela	40	36	35	866
Bowatenna	40	40	40	301
Upper Kotmale	150	150	153	2,546
Nilambe	3	3	0	60
Samanalawewa	120	120	20	160
Kukule	75	75	79	1,823
Uma Oya	120	60	42	1,676
Inginipagala	9	7	2	98
Udawalawe	4	3	0	65
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,502
Puttalam Coal III	270	270	270	6,530
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	150	2,808
Sapugaskanda A	68	48	37	784
Sapugaskanda B	72	54	45	822
Uthura Janani	26	8	16	164
Barge CEB	60	60	60	456
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	11	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	277	4,308
Sobadhanavi	220	0	0	0
Total	3,602	2,772	2,320	43,179

Note- Plant availability is the availability recorded at 6 am on November 14, 2024

1.9 Contribution to the Night Peak in MW

November 13, 2024

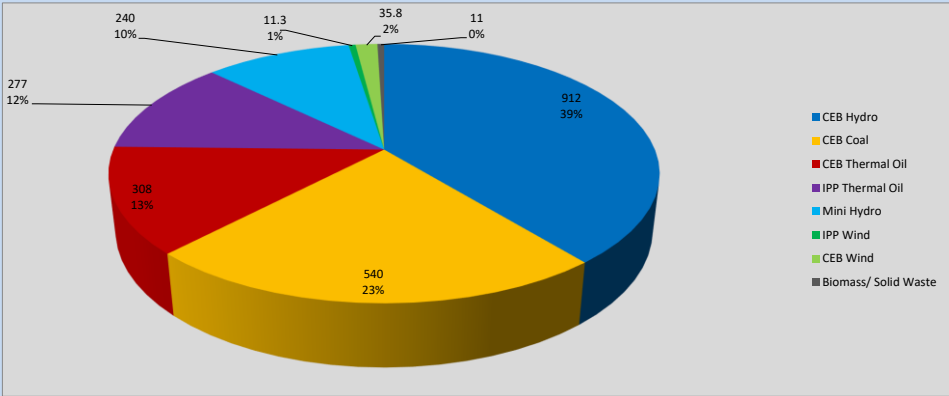


Table 05

CEB Hydro	912	MW
CEB Coal	540	MW
CEB Thermal Oil	308	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	240	MW
IPP Wind	11.3	MW
CEB Wind	35.8	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

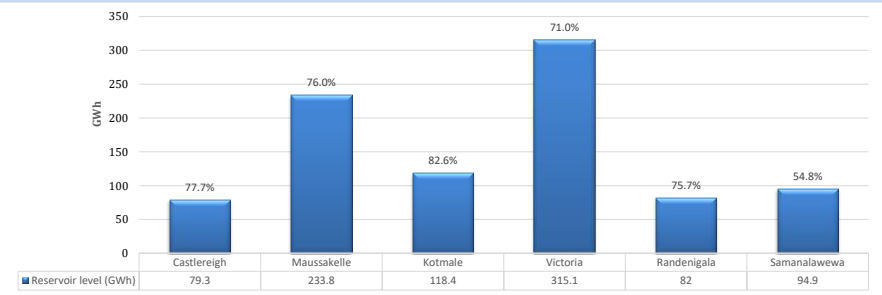
Table 06

Night Peak*	2,335	MW
Day Peak Maximum Demand	2,250	MW
Day Peak Minimum Demand	1,635	MW
Off Peak Minimum Demand	1,436	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 14, 2024



Total Reservoir Level 923.5 GWh
% of Total capacity 72.2%

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

November 13, 2024

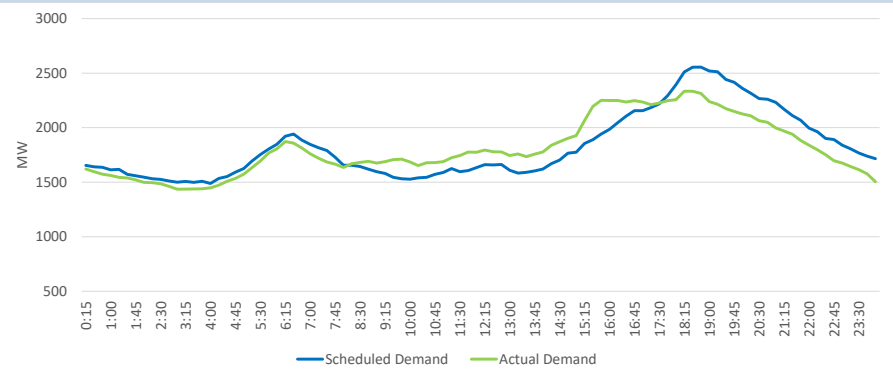
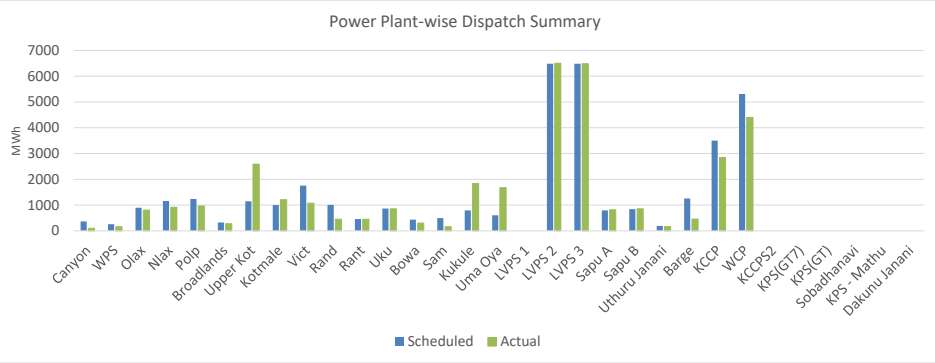


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,790	13,795	1,005
CEB Coal	12,960	12,987	27
CEB Thermal Oil	6,576	5,143	(1,433)
IPP Thermal Oil	5,310	4,404	(906)
NCRE (Telemetered)	6,202	7,103	901
Total	43,837	43,432	(405)

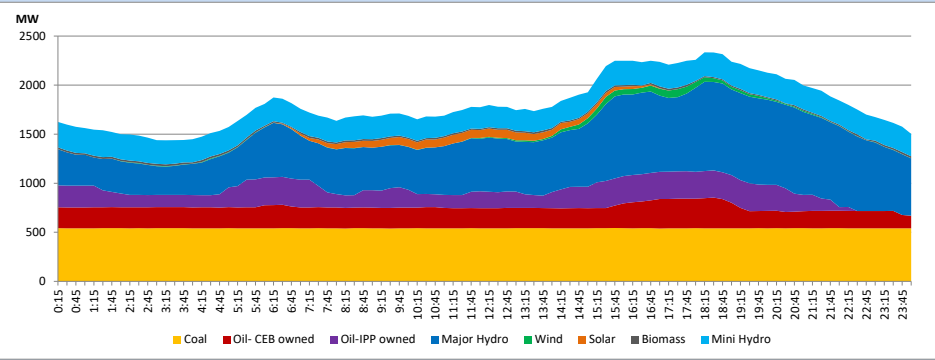
1.12 Power Plant-wise Dispatch Summary

November 13, 2024



1.13 Daily Load Curve

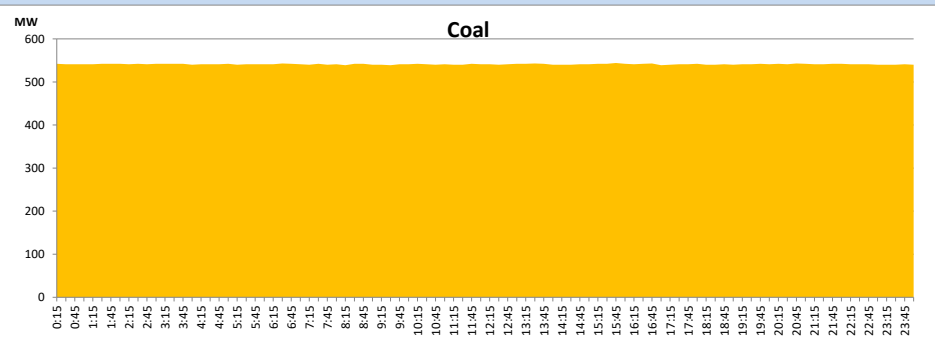
November 13, 2024



Solar and wind data is based on Telemetered Power Stations only

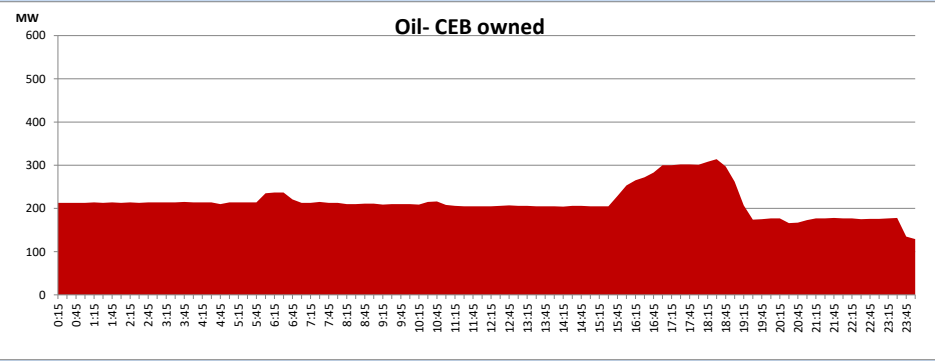
Coal Generation during

November 13, 2024

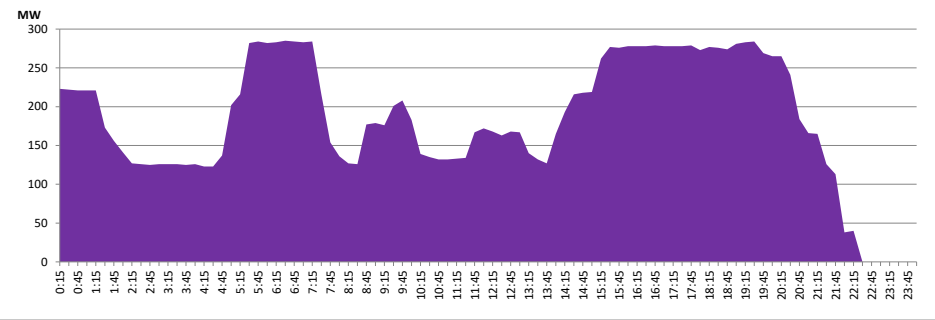


CEB Oil Plant Generation during

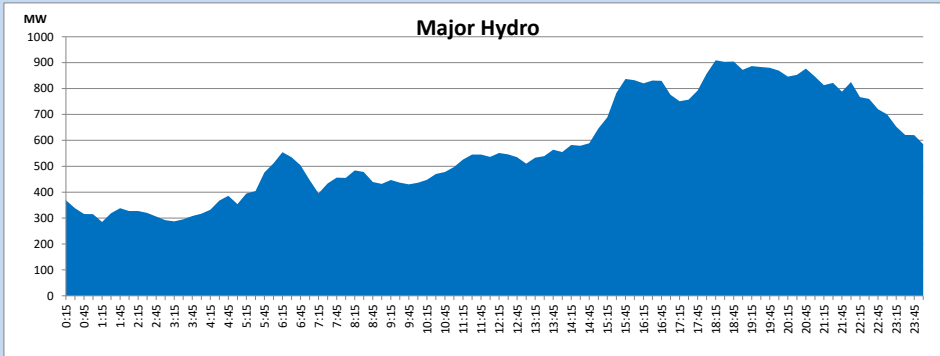
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IPP Oil Plant Generation during November 13, 2024

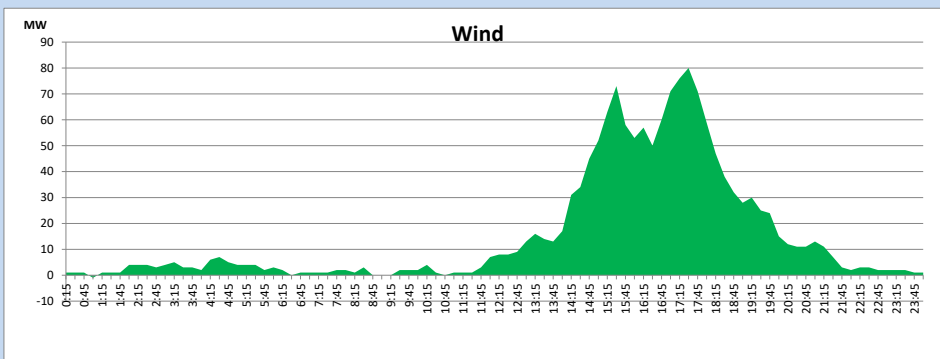


Major Hydro Generation during November 13, 2024



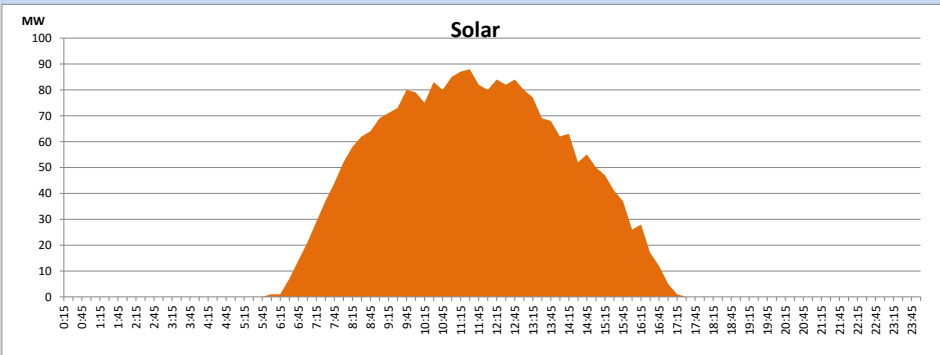
Wind Generation during November 13, 2024

Based on Telemetered Power Stations only



Solar Generation during November 13, 2024

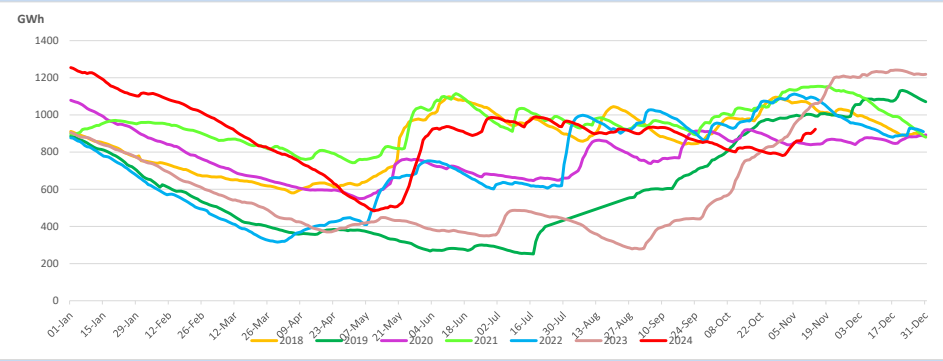
Based on Telemetered Power Stations only



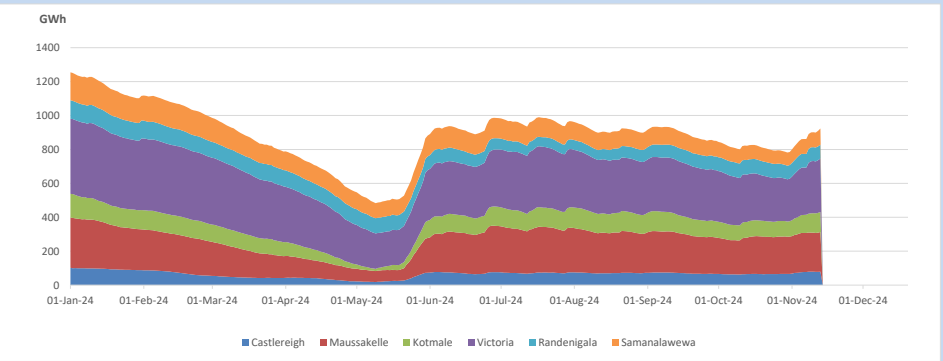
1.14 Major Incidents reported during the day November 13, 2024

- 1) Sobadhanavi ST main transformer was energized first time for the soak test at 13:40hrs.
- 2) Habarana - Naula 132kV cct which was manually switched off on 04.11.2024, was normalized at 13:48hrs.
- 3) Balangoda - New Galle and Deniyaya - New Galle 132kV both ccts were tripped & A/R from both ends of each cct at 16:41hrs due to the operation of directional E/F protection.
- 4) Uma Oya Dyraaba pond spilling started at 17:18hrs and spilling stopped at 21:17hrs.
- 5) Uma Oya Puhulpola pond spilling started at 21:18hrs and spilling stopped at 01:57hrs (14.11.2024).

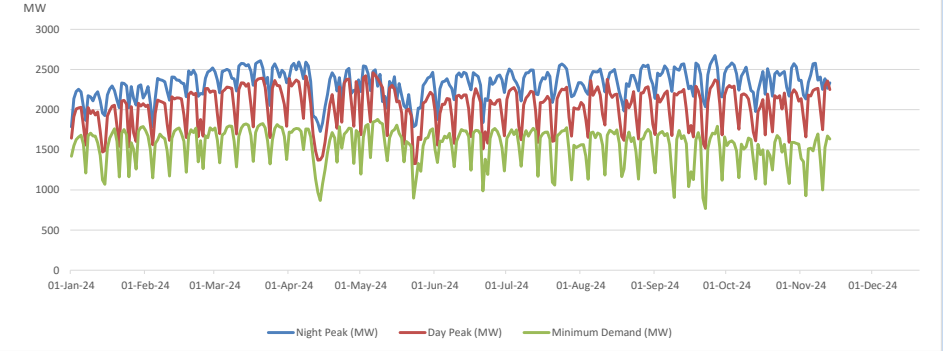
2. Comparison of Total Reservoir Storage Levels with Past Years



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

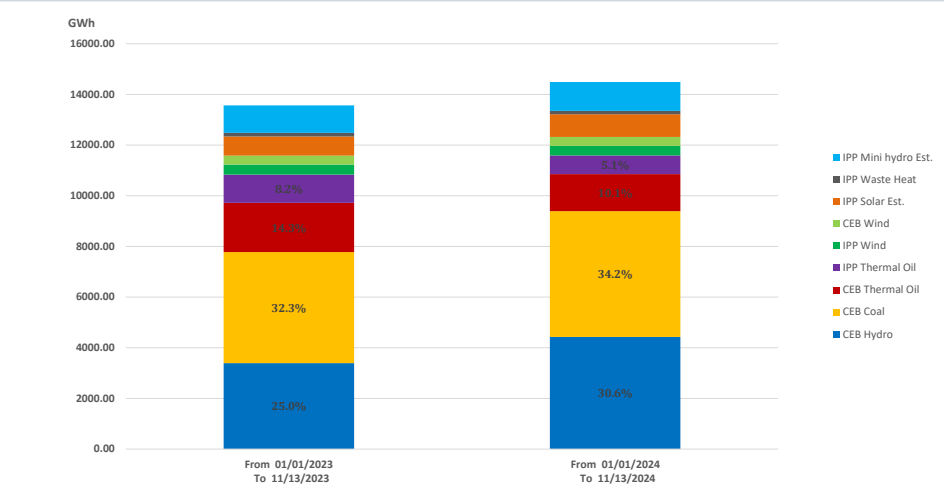


4. Variation of Demand during the current year



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 11/13/2023 13567 GWh
From 01/01/2024 To 11/13/2024 14491 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