

Generation and Reservoirs Statistics

November 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 6, 2024

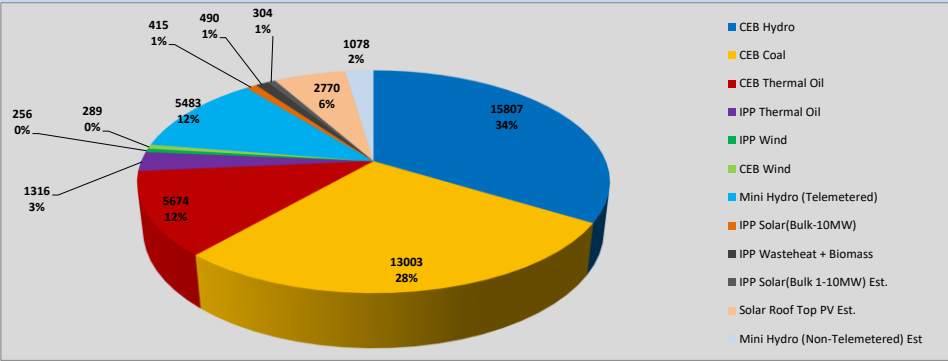


Table 01

	Generation (MWh)
CEB Hydro	15,807
CEB Coal	13,003
CEB Thermal Oil	5,674
IPP Thermal Oil	1,316
IPP Wind	256
CEB Wind	289
Mini Hydro (Telemetered)	5,483
IPP Solar (Bulk)	415
IPP Waste heat + Biomass	490
Total Generation (Excluding estimated figures)	42,733
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1,078
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,885

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	92	34.85%
CEB Coal	75	28.74%
CEB Thermal Oil	23	8.85%
IPP Thermal	13	5.10%
IPP Wind	1	0.32%
CEB Wind	1	0.30%
Mini Hydro *	35	13.24%
IPP Solar *	20	7.78%
IPP Waste heat + BMP	2	0.82%
Total	263	

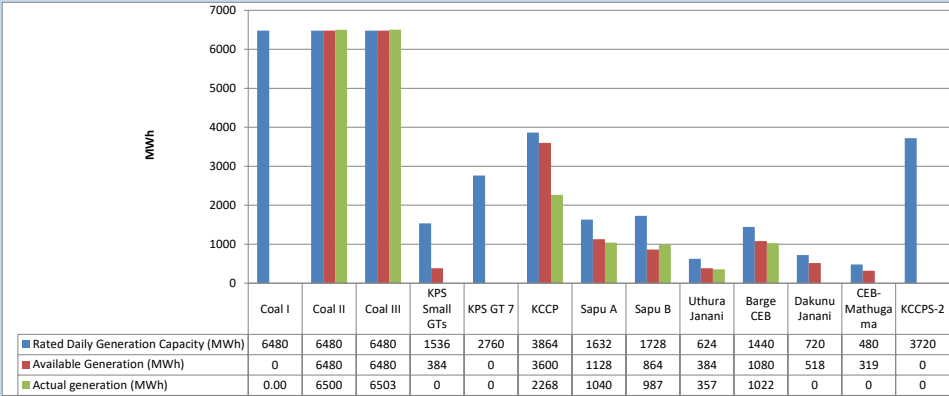
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,332	30.57%
CEB Coal	4,873	34.39%
CEB Thermal Oil	1,422	10.04%
IPP Thermal	711	5.02%
IPP Wind	377	2.66%
CEB Wind	348	2.46%
Mini Hydro *	1,104	7.79%
IPP Solar *	872	6.16%
IPP Waste heat	130	0.91%
Total	14,170	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

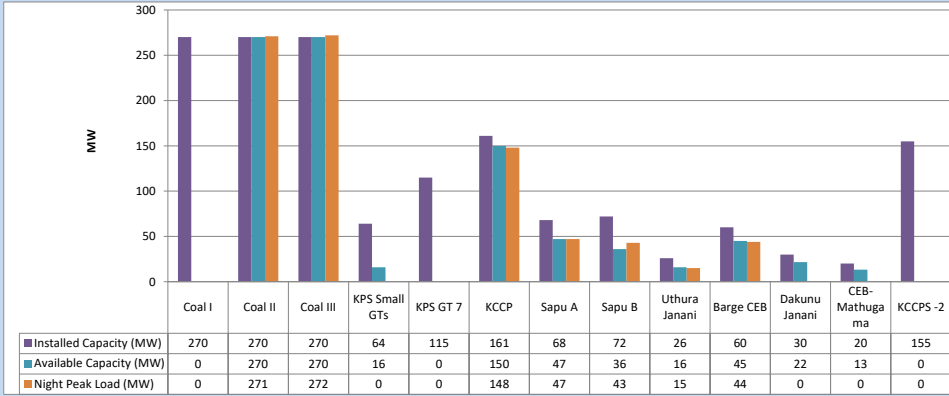
November 6, 2024



Available Generation is estimated based on plant availability at 6.00am on November 7, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

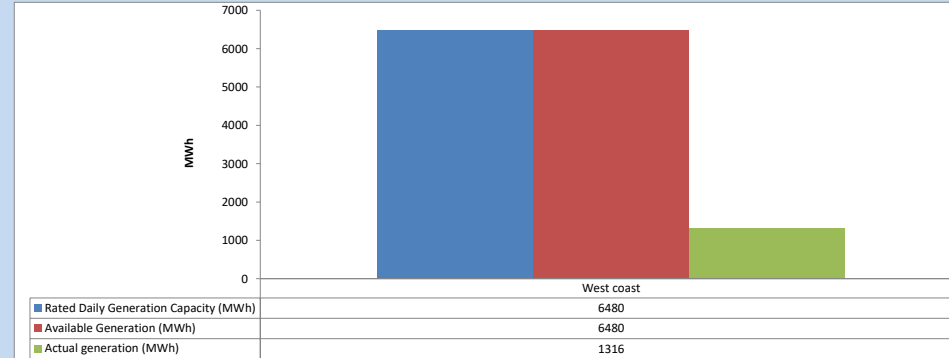
November 6, 2024



Plant availability is recorded at 6.00 am on November 7, 2024

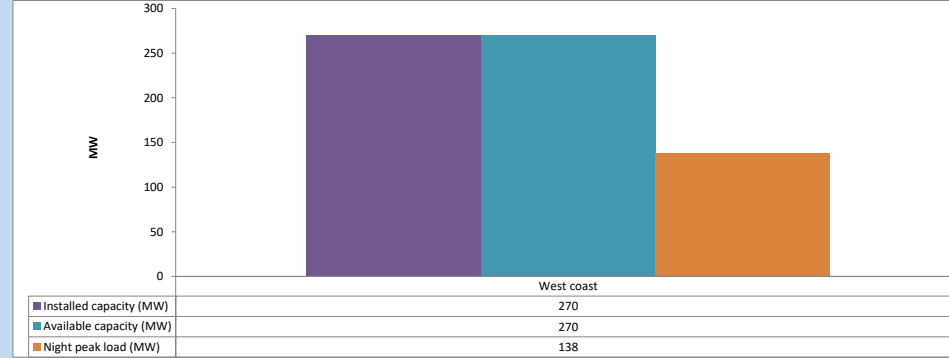
1.4 IPP owned Thermal Plant Dispatch

November 6, 2024



Available Generation is estimated based on plant availability at 6.00am on November 7, 2024

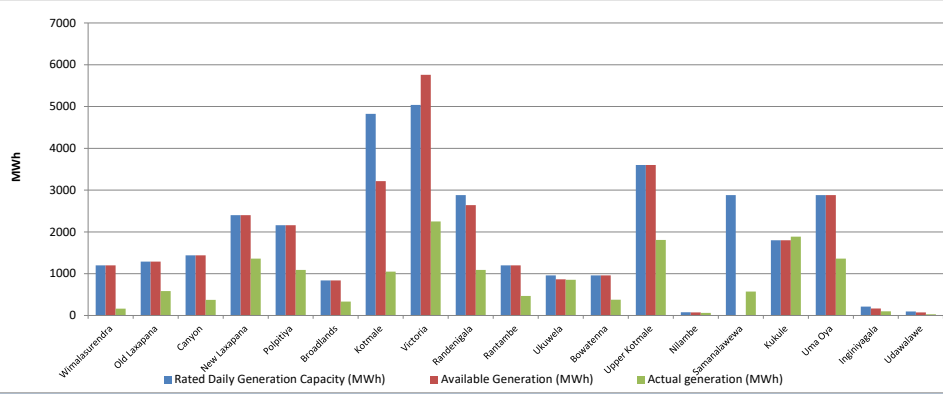
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 7, 2024

1.6 Major Hydro Plant Dispatch

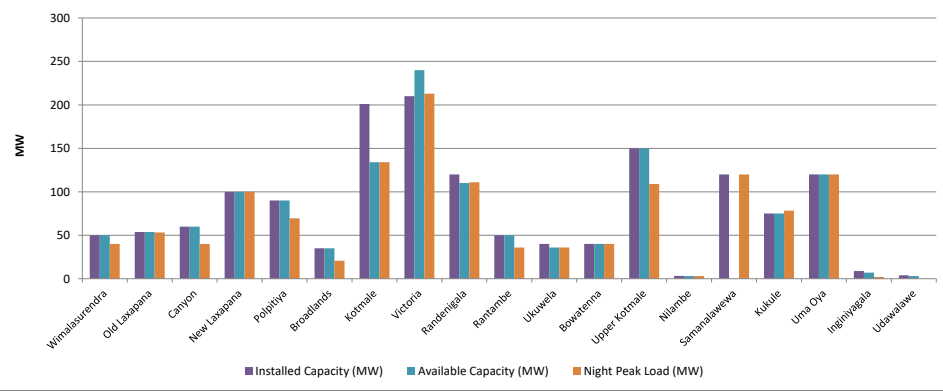
November 6, 2024



Available Generation is estimated based on plant availability at 6.00am on November 7, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 6, 2024



Plant availability is recorded at 6.00 am on November 7, 2024

1.8 Summary of Major Plant performance

November 6, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	40	162
Old Laxapana	54	54	53	583
Canyon	60	60	40	372
New Laxapana	100	100	100	1,361
Polpitiya	90	90	70	1,090
Broadlands	35	35	21	332
Kotmale	201	134	134	1,050
Victoria	210	240	213	2,249
Randenigala	120	110	111	1,090
Rantambe	50	50	36	468
Ukuwela	40	36	36	854
Bowatenna	40	40	40	379
Upper Kotmale	150	150	109	1,807
Nilambe	3	3	3	63
Samanalawewa	120	0	120	572
Kukule	75	75	78	1,885
Uma Oya	120	120	120	1,360
Inginipigala	9	7	2	100
Udawalawe	4	3	0	30
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,500
Puttalam Coal III	270	270	272	6,503
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	148	2,268
Sapugaskanda A	68	47	47	1,040
Sapugaskanda B	72	36	43	987
Uthura Janani	26	16	15	357
Barge CEB	60	45	44	1,022
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	138	1,316
Sobadhanavi	220	0	0	0
Total	3,602	2,724	2,556	42,733

Note- Plant availability is the availability recorded at 6 am on November 7, 2024

1.9 Contribution to the Night Peak in MW

November 6, 2024

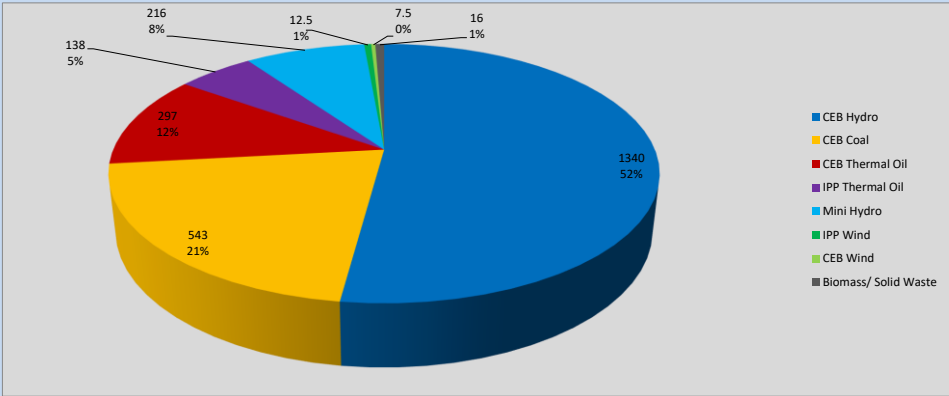


Table 05

CEB Hydro	1340	MW
CEB Coal	543	MW
CEB Thermal Oil	297	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	216	MW
IPP Wind	12.5	MW
CEB Wind	7.5	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

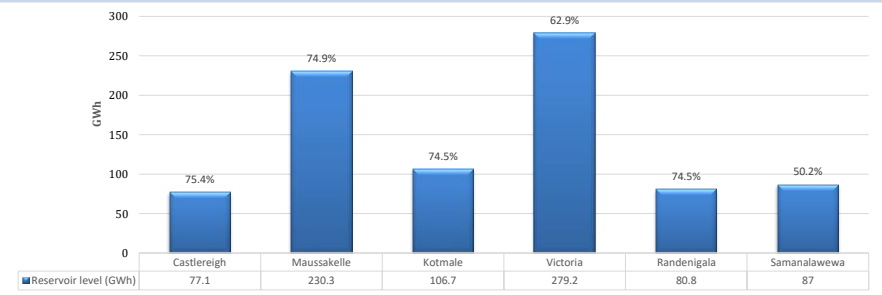
Table 06

Night Peak*	2,570	MW
Day Peak Maximum Demand	2,239	MW
Day Peak Minimum Demand	1,486	MW
Off Peak Minimum Demand	1,355	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 7, 2024



Total Reservoir Level 861.1 GWh
% of Total capacity 67.3%

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

November 6, 2024

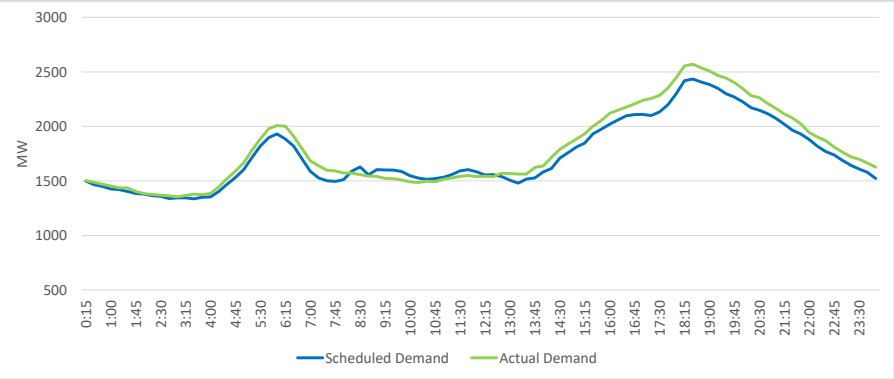
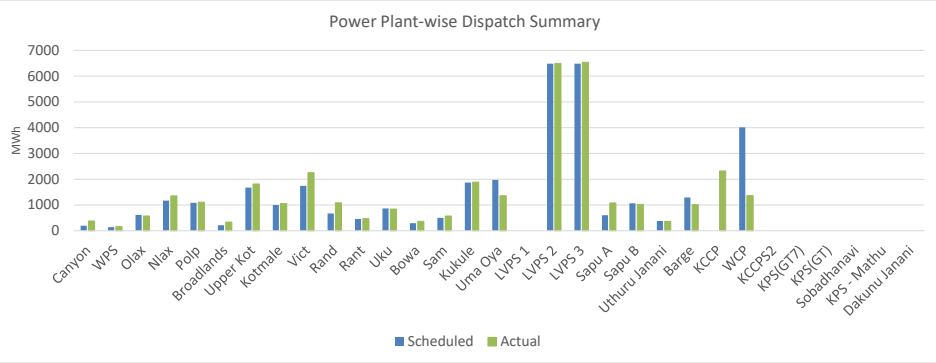


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,462	15,621	1,159
CEB Coal	12,960	13,033	73
CEB Thermal Oil	3,339	5,797	2,458
IPP Thermal Oil	4,015	1,365	(2,650)
NCRE (Telemetered)	6,790	7,099	309
Total	41,565	42,915	1,350

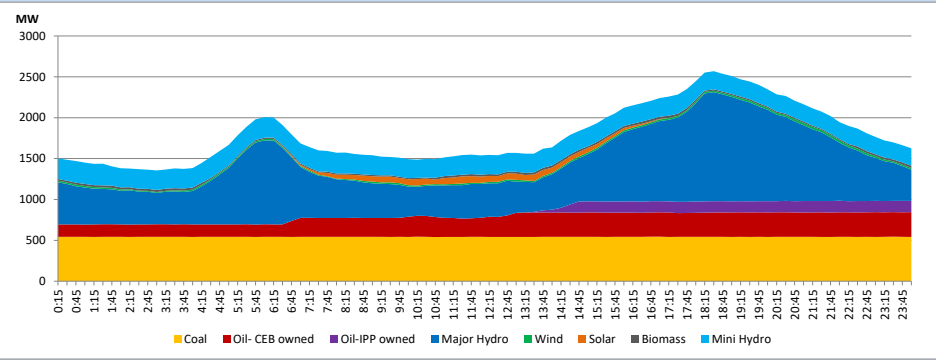
1.12 Power Plant-wise Dispatch Summary

November 6, 2024



1.13 Daily Load Curve

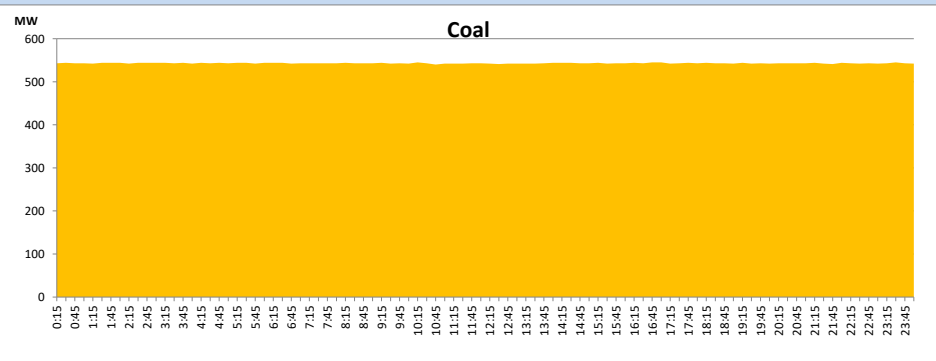
November 6, 2024



Solar and wind data is based on Telemetered Power Stations only

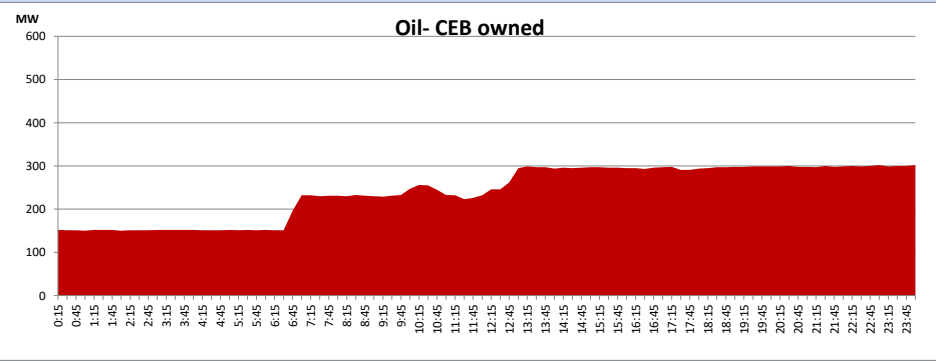
Coal Generation during

November 6, 2024

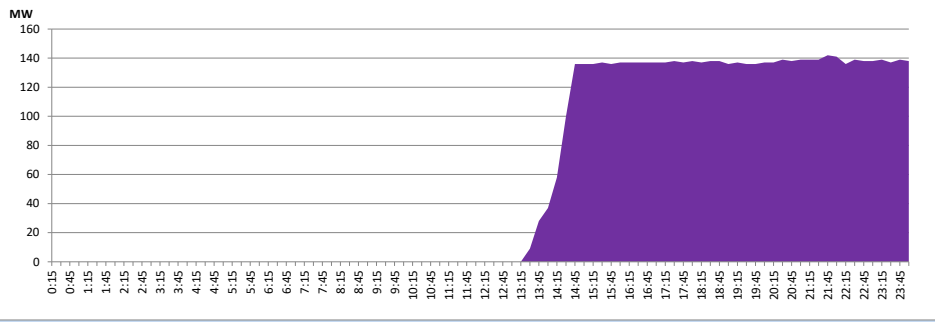


CEB Oil Plant Generation during

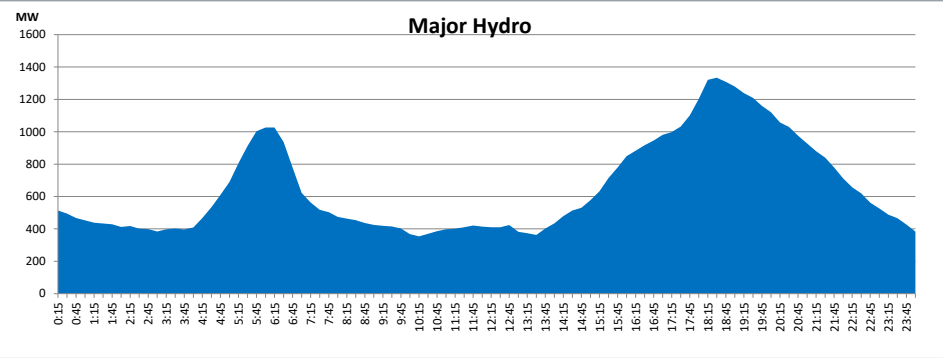
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IPP Oil Plant Generation during November 6, 2024

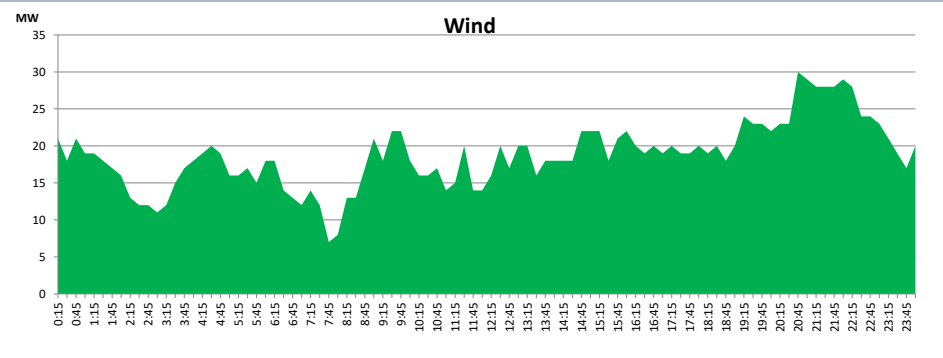


Major Hydro Generation during November 6, 2024



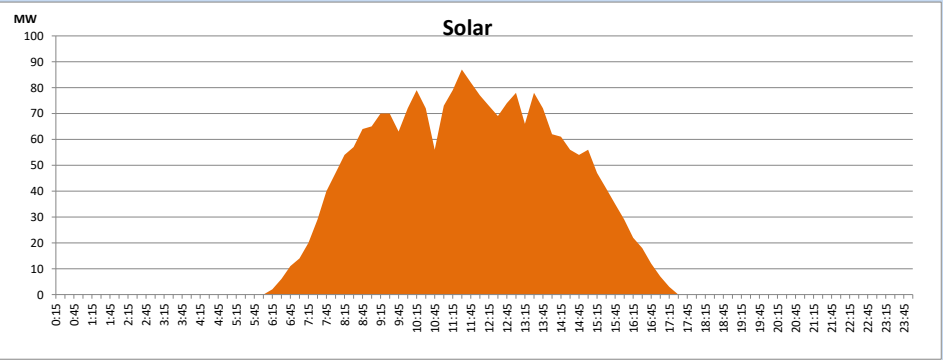
Wind Generation during November 6, 2024

Based on Telemetered Power Stations only



Solar Generation during November 6, 2024

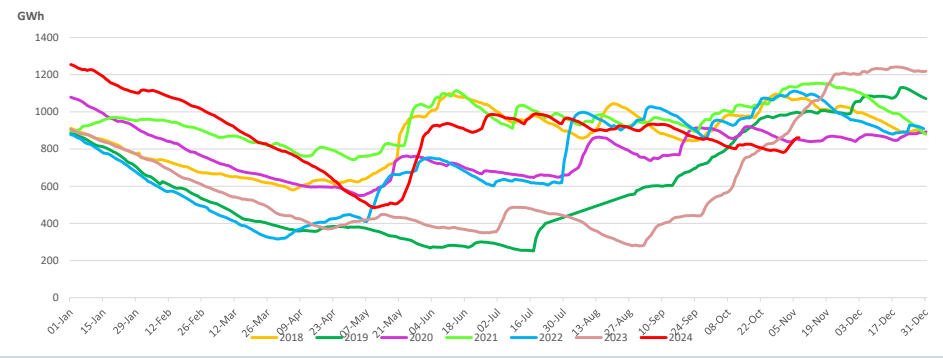
Based on Telemetered Power Stations only



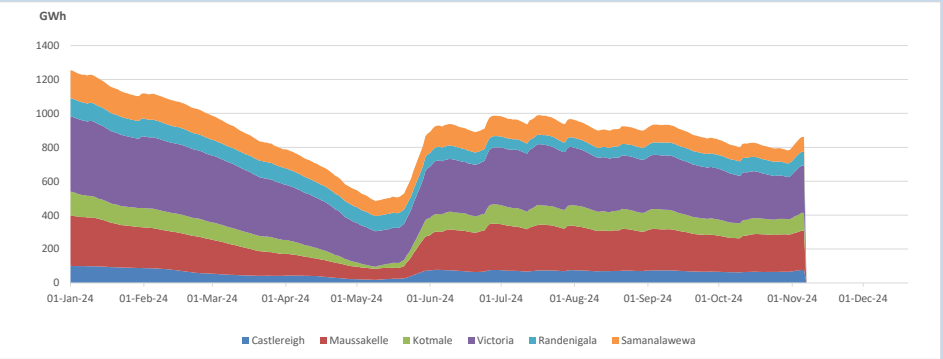
1.14 Major Incidents reported during the day November 6, 2024

- 1) Kukule Ganga pond spilling stopped at 07:08hrs.
- 2) Padukka GSS 220/132/33kV T/F 02, which was tripped on 05.11.2024, normalized at 12:20hrs.
- 3) New Anuradhapura 220/132/33kV TF 01 which was tripped on 04.11.2024 energized from 220kV and 132kV sides only at 15:55hrs.
- 4) Old Habarana - Ukuwela 132kV cct tripped from Old Habarana end at 16:08hrs without any indications. The cct normalized at 16:25hrs.

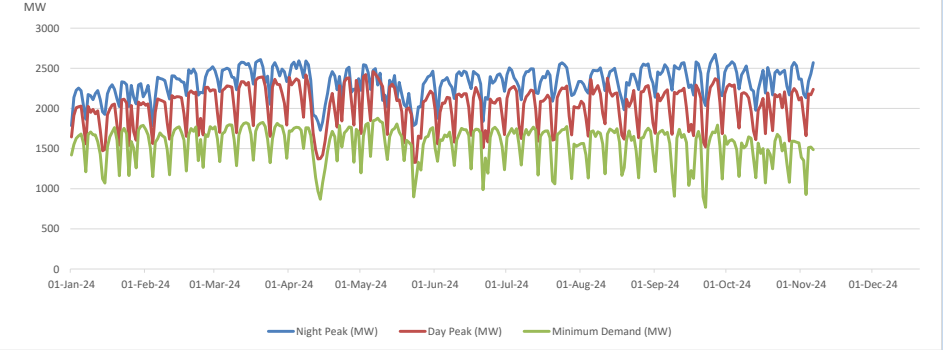
2. Comparison of Total Reservoir Storage Levels with Past Years



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

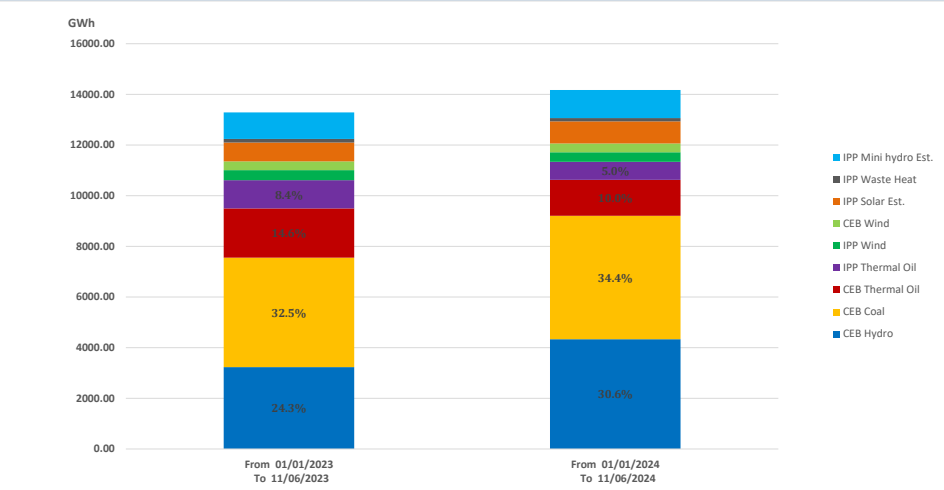


4. Variation of Demand during the current year



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 11/06/2023 13290 GWh
From 01/01/2024 To 11/06/2024 14170 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