

Generation and Reservoirs Statistics

November 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 21, 2024

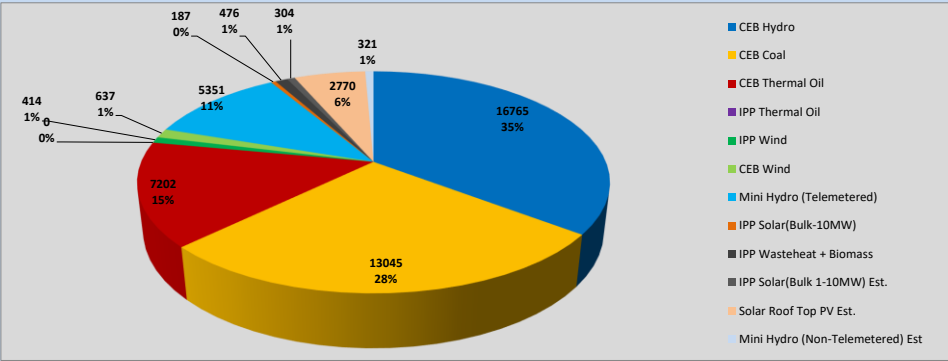


Table 01

	Generation (MWh)
CEB Hydro	16,765
CEB Coal	13,045
CEB Thermal Oil	7,202
IPP Thermal Oil	-
IPP Wind	414
CEB Wind	637
Mini Hydro (Telemetered)	5,351
IPP Solar (Bulk)	187
IPP Waste heat + Biomass	476
Total Generation (Excluding estimated figures)	44,077
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	321
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	47,472
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	319	34.59%
CEB Coal	260	28.19%
CEB Thermal Oil	93	10.07%
IPP Thermal	38	4.09%
IPP Wind	6	0.66%
CEB Wind	9	0.93%
Mini Hydro *	118	12.74%
IPP Solar *	71	7.72%
IPP Waste heat + BMP	9	1.01%
Total	924	

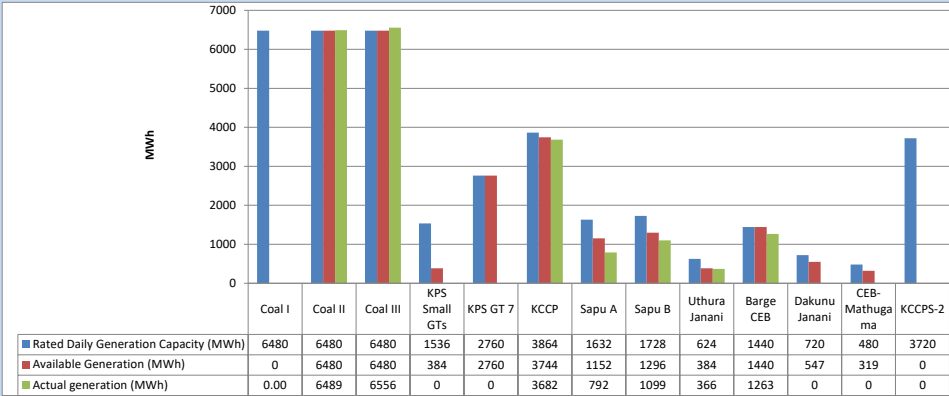
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,560	30.74%
CEB Coal	5,058	34.10%
CEB Thermal Oil	1,492	10.06%
IPP Thermal	735	4.96%
IPP Wind	383	2.58%
CEB Wind	356	2.40%
Mini Hydro *	1,187	8.00%
IPP Solar *	923	6.22%
IPP Waste heat	137	0.92%
Total	14,831	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

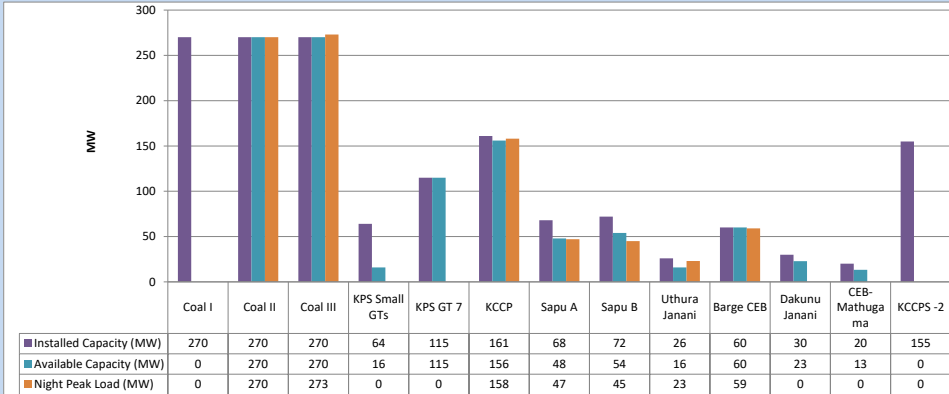
November 21, 2024



Available Generation is estimated based on plant availability at 6.00am on November 22, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

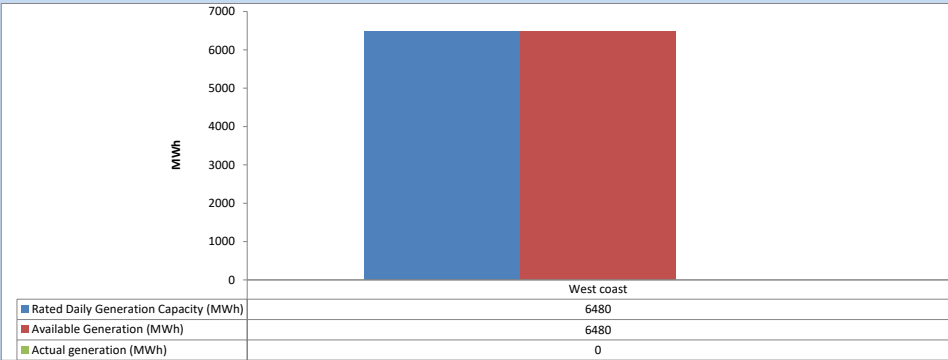
November 21, 2024



Plant availability is recorded at 6.00 am on November 22, 2024

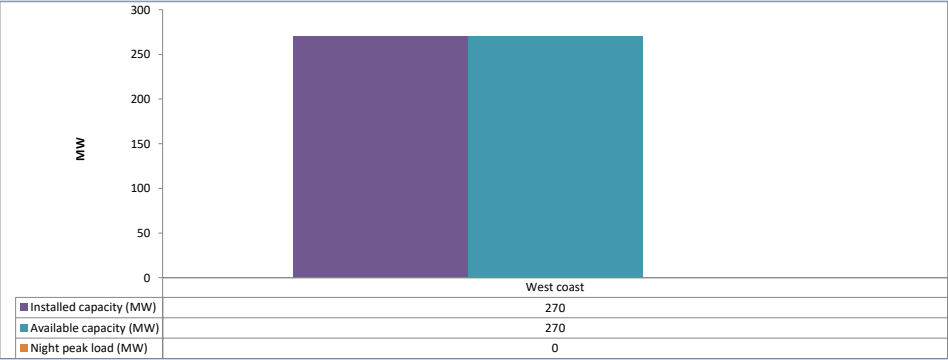
1.4 IPP owned Thermal Plant Dispatch

November 21, 2024



Available Generation is estimated based on plant availability at 6.00am on November 22, 2024

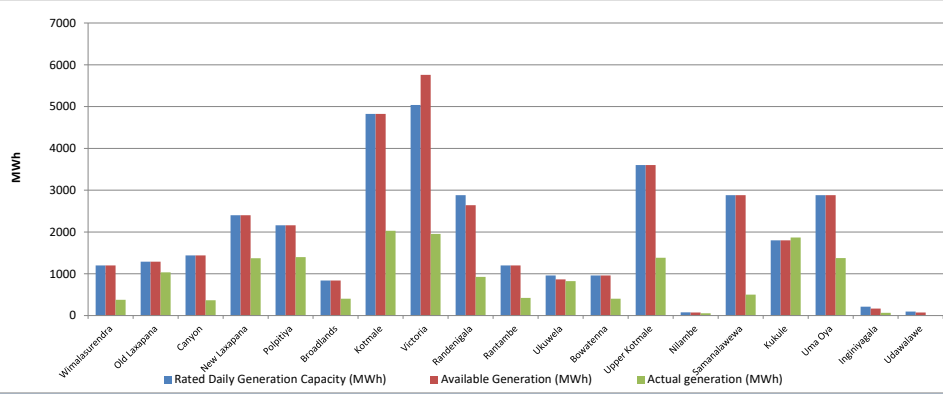
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 22, 2024

1.6 Major Hydro Plant Dispatch

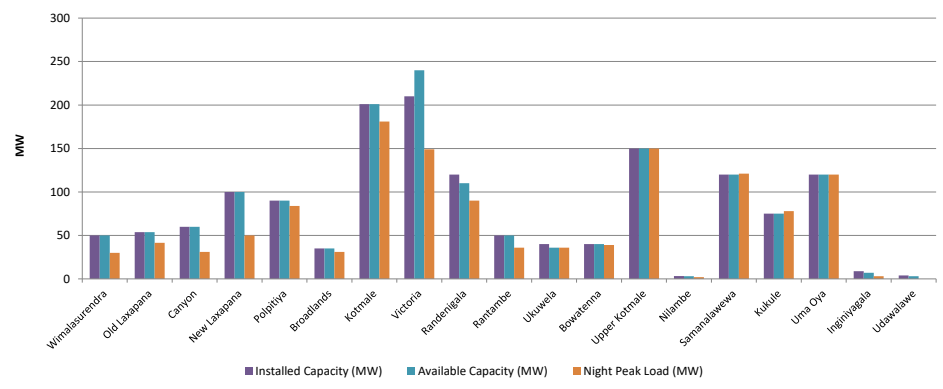
November 21, 2024



Available Generation is estimated based on plant availability at 6.00am on November 22, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 21, 2024



Plant availability is recorded at 6.00 am on November 22, 2024

1.8 Summary of Major Plant performance

November 21, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	378
Old Laxapana	54	54	42	1,033
Canyon	60	60	31	366
New Laxapana	100	100	50	1,371
Polpitiya	90	90	84	1,400
Broadlands	35	35	31	404
Kotmale	201	201	181	2,030
Victoria	210	240	149	1,955
Randenigala	120	110	90	924
Rantambe	50	50	36	424
Ukuwela	40	36	36	825
Bowatenna	40	40	39	403
Upper Kotmale	150	150	150	1,384
Nilambe	3	3	2	56
Samanalawewa	120	120	121	502
Kukule	75	75	78	1,869
Uma Oya	120	120	120	1,376
Inginipigala	9	7	3	66
Udawalawe	4	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,489
Puttalam Coal III	270	270	273	6,556
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	158	3,682
Sapugaskanda A	68	48	47	792
Sapugaskanda B	72	54	45	1,099
Uthura Janani	26	16	23	366
Barge CEB	60	60	59	1,263
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	3,067	2,438	44,078

Note- Plant availability is the availability recorded at 6 am on November 22, 2024

1.9 Contribution to the Night Peak in MW

November 21, 2024

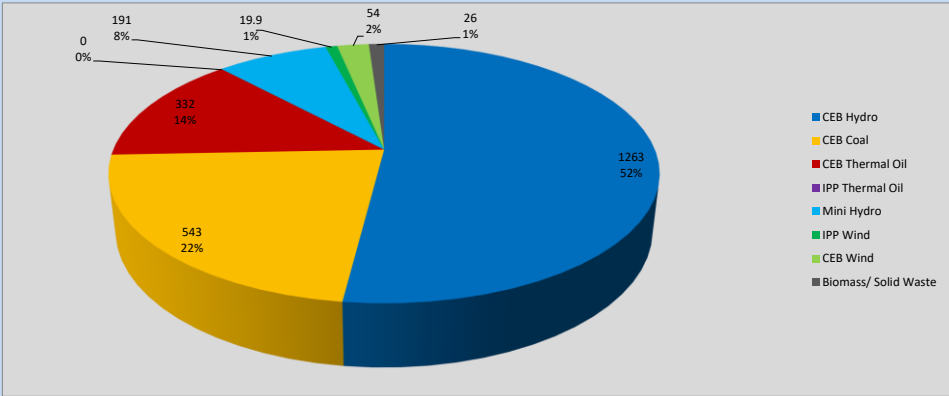


Table 05

CEB Hydro	1263 MW
CEB Coal	543 MW
CEB Thermal Oil	332 MW
IPP Thermal Oil	0 MW
Mini Hydro (Telemetered)	191 MW
IPP Wind	19.9 MW
CEB Wind	54 MW
Biomass/ Solid Waste	26 MW

Recorded Peak Demand Data

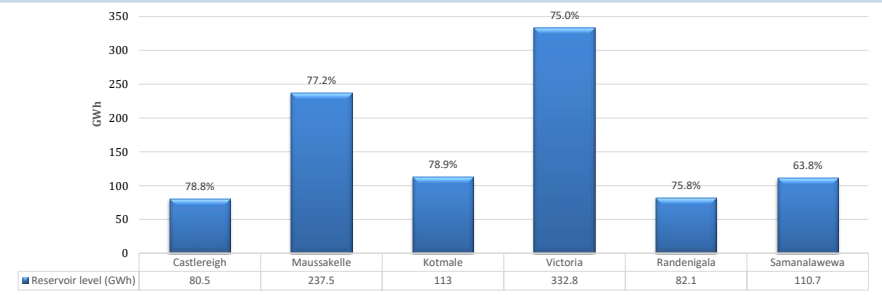
Table 06

Night Peak*	2,429 MW
Day Peak Maximum Demand	2,203 MW
Day Peak Minimum Demand	1,685 MW
Off Peak Minimum Demand	1,366 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 22, 2024



Total Reservoir Level 956.6 GWh
% of Total capacity 74.8%

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

November 21, 2024

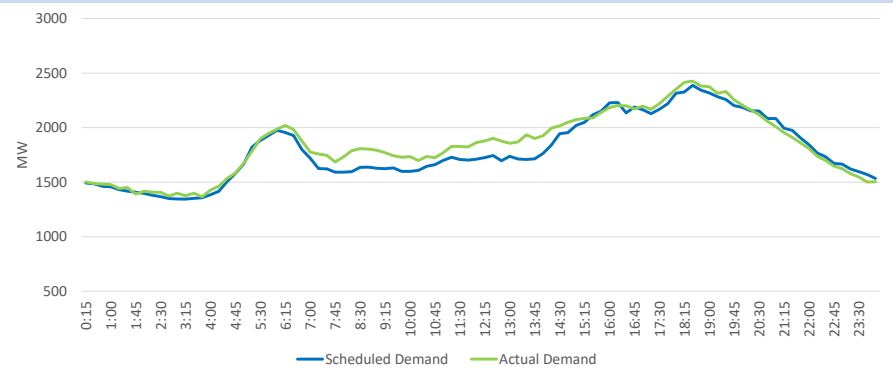
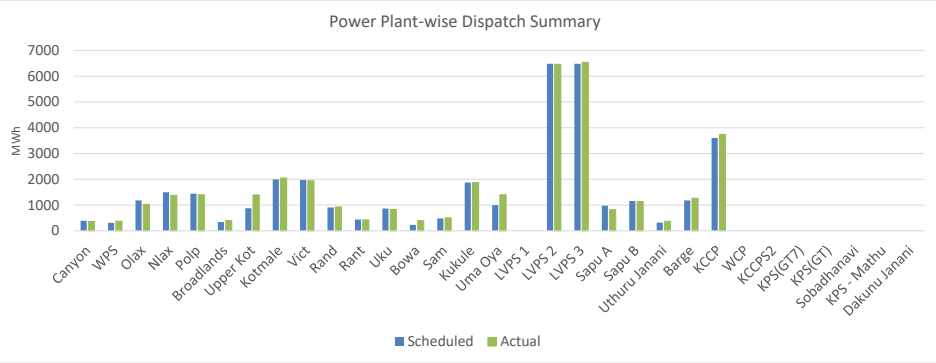


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,802	16,682	880
CEB Coal	12,960	12,996	36
CEB Thermal Oil	7,229	7,333	104
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	6,956	7,165	209
Total	42,947	44,175	1,228

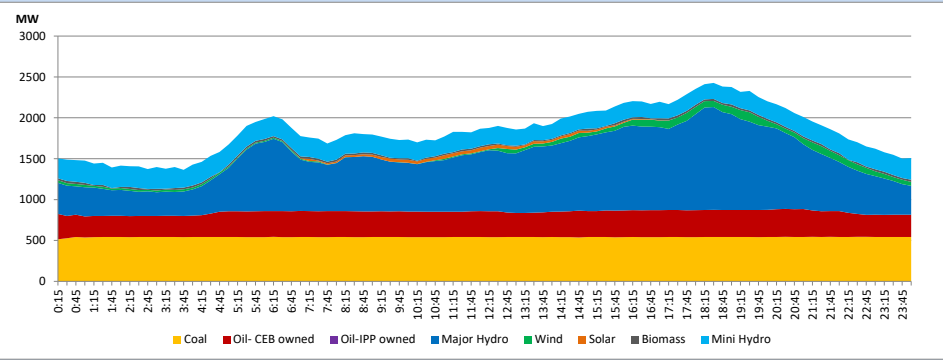
1.12 Power Plant-wise Dispatch Summary

November 21, 2024



1.13 Daily Load Curve

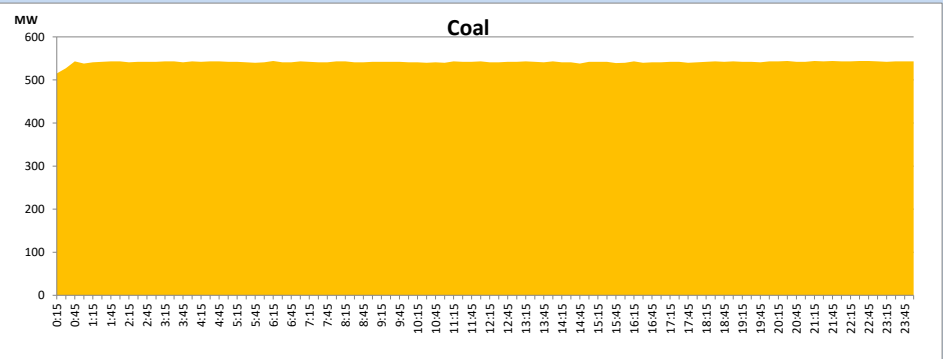
November 21, 2024



Solar and wind data is based on Telemetered Power Stations only

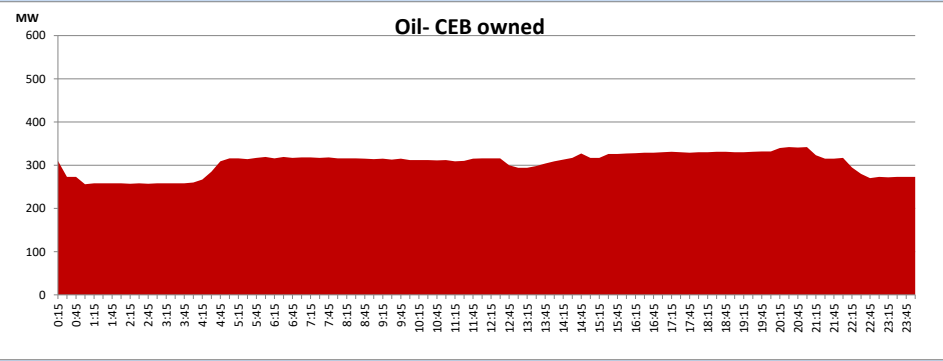
Coal Generation during

November 21, 2024

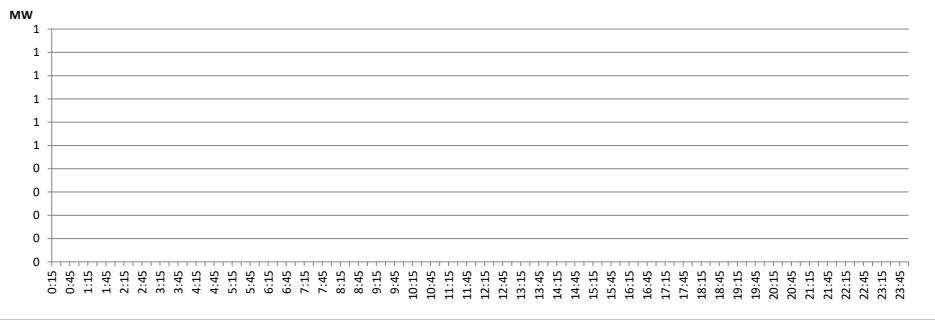


CEB Oil Plant Generation during

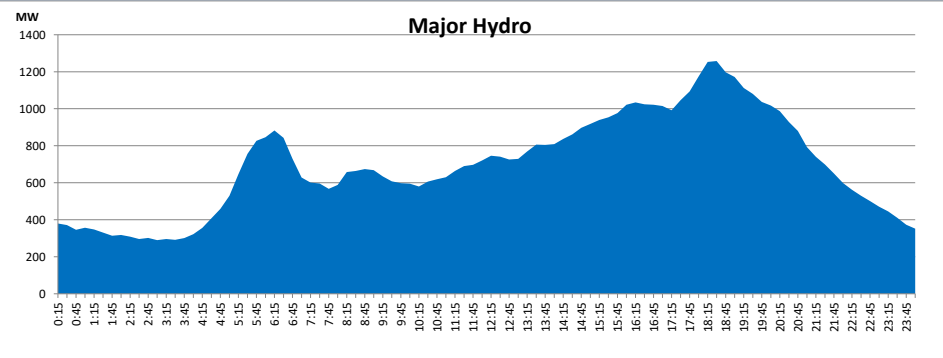
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IPP Oil Plant Generation during November 21, 2024

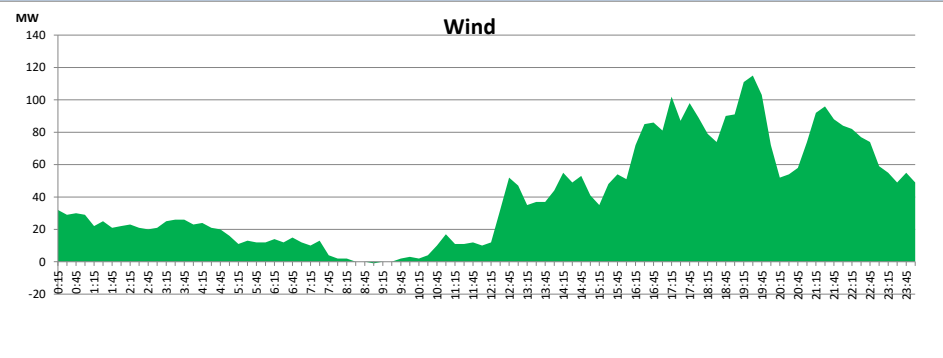


Major Hydro Generation during November 21, 2024



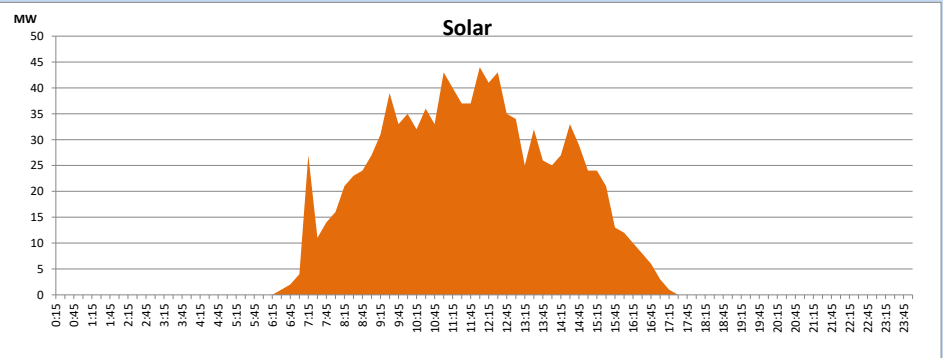
Wind Generation during November 21, 2024

Based on Telemetered Power Stations only



Solar Generation during November 21, 2024

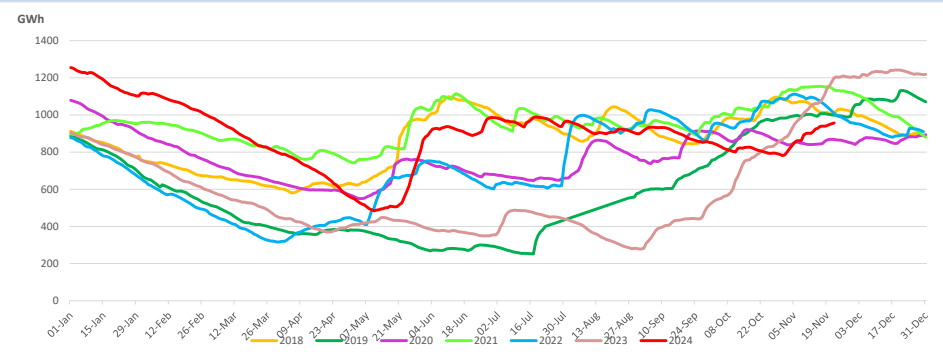
Based on Telemetered Power Stations only



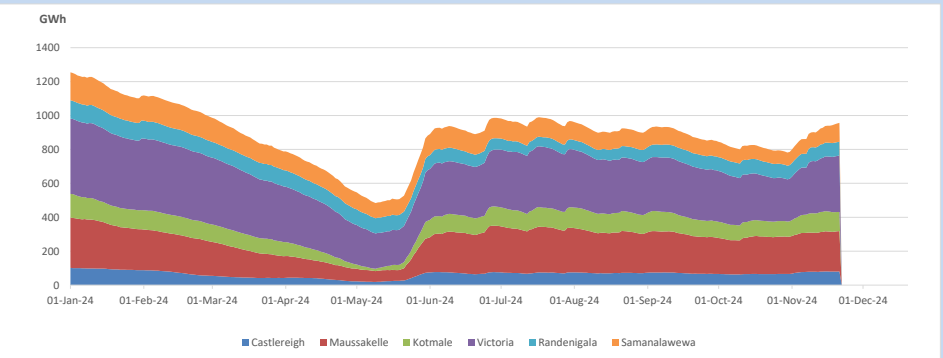
1.14 Major Incidents reported during the day November 21, 2024

- 1) KCCPS2 - Kelanitissa GIS 220kV cable tripped from Kelanitissa GIS end at 8:28hrs. The cable was restored at 19:05hrs.
- 2) Rantembe unit 02 tripped at 16:13hrs due to auxiliary failure, rejecting 25MW from the system. Rantembe unit 02 resumed generation at 18:53hrs.
- 3) O' Laxapana unit 05 tripped at 17:15hrs due to the operation of guard valve manual shutdown, rejecting 12MW from the system. O'Laxapana unit 05 resumed generation at 18:47hrs.
- 4) N'Anuradhapura 220/132/33kV T/F 01, which was tripped at 7:14hrs on 04.11.2024, was restored from all ends at 21:16hrs.

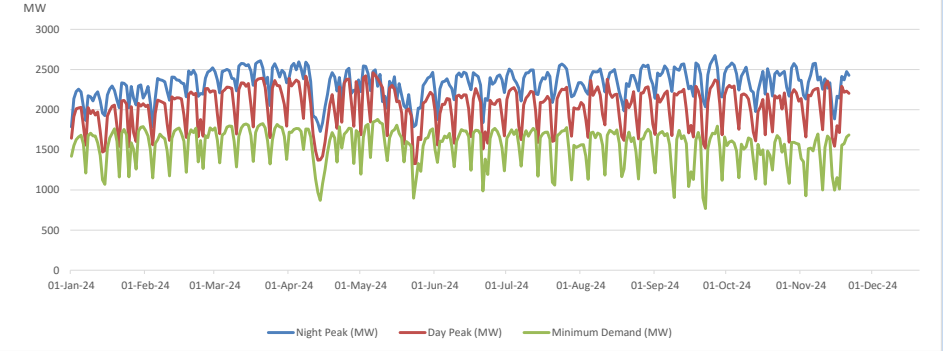
2. Comparison of Total Reservoir Storage Levels with Past Years



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

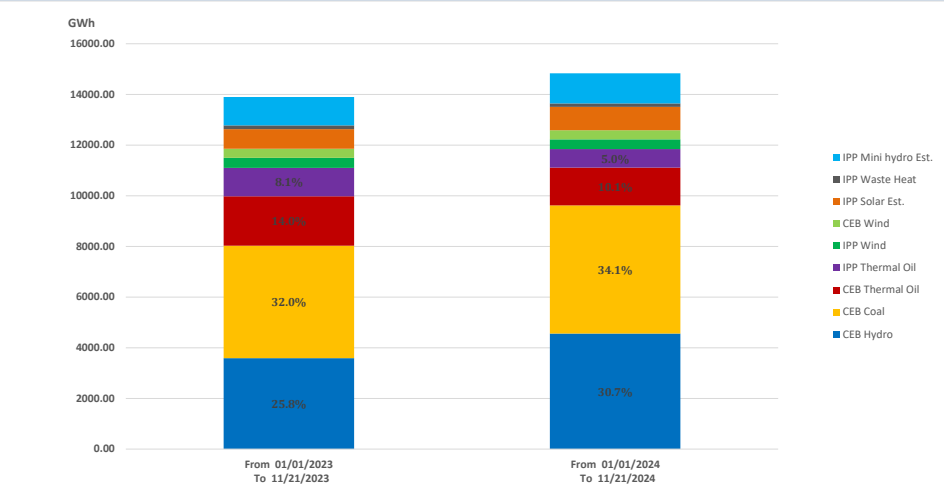


4. Variation of Demand during the current year



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 11/21/2023 13897 GWh
From 01/01/2024 To 11/21/2024 14831 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