

Generation and Reservoirs Statistics

November 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 17, 2024

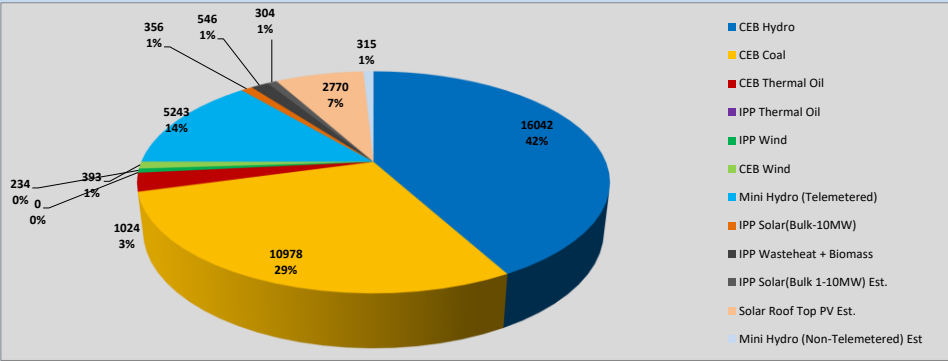


Table 01

	Generation (MWh)
CEB Hydro	16,042
CEB Coal	10,978
CEB Thermal Oil	1,024
IPP Thermal Oil	-
IPP Wind	234
CEB Wind	393
Mini Hydro (Telemetered)	5,243
IPP Solar (Bulk)	356
IPP Waste heat + Biomass	546
Total Generation (Excluding estimated figures)	34,816
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	315
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	38,205
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	254	34.52%
CEB Coal	208	28.30%
CEB Thermal Oil	66	9.00%
IPP Thermal	37	4.98%
IPP Wind	4	0.60%
CEB Wind	6	0.82%
Mini Hydro *	95	12.92%
IPP Solar *	58	7.87%
IPP Waste heat + BMP	7	1.00%
Total	736	

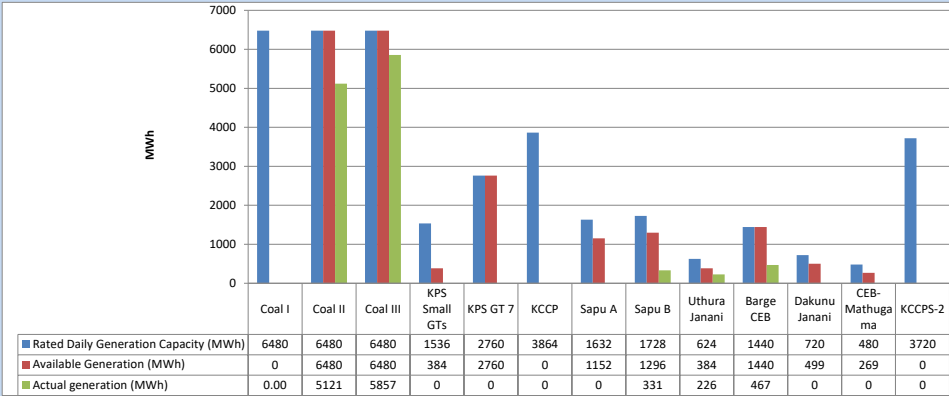
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,494	30.69%
CEB Coal	5,006	34.18%
CEB Thermal Oil	1,465	10.01%
IPP Thermal	734	5.01%
IPP Wind	381	2.60%
CEB Wind	354	2.42%
Mini Hydro *	1,165	7.95%
IPP Solar *	910	6.21%
IPP Waste heat	135	0.92%
Total	14,643	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

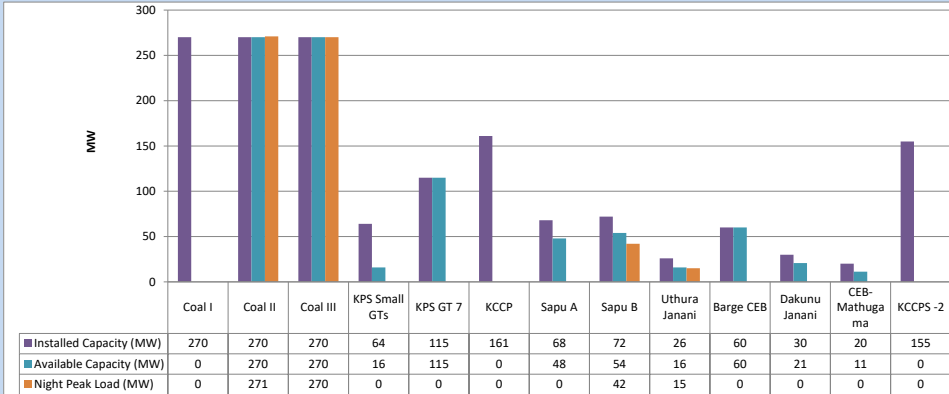
November 17, 2024



Available Generation is estimated based on plant availability at 6.00am on November 18, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

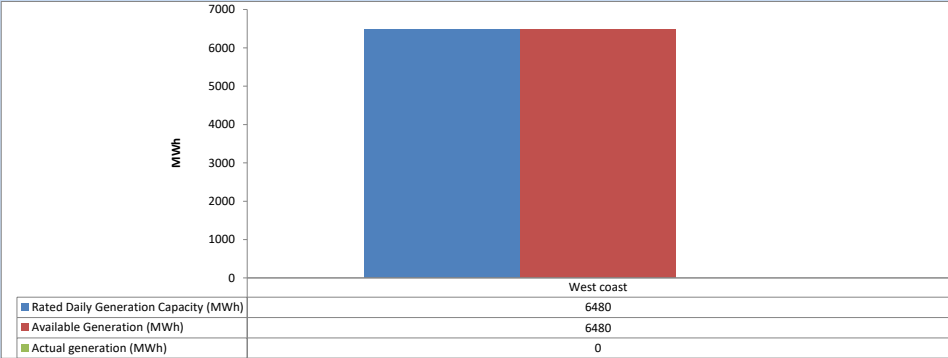
November 17, 2024



Plant availability is recorded at 6.00 am on November 18, 2024

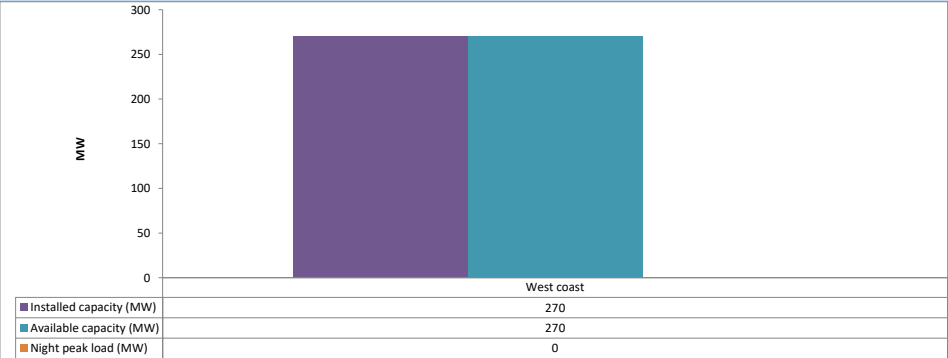
1.4 IPP owned Thermal Plant Dispatch

November 17, 2024



Available Generation is estimated based on plant availability at 6.00am on November 18, 2024

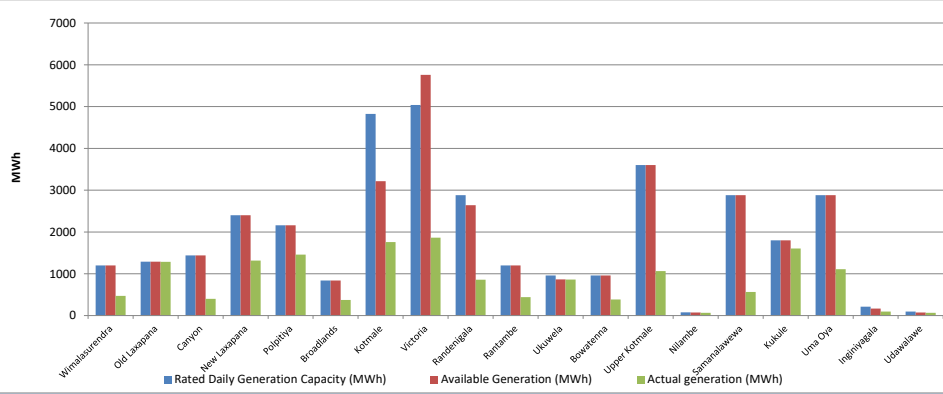
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 18, 2024

1.6 Major Hydro Plant Dispatch

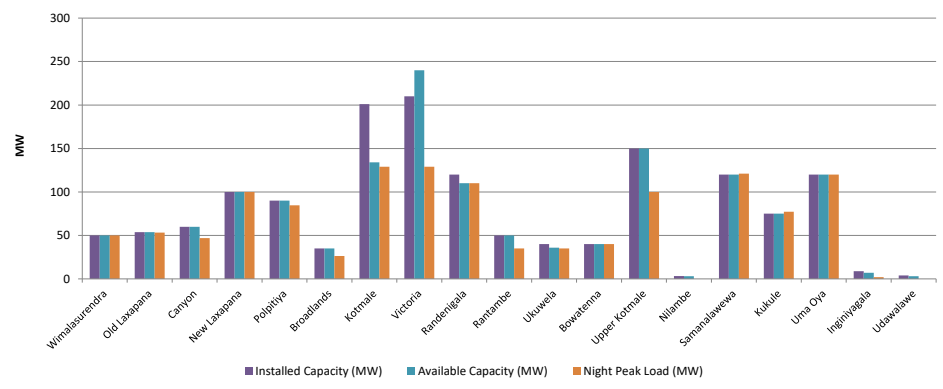
November 17, 2024



Available Generation is estimated based on plant availability at 6.00am on November 18, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 17, 2024



Plant availability is recorded at 6.00 am on November 18, 2024

1.8 Summary of Major Plant performance

November 17, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	470
Old Laxapana	54	54	53	1,284
Canyon	60	60	47	400
New Laxapana	100	100	100	1,315
Polpitiya	90	90	85	1,460
Broadlands	35	35	26	374
Kotmale	201	134	129	1,760
Victoria	210	240	129	1,862
Randenigala	120	110	110	859
Rantambe	50	50	35	443
Ukuwela	40	36	35	861
Bowatenna	40	40	40	384
Upper Kotmale	150	150	100	1,064
Nilambe	3	3	0	66
Samanalawewa	120	120	121	565
Kukule	75	75	77	1,605
Uma Oya	120	120	120	1,109
Inginipagala	9	7	2	97
Udawalawe	4	3	0	65
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	5,121
Puttalam Coal III	270	270	270	5,857
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	42	331
Uthura Janani	26	16	15	226
Barge CEB	60	60	0	467
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	11	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	2,840	2,131	34,817

Note- Plant availability is the availability recorded at 6 am on November 18, 2024

1.9 Contribution to the Night Peak in MW

November 17, 2024

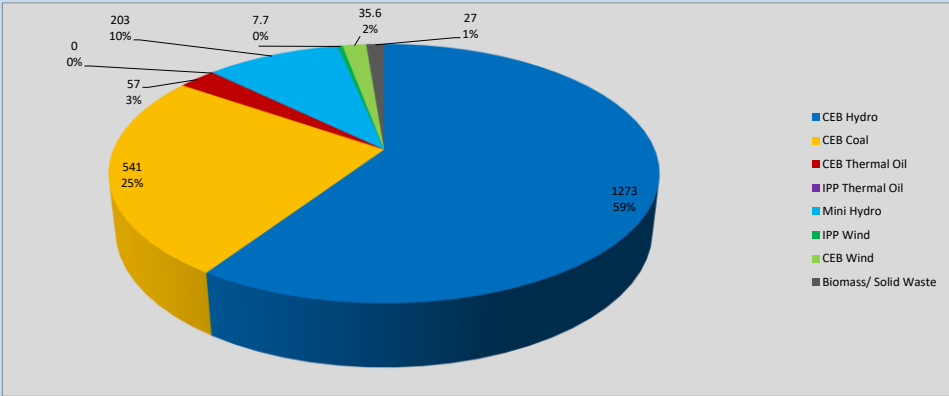


Table 05

CEB Hydro	1273	MW
CEB Coal	541	MW
CEB Thermal Oil	57	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	203	MW
IPP Wind	7.7	MW
CEB Wind	35.6	MW
Biomass/ Solid Waste	27	MW

Recorded Peak Demand Data

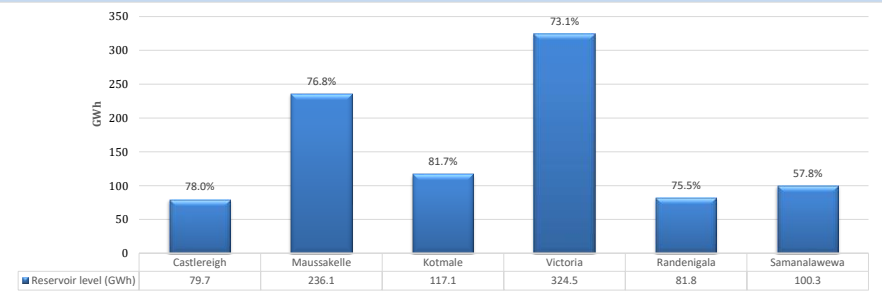
Table 06

Night Peak*	2,145	MW
Day Peak Maximum Demand	1,714	MW
Day Peak Minimum Demand	1,011	MW
Off Peak Minimum Demand	1,256	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 18, 2024



Total Reservoir Level 939.5 GWh
% of Total capacity 73.5%

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

November 17, 2024

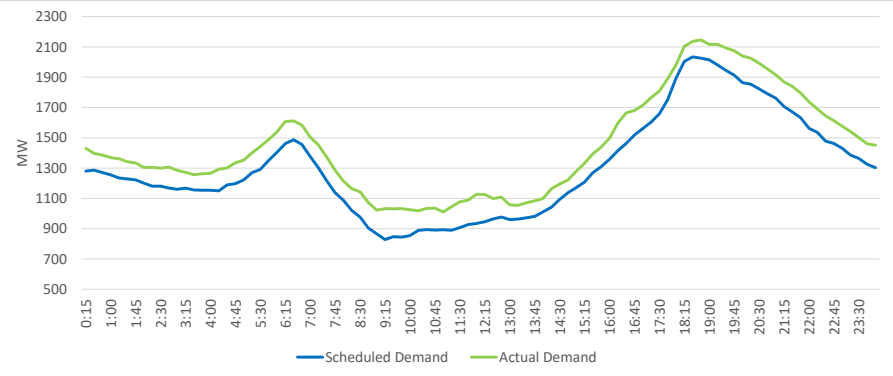
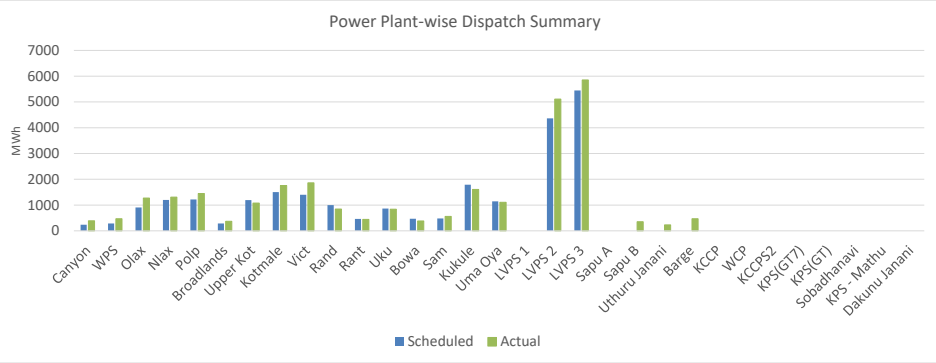


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,420	15,736	1,316
CEB Coal	9,814	10,970	1,156
CEB Thermal Oil	-	1,046	1,046
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,102	6,896	(205)
Total	31,336	34,648	3,313

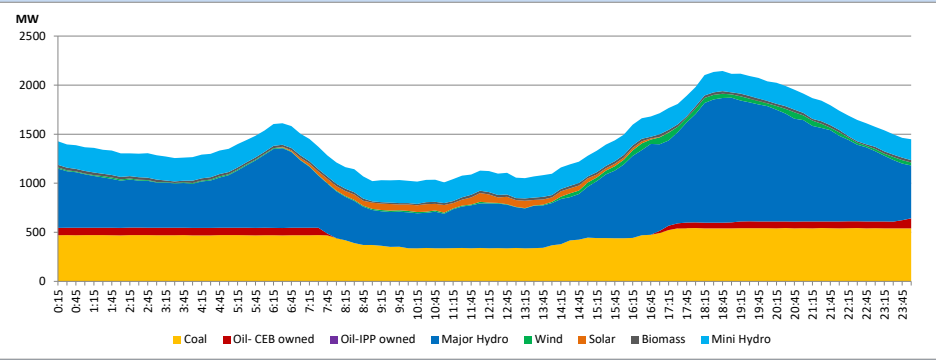
1.12 Power Plant-wise Dispatch Summary

November 17, 2024



1.13 Daily Load Curve

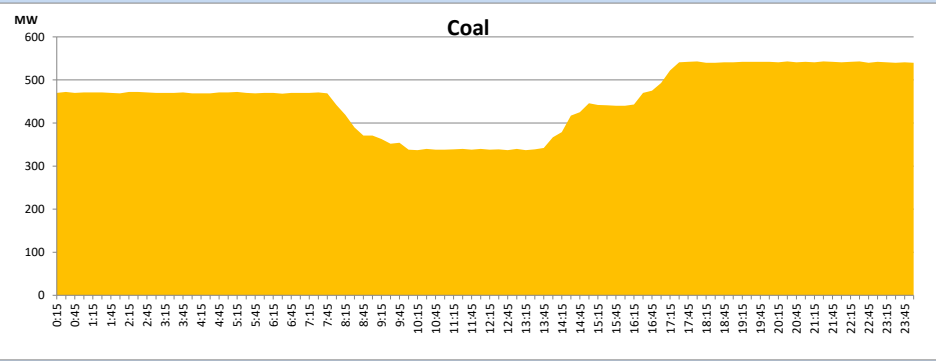
November 17, 2024



Solar and wind data is based on Telemetered Power Stations only

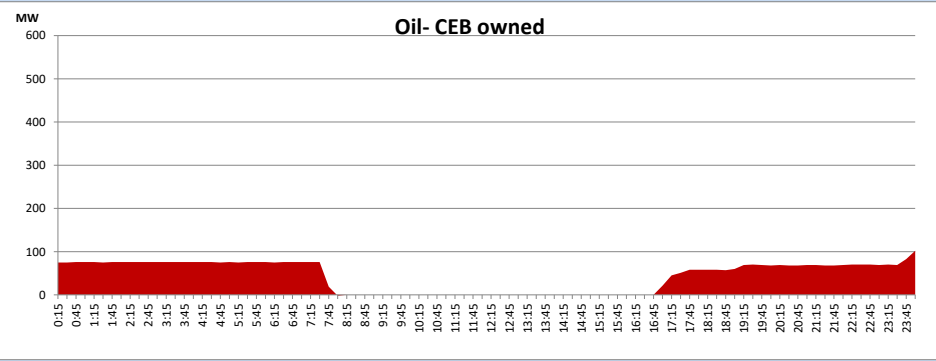
Coal Generation during

November 17, 2024

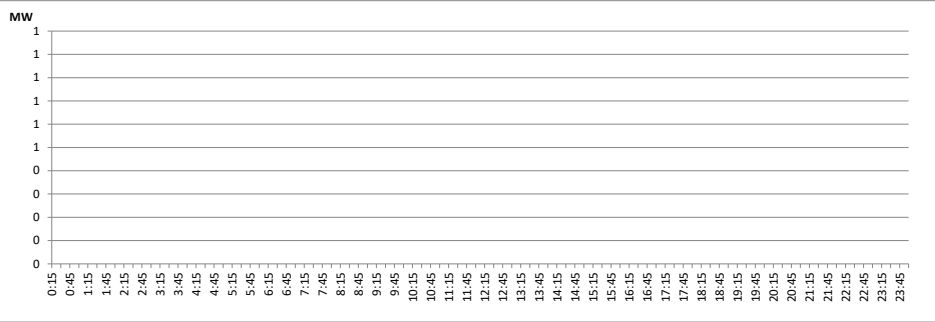


CEB Oil Plant Generation during

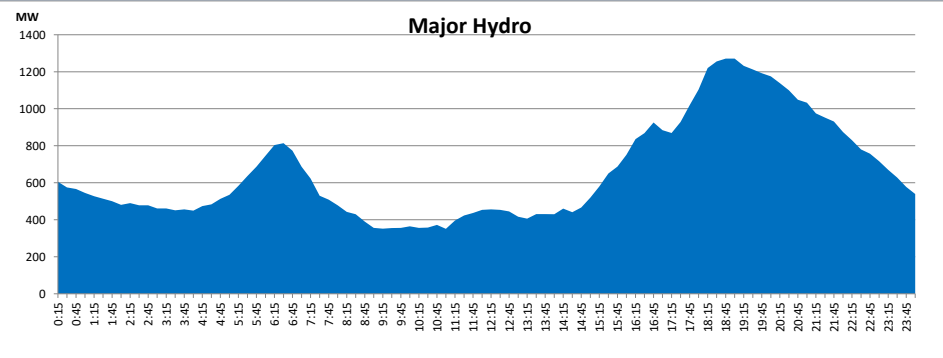
November 17, 2024



IPP Oil Plant Generation during November 17, 2024

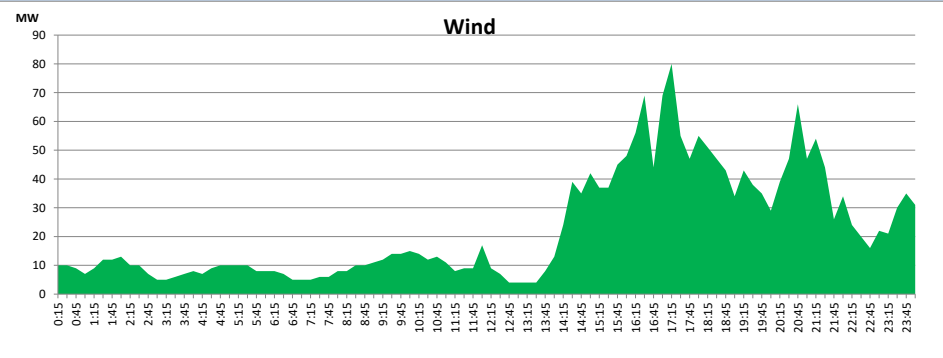


Major Hydro Generation during November 17, 2024



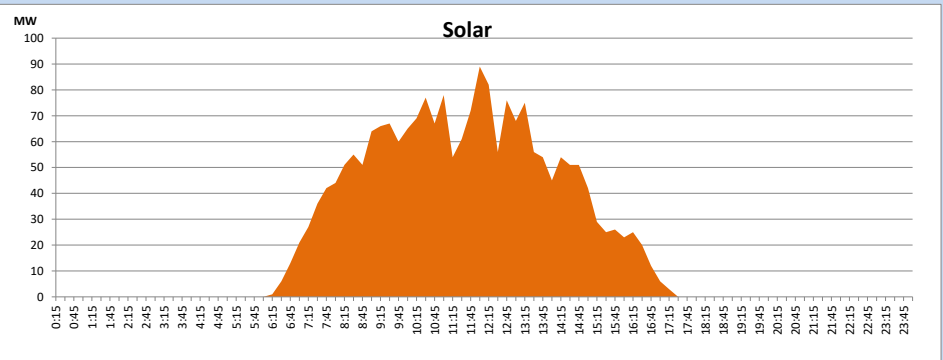
Wind Generation during November 17, 2024

Based on Telemetered Power Stations only



Solar Generation during November 17, 2024

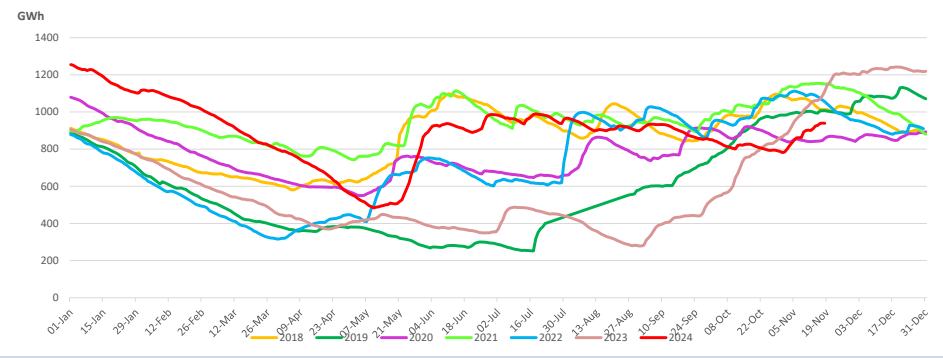
Based on Telemetered Power Stations only



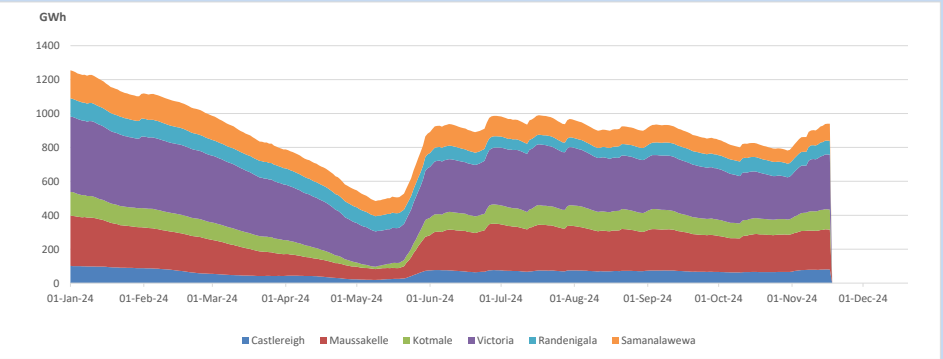
1.14 Major Incidents reported during the day November 17, 2024

- 1). Power Barge made a forced shutdown at 7:54hrs due to a boiler feedwater system leak. Power Barge resumed generation at 23:25hrs.
- 2). Mannar 220/33kV T/F, which was tripped on 12.11.2024, was normalized at 19:31hrs.

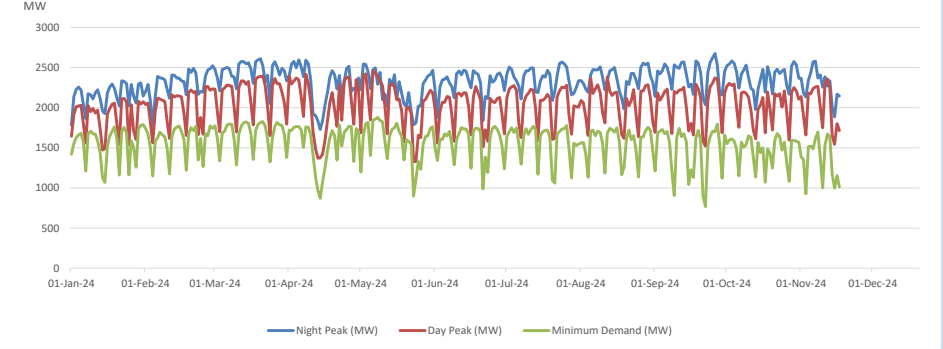
2. Comparison of Total Reservoir Storage Levels with Past Years



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

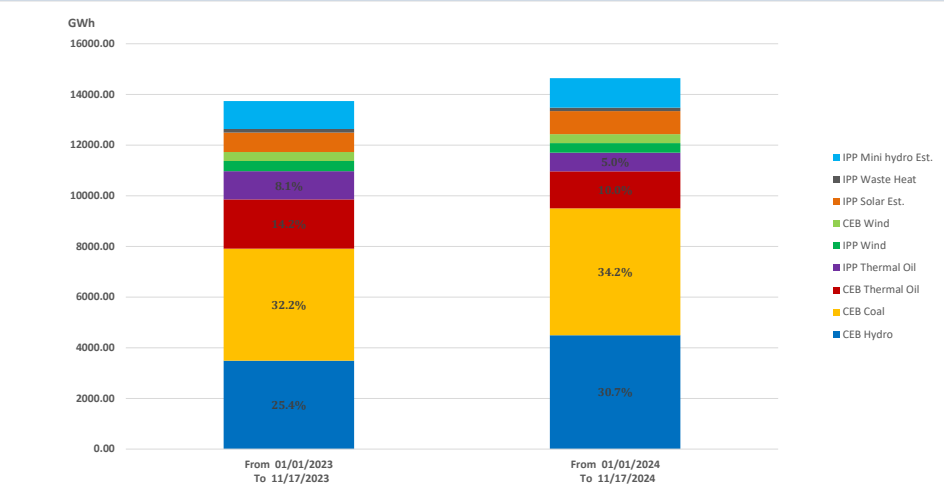


4. Variation of Demand during the current year



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 11/17/2023 13739 GWh
From 01/01/2024 To 11/17/2024 14643 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