

Generation and Reservoirs Statistics

November 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 20, 2024

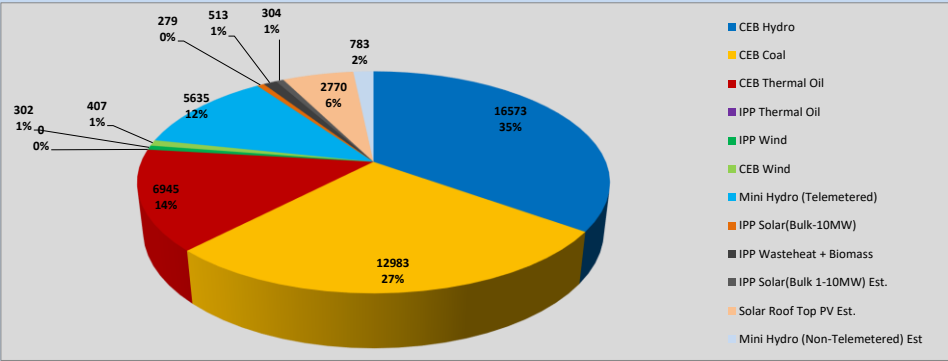


Table 01

	Generation (MWh)
CEB Hydro	16,573
CEB Coal	12,983
CEB Thermal Oil	6,945
IPP Thermal Oil	-
IPP Wind	302
CEB Wind	407
Mini Hydro (Telemetered)	5,635
IPP Solar (Bulk)	279
IPP Waste heat + Biomass	513
Total Generation (Excluding estimated figures)	43,637
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	783
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	47,494
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	303	34.55%
CEB Coal	247	28.23%
CEB Thermal Oil	86	9.80%
IPP Thermal	38	4.31%
IPP Wind	6	0.65%
CEB Wind	8	0.90%
Mini Hydro *	112	12.78%
IPP Solar *	68	7.76%
IPP Waste heat + BMP	9	1.01%
Total	876	

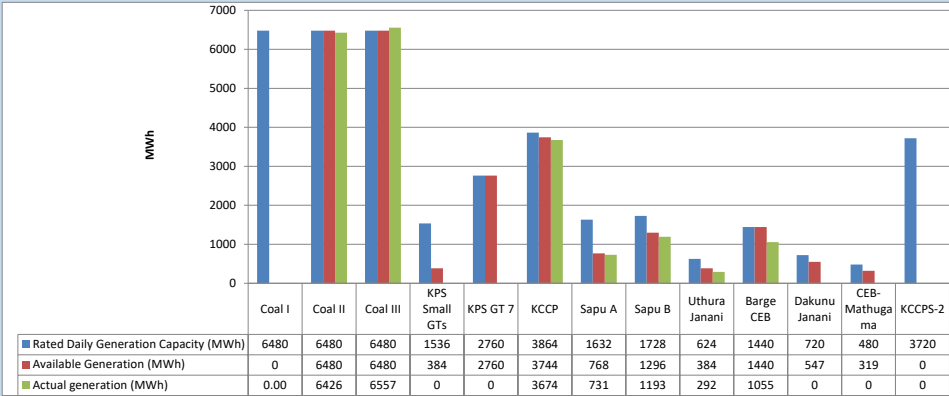
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,543	30.73%
CEB Coal	5,045	34.12%
CEB Thermal Oil	1,485	10.04%
IPP Thermal	735	4.97%
IPP Wind	382	2.59%
CEB Wind	356	2.41%
Mini Hydro *	1,182	7.99%
IPP Solar *	920	6.22%
IPP Waste heat	136	0.92%
Total	14,783	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

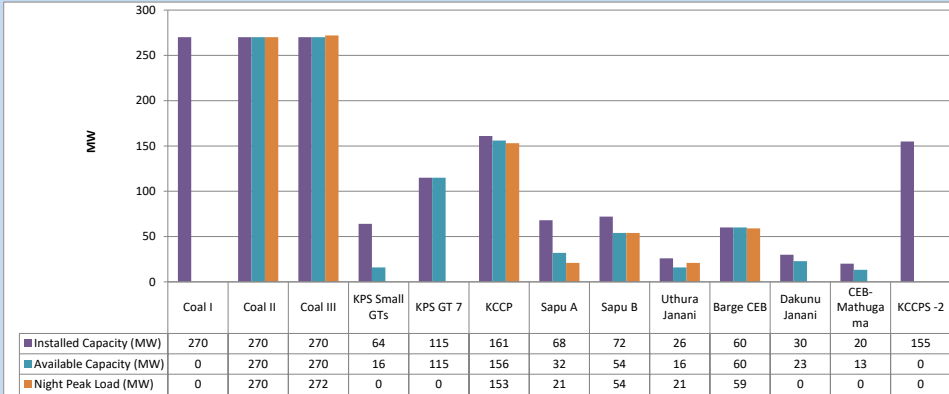
November 20, 2024



Available Generation is estimated based on plant availability at 6.00am on November 21, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

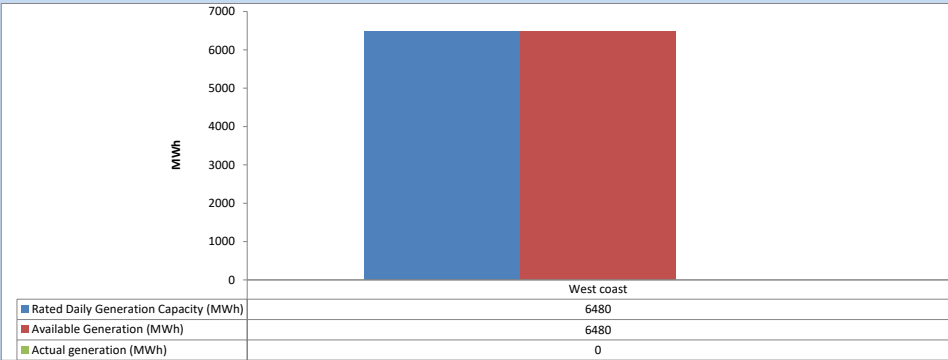
November 20, 2024



Plant availability is recorded at 6.00 am on November 21, 2024

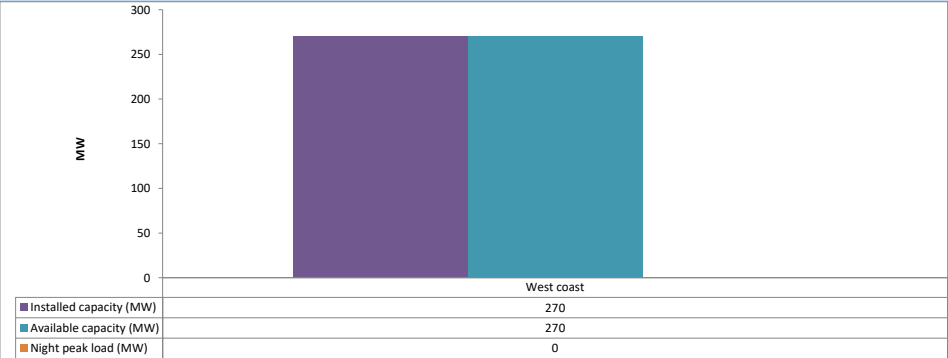
1.4 IPP owned Thermal Plant Dispatch

November 20, 2024



Available Generation is estimated based on plant availability at 6.00am on November 21, 2024

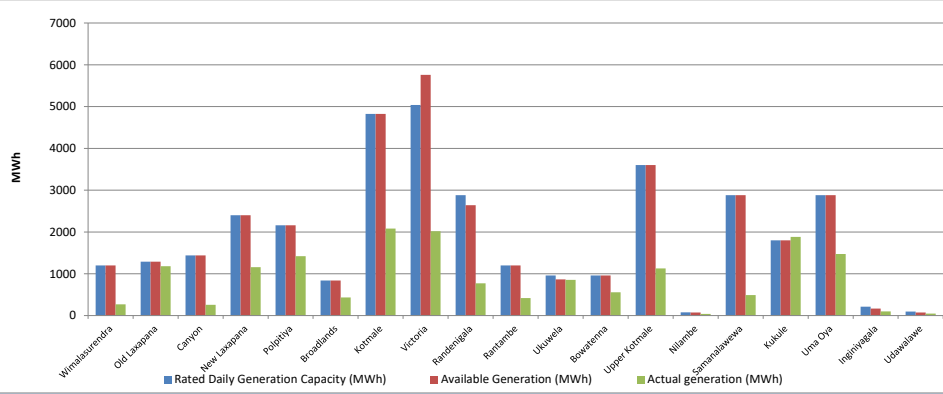
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 21, 2024

1.6 Major Hydro Plant Dispatch

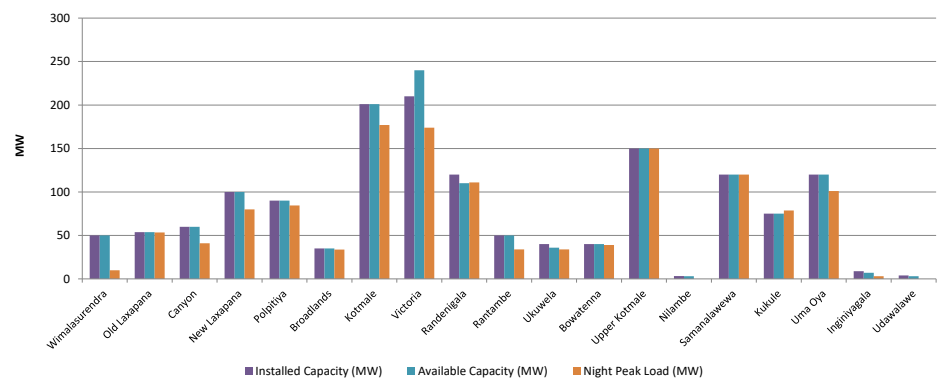
November 20, 2024



Available Generation is estimated based on plant availability at 6.00am on November 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 20, 2024



Plant availability is recorded at 6.00 am on November 21, 2024

1.8 Summary of Major Plant performance

November 20, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	10	268
Old Laxapana	54	54	53	1,179
Canyon	60	60	41	256
New Laxapana	100	100	80	1,158
Polpitiya	90	90	85	1,420
Broadlands	35	35	34	434
Kotmale	201	201	177	2,080
Victoria	210	240	174	2,019
Randenigala	120	110	111	772
Rantambe	50	50	34	418
Ukuwela	40	36	34	854
Bowatenna	40	40	39	557
Upper Kotmale	150	150	150	1,127
Nilambe	3	3	0	41
Samanalawewa	120	120	120	489
Kukule	75	75	79	1,881
Uma Oya	120	120	101	1,475
Inginipigala	9	7	3	100
Udawalawe	4	3	0	47
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,426
Puttalam Coal III	270	270	272	6,557
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	153	3,674
Sapugaskanda A	68	32	21	731
Sapugaskanda B	72	54	54	1,193
Uthura Janani	26	16	21	292
Barge CEB	60	60	59	1,055
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	3,051	2,475	43,639

Note- Plant availability is the availability recorded at 6 am on November 21, 2024

1.9 Contribution to the Night Peak in MW

November 20, 2024

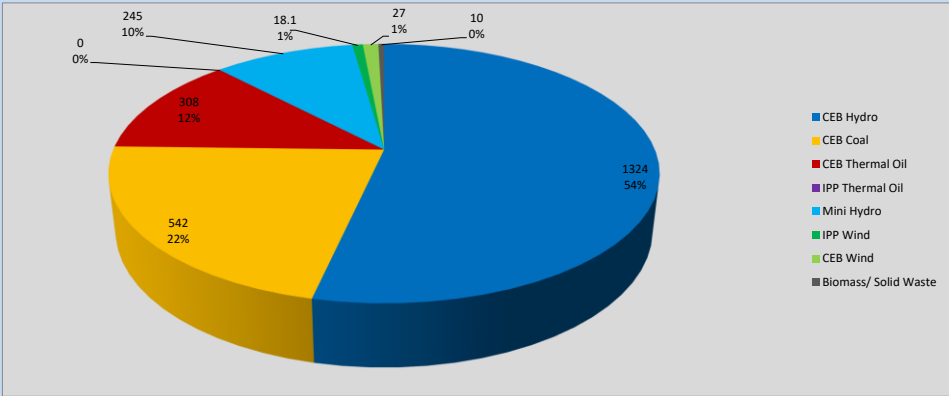


Table 05

CEB Hydro	1324	MW
CEB Coal	542	MW
CEB Thermal Oil	308	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	245	MW
IPP Wind	18.1	MW
CEB Wind	27	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

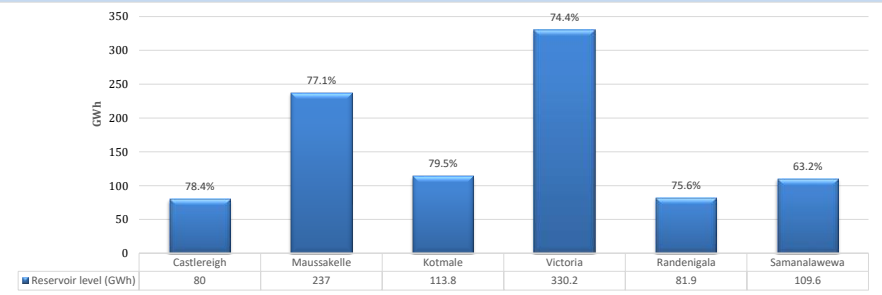
Table 06

Night Peak*	2,475	MW
Day Peak Maximum Demand	2,231	MW
Day Peak Minimum Demand	1,661	MW
Off Peak Minimum Demand	1,340	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 21, 2024



Total Reservoir Level 952.5 GWh
% of Total capacity 74.5%

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

November 20, 2024

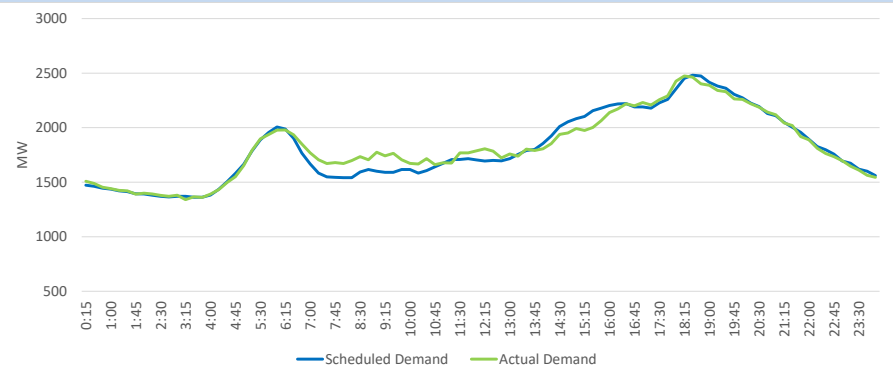
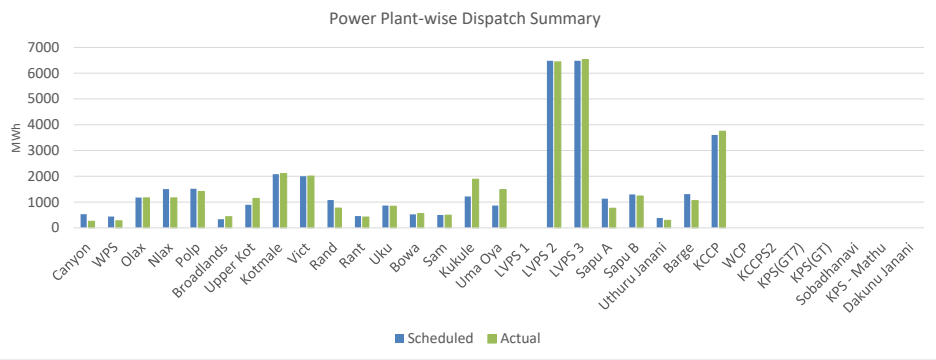


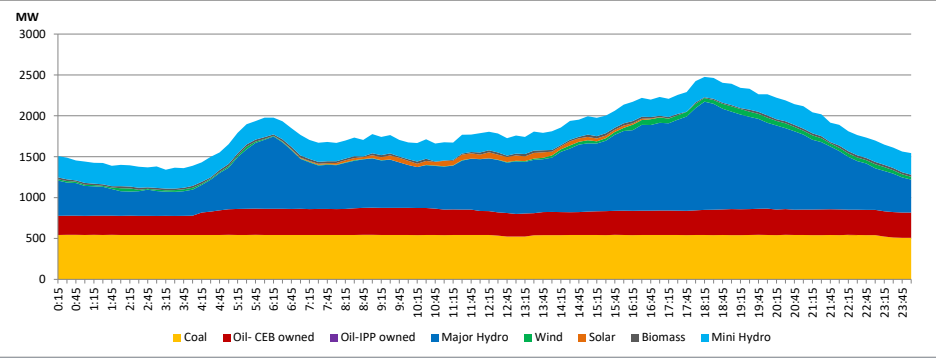
Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,969	16,402	432
CEB Coal	12,960	12,972	12
CEB Thermal Oil	7,710	7,096	(614)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	6,776	7,284	508
Total	43,416	43,754	338

1.12 Power Plant-wise Dispatch Summary November 20, 2024

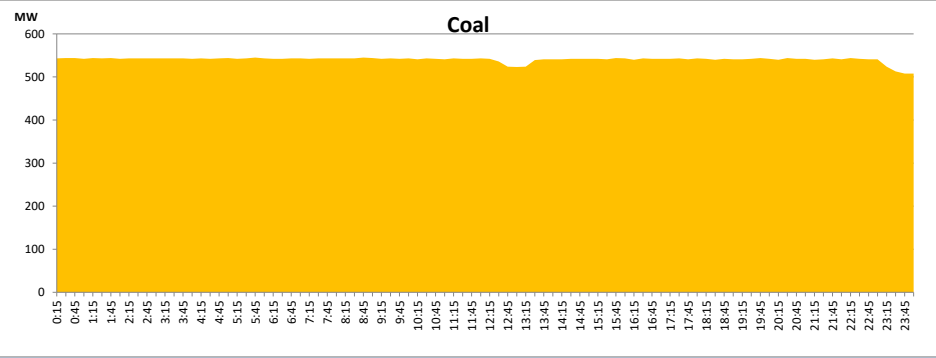


1.13 Daily Load Curve November 20, 2024

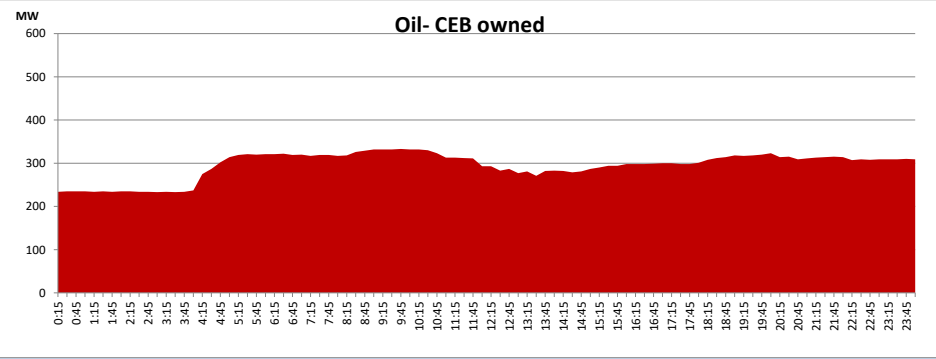


Solar and wind data is based on Telemetered Power Stations only

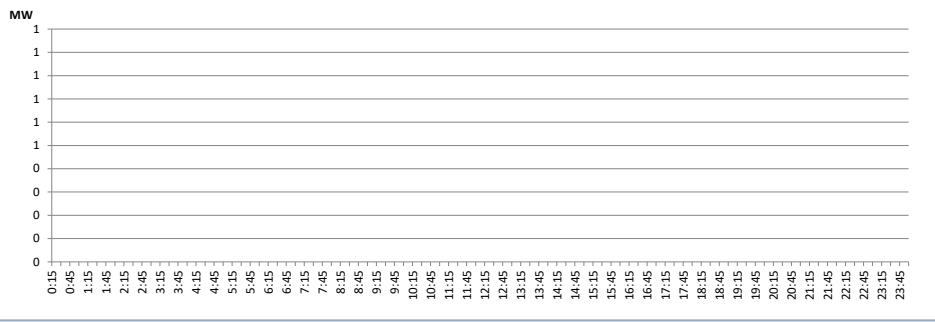
Coal Generation during November 20, 2024



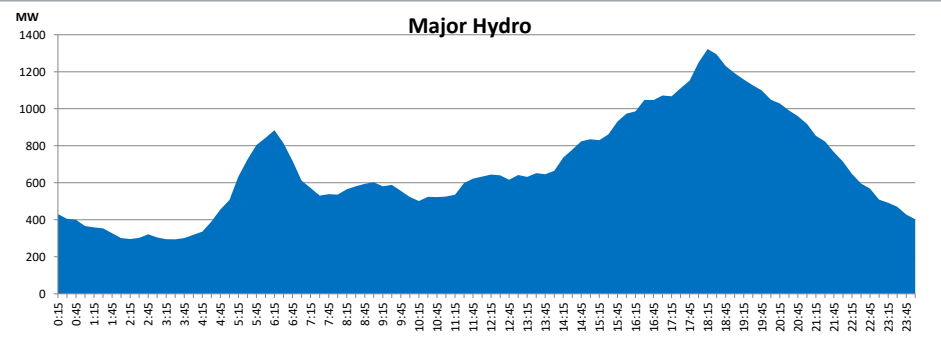
CEB Oil Plant Generation during November 20, 2024



IPP Oil Plant Generation during November 20, 2024

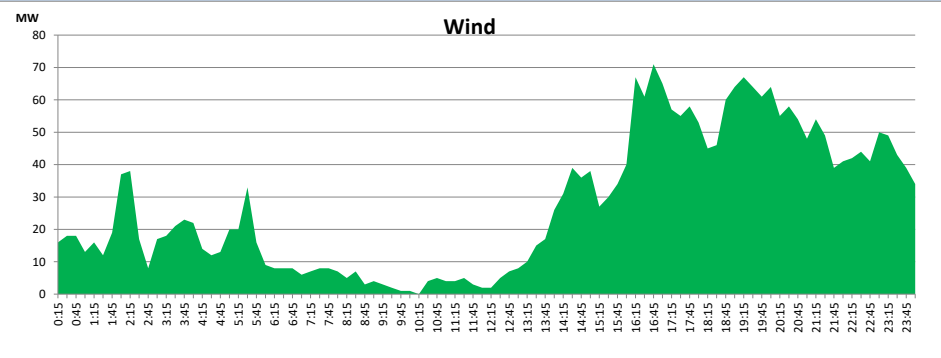


Major Hydro Generation during November 20, 2024



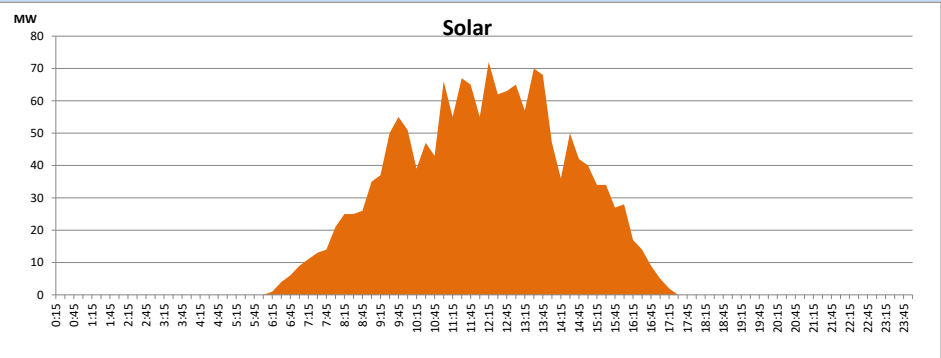
Wind Generation during November 20, 2024

Based on Telemetered Power Stations only



Solar Generation during November 20, 2024

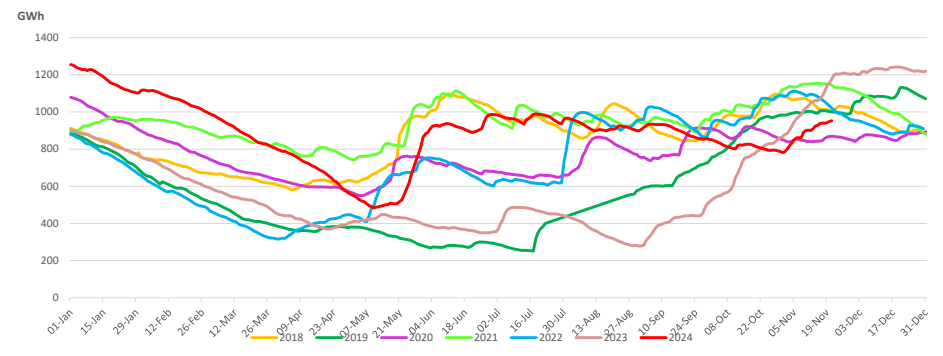
Based on Telemetered Power Stations only



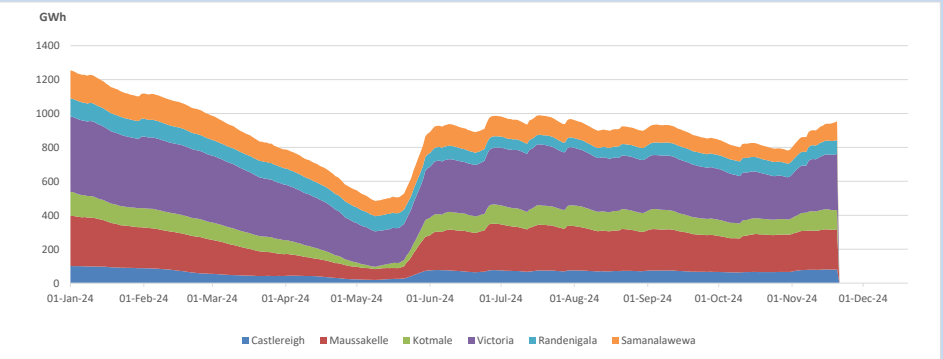
1.14 Major Incidents reported during the day November 20, 2024

- 1) Pannipitiya GSS 132KV, 100MVar BSC banks were energized for the first time for commissioning testing at 16:24hrs.
- 2) KCCPS2 - Kelanitissa GIS 220kV cable tripped from Kelanitissa GIS end at 21:33hrs. The cable was restored at 23:19hrs.
- 3) Kukulie pond spilling stopped at 11:15hrs.

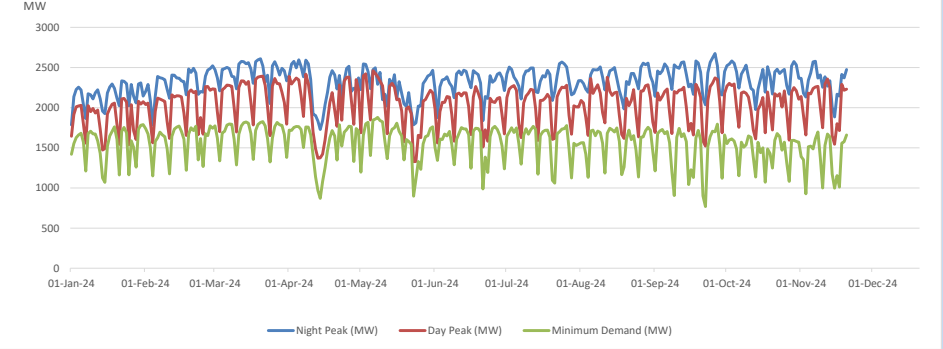
2. Comparison of Total Reservoir Storage Levels with Past Years



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

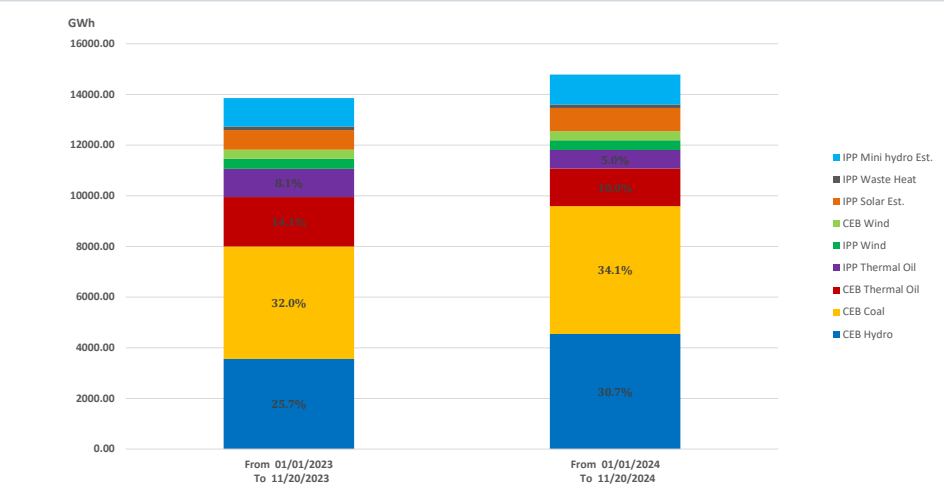


4. Variation of Demand during the current year



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 11/20/2023 13855 GWh
From 01/01/2024 To 11/20/2024 14783 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