

Generation and Reservoirs Statistics

November 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 19, 2024

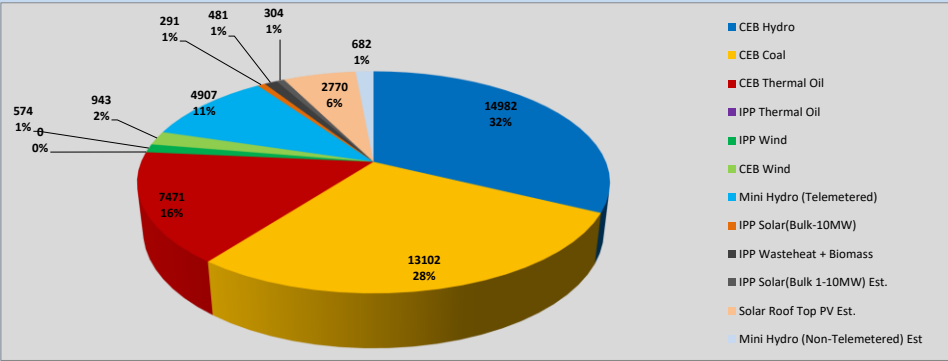


Table 01

	Generation (MWh)
CEB Hydro	14,982
CEB Coal	13,102
CEB Thermal Oil	7,471
IPP Thermal Oil	-
IPP Wind	574
CEB Wind	943
Mini Hydro (Telemetered)	4,907
IPP Solar (Bulk)	291
IPP Waste heat + Biomass	481
Total Generation (Excluding estimated figures)	42,751
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	682
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,507
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	286	34.53%
CEB Coal	234	28.28%
CEB Thermal Oil	79	9.52%
IPP Thermal	38	4.56%
IPP Wind	5	0.66%
CEB Wind	8	0.91%
Mini Hydro *	106	12.74%
IPP Solar *	65	7.81%
IPP Waste heat + BMP	8	1.01%
Total	829	

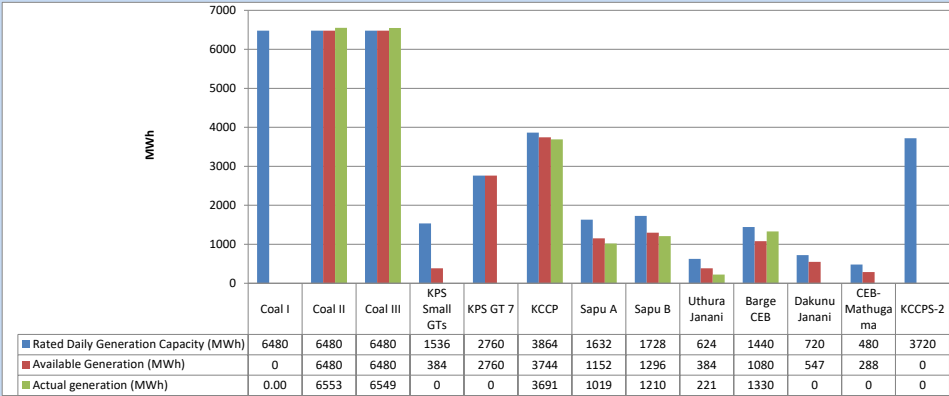
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,526	30.72%
CEB Coal	5,032	34.15%
CEB Thermal Oil	1,478	10.03%
IPP Thermal	735	4.99%
IPP Wind	382	2.59%
CEB Wind	355	2.41%
Mini Hydro *	1,175	7.97%
IPP Solar *	917	6.22%
IPP Waste heat	136	0.92%
Total	14,736	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

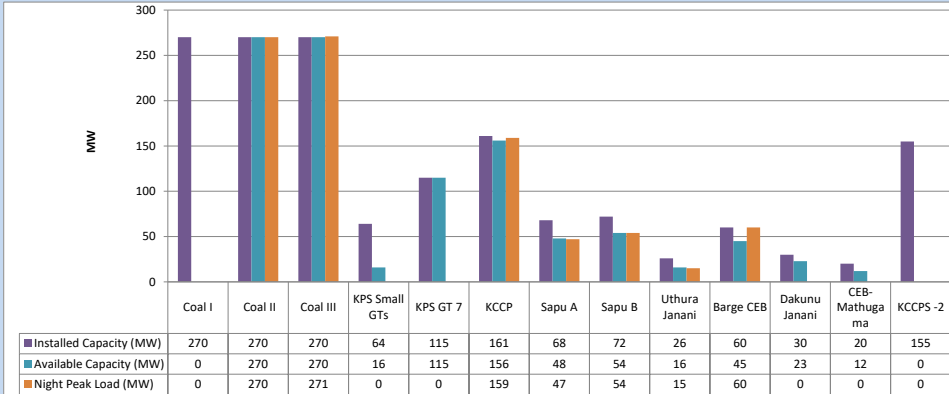
November 19, 2024



Available Generation is estimated based on plant availability at 6.00am on November 20, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

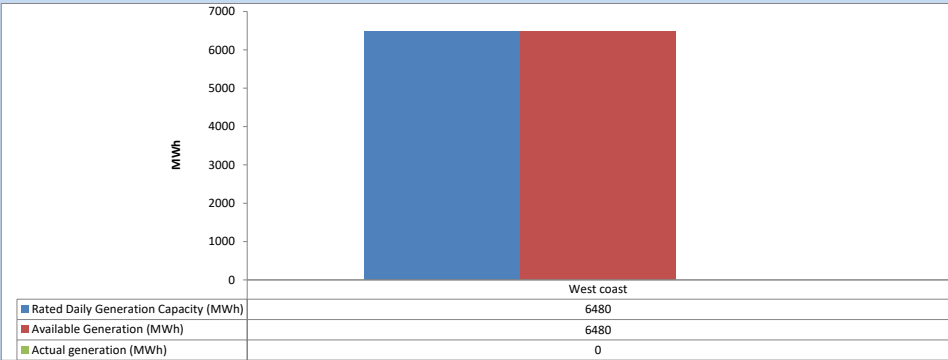
November 19, 2024



Plant availability is recorded at 6.00 am on November 20, 2024

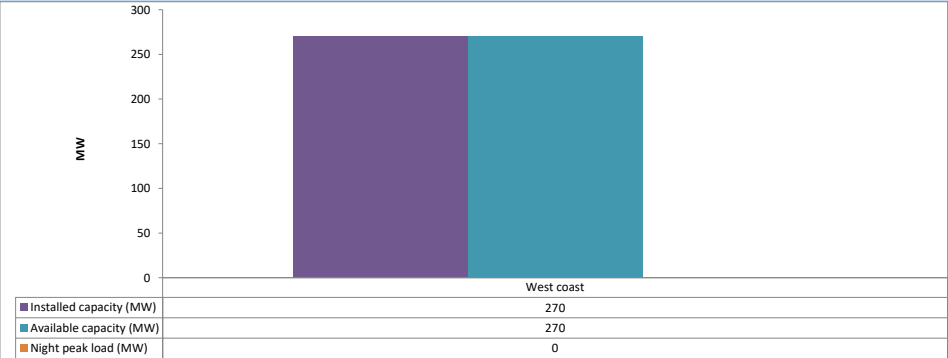
1.4 IPP owned Thermal Plant Dispatch

November 19, 2024



Available Generation is estimated based on plant availability at 6.00am on November 20, 2024

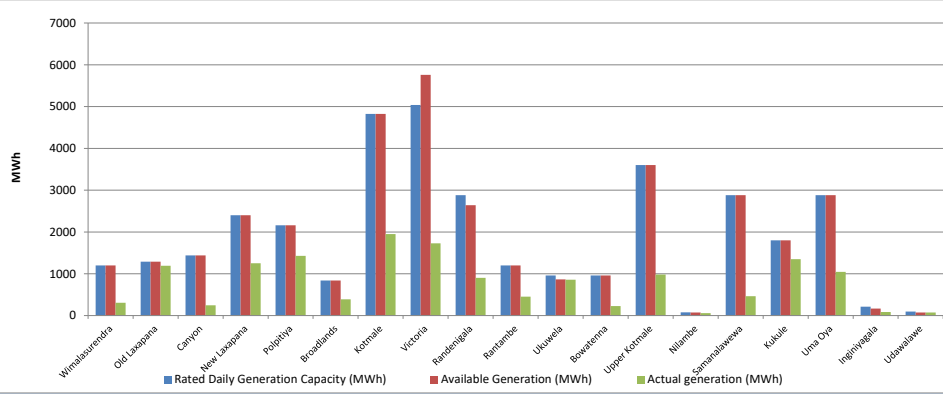
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 20, 2024

1.6 Major Hydro Plant Dispatch

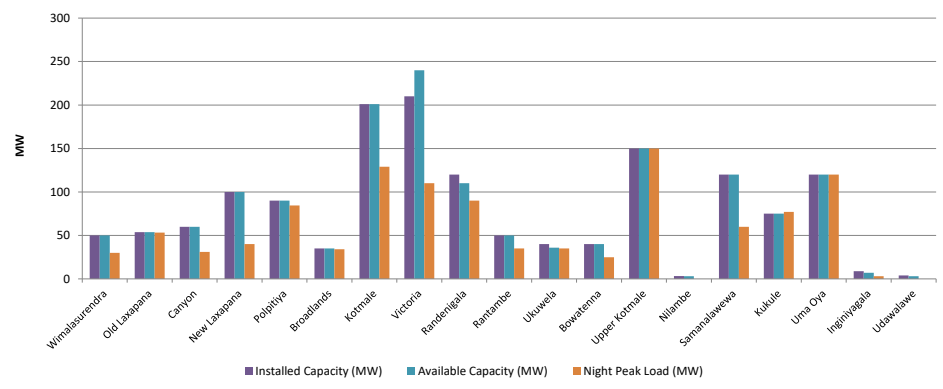
November 19, 2024



Available Generation is estimated based on plant availability at 6.00am on November 20, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 19, 2024



Plant availability is recorded at 6.00 am on November 20, 2024

1.8 Summary of Major Plant performance

November 19, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	305
Old Laxapana	54	54	53	1,190
Canyon	60	60	31	245
New Laxapana	100	100	40	1,252
Polpitiya	90	90	85	1,430
Broadlands	35	35	34	388
Kotmale	201	201	129	1,950
Victoria	210	240	110	1,728
Randenigala	120	110	90	903
Rantambe	50	50	35	454
Ukuwela	40	36	35	856
Bowatenna	40	40	25	227
Upper Kotmale	150	150	150	983
Nilambe	3	3	0	58
Samanalawewa	120	120	60	464
Kukule	75	75	77	1,348
Uma Oya	120	120	120	1,046
Inginipagala	9	7	3	85
Udawalawe	4	3	0	72
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,553
Puttalam Coal III	270	270	271	6,549
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	159	3,691
Sapugaskanda A	68	48	47	1,019
Sapugaskanda B	72	54	54	1,210
Uthura Janani	26	16	15	221
Barge CEB	60	45	60	1,330
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	3,051	2,355	42,753

Note- Plant availability is the availability recorded at 6 am on November 20, 2024

1.9 Contribution to the Night Peak in MW

November 19, 2024

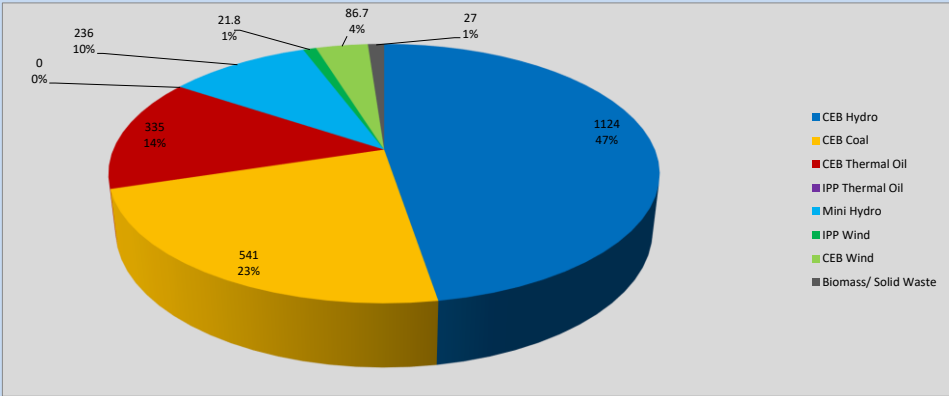


Table 05

CEB Hydro	1124	MW
CEB Coal	541	MW
CEB Thermal Oil	335	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	236	MW
IPP Wind	21.8	MW
CEB Wind	86.7	MW
Biomass/ Solid Waste	27	MW

Recorded Peak Demand Data

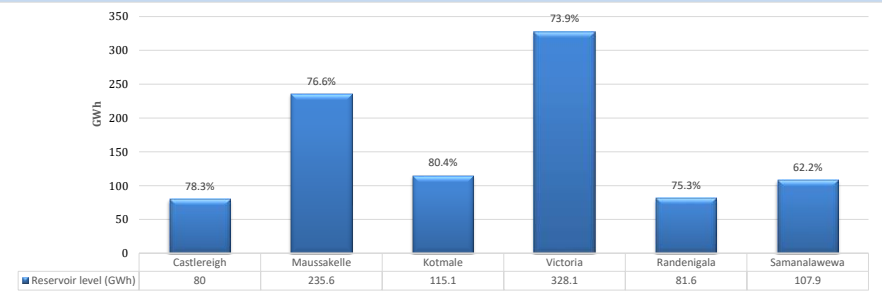
Table 06

Night Peak*	2,372	MW
Day Peak Maximum Demand	2,217	MW
Day Peak Minimum Demand	1,575	MW
Off Peak Minimum Demand	1,351	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 20, 2024



Total Reservoir Level 948.3 GWh
% of Total capacity 74.2%

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

November 19, 2024

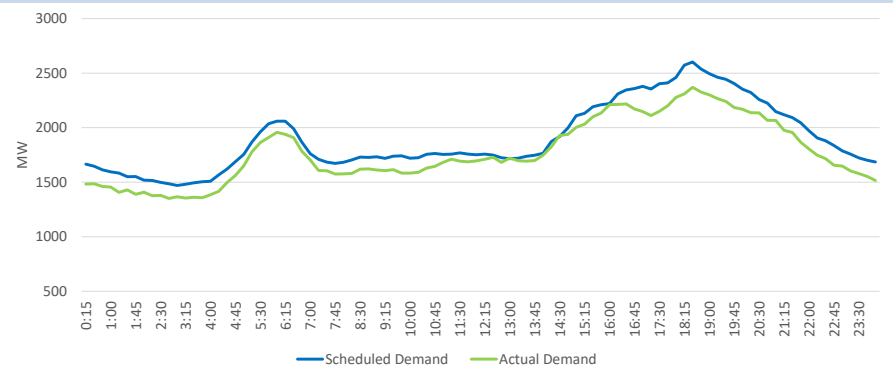
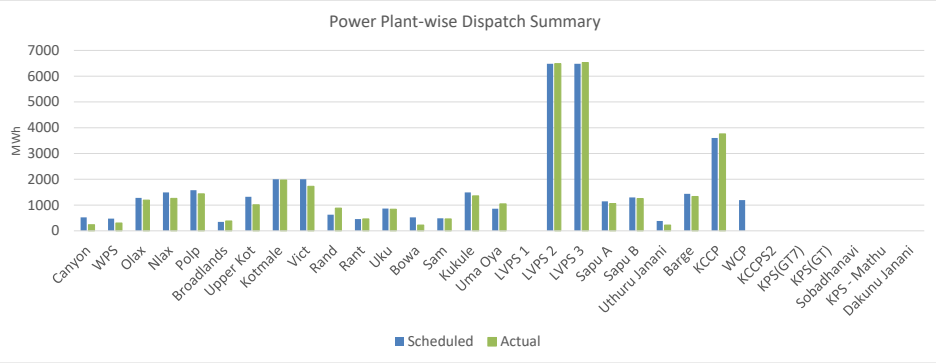


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,308	14,793	(1,514)
CEB Coal	12,960	13,017	57
CEB Thermal Oil	7,860	7,624	(236)
IPP Thermal Oil	1,191	-	(1,191)
NCRE (Telemetered)	7,290	7,180	(111)
Total	45,608	42,613	(2,995)

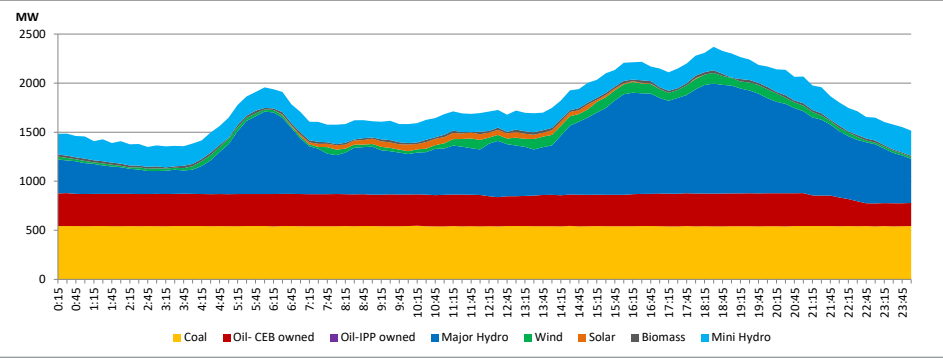
1.12 Power Plant-wise Dispatch Summary

November 19, 2024



1.13 Daily Load Curve

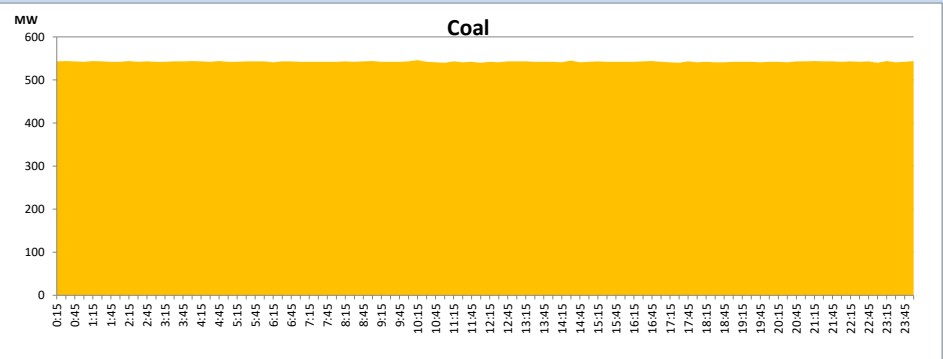
November 19, 2024



Solar and wind data is based on Telemetered Power Stations only

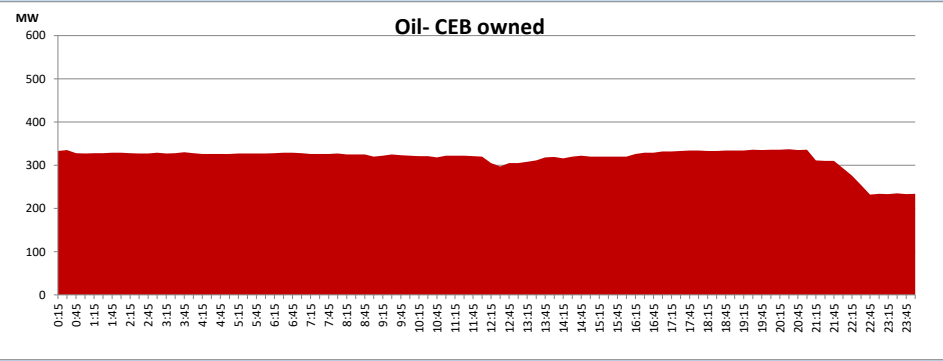
Coal Generation during

November 19, 2024

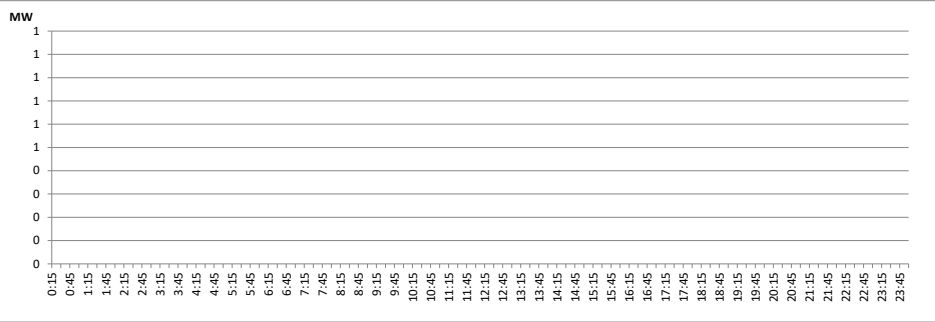


CEB Oil Plant Generation during

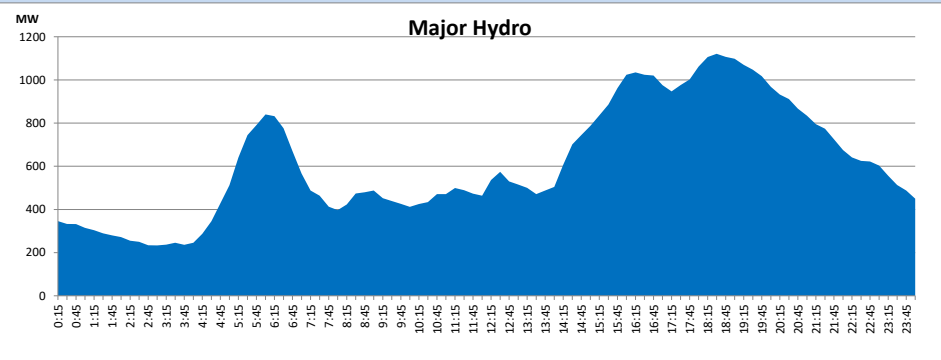
November 19, 2024



IPP Oil Plant Generation during November 19, 2024

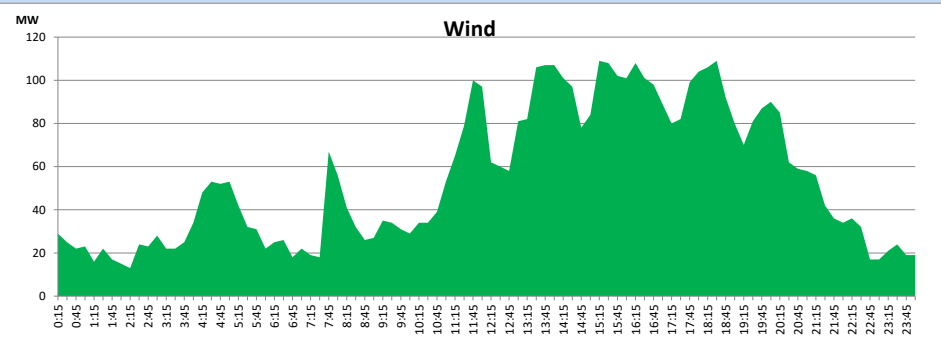


Major Hydro Generation during November 19, 2024



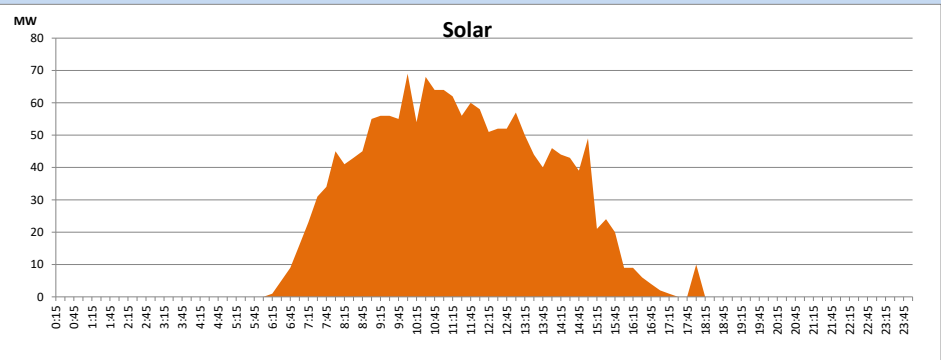
Wind Generation during November 19, 2024

Based on Telemetered Power Stations only



Solar Generation during November 19, 2024

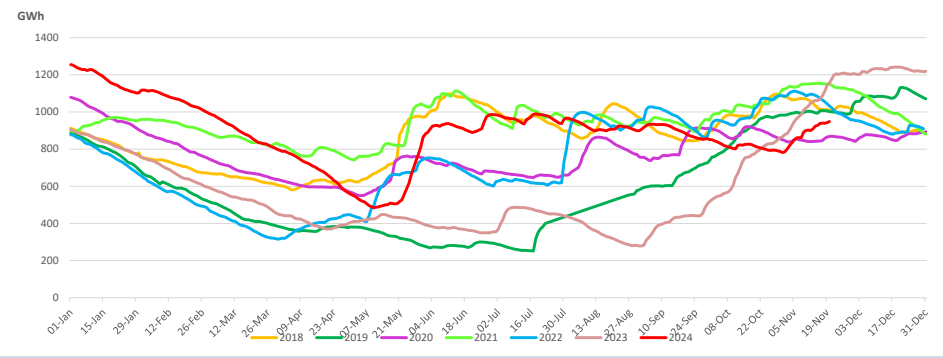
Based on Telemetered Power Stations only



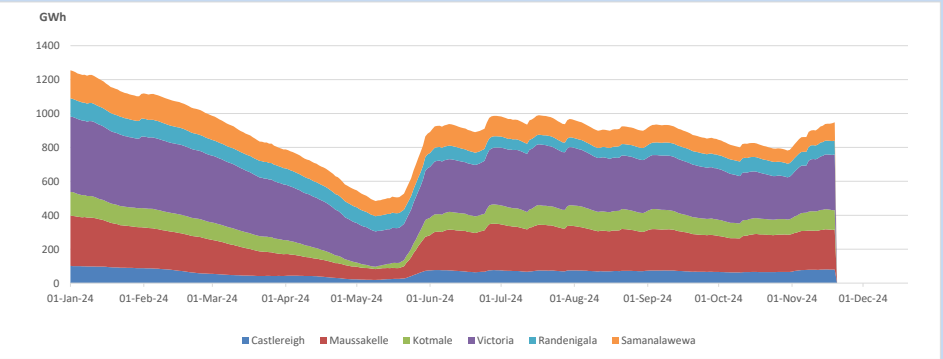
1.14 Major Incidents reported during the day November 19, 2024

- 1) Seethawaka GSS 132/33kV T/F 03 tripped from both ends at 00:35 hrs, with an indication of OLTC oil level low. The T/F 03 was normalized at 15:02hrs.
- 2) Sapu. GSS T/F 03 tripped from 33kV end at 07:43hrs with an indication of bus bar trip. The T/F 03 was normalized at 16:17hrs.
- 3) Athurugiriya GSS 132/33kV T/F 01 tripped from both ends at 08:00hrs with an indication of oil level trip. The T/F 01 was normalized at 11:40hrs.
- 4) Athurugiriya - Thulhiriya - New Polpitiya 132kV cct tripped from all ends at 16:53hrs due to the operation of distance protection. Simultaneously, Athurugiriya - Thulhiriya - Polpitiya 132kV cct tripped from Polpitiya end and tripped and A/R from Athurugiriya end, due to the operation of distance protection. All affected ccts were normalized by 17:12hrs.
- 5) Kothmale Unit 03 resumed generation after A/M at 18:33hrs.
- 6) Kukule Ganga pond spilling started at 00:05hrs (20.11.2024) and spilling continuous to the present hour.

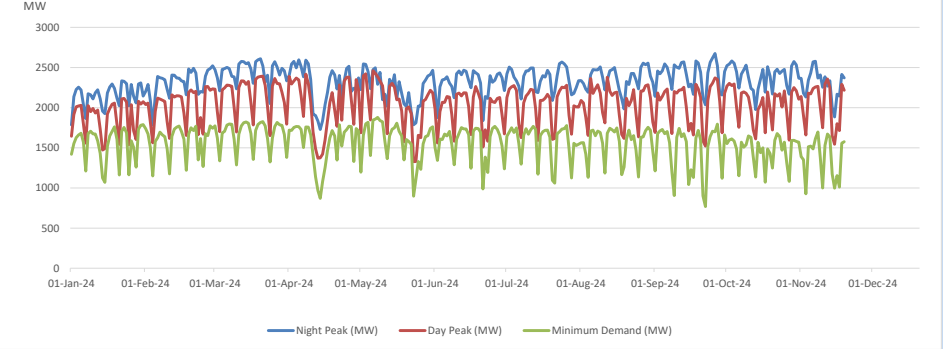
2. Comparison of Total Reservoir Storage Levels with Past Years



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

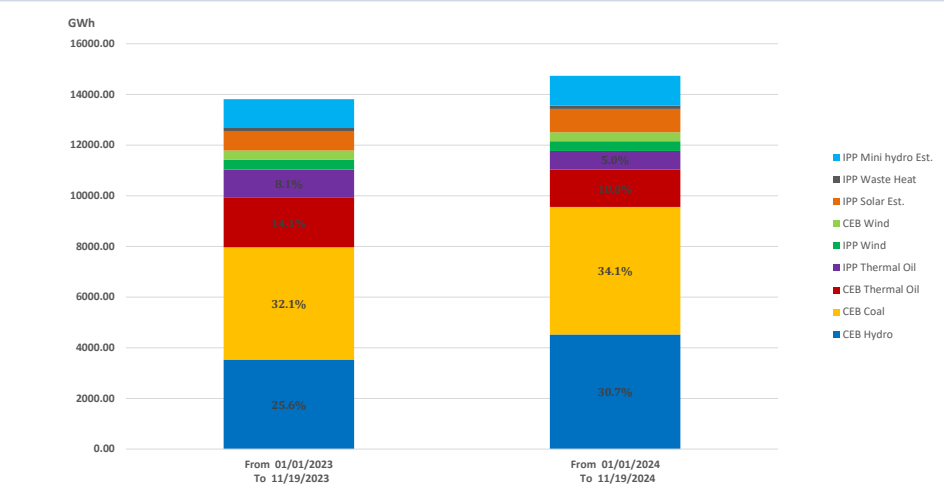


4. Variation of Demand during the current year



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 11/19/2023 13814 GWh
From 01/01/2024 To 11/19/2024 14736 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