

Generation and Reservoirs Statistics

November 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 12, 2024

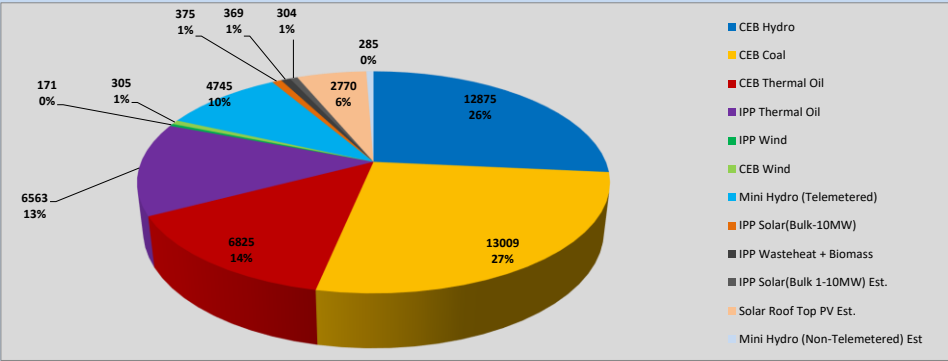


Table 01

	Generation (MWh)
CEB Hydro	12,875
CEB Coal	13,009
CEB Thermal Oil	6,825
IPP Thermal Oil	6,563
IPP Wind	171
CEB Wind	305
Mini Hydro (Telemetered)	4,745
IPP Solar (Bulk)	375
IPP Waste heat + Biomass	369
Total Generation (Excluding estimated figures)	45,237
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	285
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	48,596
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	174	32.51%
CEB Coal	152	28.35%
CEB Thermal Oil	58	10.78%
IPP Thermal	32	6.03%
IPP Wind	4	0.70%
CEB Wind	5	0.89%
Mini Hydro *	65	12.17%
IPP Solar *	41	7.62%
IPP Waste heat + BMP	5	0.95%
Total	537	

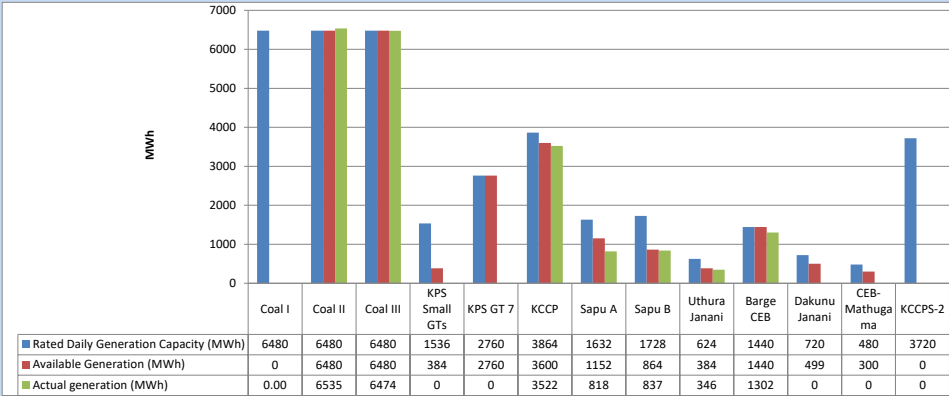
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,415	30.56%
CEB Coal	4,950	34.27%
CEB Thermal Oil	1,457	10.09%
IPP Thermal	730	5.05%
IPP Wind	380	2.63%
CEB Wind	352	2.44%
Mini Hydro *	1,135	7.86%
IPP Solar *	893	6.18%
IPP Waste heat	133	0.92%
Total	14,444	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 12, 2024

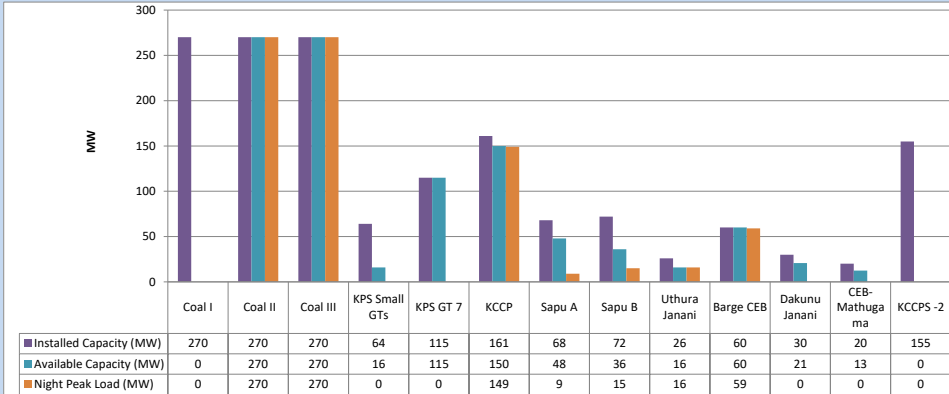


Available Generation is estimated based on plant availability at 6.00am on

November 13, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 12, 2024

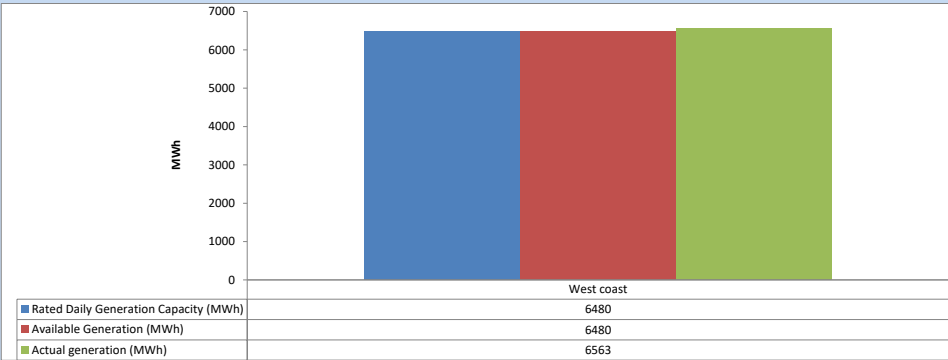


Plant availability is recorded at 6.00 am on

November 13, 2024

1.4 IPP owned Thermal Plant Dispatch

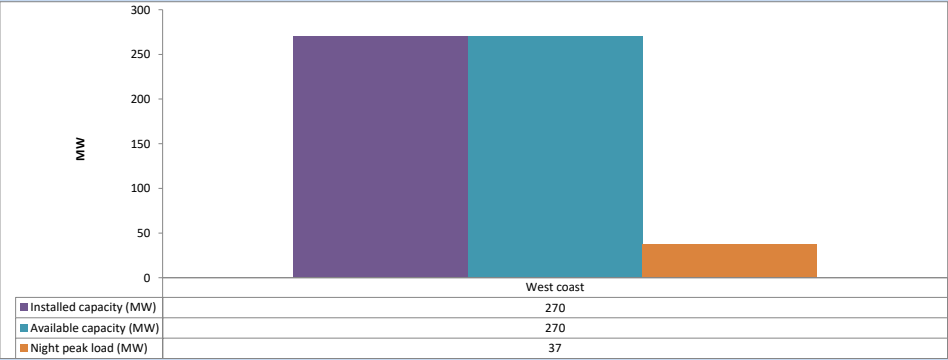
November 12, 2024



Available Generation is estimated based on plant availability at 6.00am on

November 13, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

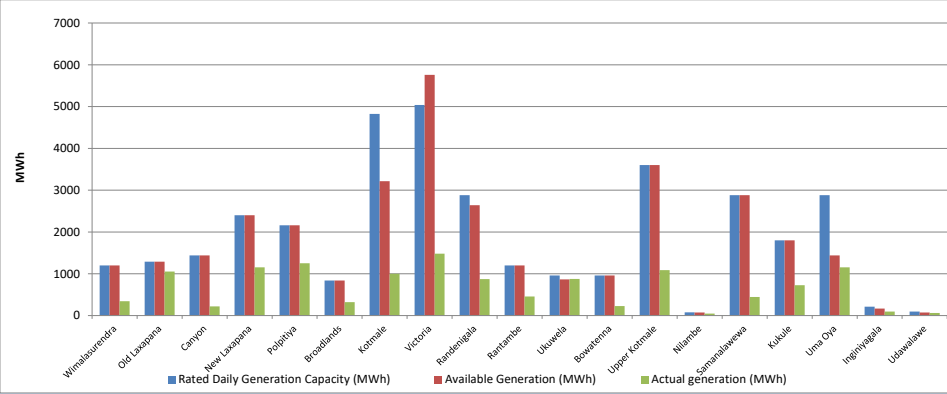


Plant availability is recorded at 6.00 am on

November 13, 2024

1.6 Major Hydro Plant Dispatch

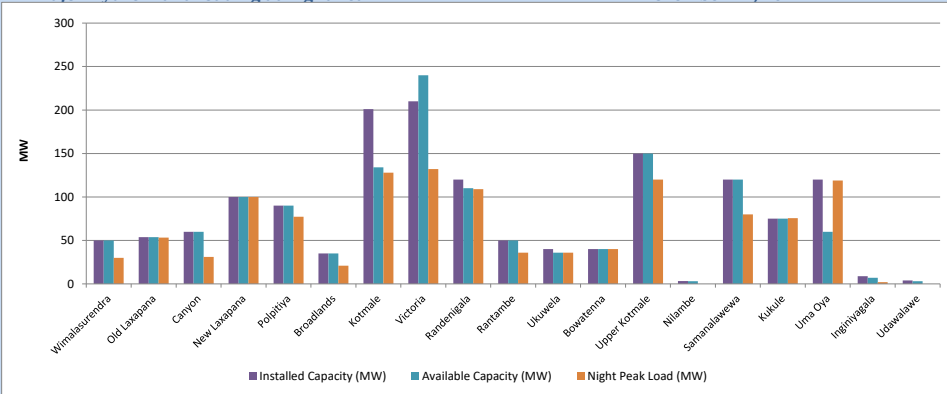
November 12, 2024



Available Generation is estimated based on plant availability at 6.00am on November 13, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 12, 2024



Plant availability is recorded at 6.00 am on November 13, 2024

1.8 Summary of Major Plant performance

November 12, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	342
Old Laxapana	54	54	53	1,054
Canyon	60	60	31	220
New Laxapana	100	100	100	1,154
Polpitiya	90	90	77	1,250
Broadlands	35	35	21	321
Kotmale	201	134	128	1,000
Victoria	210	240	132	1,481
Randenigala	120	110	109	873
Rantambe	50	50	36	456
Ukuwela	40	36	36	878
Bowatenna	40	40	40	226
Upper Kotmale	150	150	120	1,088
Nilambe	3	3	0	47
Samanalawewa	120	120	80	444
Kukule	75	75	76	727
Uma Oya	120	60	119	1,154
Inginipagala	9	7	2	96
Udawalawe	4	3	0	62
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,535
Puttalam Coal III	270	270	270	6,474
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	149	3,522
Sapugaskanda A	68	48	9	818
Sapugaskanda B	72	36	15	837
Uthura Janani	26	16	16	346
Barge CEB	60	60	59	1,302
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	37	6,563
Sobadhanavi	220	0	0	0
Total	3,602	2,913	2,252	45,235

Note- Plant availability is the availability recorded at 6 am on November 13, 2024

1.9 Contribution to the Night Peak in MW

November 12, 2024

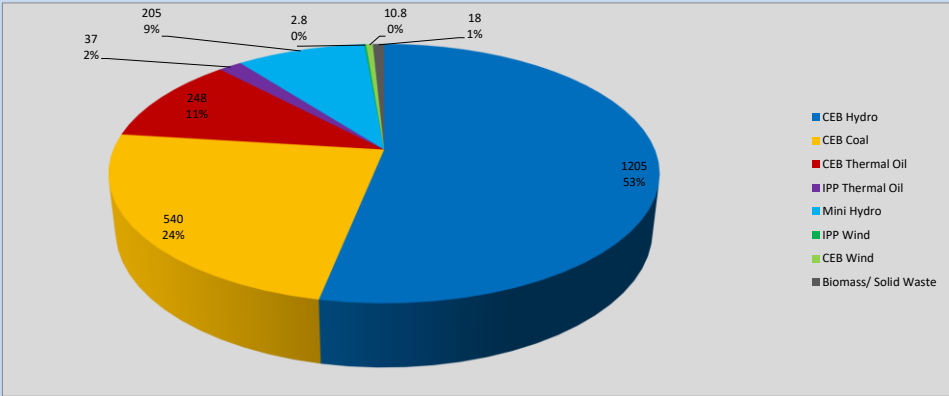


Table 05

CEB Hydro	1205	MW
CEB Coal	540	MW
CEB Thermal Oil	248	MW
IPP Thermal Oil	37	MW
Mini Hydro (Telemetered)	205	MW
IPP Wind	2.8	MW
CEB Wind	10.8	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

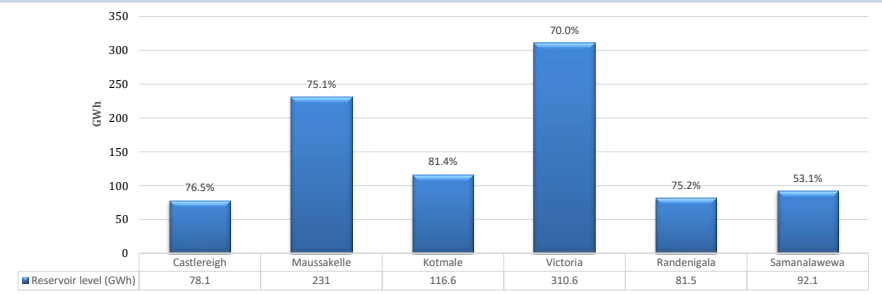
Table 06

Night Peak*	2,267	MW
Day Peak Maximum Demand	2,358	MW
Day Peak Minimum Demand	1,672	MW
Off Peak Minimum Demand	1,471	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 13, 2024



Total Reservoir Level 909.9 GWh
% of Total capacity 71.2%

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

November 12, 2024

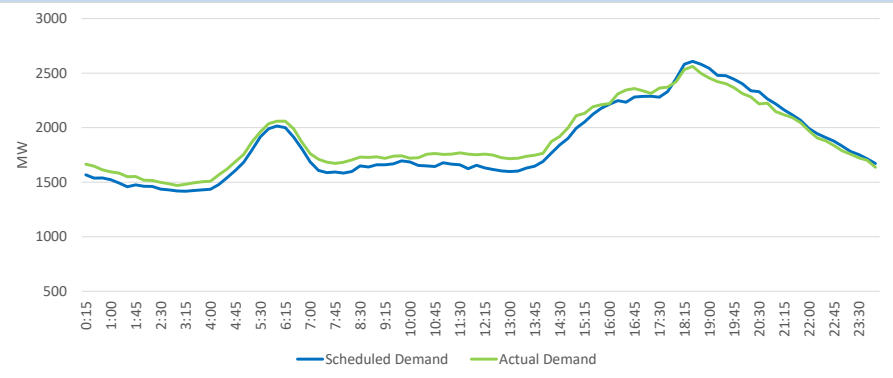
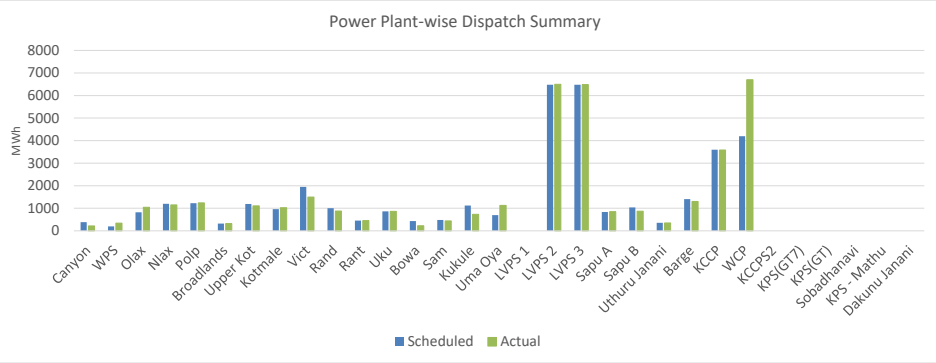


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,296	12,658	(638)
CEB Coal	12,960	12,982	22
CEB Thermal Oil	7,230	6,957	(273)
IPP Thermal Oil	4,195	6,698	2,502
NCRE (Telemetered)	6,659	6,155	(505)
Total	44,341	45,449	1,108

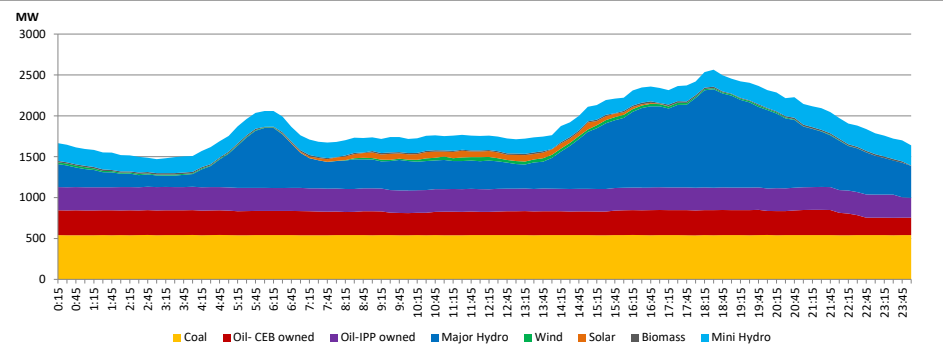
1.12 Power Plant-wise Dispatch Summary

November 12, 2024



1.13 Daily Load Curve

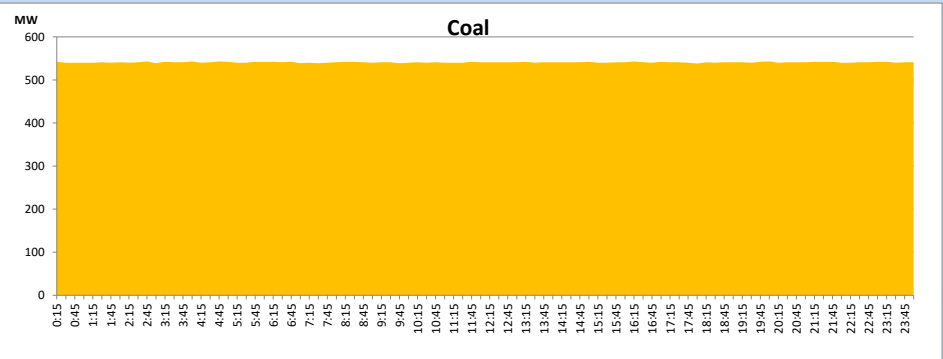
November 12, 2024



Solar and wind data is based on Telemetered Power Stations only

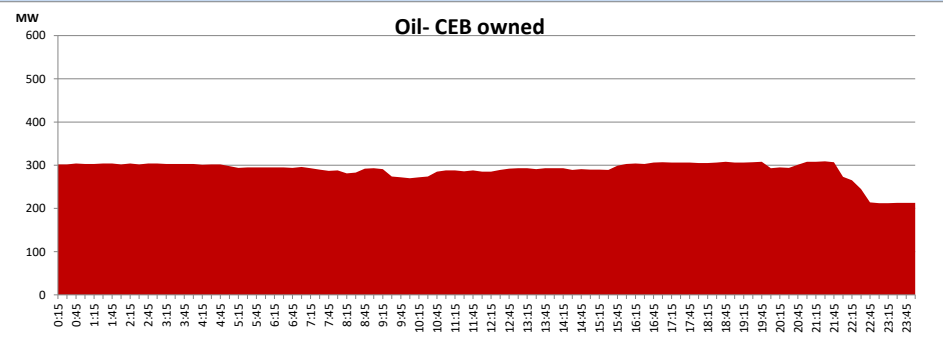
Coal Generation during

November 12, 2024

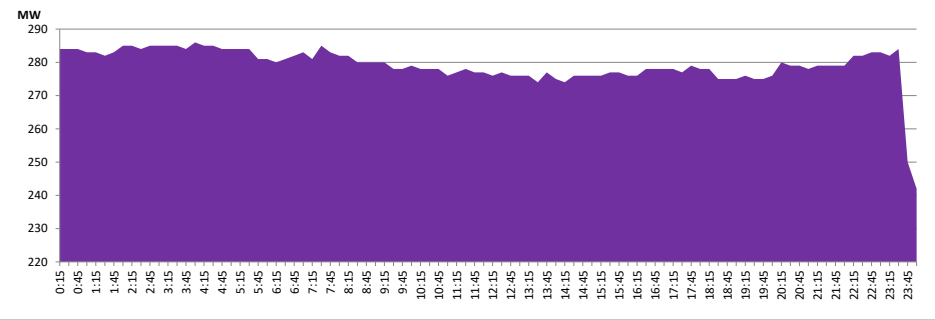


CEB Oil Plant Generation during

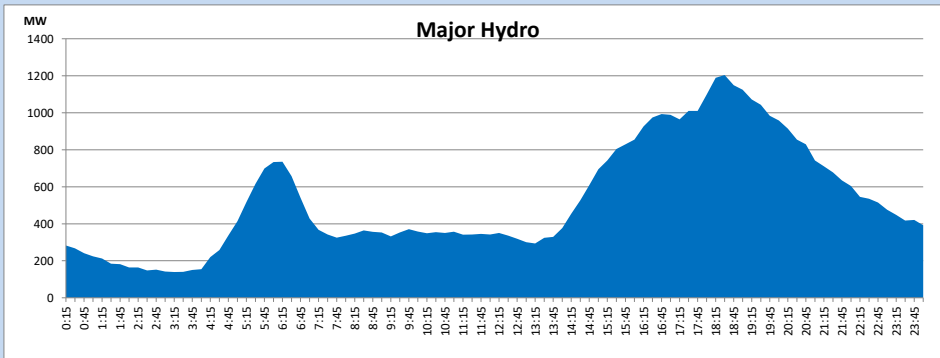
November 12, 2024



IPP Oil Plant Generation during November 12, 2024

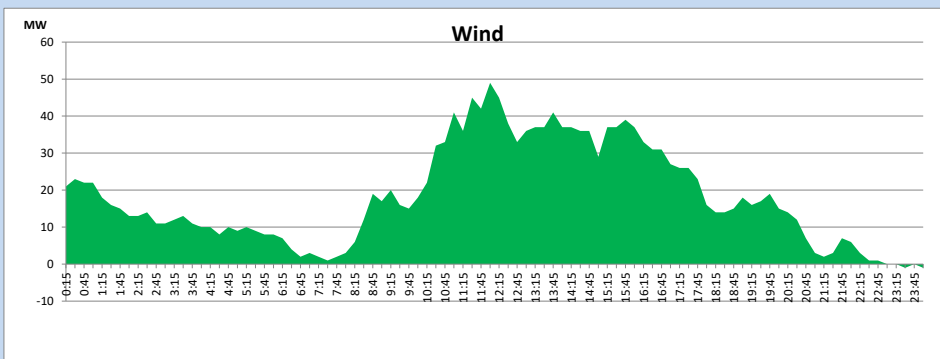


Major Hydro Generation during November 12, 2024



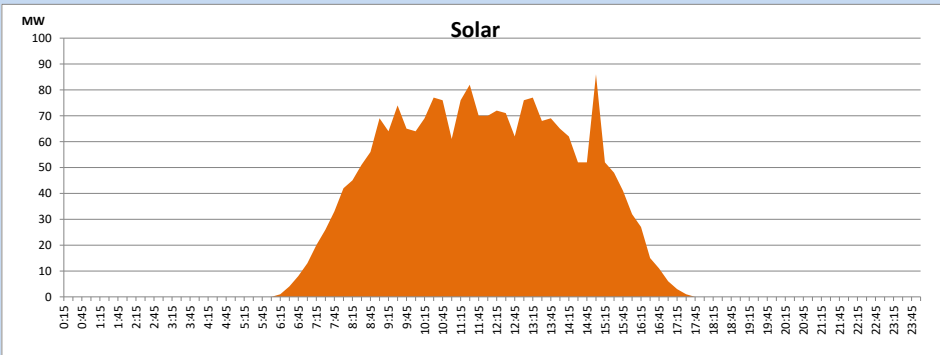
Wind Generation during November 12, 2024

Based on Telemetered Power Stations only



Solar Generation during November 12, 2024

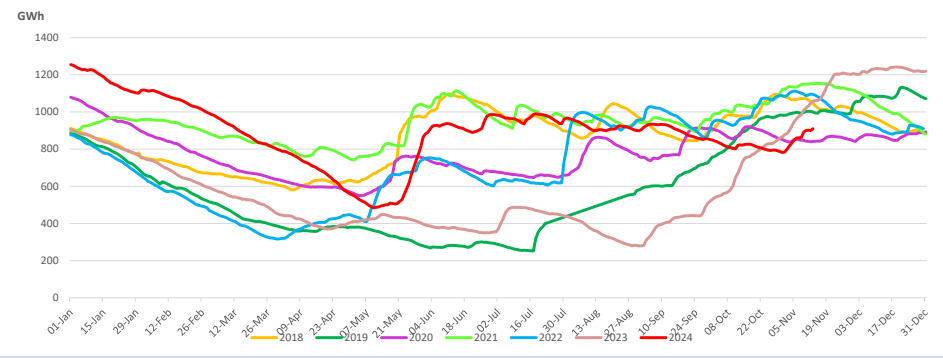
Based on Telemetered Power Stations only



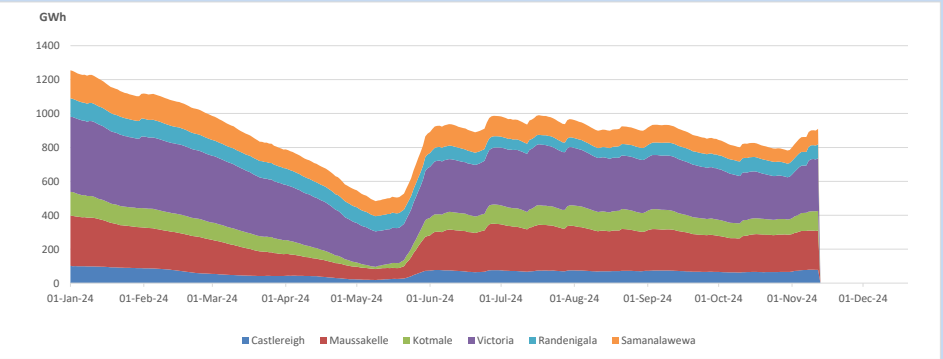
1.14 Major Incidents reported during the day November 12, 2024

- 1) New Kerawalapitiya - Sobadhanavi ST 220kV cable was energized first time for soak test at 12:52hrs.
- 2) New Anuradhapura 220/132/33kV T/F 01, which manually switched off on 11.11.2024, was normalized from 220kV & 132kV ends at 15:08hrs. (The T/F was kept off from 33kV end after being tripped at 07:14hrs on 04.11.2024).
- 3) Mannar 220/33kV T/F tripped from both ends at 17:44hrs due to the operation of earthing T/F buchholz relay, causing all 33kV feeders of the GSS to be daed. All affected feeders and the T/F is yet to be normalized.

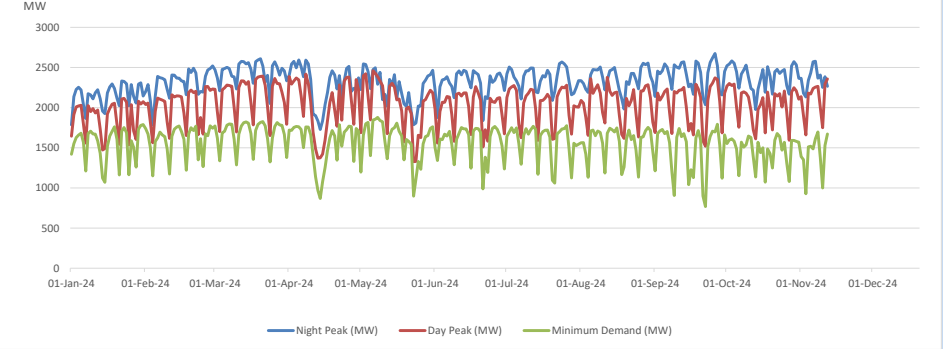
2. Comparison of Total Reservoir Storage Levels with Past Years



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

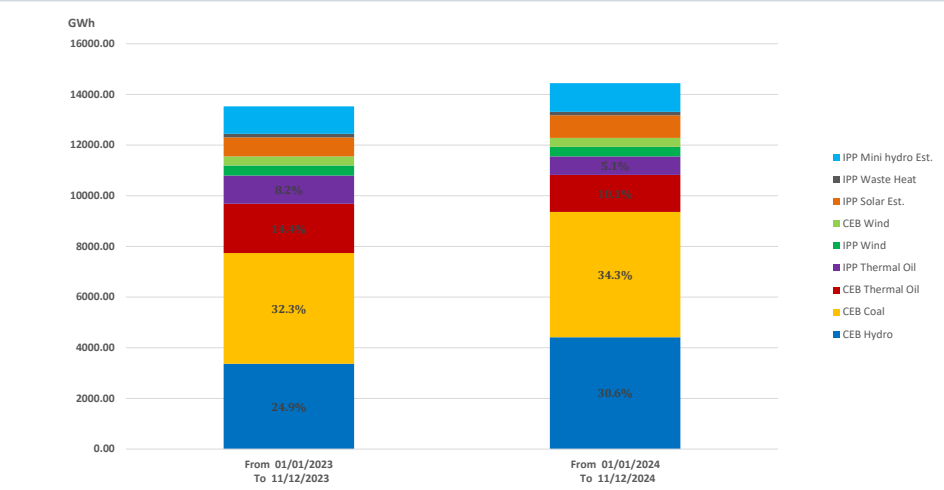


4. Variation of Demand during the current year



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 11/12/2023 13526 GWh
From 01/01/2024 To 11/12/2024 14444 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