

Generation and Reservoirs Statistics

November 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 27, 2024

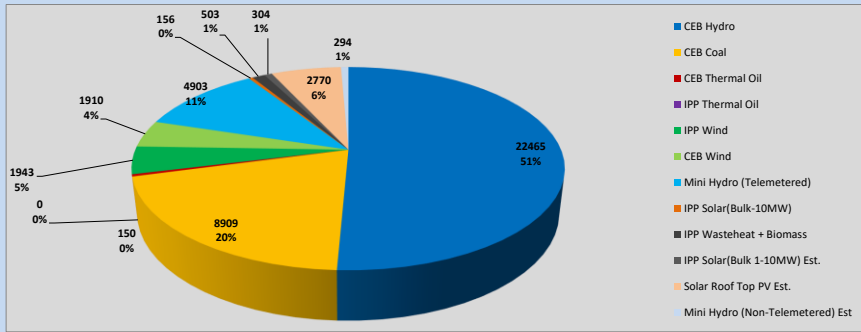


Table 01

	Generation (MWh)
CEB Hydro	22,465
CEB Coal	8,909
CEB Thermal Oil	150
IPP Thermal Oil	-
IPP Wind	1,943
CEB Wind	1,910
Mini Hydro (Telemetered)	4,903
IPP Solar (Bulk)	156
IPP Waste heat + Biomass	503
Total Generation (Excluding estimated figures)	40,939
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	294
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	44,307

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	427	35.99%
CEB Coal	329	27.72%
CEB Thermal Oil	113	9.49%
IPP Thermal	38	3.18%
IPP Wind	12	1.05%
CEB Wind	16	1.33%
Mini Hydro *	149	12.56%
IPP Solar *	91	7.64%
IPP Waste heat + BMP	12	1.03%
Total	1,187	

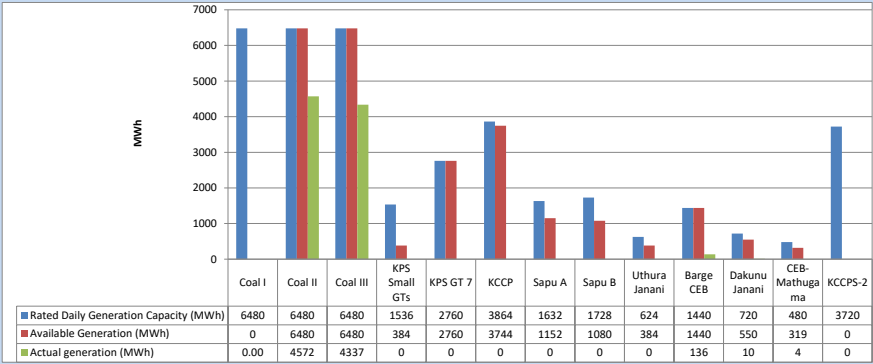
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,667	30.92%
CEB Coal	5,126	33.96%
CEB Thermal Oil	1,512	10.02%
IPP Thermal	735	4.87%
IPP Wind	389	2.58%
CEB Wind	363	2.41%
Mini Hydro *	1,219	8.07%
IPP Solar *	943	6.24%
IPP Waste heat	140	0.93%
Total	15,094	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 27, 2024

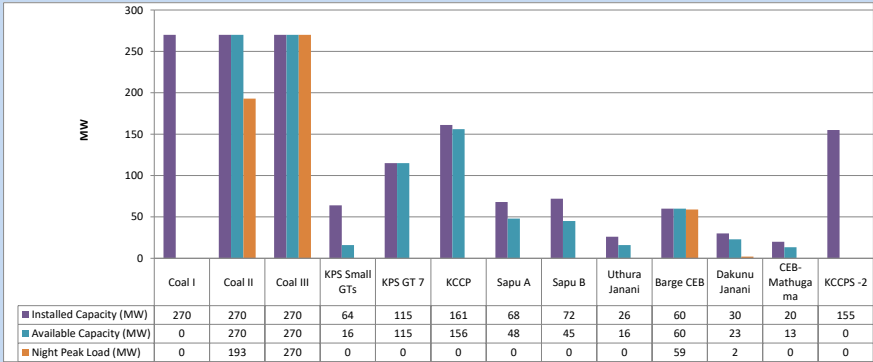


Available Generation is estimated based on plant availability at 6.00am on

November 28, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 27, 2024

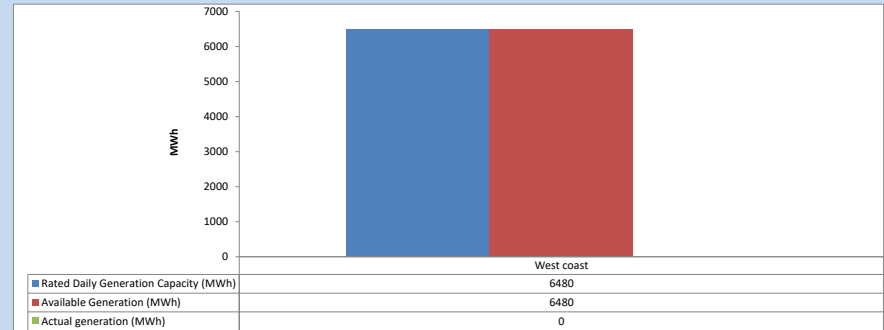


Plant availability is recorded at 6.00 am on

November 28, 2024

1.4 IPP owned Thermal Plant Dispatch

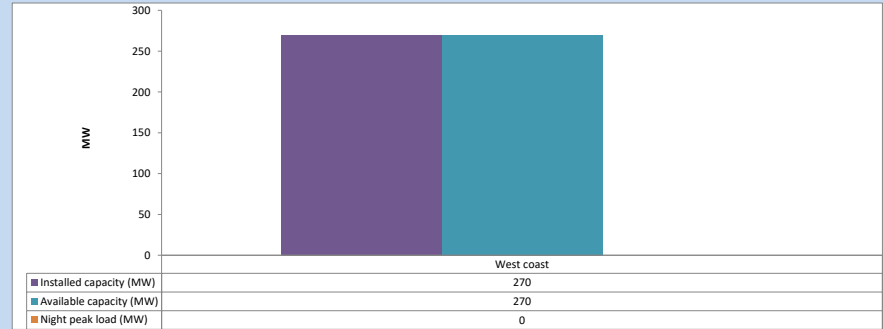
November 27, 2024



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

November 28, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

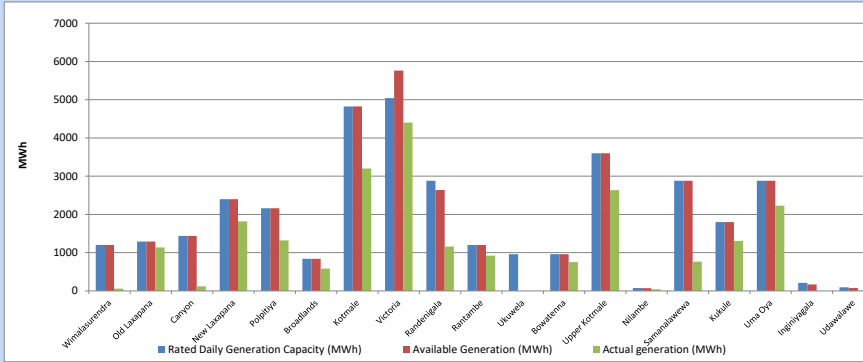


Plant availability is recorded at 6.00 am on

November 28, 2024

1.6 Major Hydro Plant Dispatch

November 27, 2024

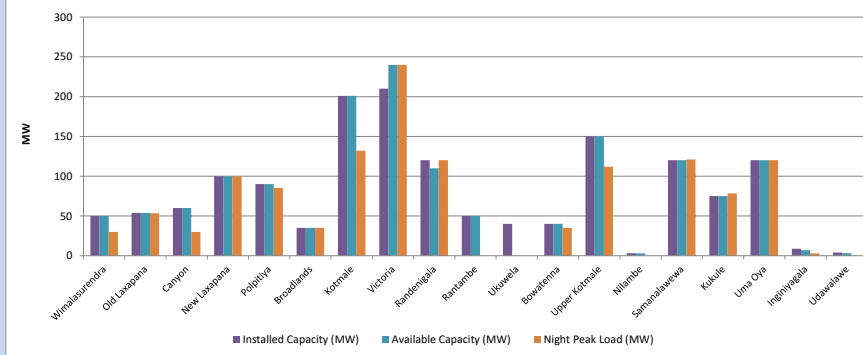


Available Generation is estimated based on plant availability at 6.00am on

November 28, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 27, 2024



Plant availability is recorded at 6.00 am on

November 28, 2024

1.8 Summary of Major Plant performance

November 27, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	61
Old Laxapana	54	54	54	1,138
Canyon	60	60	30	122
New Laxapana	100	100	100	1,817
Polpitiya	90	90	85	1,320
Broadlands	35	35	35	584
Kotmale	201	201	132	3,200
Victoria	210	240	240	4,400
Randenigala	120	110	120	1,161
Rantambe	50	50	0	924
Ukuwela	40	0	0	0
Bowatenna	40	40	35	752
Upper Kotmale	150	150	112	2,634
Nilambe	3	3	0	43
Samanalawewa	120	120	121	766
Kukule	75	75	78	1,307
Uma Oya	120	120	120	2,229
Inginigala	9	7	3	0
Udawalawe	4	3	0	10
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	193	4,572
Puttalam Coal III	270	270	270	4,337
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	16	0	0
Barge CEB	60	60	59	136
CEB-Hambantota	30	23	2	10
CEB-Mathugama	20	13	0	4
KCCPS-2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	3,022	2,205	40,942

Note-

Plant availability is the availability recorded at 6 am on

November 28, 2024

1.9 Contribution to the Night Peak in MW

November 27, 2024

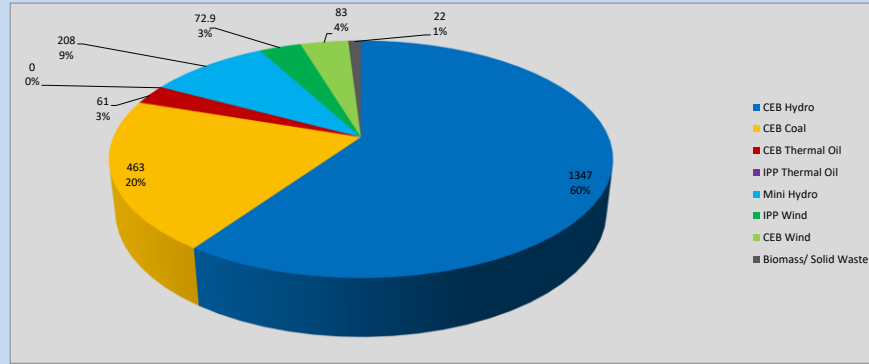


Table 05

CEB Hydro	1347	MW
CEB Coal	463	MW
CEB Thermal Oil	61	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	208	MW
IPP Wind	72.9	MW
CEB Wind	83	MW
Biomass/ Solid Waste	22	MW

Recorded Peak Demand Data

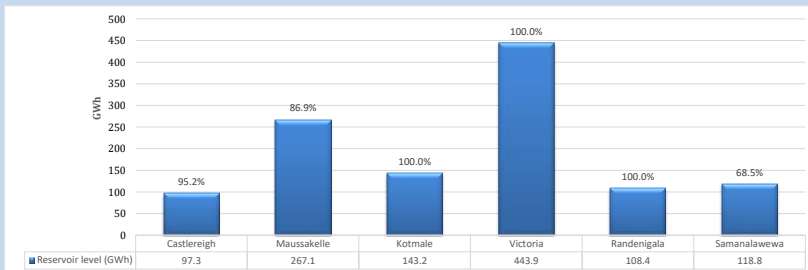
Table 06

Night Peak*	2,257	MW
Day Peak Maximum Demand	2,059	MW
Day Peak Minimum Demand	1,741	MW
Off Peak Minimum Demand	1,157	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 28, 2024



Total Reservoir Level
% of Total capacity

1178.7 GWh
92.2%

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

November 27, 2024

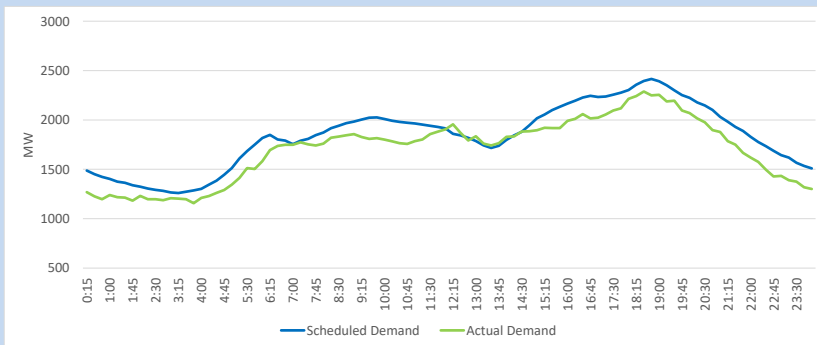
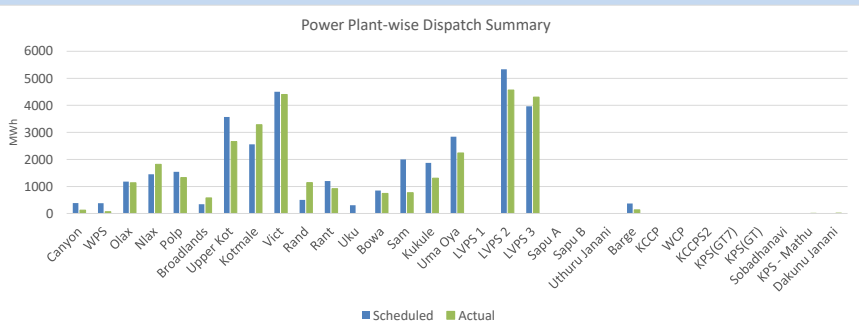


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,470	22,465	(3,005)
CEB Coal	9,301	8,909	(392)
CEB Thermal Oil	368	150	(218)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	8,928	9,415	487
Total	44,067	40,939	(3,128)

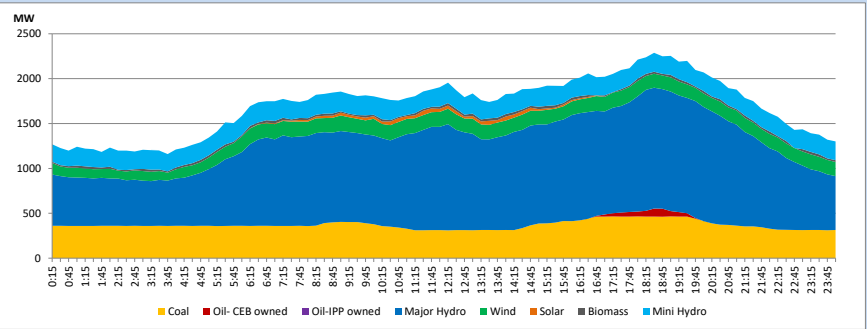
1.12 Power Plant-wise Dispatch Summary

November 27, 2024



1.13 Daily Load Curve

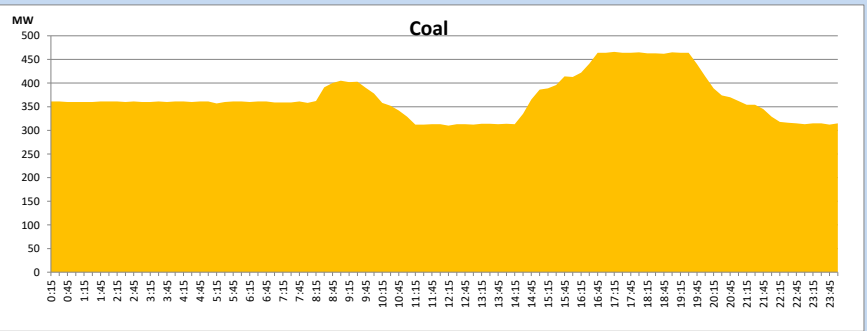
November 27, 2024



Solar and wind data is based on Telemetered Power Stations only

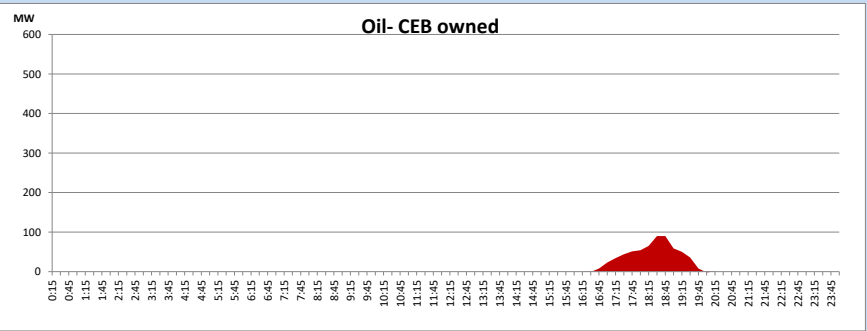
Coal Generation during

November 27, 2024



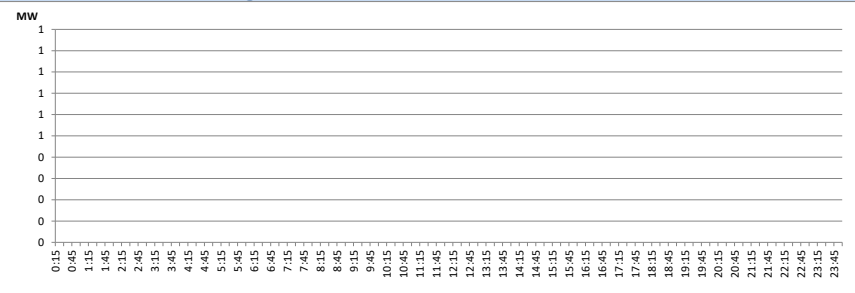
CEB Oil Plant Generation during

November 27, 2024



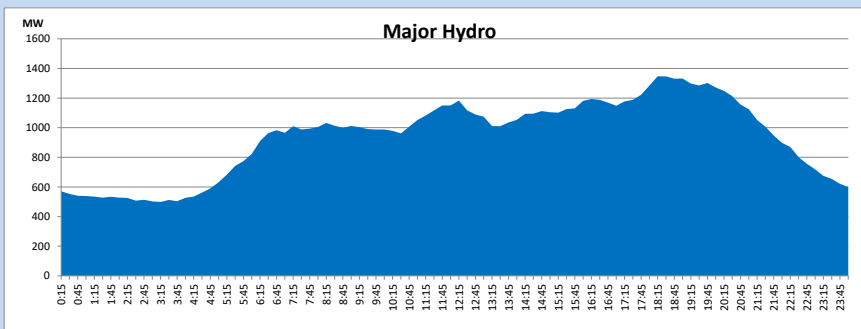
IPP Oil Plant Generation during

November 27, 2024



Major Hydro Generation during

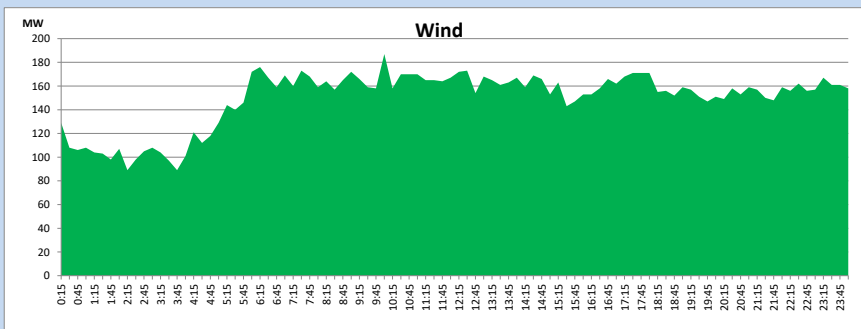
November 27, 2024



Wind Generation during

November 27, 2024

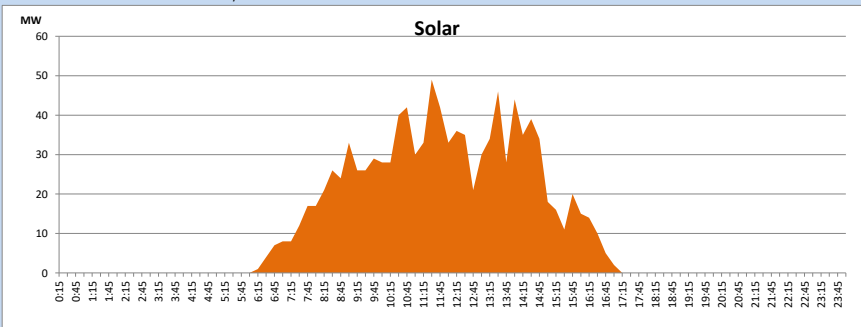
Based on Telemetered Power Stations only



Solar Generation during

November 27, 2024

Based on Telemetered Power Stations only

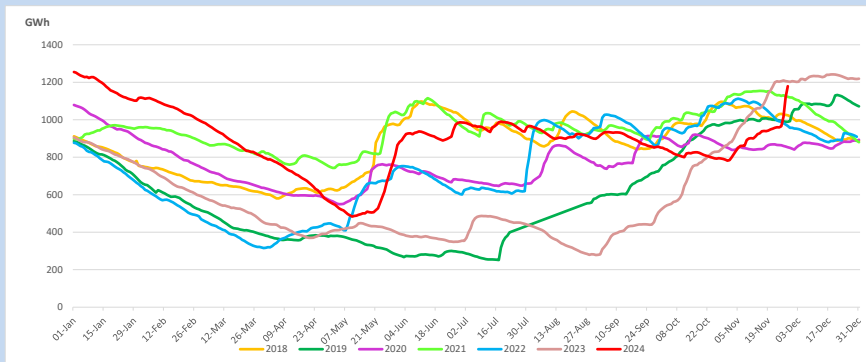


1.14 Major Incidents reported during the day

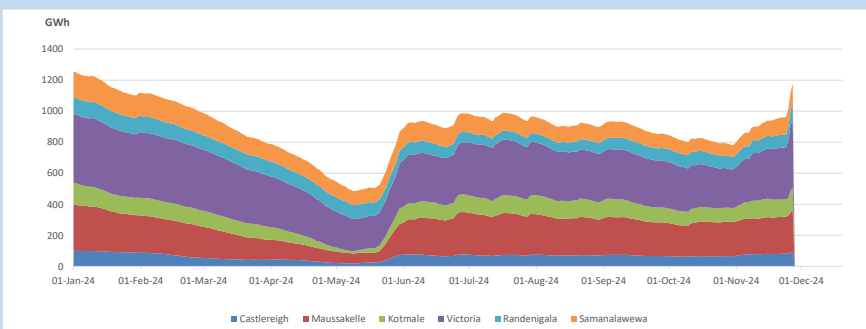
November 27, 2024

- 1) Broadlands Unit 01 & 02 tripped at 01:53hrs & 08:07hrs respectively rejecting 17.5MW & 17.5MW from the system due to cold air temperature high alarm. Both units were resumed generation by 10:51hrs.
- 2) Polpitiya unit 01 tripped at 08:09hrs rejecting 29MW from the system due to cooling water flow low. The unit resumed generation at 11:19hrs. Polpitiya unit 01 & unit 02 tripped at 11:48hrs & 11:43hrs respectively rejecting 38MW & 30MW from the system due to high turbine guide bearing temperature. Both units were resumed generation by 13:00hrs.
- 3) Kotmale Unit 03 made a forced shutdown at 16:23hrs due to high turbine guide-bearing temperature. The unit resumed generation at 21:55hrs.
- 4) WPS unit 01 tripped at 16:25hrs due to the governor oil coolers water flow low alarm. The unit resumed generation at 17:52hrs.
- 5) Rantambe Unit 01 made unavailable for generation at 17:43hrs due to an intake gate blockage, and the unit resumed generation at 18:14hrs.
- 6) Kothmale, Victoria & Randenigala reservoirs spilling started at 12:40hrs, 14:58hrs & 04:15hrs (28.11.2024) respectively and spilling continues to the present hour.
- 7) Uma Oya Dyraaba & Puhulpola ponds, Rantambe pond, Norton pond, Canyon pond, Laxapana pond and Broadlands pond spilled intermittantly. Uma Oya Dyraaba & Puhulpola ponds, Rantambe pond, Norton pond, Canyon pond and Laxapana pond spilling continues to the present hour.
- 8) Bowathenna reservoir & Upper kotmale pond spilling continues to the present hour.

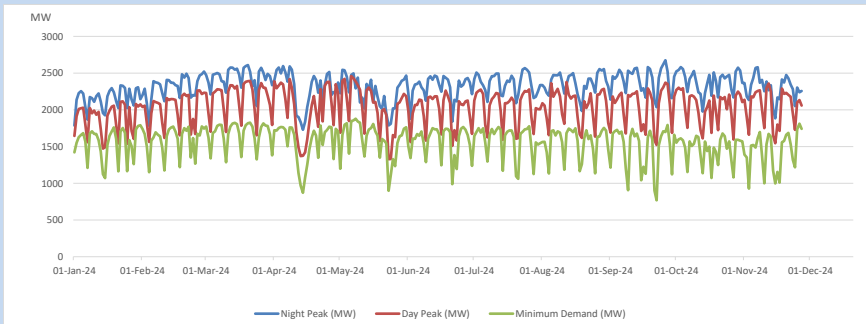
2. Comparison of Total Reservoir Storage Levels with Past Years



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

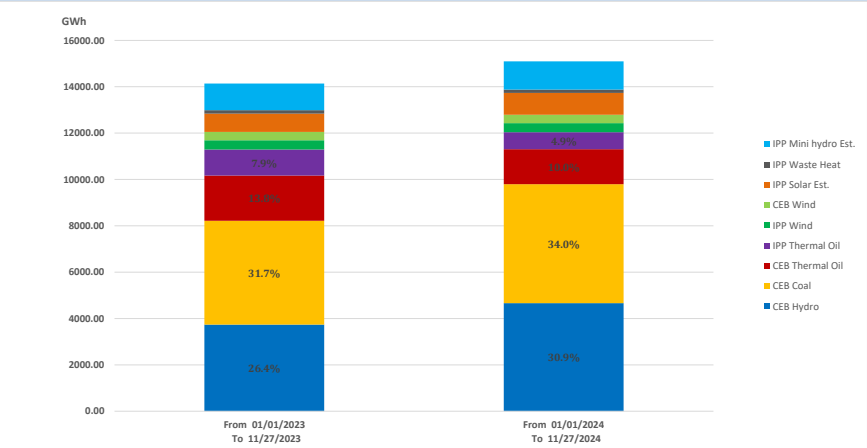


4. Variation of Demand during the current year



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 11/27/2023 14140 GWh
From 01/01/2024 To 11/27/2024 15094 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