

Generation and Reservoirs Statistics

November 26, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 26, 2024

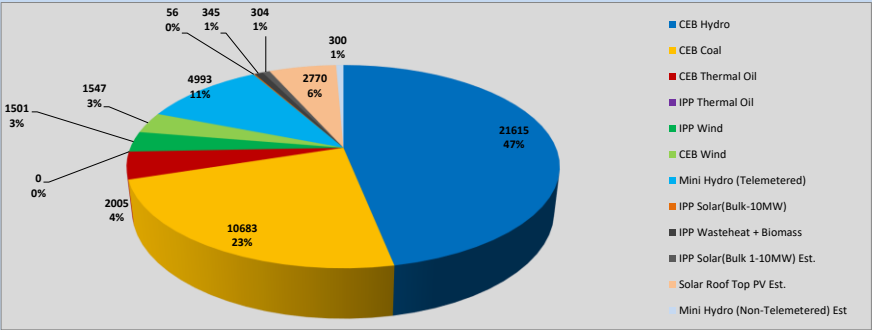


Table 01

	Generation (MWh)
CEB Hydro	21,615
CEB Coal	10,683
CEB Thermal Oil	2,005
IPP Thermal Oil	-
IPP Wind	1,501
CEB Wind	1,547
Mini Hydro (Telemetered)	4,993
IPP Solar (Bulk)	56
IPP Waste heat + Biomass	345
Total Generation (Excluding estimated figures)	42,745
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	300
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,119

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	405	35.42%
CEB Coal	320	28.01%
CEB Thermal Oil	113	9.85%
IPP Thermal	38	3.31%
IPP Wind	11	0.92%
CEB Wind	14	1.21%
Mini Hydro *	144	12.60%
IPP Solar *	87	7.66%
IPP Waste heat + BMP	12	1.02%
Total	1,142	

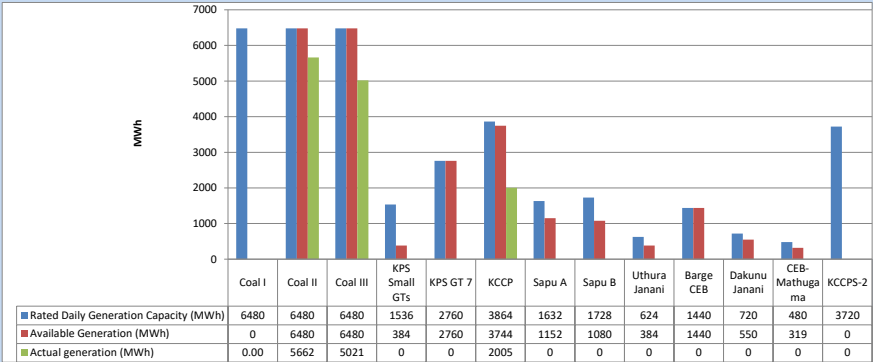
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,645	30.86%
CEB Coal	5,117	34.00%
CEB Thermal Oil	1,512	10.04%
IPP Thermal	735	4.89%
IPP Wind	387	2.57%
CEB Wind	362	2.40%
Mini Hydro *	1,213	8.06%
IPP Solar *	939	6.24%
IPP Waste heat	139	0.92%
Total	15,050	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 26, 2024

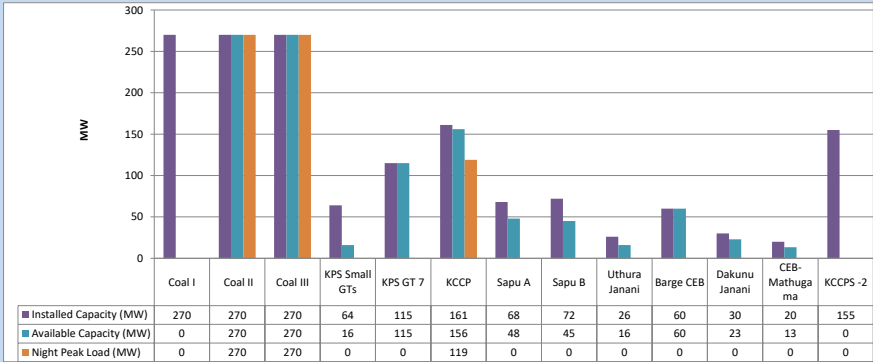


Available Generation is estimated based on plant availability at 6.00am on

November 27, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 26, 2024

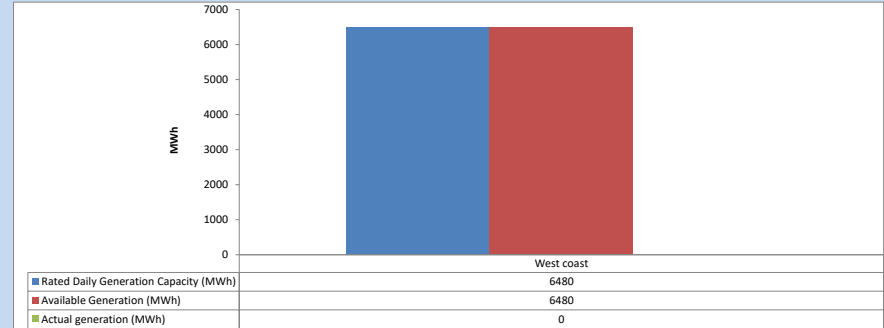


Plant availability is recorded at 6.00 am on

November 27, 2024

1.4 IPP owned Thermal Plant Dispatch

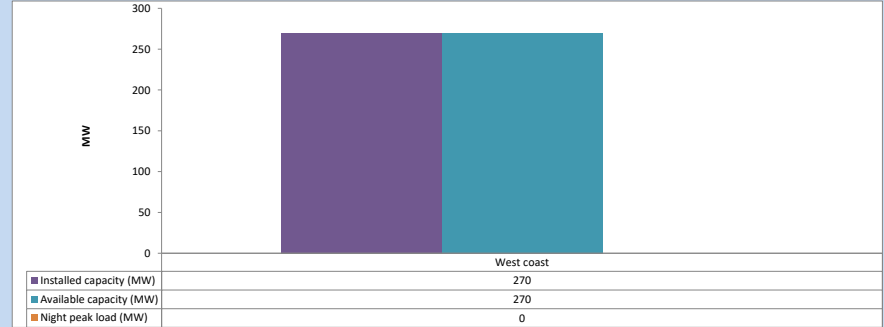
November 26, 2024



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

November 27, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

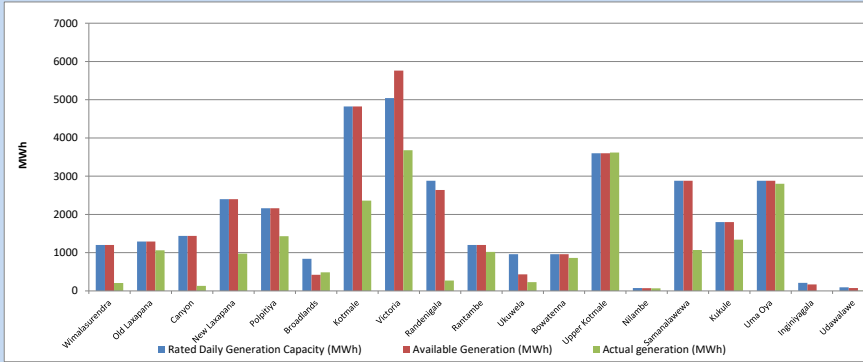


Plant availability is recorded at 6.00 am on

November 27, 2024

1.6 Major Hydro Plant Dispatch

November 26, 2024

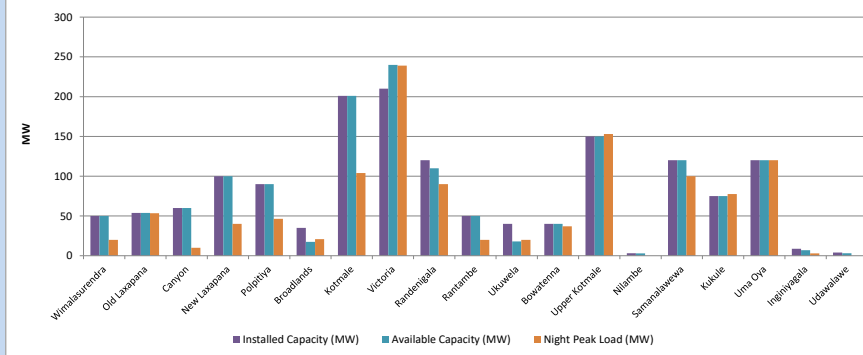


Available Generation is estimated based on plant availability at 6.00am on

November 27, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 26, 2024



Plant availability is recorded at 6.00 am on

November 27, 2024

1.8 Summary of Major Plant performance

November 26, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	207
Old Laxapana	54	54	53	1,063
Canyon	60	60	10	133
New Laxapana	100	100	40	974
Polpitiya	90	90	46	1,430
Broadlands	35	18	21	484
Kotmale	201	201	104	2,360
Victoria	210	240	239	3,677
Randenigala	120	110	90	270
Rantambe	50	50	20	1,022
Ukuwela	40	18	20	228
Bowatenna	40	40	37	861
Upper Kotmale	150	150	153	3,619
Nilambe	3	3	0	67
Samanalawewa	120	120	100	1,068
Kukule	75	75	78	1,342
Uma Oya	120	120	120	2,803
Inginigala	9	7	3	0
Udawalawe	4	3	0	9
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,662
Puttalam Coal III	270	270	270	5,021
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	119	2,005
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	16	0	0
Barge CEB	60	60	0	0
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	3,023	2,212	42,747

Note-

Plant availability is the availability recorded at 6 am on

November 27, 2024

1.9 Contribution to the Night Peak in MW

November 26, 2024

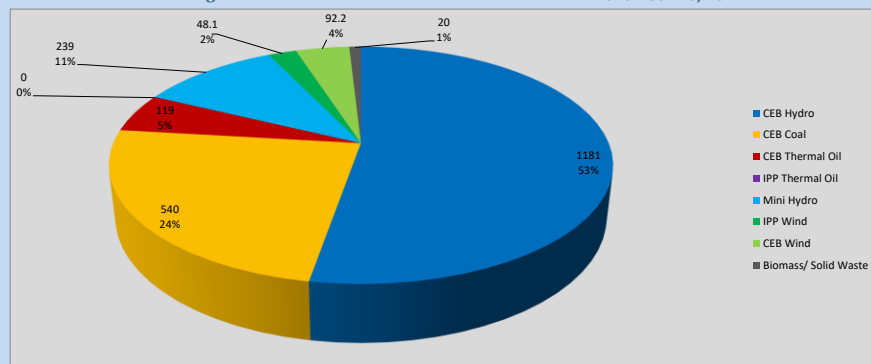


Table 05

CEB Hydro	1181	MW
CEB Coal	540	MW
CEB Thermal Oil	119	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	239	MW
IPP Wind	48.1	MW
CEB Wind	92.2	MW
Biomass/ Solid Waste	20	MW

Recorded Peak Demand Data

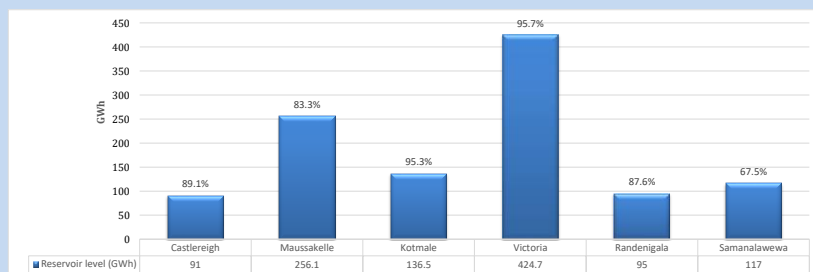
Table 06

Night Peak*	2,239	MW
Day Peak Maximum Demand	2,132	MW
Day Peak Minimum Demand	1,811	MW
Off Peak Minimum Demand	1,220	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 27, 2024



Total Reservoir Level
% of Total capacity

1120.3 GWh
87.6%

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

November 26, 2024

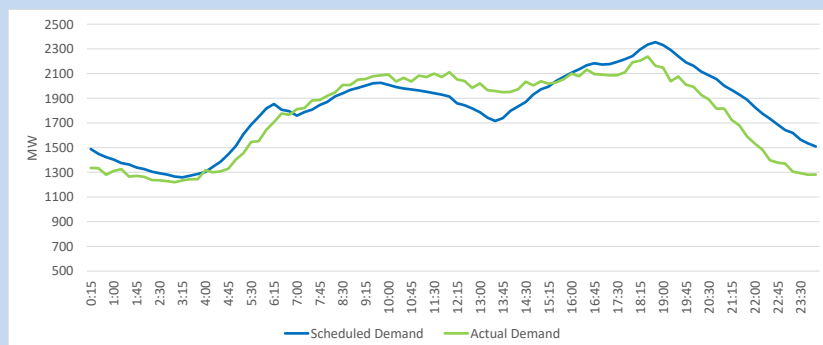
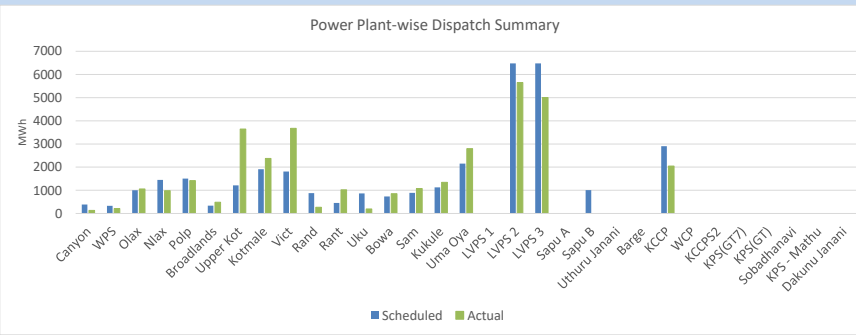


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,036	21,615	4,579
CEB Coal	12,960	10,683	(2,277)
CEB Thermal Oil	3,909	2,005	(1,904)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	9,787	8,442	(1,345)
Total	43,692	42,745	(947)

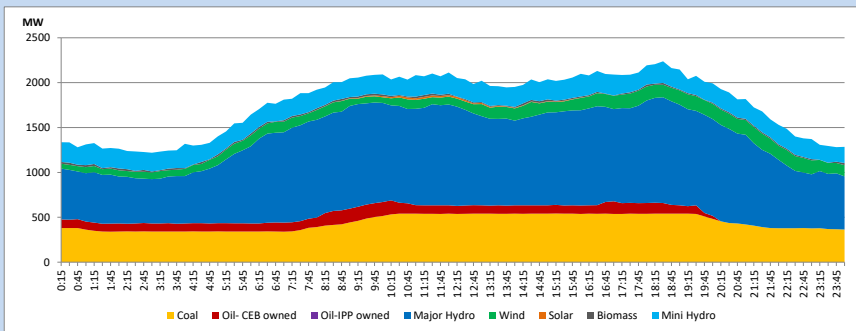
1.12 Power Plant-wise Dispatch Summary

November 26, 2024



1.13 Daily Load Curve

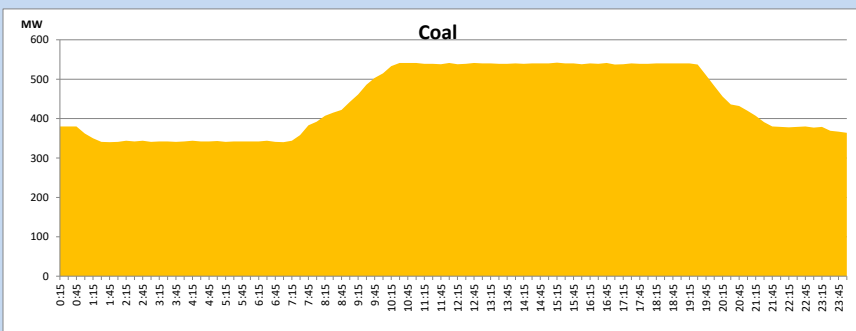
November 26, 2024



Solar and wind data is based on Telemetered Power Stations only

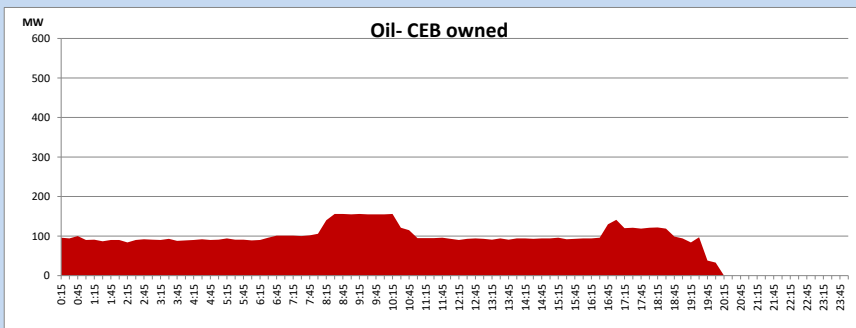
Coal Generation during

November 26, 2024



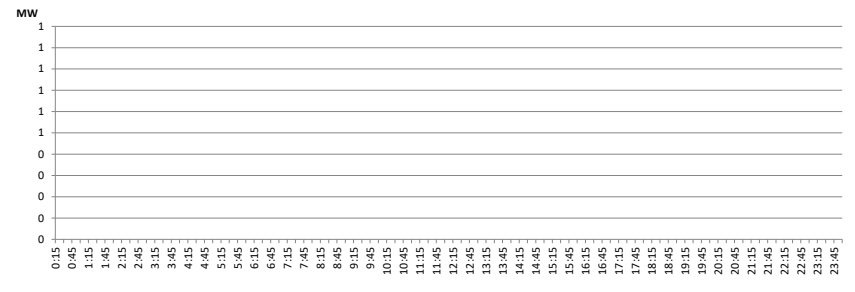
CEB Oil Plant Generation during

November 26, 2024



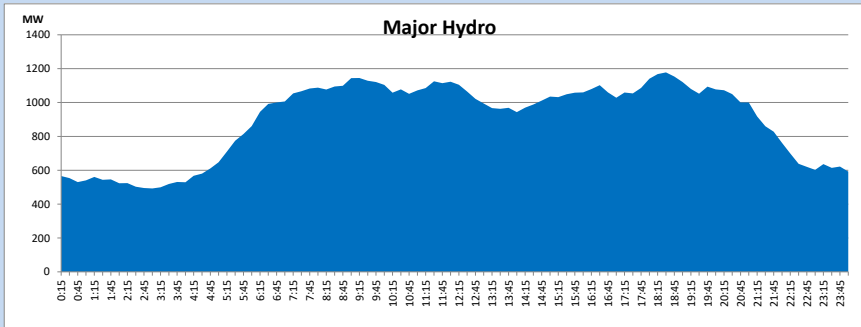
IPP Oil Plant Generation during

November 26, 2024



Major Hydro Generation during

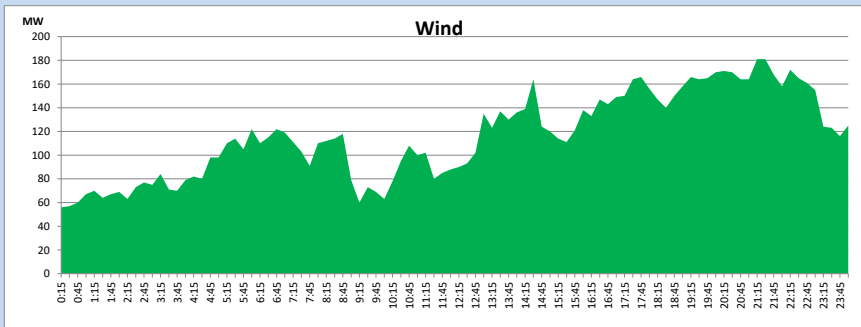
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Wind Generation during

November 26, 2024

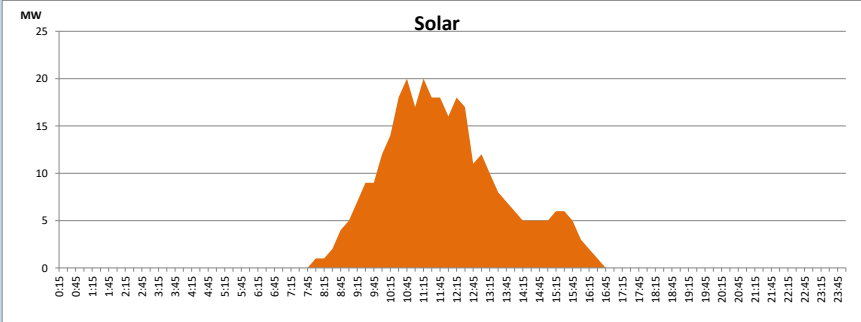
Based on Telemetered Power Stations only



Solar Generation during

November 26, 2024

Based on Telemetered Power Stations only

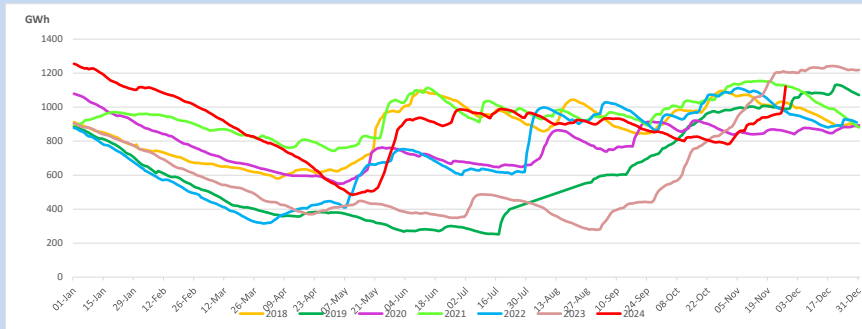


1.14 Major Incidents reported during the day

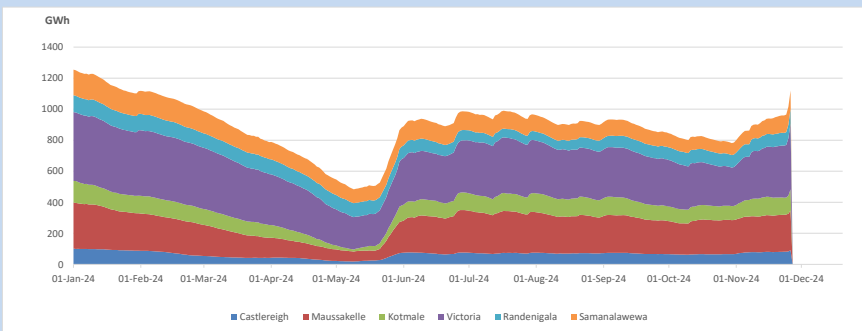
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- 1) Kotmale unit 03 made a forced shutdown at 10:00hrs due to a cooling water leak and resumed generation at 11:43hrs.
- 2) Victoria Unit 03 tripped at 20:57hrs rejecting 80MW from the system due to MIV/GV/CB discrepancy. The unit resumed generation at 23:34hrs.
- 3) Laxapana, Norton, Canyon and Broadlands ponds started spilling at 21:40hrs, 23:15hrs, 23:29hr and 23:42hrs respectively and continues to the present hour.
- 4) Upper Kotmale , Rantambe , Uma Oya Dyaaba and Puhulpola ponds spilling continues to the present hour.
- 5) Bowatenna reservoir spilling continues to the present hour.

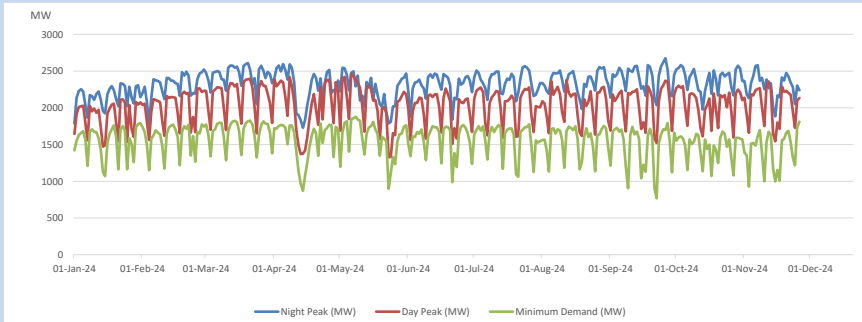
2. Comparison of Total Reservoir Storage Levels with Past Years



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

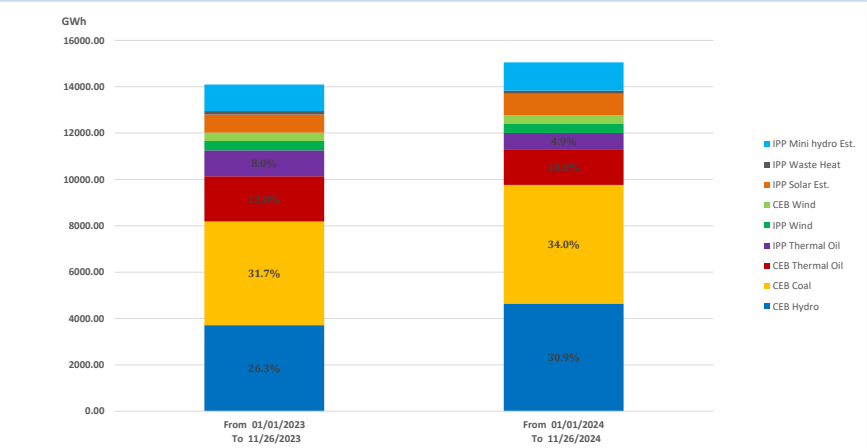


4. Variation of Demand during the current year



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 11/26/2023 14097 GWh
From 01/01/2024 To 11/26/2024 15050 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