Generation and Reservoirs Statistics

November 30, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 30, 2024

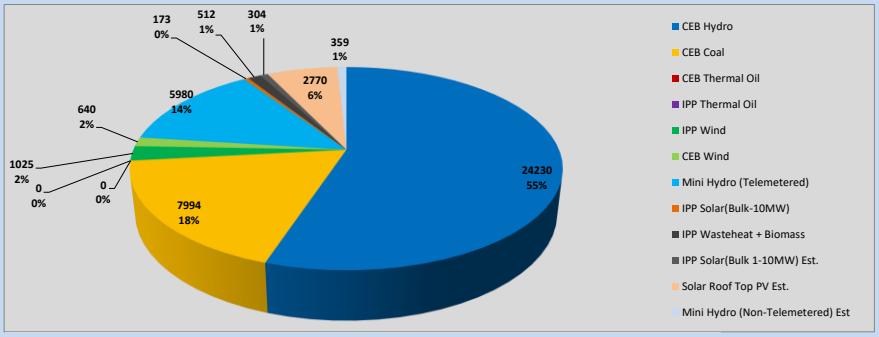


Table 01

	Generation (MWh)
CEB Hydro	24,230
CEB Coal	7,994
CEB Thermal Oil	-
IPP Thermal Oil	-
IPP Wind	1,025
CEB Wind	640
Mini Hydro (Telemetered)	5,980
IPP Solar (Bulk)	173
IPP Waste heat + Biomass	512
Total Generation (Excluding estimated figures)	40,554
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	359
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	**43,987**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

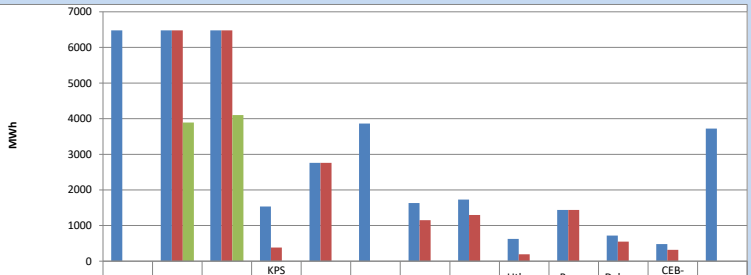
Category	Dispatch (GWh)	
CEB Hydro	499	37.85%
CEB Coal	354	26.83%
CEB Thermal Oil	113	8.58%
IPP Thermal	38	2.86%
IPP Wind	16	1.18%
CEB Wind	19	1.40%
Mini Hydro *	167	12.65%
IPP Solar *	100	7.61%
IPP Waste heat + BMP	14	1.03%
Total	**1,319**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,740	31.13%
CEB Coal	5,151	33.83%
CEB Thermal Oil	1,512	9.93%
IPP Thermal	735	4.83%
IPP Wind	392	2.57%
CEB Wind	366	2.40%
Mini Hydro *	1,236	8.12%
IPP Solar *	952	6.25%
IPP Waste heat	141	0.93%
Total	**15,227**	

*Including estimated contribution from non telemetered plants

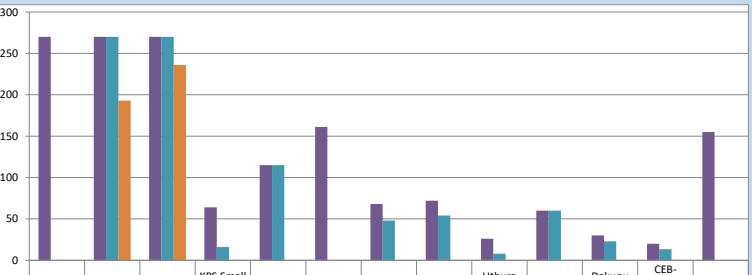
1.2 CEB owned Thermal Plant Dispatch November 30, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1632	1728	624	1440	720	480	3720
Available Generation (MWh)	0	6480	6480	384	2760	0	1152	1296	192	1440	550	319	0
Actual generation (MWh)	0.00	3891	4103	0	0	0	0	0	0	0	0	0	0

Available Generation is estimated based on plant availability at 6.00am on December 1, 2024

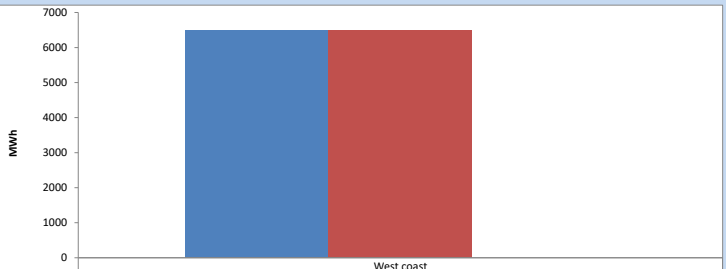
1.3 CEB owned Thermal Plant Loading at the Night Peak November 30, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	68	72	26	60	30	20	155
Available Capacity (MW)	0	270	270	16	115	0	48	54	8	60	23	13	0
Night Peak Load (MW)	0	193	236	0	0	0	0	0	0	0	0	0	0

Plant availability is recorded at 6.00 am on December 1, 2024

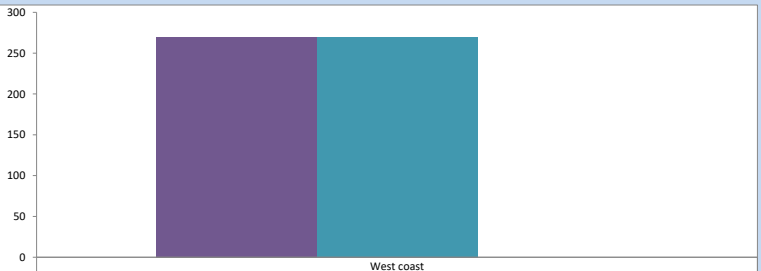
1.4 IPP owned Thermal Plant Dispatch November 30, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	0

Available Generation is estimated based on plant availability at 6.00am on December 1, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

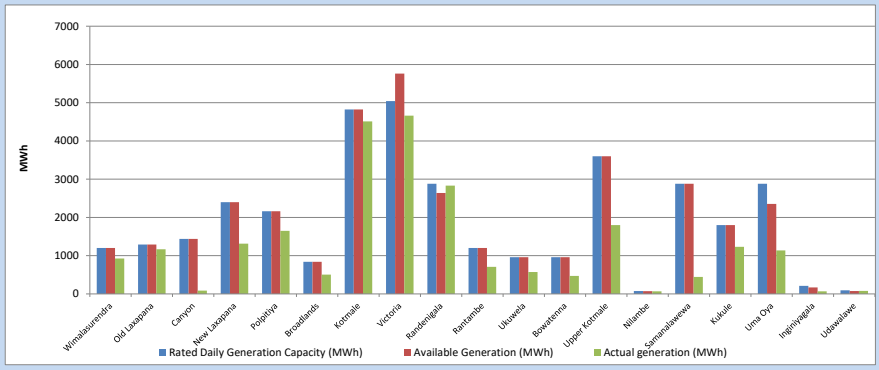


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	0

Plant availability is recorded at 6.00 am on December 1, 2024

1.6 Major Hydro Plant Dispatch

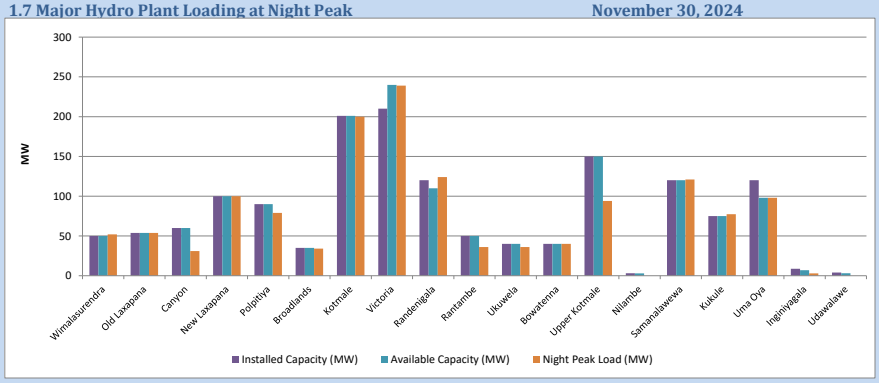
November 30, 2024



Available Generation is estimated based on plant availability at 6.00am on December 1, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 30, 2024



Plant availability is recorded at 6.00 am on December 1, 2024

1.8 Summary of Major Plant performance

November 30, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	926
Old Laxapana	54	54	54	1,166
Canyon	60	60	31	87
New Laxapana	100	100	100	1,314
Polpitiya	90	90	79	1,650
Broadlands	35	35	34	503
Kotmale	201	201	200	4,510
Victoria	210	240	239	4,663
Randenigala	120	110	124	2,832
Rantambe	50	50	36	708
Ukuwela	40	40	36	572
Bowatenna	40	40	40	472
Upper Kotmale	150	150	94	1,800
Nilambe	3	3	0	69
Samanalawewa	120	120	121	444
Kukule	75	75	77	1,232
Uma Oya	120	98	98	1,137
Inginiyagala	9	7	3	68
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	193	3,891
Puttalam Coal III	270	270	236	4,103
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	8	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	212	0	0
Total	3,602	2,673	2,217	40,556

Note-
Plant availability is the availability recorded at 6 am on December 1, 2024

1.9 Contribution to the Night Peak in MW

November 30, 2024

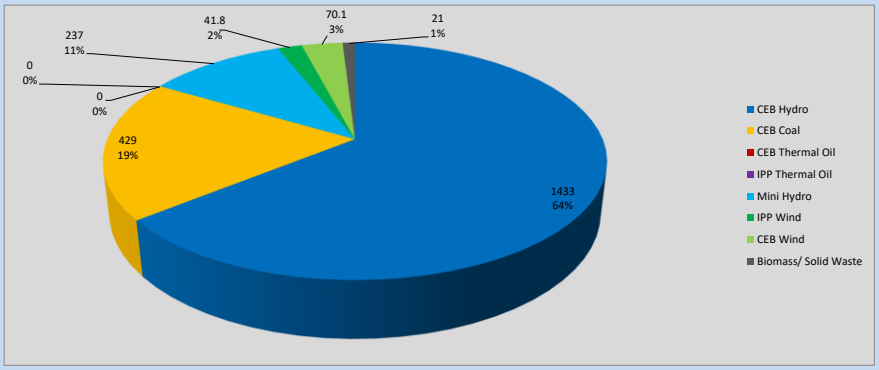


Table 05

CEB Hydro	1433	MW
CEB Coal	429	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	237	MW
IPP Wind	41.8	MW
CEB Wind	70.1	MW
Biomass/ Solid Waste	21	MW

Recorded Peak Demand Data

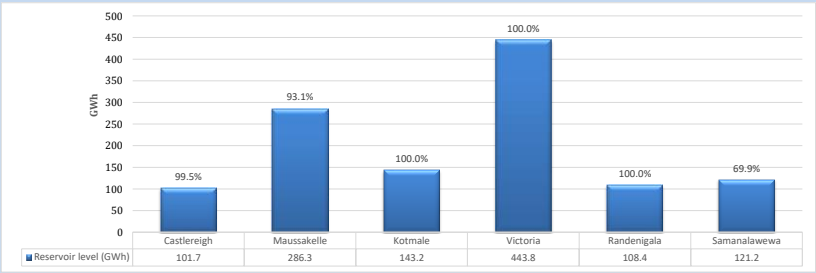
Table 06

Night Peak*	2,232	MW
Day Peak Maximum Demand	1,895	MW
Day Peak Minimum Demand	1,534	MW
Off Peak Minimum Demand	1,230	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 December 1, 2024



Total Reservoir Level 1204.6 GWh
% of Total capacity 94.2%

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

November 30, 2024

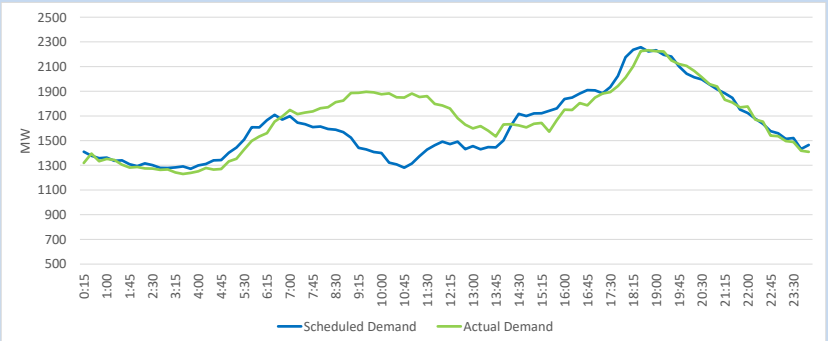
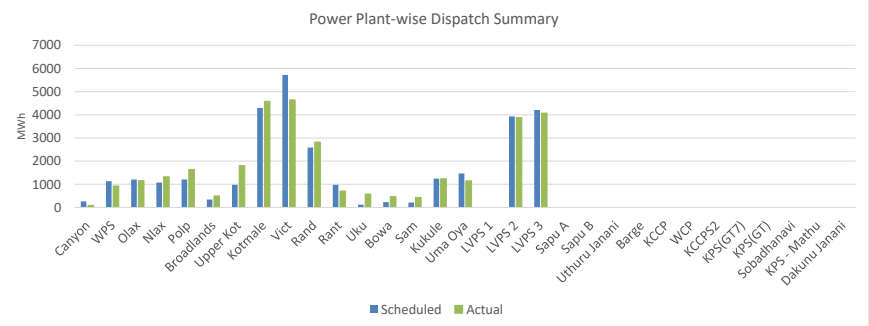


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	23,067	24,230	1,163
CEB Coal	8,134	7,994	(140)
CEB Thermal Oil	-	-	-
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	7,511	8,330	819
Total	**38,712**	**40,554**	**1,842**

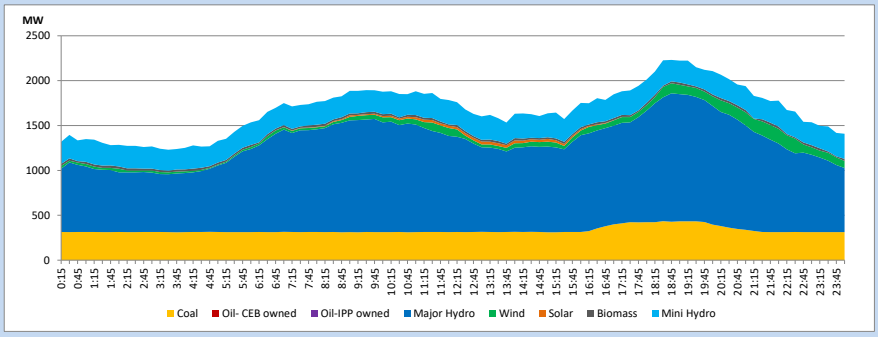
1.12 Power Plant-wise Dispatch Summary

November 30, 2024



1.13 Daily Load Curve

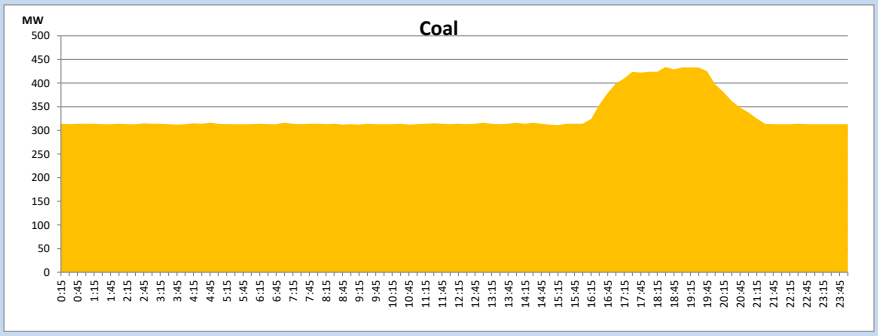
November 30, 2024



Solar and wind data is based on Telemetered Power Stations only

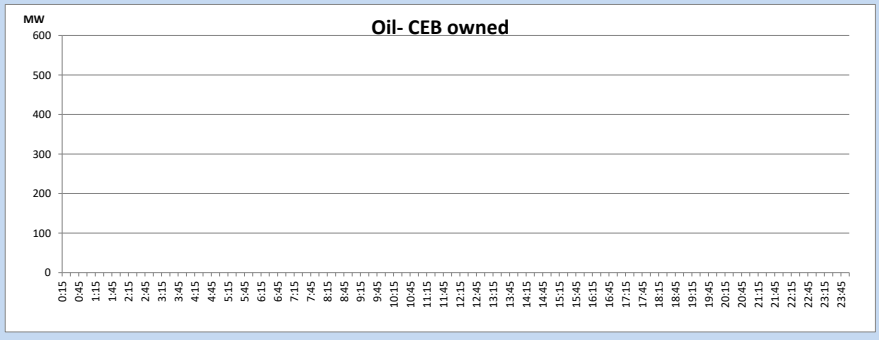
Coal Generation during

November 30, 2024

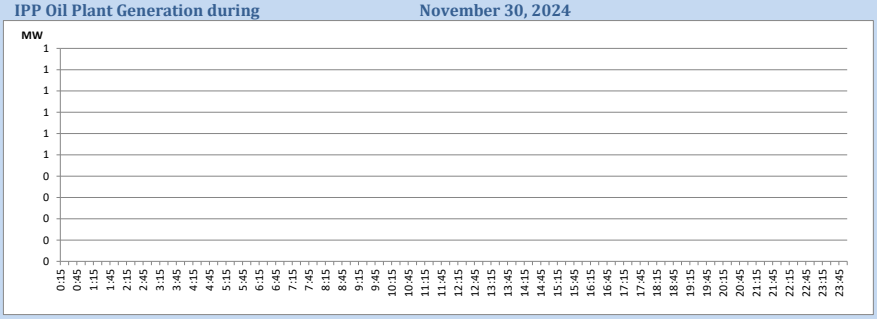


CEB Oil Plant Generation during

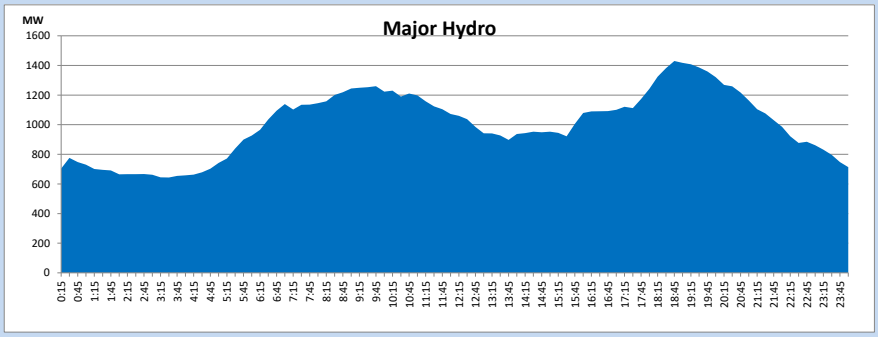
November 30, 2024



IPP Oil Plant Generation during November 30, 2024

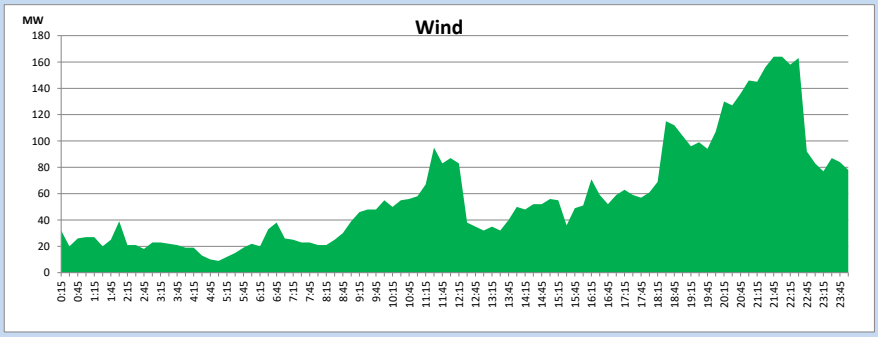


Major Hydro Generation during November 30, 2024



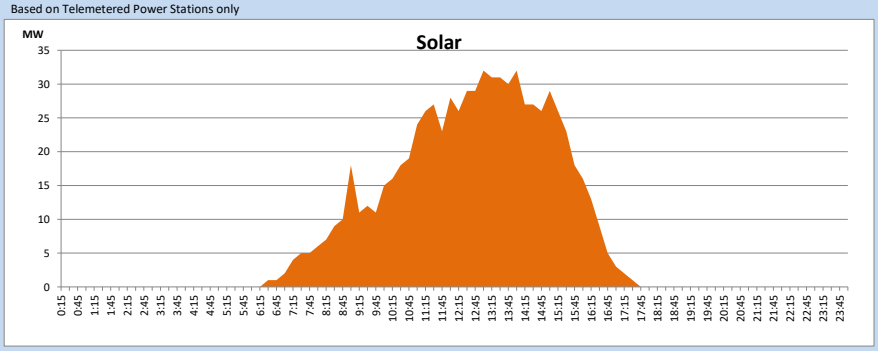
Wind Generation during November 30, 2024

Based on Telemetered Power Stations only



Solar Generation during November 30, 2024

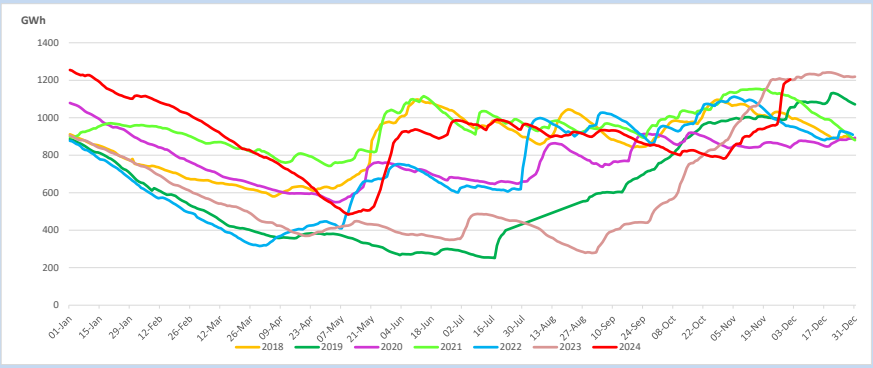
Based on Telemetered Power Stations only



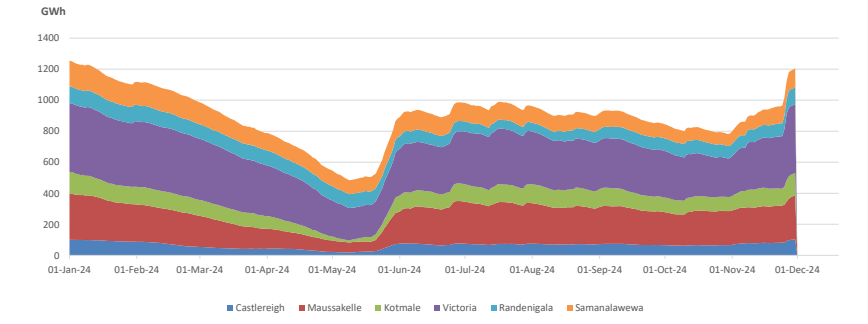
1.14 Major Incidents reported during the day November 30, 2024

1) Kolonnawa - Pannipitiya - S/J'pura 132kV cct 02 tripped from Kolonnawa and S/J'pura ends at 19:33hrs due to the operation of distance protection (The cct had been switched off from Pannipitiya end as per the system requirement). At the same time, Kerawalapitiya - New Kerawalapitiya 220kV cct 01 tripped from both ends due to the operation of differential protection. Both ccts are yet to be normalized.
2) Broadlands Unit 01 was made unavailable at 07:25hrs due to cooling water limit switch malfunction. The unit resumed generation at 12:52hrs. Broadlands Unit 02 was made unavailable at 12:55hrs due to cooling water inlet cleaning work. The unit was made available at 13:32hrs.
3) Kotmale reservoir spilling stopped at 9:05hrs, and spilling started again at 10:50hrs continuing intermittently throughout day. Kotmale reservoir spiiling stopped at 23:30hrs, started again at 04:30hrs (01/12/2024), and continues to the present hour.
4) Victoria and Randenigala reservoirs' spilling continues to the present hour.
5) Uma Oya Dyraaba pond spilling stopped at 6:08hrs, started again at 12:02hrs and continues to the present hour. Puhulpola pond spilling stopped at 8:10hrs, and started again at 19:31hrs, and stopped at 23:59hrs.
6) Broadlands pond spilling started at 7:30hrs and stopped at 17:09hrs. Upper Kotmale, Rantambe, and Norton ponds' spilling continues to the present hour.

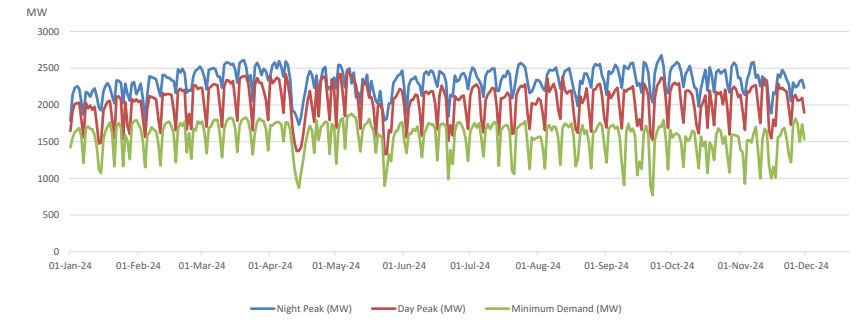
2. Comparison of Total Reservoir Storage Levels with Past Years



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

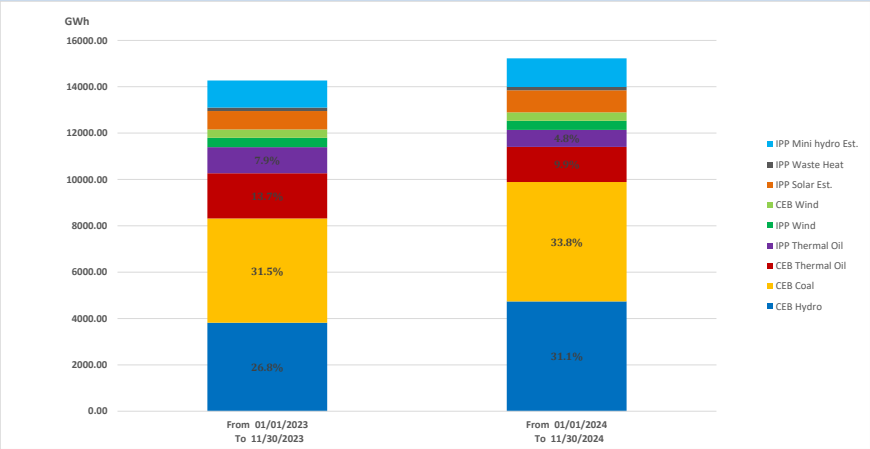


4. Variation of Demand during the current year



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 11/30/2023 **14268 GWh**

From 01/01/2024 To 11/30/2024 **15227 GWh**

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Unserved 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 Capcity

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) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities