Generation and Reservoirs Statistics

December 1, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 1, 2024

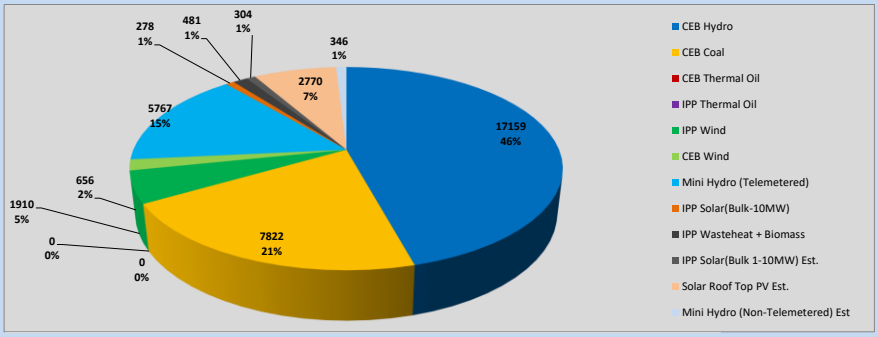


Table 01

	Generation (MWh)
CEB Hydro	17,159
CEB Coal	7,822
CEB Thermal Oil	-
IPP Thermal Oil	-
IPP Wind	1,910
CEB Wind	656
Mini Hydro (Telemetered)	5,767
IPP Solar (Bulk)	278
IPP Waste heat + Biomass	481
Total Generation (Excluding estimated figures)	34,073
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	346
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	**37,493**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

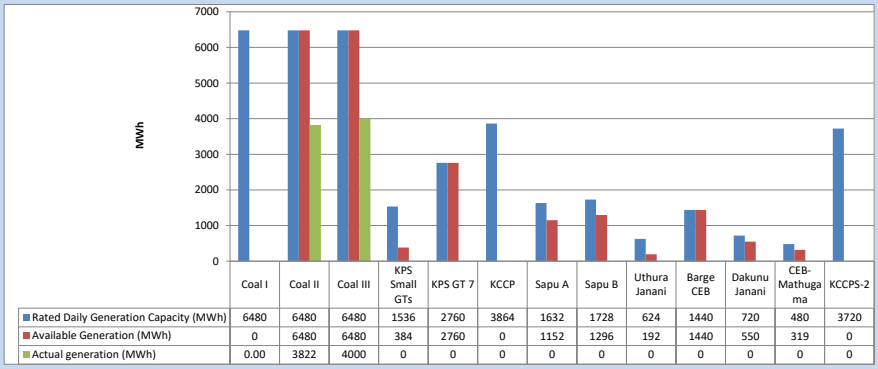
Category	Dispatch (GWh)	
CEB Hydro	17	45.76%
CEB Coal	8	20.85%
CEB Thermal Oil	0	0.00%
IPP Thermal	0	0.00%
IPP Wind	2	5.09%
CEB Wind	1	1.76%
Mini Hydro *	6	16.32%
IPP Solar *	3	8.93%
IPP Waste heat + BMP	0	1.28%
Total	**38**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,755	31.09%
CEB Coal	5,158	33.72%
CEB Thermal Oil	1,512	9.89%
IPP Thermal	735	4.81%
IPP Wind	385	2.52%
CEB Wind	366	2.40%
Mini Hydro *	1,261	8.24%
IPP Solar *	975	6.38%
IPP Waste heat	146	0.96%
Total	**15,295**	

*Including estimated contribution from non telemetered plants

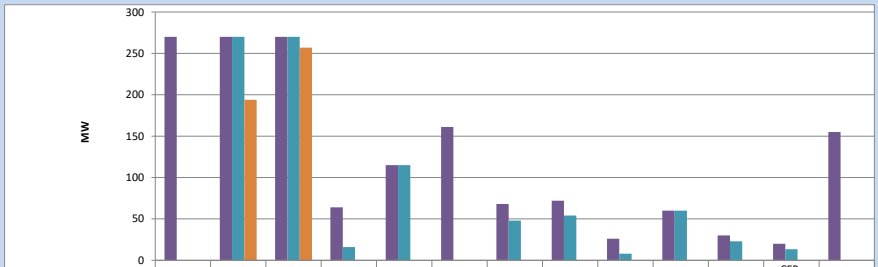
1.2 CEB owned Thermal Plant Dispatch December 1, 2024



	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	3822	4000	0	0	0	0	0	0	0	0	0	0

Available Generation is estimated based on plant availability at 6.00am on December 2, 2024

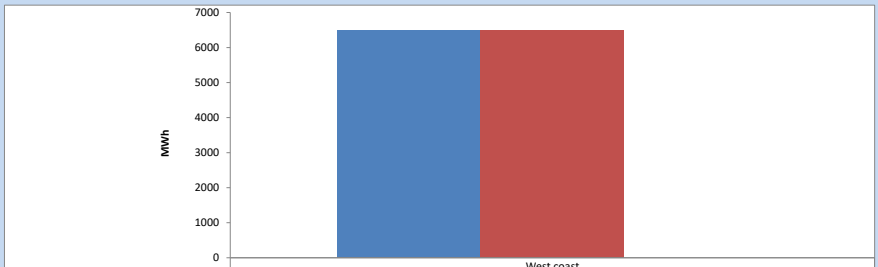
1.3 CEB owned Thermal Plant Loading at the Night Peak December 1, 2024



	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	194	257	0	0	0	0	0	0	0	0	0	0

Plant availability is recorded at 6.00 am on December 2, 2024

1.4 IPP owned Thermal Plant Dispatch December 1, 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 2, 2024

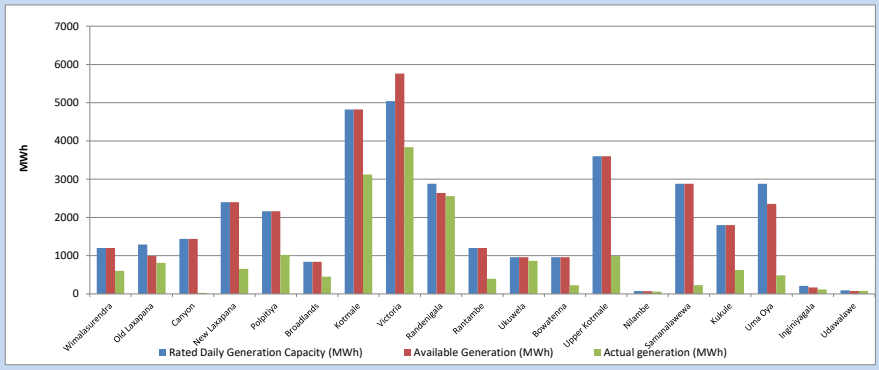
1.5 IPP owned Thermal Plant Loading at the Night Peak

	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 2, 2024

1.6 Major Hydro Plant Dispatch

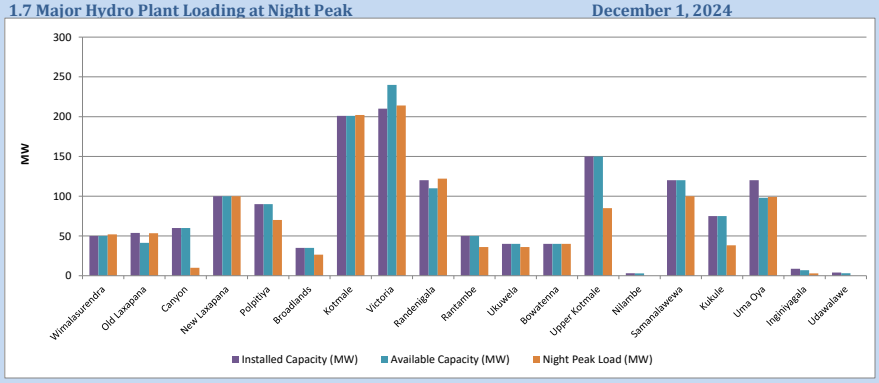
December 1, 2024



Available Generation is estimated based on plant availability at 6.00am on December 2, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 1, 2024



Plant availability is recorded at 6.00 am on December 2, 2024

1.8 Summary of Major Plant performance

December 1, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	601
Old Laxapana	54	41	54	815
Canyon	60	60	10	28
New Laxapana	100	100	100	654
Polpitiya	90	90	70	1,020
Broadlands	35	35	27	452
Kotmale	201	201	202	3,120
Victoria	210	240	214	3,838
Randenigala	120	110	122	2,557
Rantambe	50	50	36	394
Ukuwela	40	40	36	865
Bowatenna	40	40	40	226
Upper Kotmale	150	150	85	991
Nilambe	3	3	0	60
Samanalawewa	120	120	100	231
Kukule	75	75	38	624
Uma Oya	120	98	99	484
Inginiyagala	9	7	3	118
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	194	3,822
Puttalam Coal III	270	270	257	4,000
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	2,661	2,140	34,071

Note-
Plant availability is the availability recorded at 6 am on December 2, 2024

1.9 Contribution to the Night Peak in MW

December 1, 2024

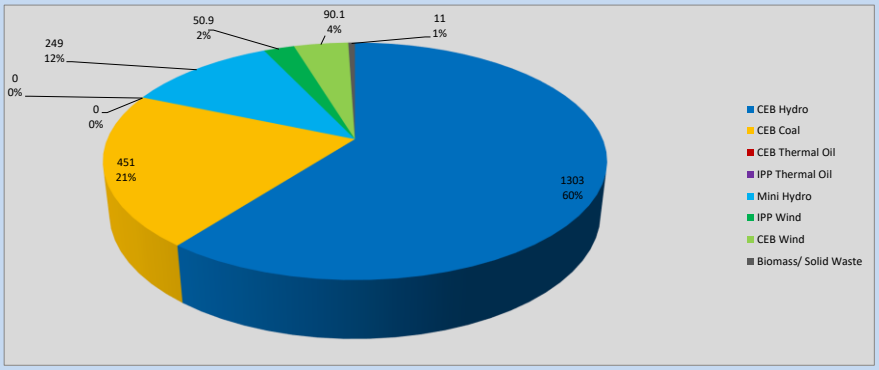


Table 05

CEB Hydro	1303	MW
CEB Coal	451	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	249	MW
IPP Wind	50.9	MW
CEB Wind	90.1	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

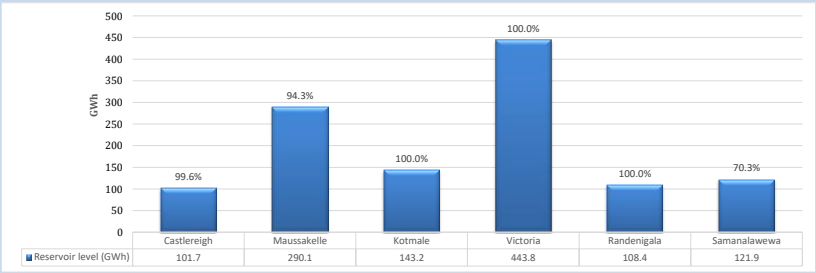
Table 06

Night Peak*	2,155	MW
Day Peak Maximum Demand	1,578	MW
Day Peak Minimum Demand	998	MW
Off Peak Minimum Demand	1,164	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 2, 2024



Total Reservoir Level 1209.1 GWh
% of Total capacity 94.6%

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

December 1, 2024

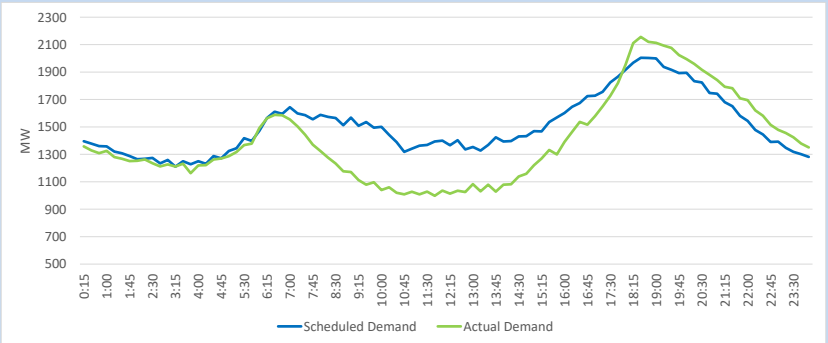
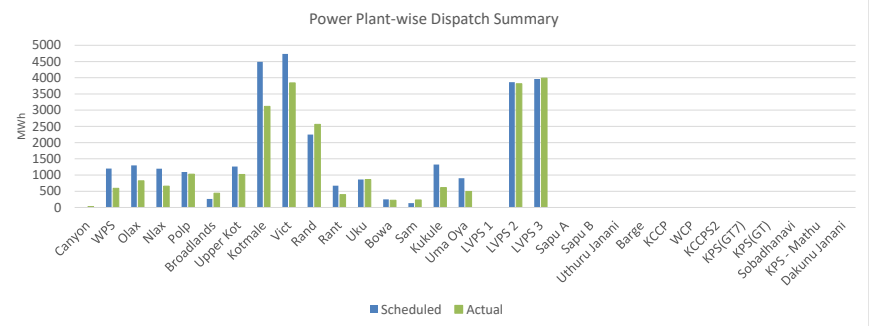


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	21,920	17,159	(4,761)
CEB Coal	7,825	7,822	(3)
CEB Thermal Oil	-	-	-
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	6,402	9,092	2,690
Total	**36,148**	**34,073**	**(2,075)**

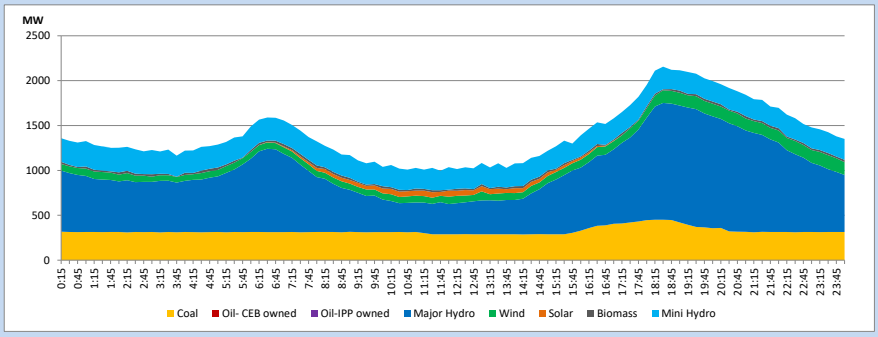
1.12 Power Plant-wise Dispatch Summary

December 1, 2024



1.13 Daily Load Curve

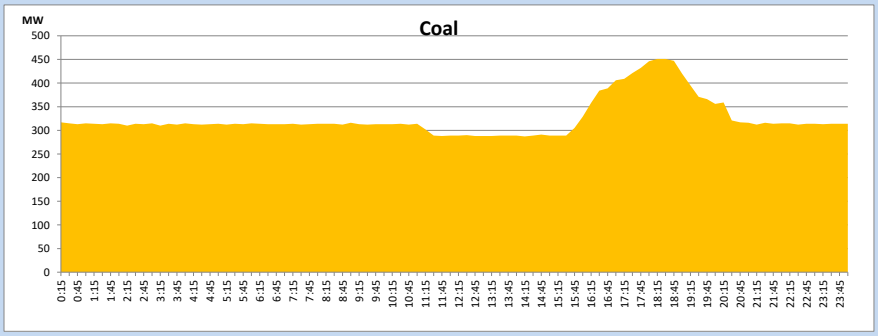
December 1, 2024



Solar and wind data is based on Telemetered Power Stations only

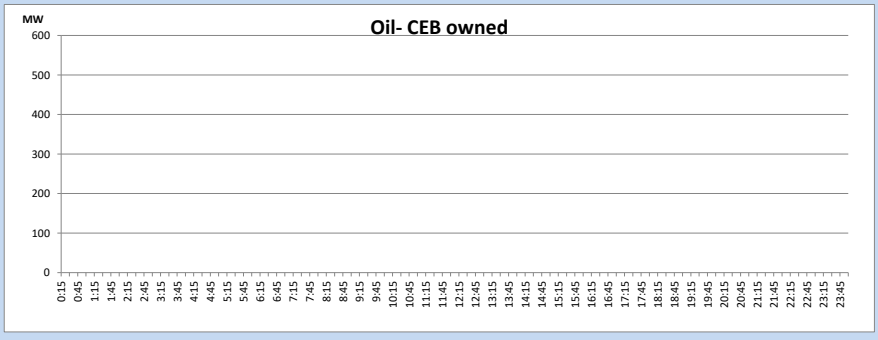
Coal Generation during

December 1, 2024

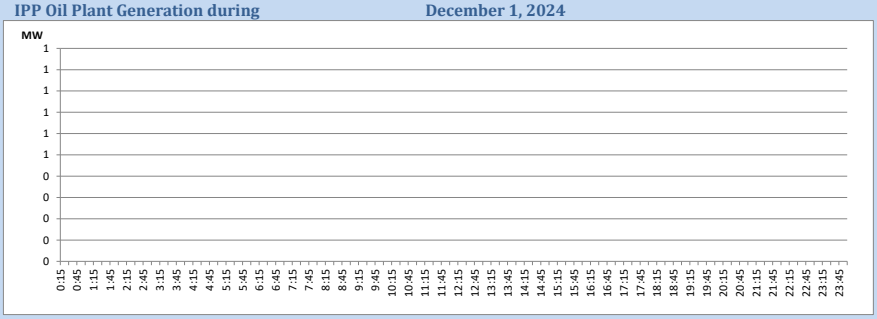


CEB Oil Plant Generation during

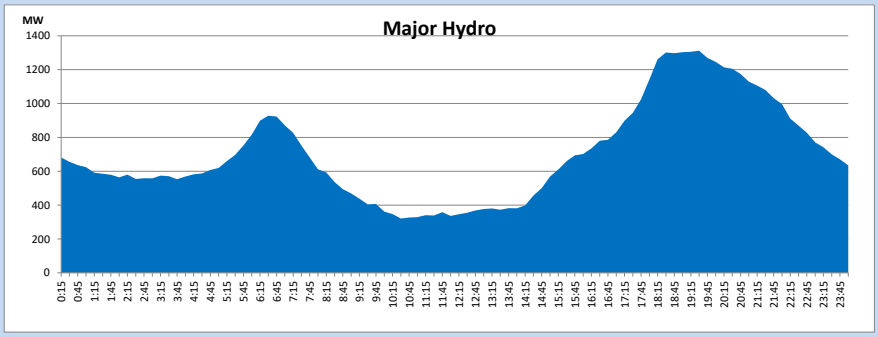
December 1, 2024



IPP Oil Plant Generation during December 1, 2024

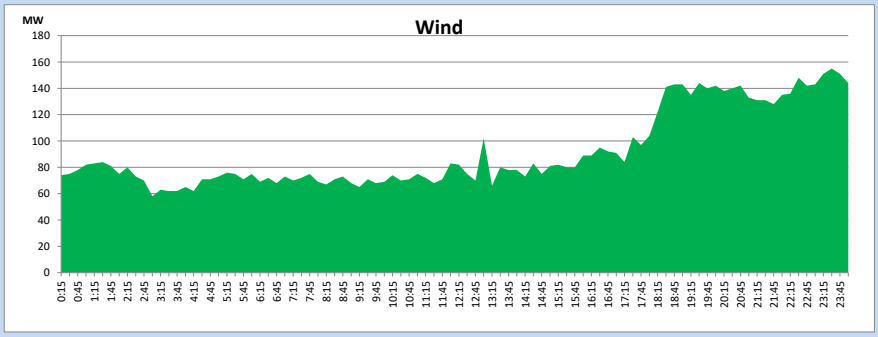


Major Hydro Generation during December 1, 2024



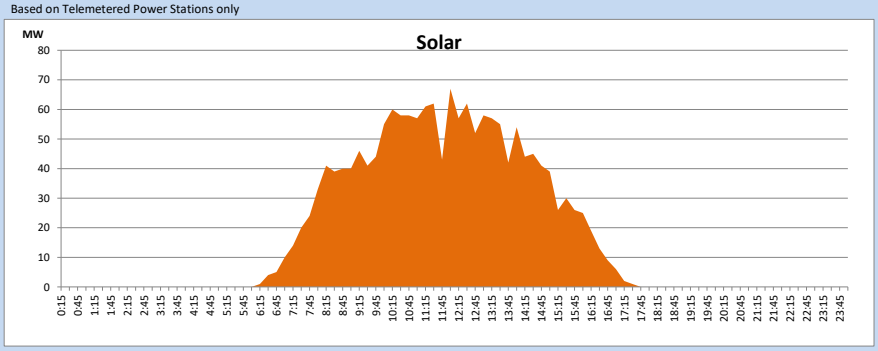
Wind Generation during December 1, 2024

Based on Telemetered Power Stations only



Solar Generation during December 1, 2024

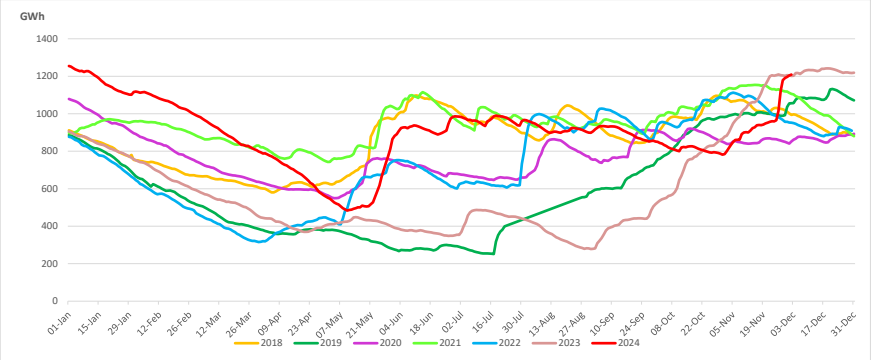
Based on Telemetered Power Stations only



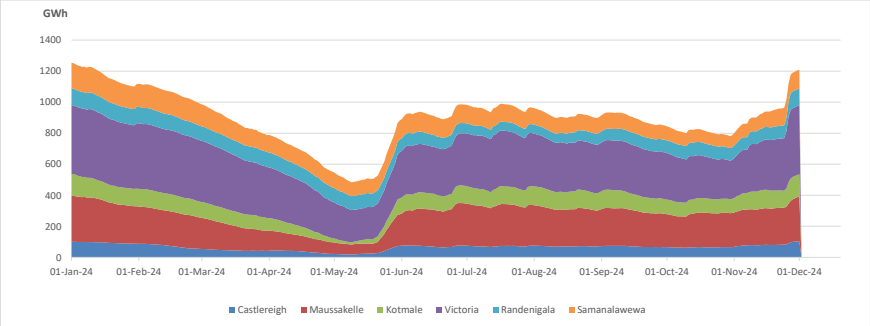
1.14 Major Incidents reported during the day December 1, 2024

1) Kolonnawa - Pannipitiya - Sri J'Pura 132kV cct 02, which was tripped on 01.12.2024, energized from Pannipitiya end up to the Tower No. 23, between Kolonnawa and Sri J'Pura, at 17:27hrs. Kolonnawa end to Tower No. 23 portion of the same cct is yet to be energized.
2) Bowatenna spilling started at 1:00hrs and stopped at 16:00hrs, started again at 23:00hrs and continues to the present hour.
3) Rantabe spilling stopped at 7:55hrs and start again at 10:34hrs and continues to the present hour.
4) Randenigala spilling stopped at 8:00hrs and start again at 15:26hrs. Randenigala spilling stopped at 20:00hrs.
5) Kukule spilling started at 8:00hrs and stopped at 17:00hrs and start again at 0:30hrs(02.12.2024) and continues to the present hour.
6) Kotmale reservoir spilling stopped at 8:08hrs, started at 12:00hrs, stopped at 15:30hrs, started at 3:00hrs(02.12.2024) and stopped at 5:34hrs(02.12.2024).
7) Uma Oya Dyraaba pond spilling stopped at 18:00hrs, started again at 22:31hrs and continues to the present hour. Puhulpola pond spilling started at 6:07hrs and stopped at 18:45hrs and start again at 4:45hrs(02.12.2024) and continues to the present hour.
8) Norton pond spilling stopped at 0:55hrs (02.12.2024) and started again at 4:20hrs(02.12.2024) and continues to the present hour.
9) Victoria and Upper Kotmale spilling continues to the present hour.

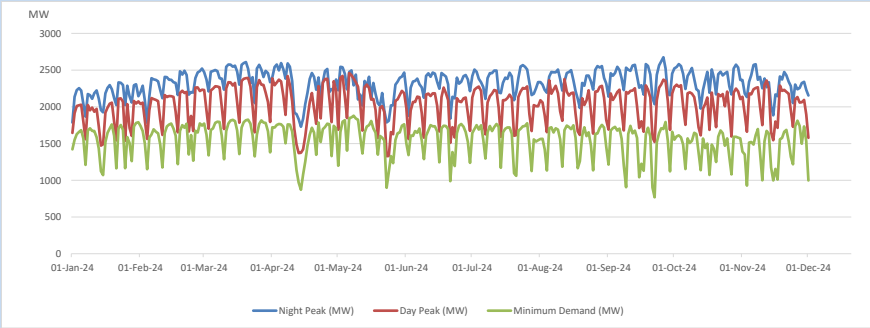
2. Comparison of Total Reservoir Storage Levels with Past Years



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

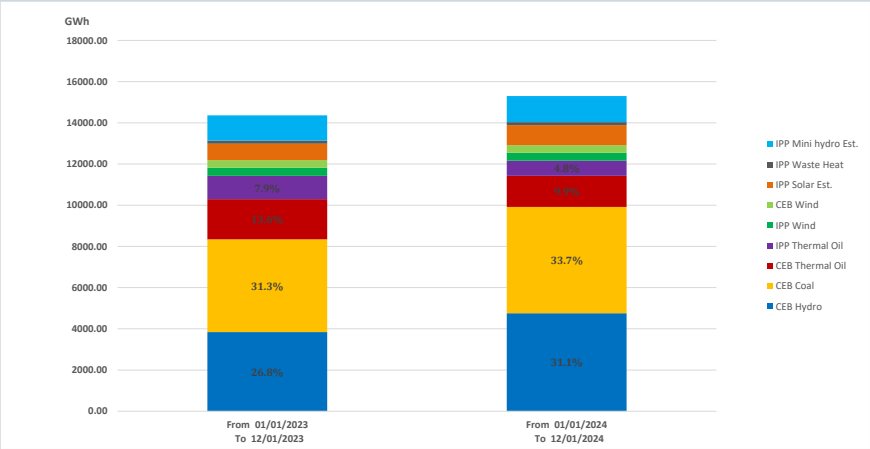


4. Variation of Demand during the current year



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 12/01/2023 **14360 GWh**

From 01/01/2024 To 12/01/2024 **15295 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