Generation and Reservoirs Statistics

December 2, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 2, 2024

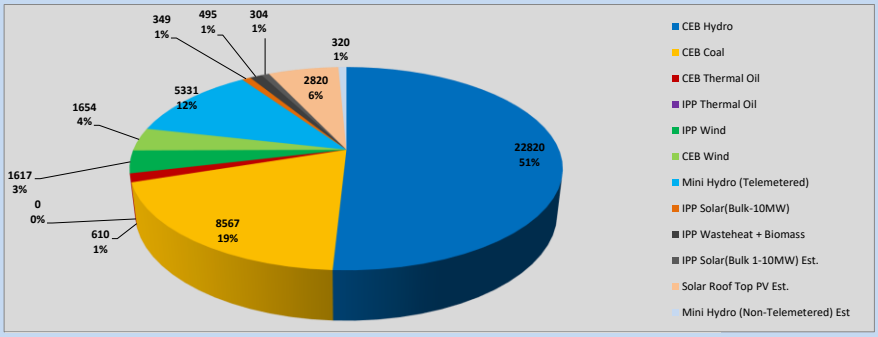


Table 01

	Generation (MWh)
CEB Hydro	22,820
CEB Coal	8,567
CEB Thermal Oil	610
IPP Thermal Oil	-
IPP Wind	1,617
CEB Wind	1,654
Mini Hydro (Telemetered)	5,331
IPP Solar (Bulk)	349
IPP Waste heat + Biomass	495
Total Generation (Excluding estimated figures)	41,443
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	320
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	**44,887**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

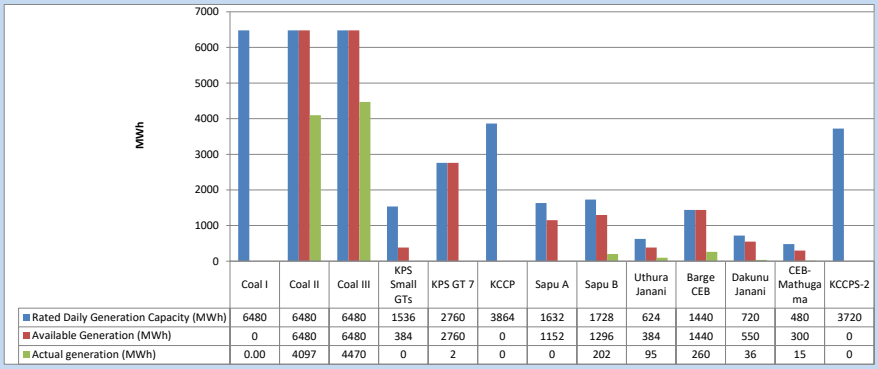
Category	Dispatch (GWh)	
CEB Hydro	40	48.52%
CEB Coal	16	19.90%
CEB Thermal Oil	1	0.74%
IPP Thermal	0	0.00%
IPP Wind	4	4.29%
CEB Wind	2	2.80%
Mini Hydro *	12	14.29%
IPP Solar *	7	8.28%
IPP Waste heat + BMP	1	1.18%
Total	**82**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,778	31.15%
CEB Coal	5,167	33.68%
CEB Thermal Oil	1,513	9.86%
IPP Thermal	735	4.79%
IPP Wind	387	2.52%
CEB Wind	368	2.40%
Mini Hydro *	1,266	8.26%
IPP Solar *	979	6.38%
IPP Waste heat	147	0.96%
Total	**15,340**	

*Including estimated contribution from non telemetered plants

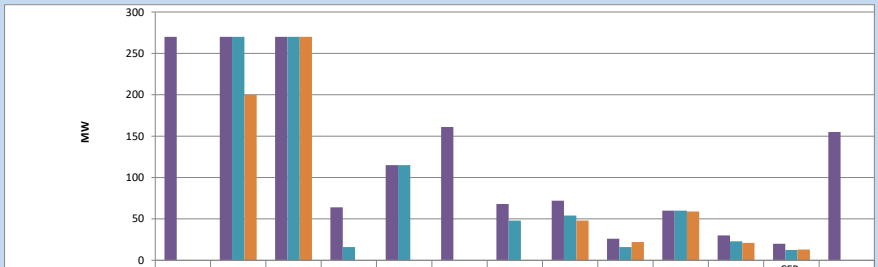
1.2 CEB owned Thermal Plant Dispatch December 2, 2024



	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	384	1440	550	300	0
Actual generation (MWh)	0.00	4097	4470	0	2	0	0	202	95	260	36	15	0

Available Generation is estimated based on plant availability at 6.00am on December 3, 2024

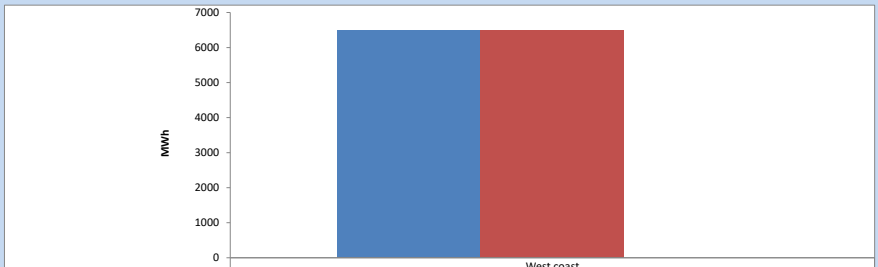
1.3 CEB owned Thermal Plant Loading at the Night Peak December 2, 2024



	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	16	60	23	13	0
Night Peak Load (MW)	0	200	270	0	0	0	0	48	22	59	21	13	0

Plant availability is recorded at 6.00 am on December 3, 2024

1.4 IPP owned Thermal Plant Dispatch December 2, 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 3, 2024

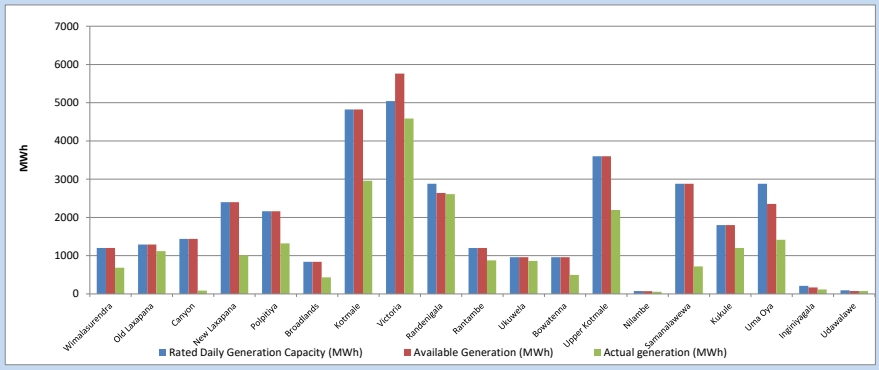
1.5 IPP owned Thermal Plant Loading at the Night Peak

	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 3, 2024

1.6 Major Hydro Plant Dispatch

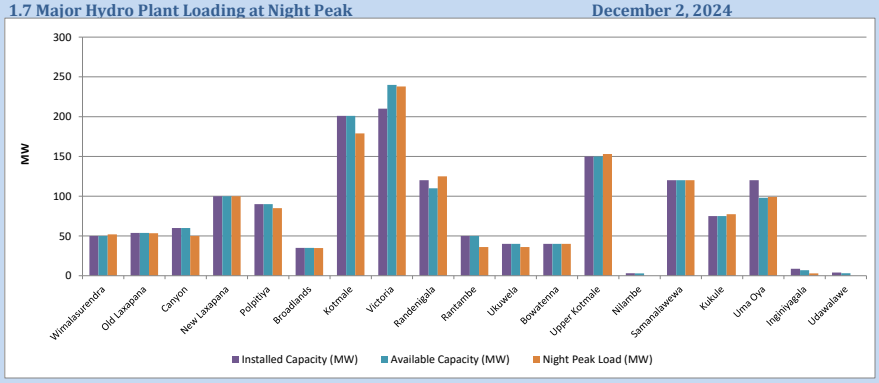
December 2, 2024



Available Generation is estimated based on plant availability at 6.00am on December 3, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 2, 2024



Plant availability is recorded at 6.00 am on December 3, 2024

1.8 Summary of Major Plant performance

December 2, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	685
Old Laxapana	54	54	54	1,119
Canyon	60	60	50	86
New Laxapana	100	100	100	1,009
Polpitiya	90	90	85	1,320
Broadlands	35	35	35	433
Kotmale	201	201	179	2,960
Victoria	210	240	238	4,585
Randenigala	120	110	125	2,611
Rantambe	50	50	36	877
Ukuwela	40	40	36	862
Bowatenna	40	40	40	499
Upper Kotmale	150	150	153	2,194
Nilambe	3	3	0	56
Samanalawewa	120	120	120	720
Kukule	75	75	77	1,200
Uma Oya	120	98	99	1,415
Inginiyagala	9	7	3	115
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	200	4,097
Puttalam Coal III	270	270	270	4,470
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	2
KCCP	161	0	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	48	202
Uthura Janani	26	16	22	95
Barge CEB	60	60	59	260
CEB-Hambantota	30	23	21	36
CEB-Mathugama	20	13	13	15
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,680	2,469	41,444

Note-
Plant availability is the availability recorded at 6 am on December 3, 2024

1.9 Contribution to the Night Peak in MW

December 2, 2024

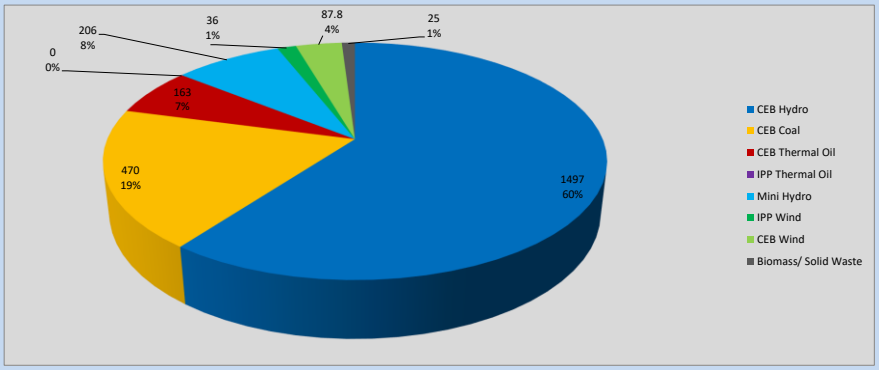


Table 05

CEB Hydro	1497	MW
CEB Coal	470	MW
CEB Thermal Oil	163	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	206	MW
IPP Wind	36	MW
CEB Wind	87.8	MW
Biomass/ Solid Waste	25	MW

Recorded Peak Demand Data

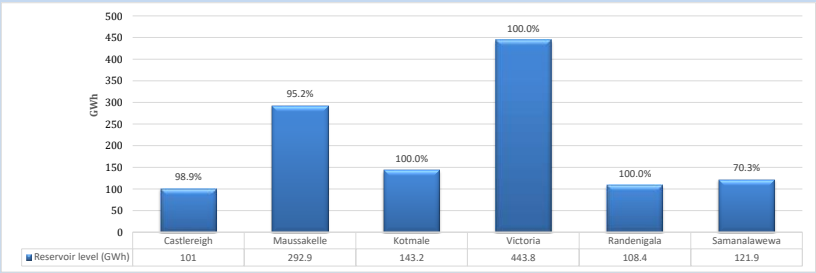
Table 06

Night Peak*	2,485	MW
Day Peak Maximum Demand	2,175	MW
Day Peak Minimum Demand	1,509	MW
Off Peak Minimum Demand	1,182	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 3, 2024



Total Reservoir Level 1211.2 GWh
% of Total capacity 94.7%

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

December 2, 2024

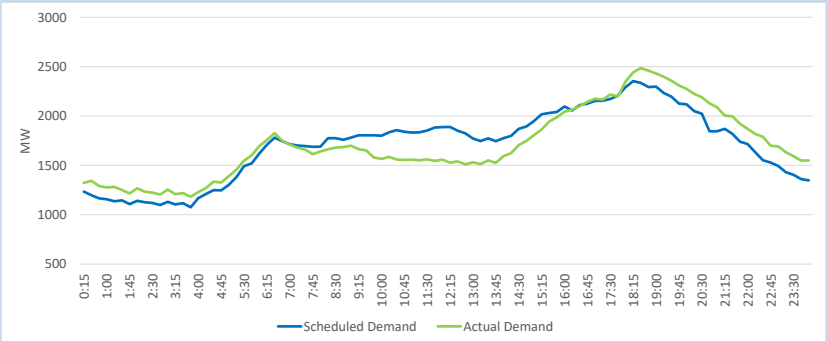
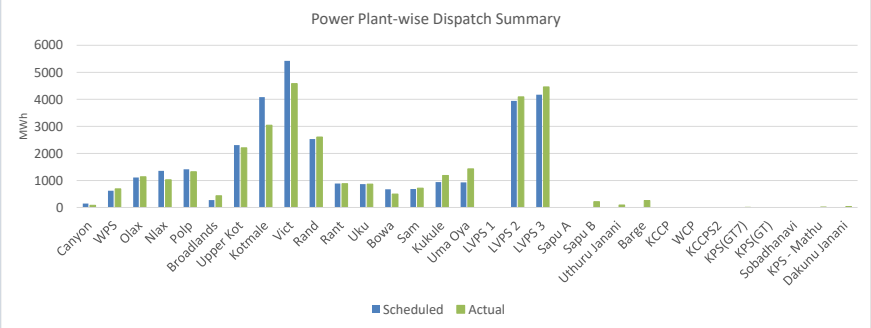


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	24,219	22,820	(1,399)
CEB Coal	8,115	8,567	452
CEB Thermal Oil	8	610	603
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	8,660	9,446	786
Total	**41,002**	**41,443**	**441**

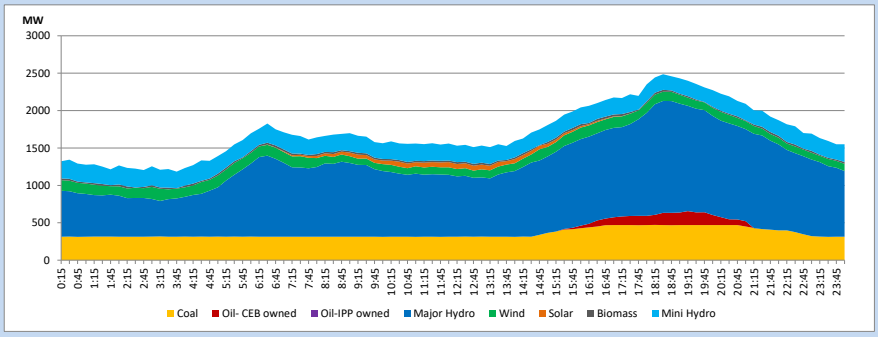
1.12 Power Plant-wise Dispatch Summary

December 2, 2024



1.13 Daily Load Curve

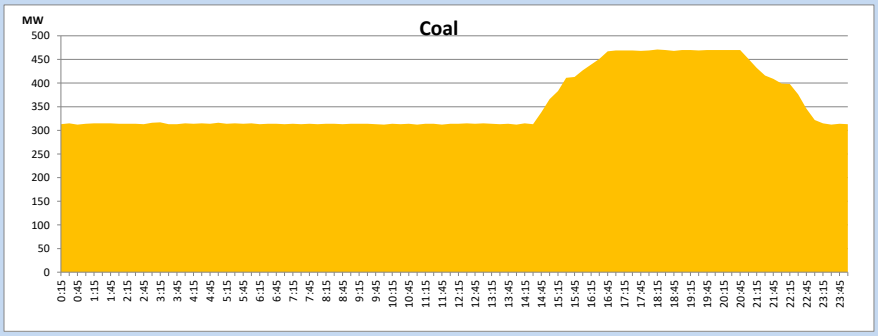
December 2, 2024



Solar and wind data is based on Telemetered Power Stations only

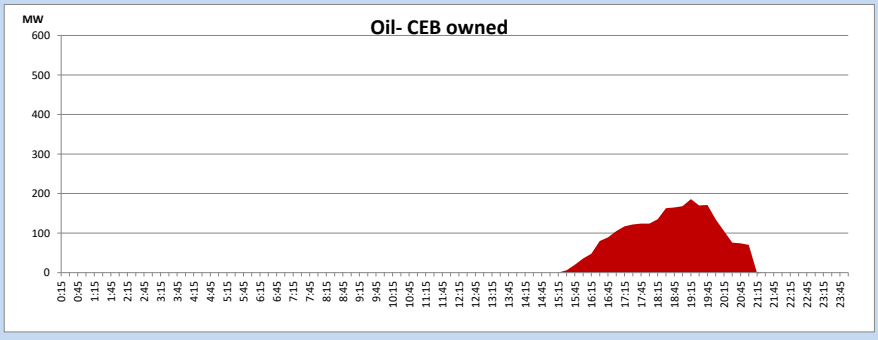
Coal Generation during

December 2, 2024

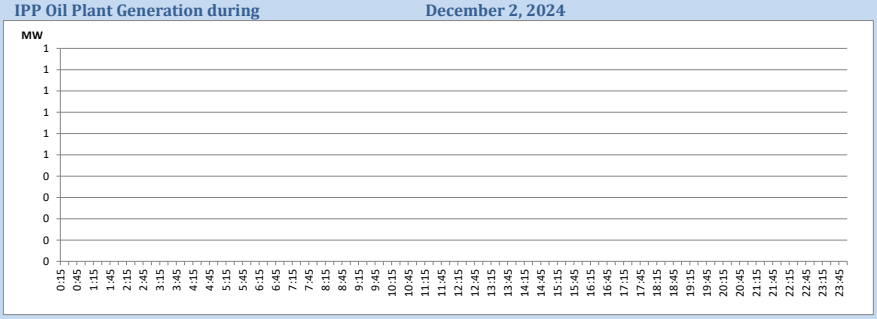


CEB Oil Plant Generation during

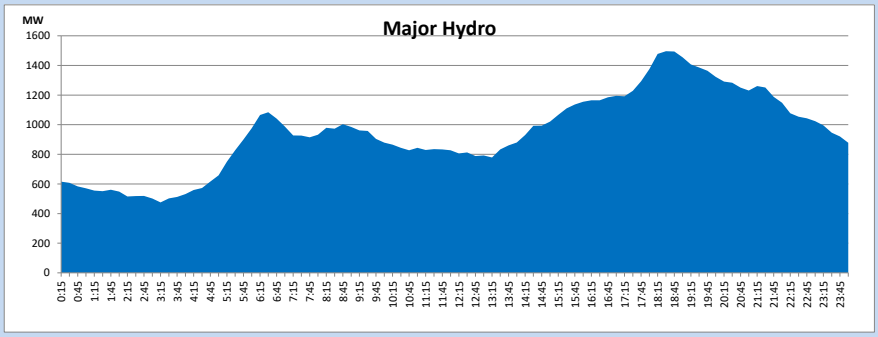
December 2, 2024



IPP Oil Plant Generation during **December 2, 2024**

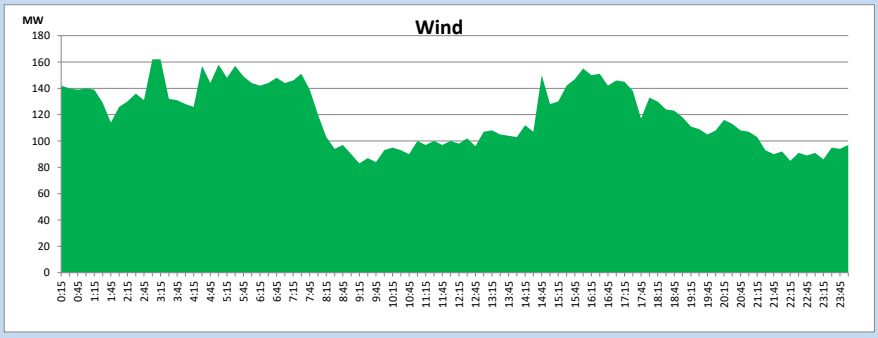


Major Hydro Generation during **December 2, 2024**



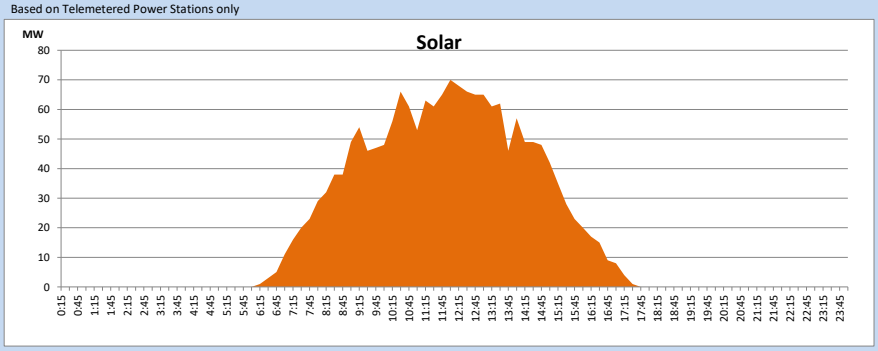
Wind Generation during **December 2, 2024**

Based on Telemetered Power Stations only



Solar Generation during **December 2, 2024**

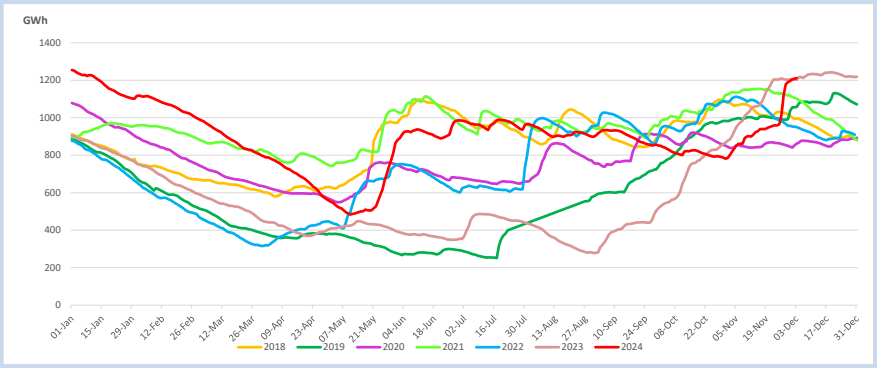
Based on Telemetered Power Stations only



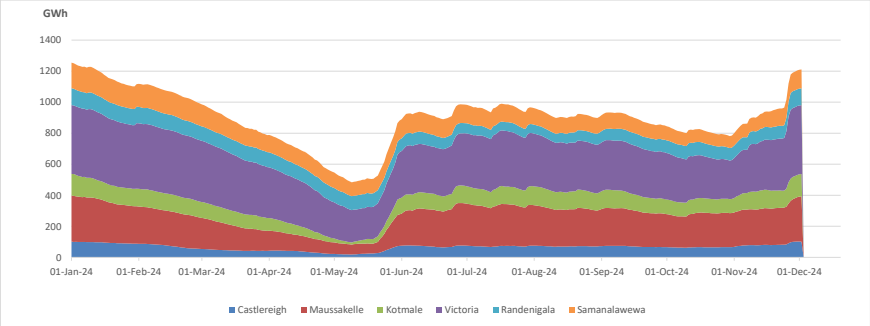
1.14 Major Incidents reported during the day **December 2, 2024**

1) Bowathenna reservoir spilling stopped at 08:30hrs.
2) Kukule pond spilling stopped at 08:45hrs.
3) Uma Oya Puhulpola pond spilling stopped at 09:48hrs. Uma Oya Dyraaba pond spilling started at 07:55hrs, and stopped at 15:05hrs.
4) Upper Kotmale pond spilling stopped at 18:26hrs.
5) Kotmale reservoir spilling started at 16:30hrs, and stopped at 18:30hrs.
6) Randenigala reservoir spilling stopped at 08:51hrs, started again at 17:22hrs, and stopped at 20:08hrs.
7) Rantambe pond spilling stopped at 10:45hrs, started again at 17:35hrs, and stopped at 21:34hrs.
8) Norton pond spilling stopped at 13:44hrs, started again at 19:20hrs, and continues to the present hour.

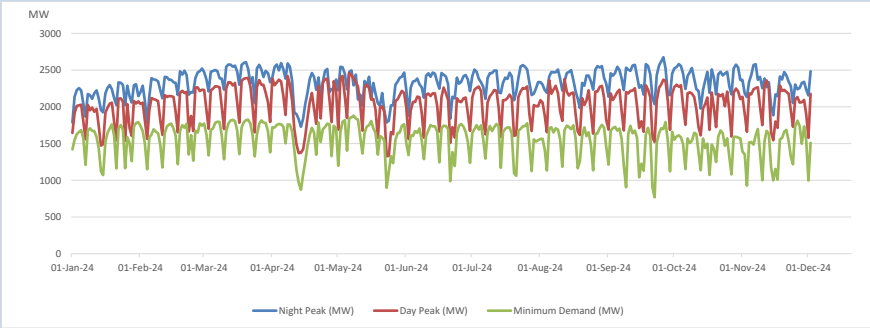
2. Comparison of Total Reservoir Storage Levels with Past Years



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

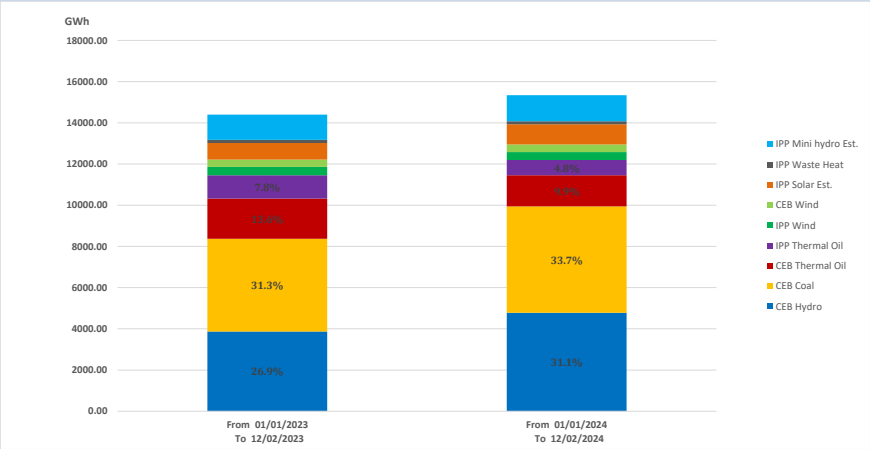


4. Variation of Demand during the current year



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 12/02/2023 **14399 GWh**

From 01/01/2024 To 12/02/2024 **15340 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