Generation and Reservoirs Statistics

October 6, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 6, 2024

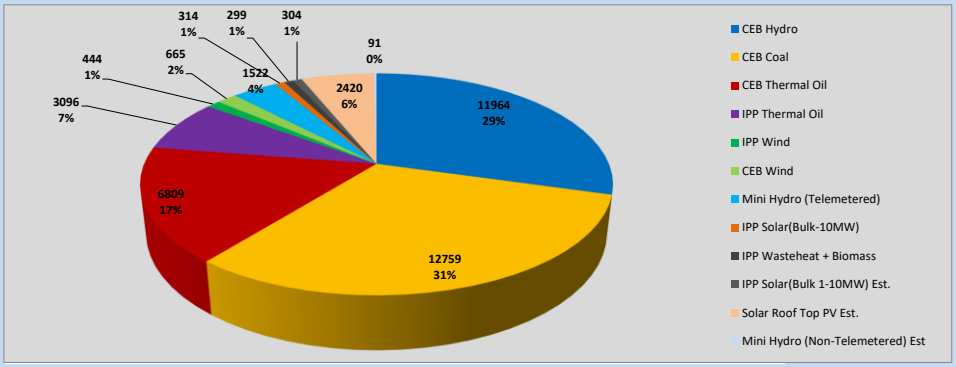


Table 01

	Generation (MWh)
CEB Hydro	11964
CEB Coal	12759
CEB Thermal Oil	6809
IPP Thermal Oil	3096
IPP Wind	444
CEB Wind	665
Mini Hydro (Telemetered)	1522
IPP Solar (Bulk)	314
IPP Waste heat + Biomass	299
Total Generation (Excluding estimated figures)	37,872
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	91
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	**40,687**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

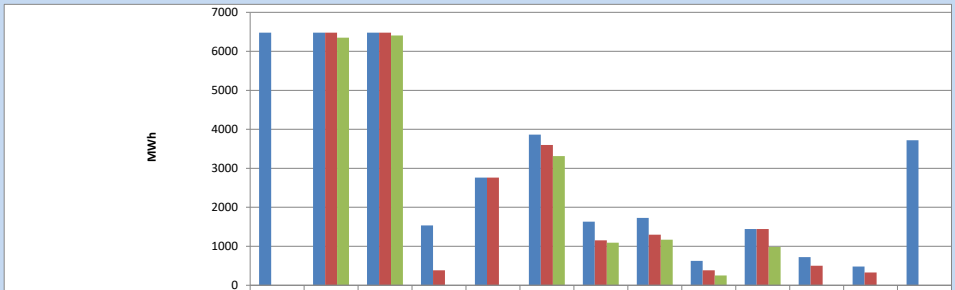
Category	Dispatch (GWh)	
CEB Hydro	74	26.62%
CEB Coal	78	28.07%
CEB Thermal Oil	44	16.04%
IPP Thermal	35	12.73%
IPP Wind	6	2.18%
CEB Wind	8	2.75%
Mini Hydro *	12	4.16%
IPP Solar *	19	6.75%
IPP Waste heat + BMP	2	0.69%
Total	**277**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,927	30.89%
CEB Coal	4,478	35.22%
CEB Thermal Oil	1,245	9.80%
IPP Thermal	598	4.70%
IPP Wind	317	2.50%
CEB Wind	326	2.56%
Mini Hydro *	941	7.40%
IPP Solar *	765	6.02%
IPP Waste heat	116	0.91%
Total	**12,714**	

*Including estimated contribution from non telemetered plants

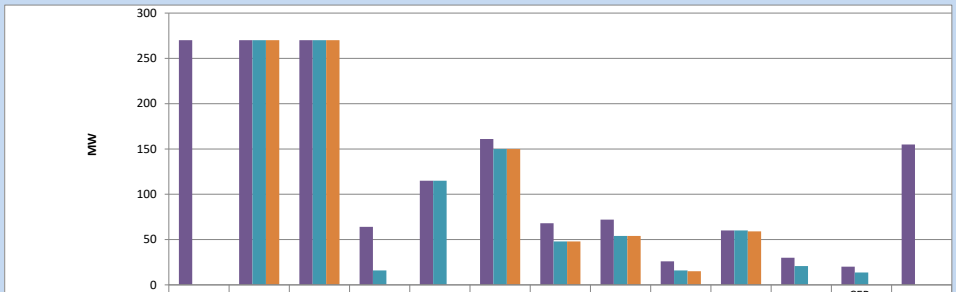
1.2 CEB owned Thermal Plant Dispatch October 6, 2024



	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	3600	1152	1296	384	1440	499	326	0
Actual generation (MWh)	0.00	6351	6408	0	0	3313	1091	1169	251	985	0	0	0

Available Generation is estimated based on plant availability at 6.00am on October 7, 2024

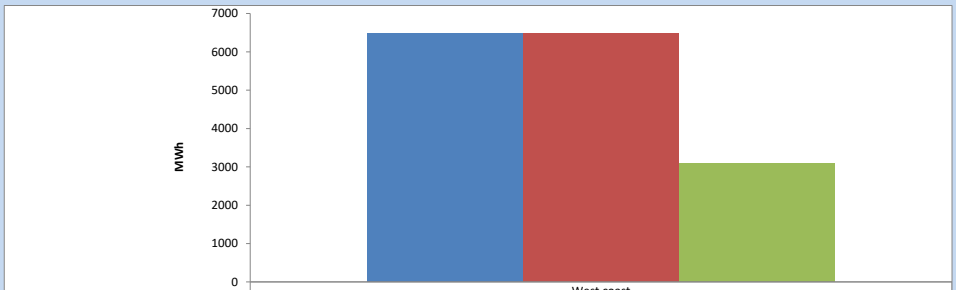
1.3 CEB owned Thermal Plant Loading at the Night Peak October 6, 2024



	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	150	48	54	16	60	21	14	0
Night Peak Load (MW)	0	270	270	0	0	150	48	54	15	59	0	0	0

Plant availability is recorded at 6.00 am on October 7, 2024

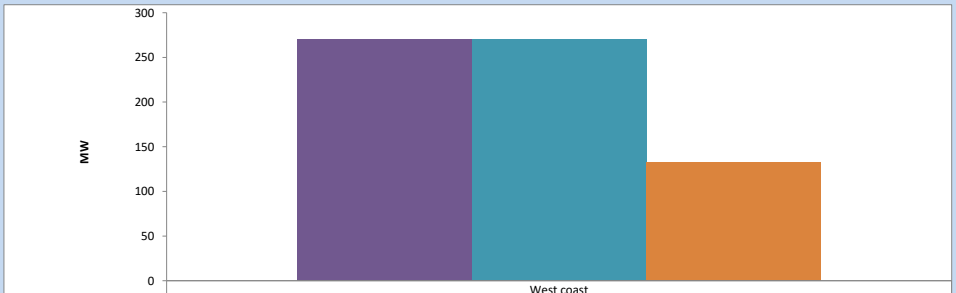
1.4 IPP owned Thermal Plant Dispatch October 6, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	3096

Available Generation is estimated based on plant availability at 6.00am on October 7, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

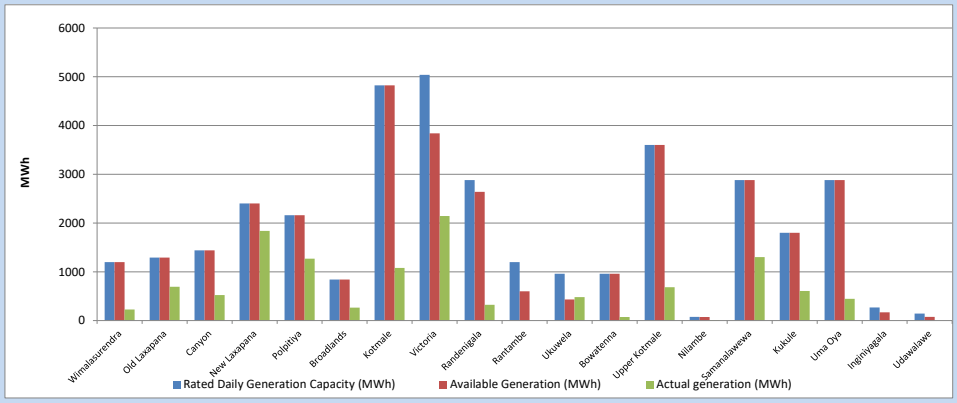


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	133

Plant availability is recorded at 6.00 am on October 7, 2024

1.6 Major Hydro Plant Dispatch

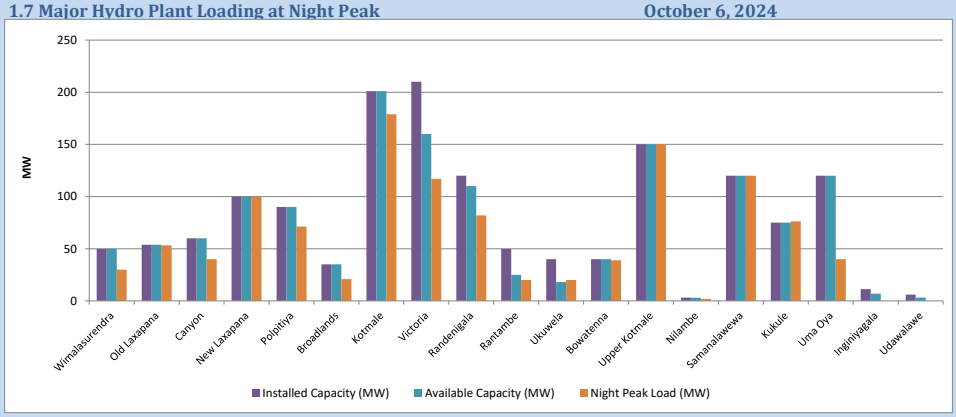
October 6, 2024



Available Generation is estimated based on plant availability at 6.00am on October 7, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 6, 2024



Plant availability is recorded at 6.00 am on October 7, 2024

1.8 Summary of Major Plant performance

October 6, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	228
Old Laxapana	54	54	53	693
Canyon	60	60	40	524
New Laxapana	100	100	100	1,839
Polpitiya	90	90	71	1,270
Broadlands	35	35	21	265
Kotmale	201	201	179	1,080
Victoria	210	160	117	2,143
Randenigala	120	110	82	323
Rantambe	50	25	20	0
Ukuwela	40	18	20	480
Bowatenna	40	40	39	71
Upper Kotmale	150	150	150	683
Nilambe	3	3	2	11
Samanalawewa	120	120	120	1,302
Kukule	75	75	76	606
Uma Oya	120	120	40	447
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,351
Puttalam Coal III	270	270	270	6,408
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,313
Sapugaskanda A	68	48	48	1,091
Sapugaskanda B	72	54	54	1,169
Uthura Janani	26	16	15	251
Barge CEB	60	60	59	985
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	133	3,096
Sobadhanavi	220	212	0	0
Total	3,606	2,724	2,262	37,873

Note-

Plant availability is the availability recorded at 6 am on October 7, 2024

1.9 Contribution to the Night Peak in MW

October 6, 2024

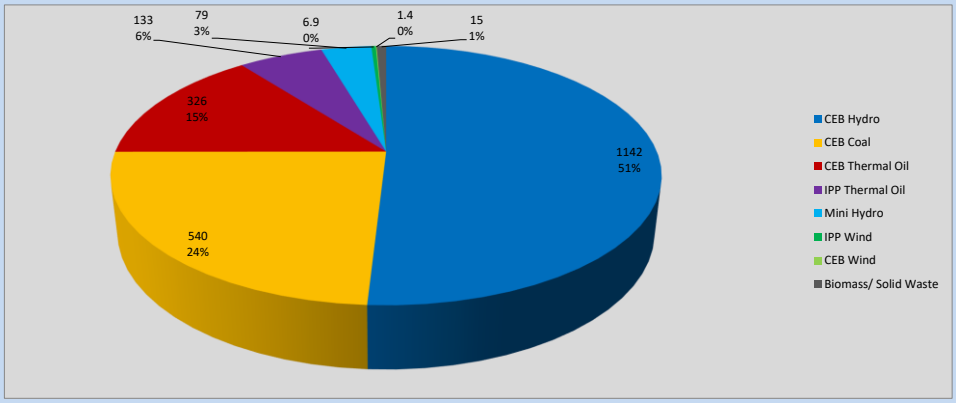


Table 05

CEB Hydro	1142	MW
CEB Coal	540	MW
CEB Thermal Oil	326	MW
IPP Thermal Oil	133	MW
Mini Hydro (Telemetered)	79	MW
IPP Wind	6.9	MW
CEB Wind	1.4	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

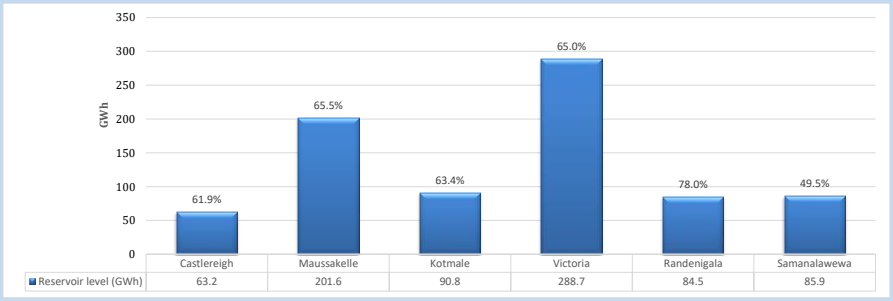
Table 06

Night Peak*	2,243	MW
Day Peak Maximum Demand	1,755	MW
Day Peak Minimum Demand	1,153	MW
Off Peak Minimum Demand	1,458	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 October 7, 2024



Total Reservoir Level 814.7 GWh
% of Total capacity 63.7%

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

October 6, 2024

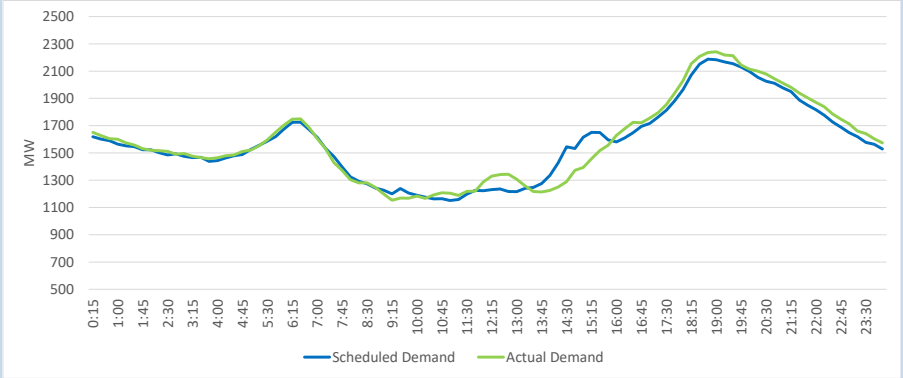
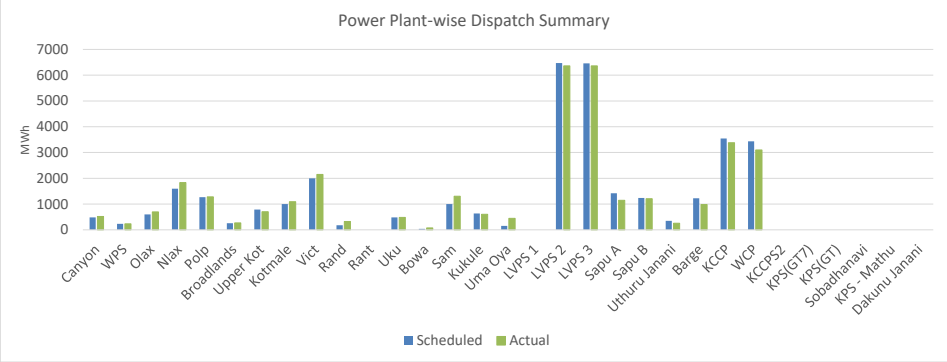


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	10,701	12,001	1,299
CEB Coal	12,930	12,723	(207)
CEB Thermal Oil	7,775	6,969	(806)
IPP Thermal Oil	3,434	3,096	(338)
NCRE (Telemetered)	2,912	3,110	198
Total	**37,751**	**37,897**	**146**

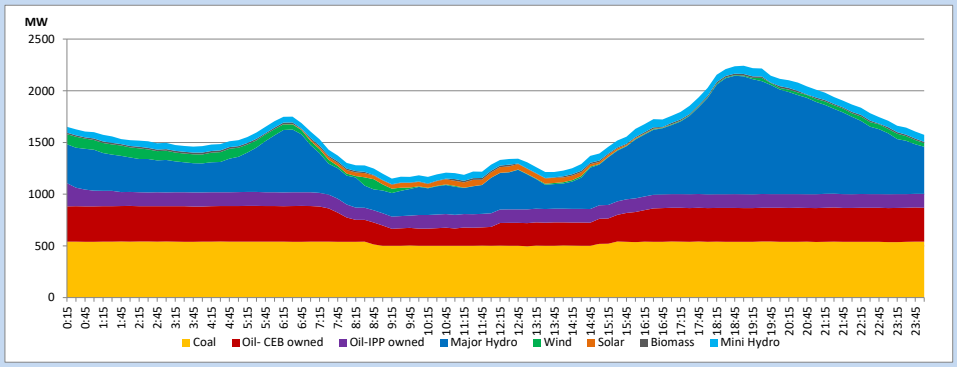
1.12 Power Plant-wise Dispatch Summary

October 6, 2024



1.13 Daily Load Curve

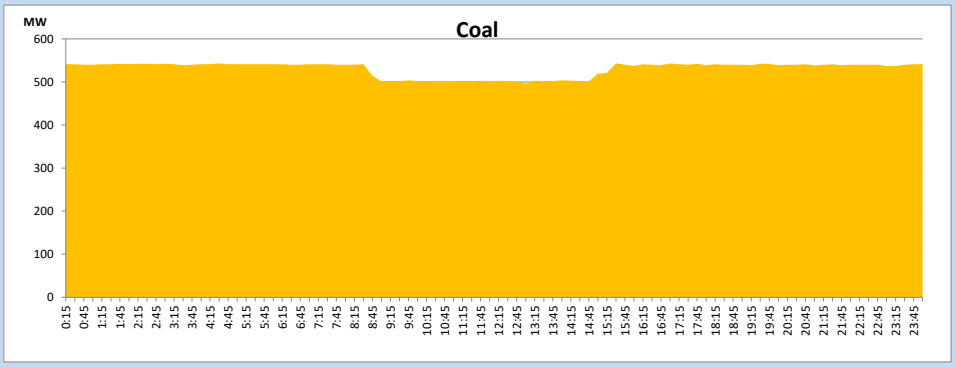
October 6, 2024



Solar and wind data is based on Telemetered Power Stations only

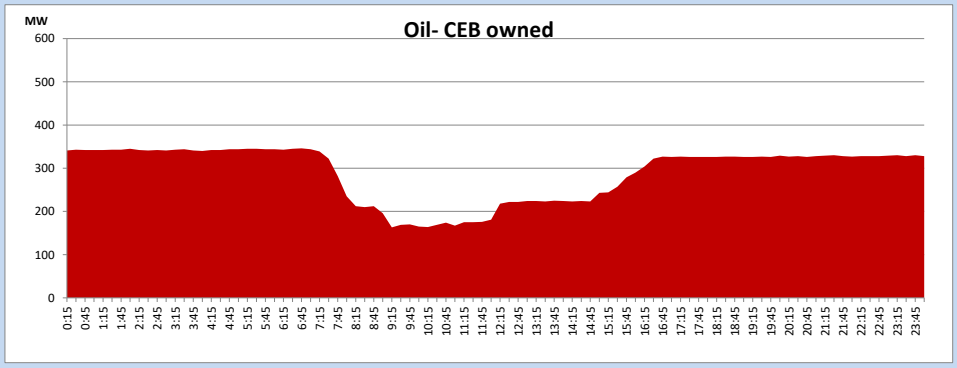
Coal Generation during

October 6, 2024

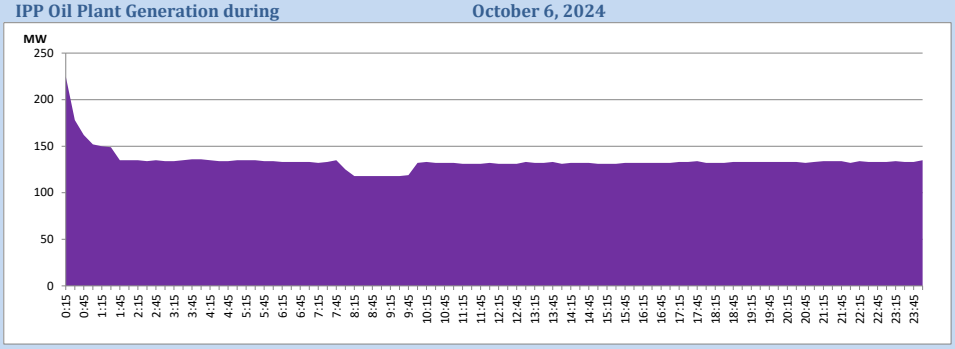


CEB Oil Plant Generation during

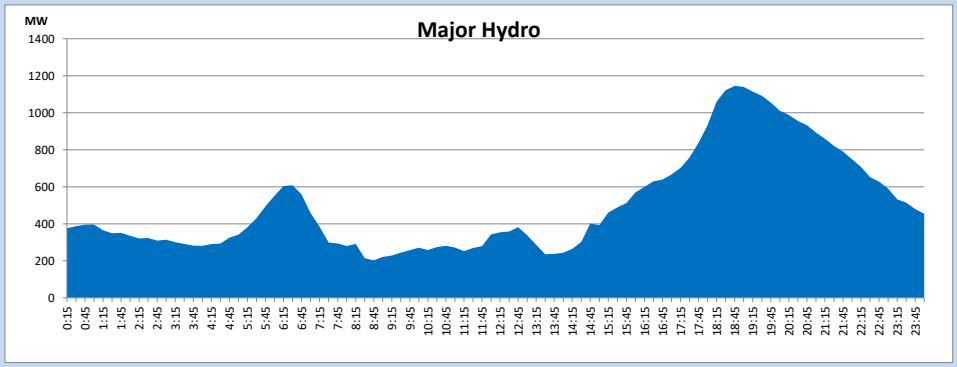
October 6, 2024



IPP Oil Plant Generation during October 6, 2024

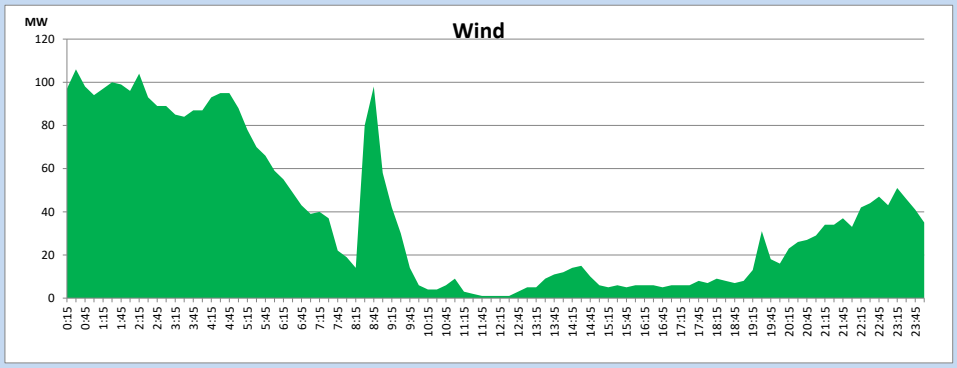


Major Hydro Generation during October 6, 2024



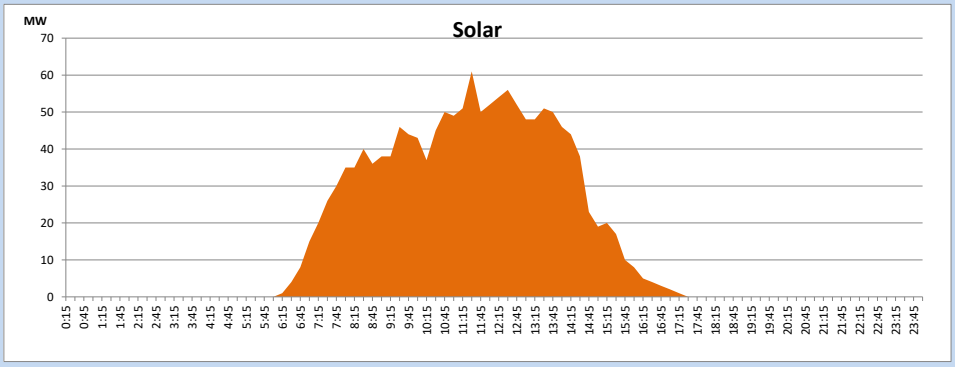
Wind Generation during October 6, 2024

Based on Telemetered Power Stations only



Solar Generation during October 6, 2024

Based on Telemetered Power Stations only

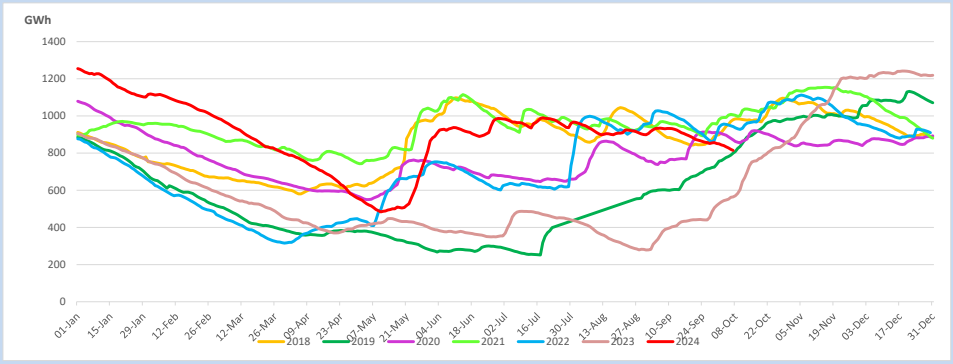


1.14 Major Incidents reported during the day October 6, 2024

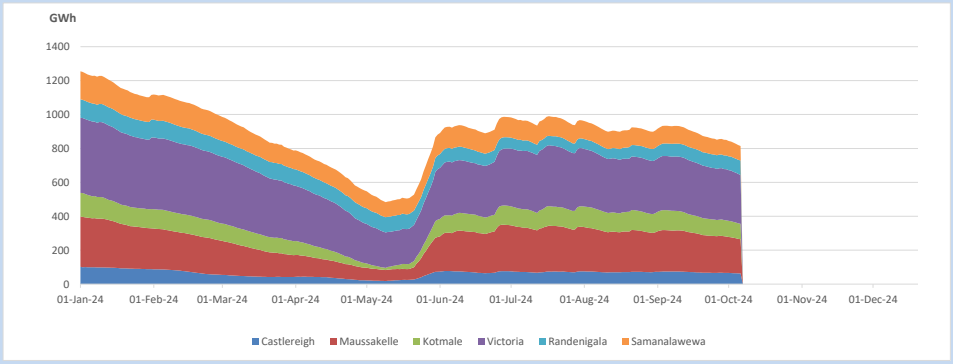
1) New Habarana - Valachchenai 132kV cct tripped and A/R only from New Habarana end at 21:40hrs due to the operation of distance protection.
At the same time, Valachchenai 132/33kV T/F 01 tripped from both ends due to the operation of REF protection. The T/F is yet to be normalized.
2) Kolonnawa - Kosgama 132kV cct tripped only from Kolonnawa end at 01:26hrs (07.10.24) due to the operation of distance protection.
The cct was normalised at 01:28hrs (07.10.24).
3) Biyagama - Kotugoda 220kV both ccts tripped from Biyagama end at 01:26hrs (07.10.24) due to the operation of distance protection.
Both ccts were normalised by 01:38hrs (07.10.24).

4) Kelaniya - Kotugoda 132kV cct tripped from both ends and Kelaniya - Aniyakanda 132kV cct tripped only from Kelaniya end at 01:26hrs (07.10.24) due to the operation of distance protection. All three ccts were normalised by 01:42hrs (07.10.24).

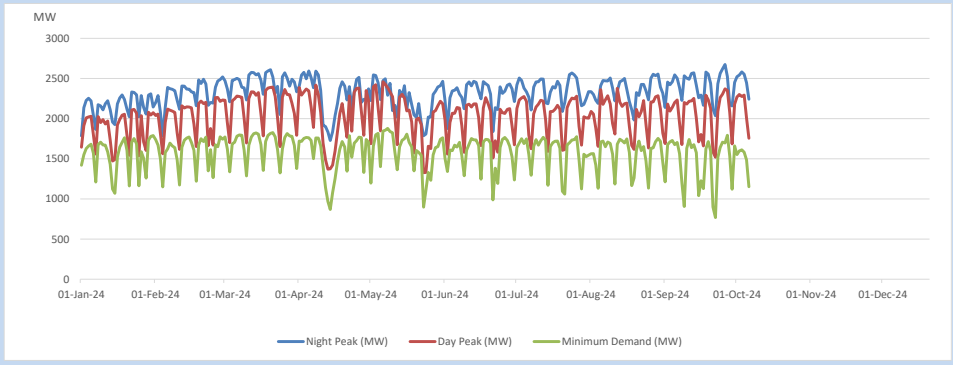
2. Comparison of Total Reservoir Storage Levels with Past Years



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

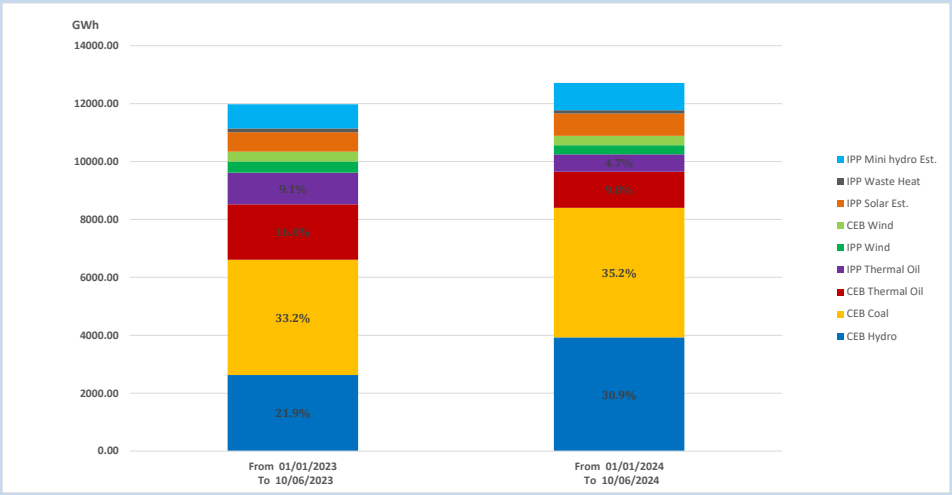


4. Variation of Demand during the current year



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 10/06/2023	**11976 GWh**
From 01/01/2024 To 10/06/2024	**12714 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	1535
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

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