Generation and Reservoirs Statistics

September 14, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 14, 2024

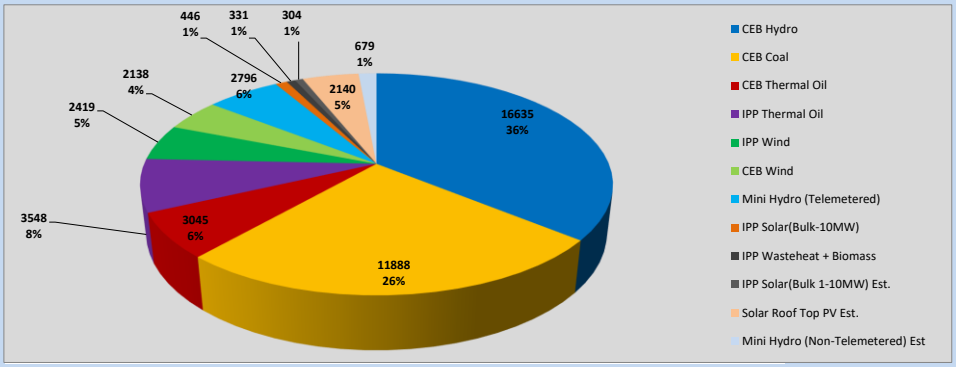


Table 01

	Generation (MWh)
CEB Hydro	16635
CEB Coal	11888
CEB Thermal Oil	3045
IPP Thermal Oil	3548
IPP Wind	2419
CEB Wind	2138
Mini Hydro (Telemetered)	2796
IPP Solar (Bulk)	446
IPP Waste heat + Biomass	331
Total Generation (Excluding estimated figures)	43,246
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	679
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	**46,369**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	197	30.03%
CEB Coal	255	39.00%
CEB Thermal Oil	30	4.63%
IPP Thermal	5	0.78%
IPP Wind	34	5.15%
CEB Wind	29	4.40%
Mini Hydro *	61	9.28%
IPP Solar *	40	6.08%
IPP Waste heat + BMP	4	0.64%
Total	**655**	

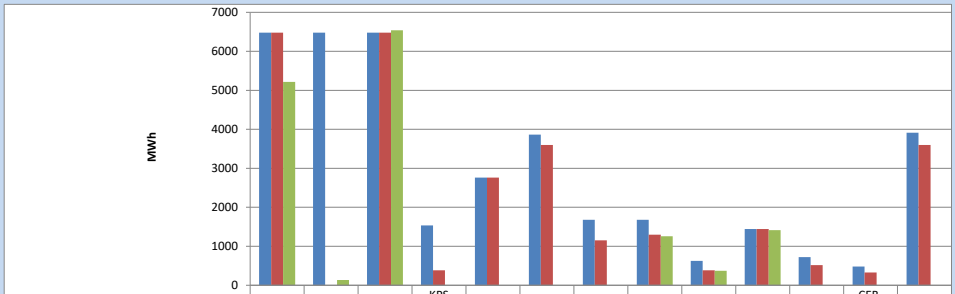
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,648	31.13%
CEB Coal	4,134	35.28%
CEB Thermal Oil	1,161	9.91%
IPP Thermal	514	4.39%
IPP Wind	296	2.53%
CEB Wind	294	2.51%
Mini Hydro *	854	7.29%
IPP Solar *	714	6.09%
IPP Waste heat	102	0.87%
Total	**11,719**	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 14, 2024

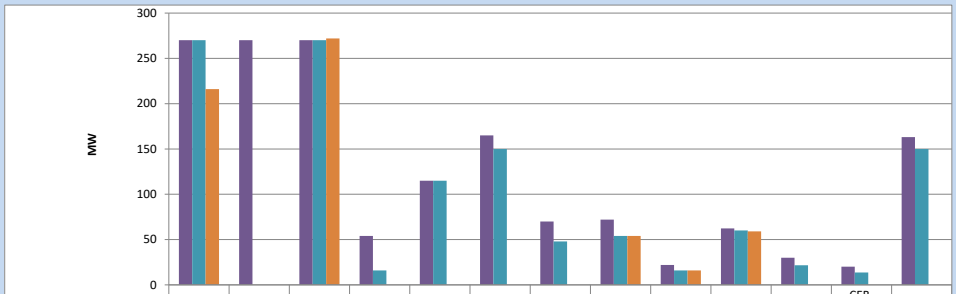


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	6480	0	6480	384	2760	3600	1152	1296	384	1440	518	326	3600
Actual generation (MWh)	5215.00	134	6539	0	0	0	0	1257	373	1415	0	0	0

Available Generation is estimated based on plant availability at 6.00am on September 15, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 14, 2024

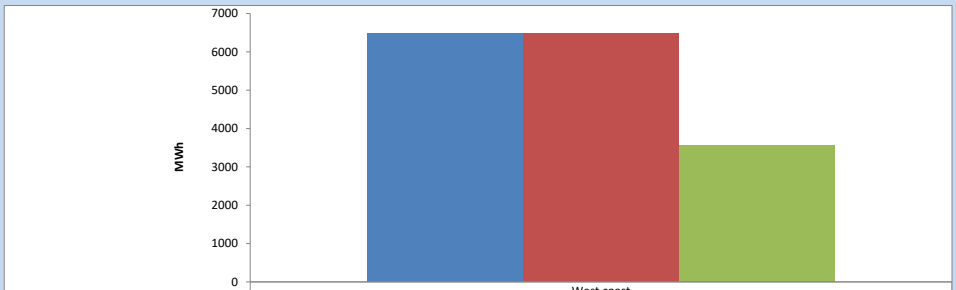


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	0	270	16	115	150	48	54	16	60	22	14	150
Night Peak Load (MW)	216	0	272	0	0	0	0	54	16	59	0	0	0

Plant availability is recorded at 6.00 am on September 15, 2024

1.4 IPP owned Thermal Plant Dispatch

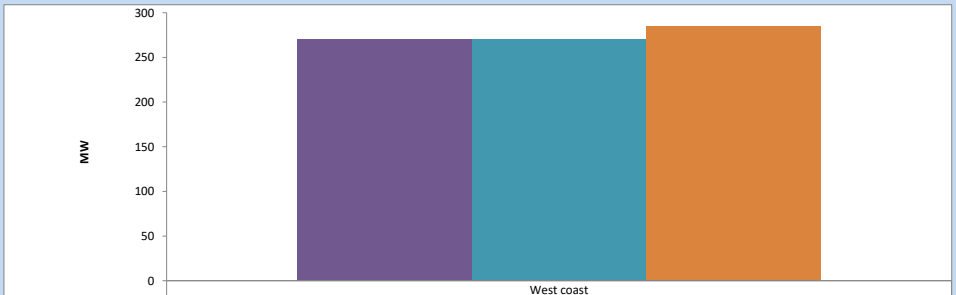
September 14, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	3548

Available Generation is estimated based on plant availability at 6.00am on September 15, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

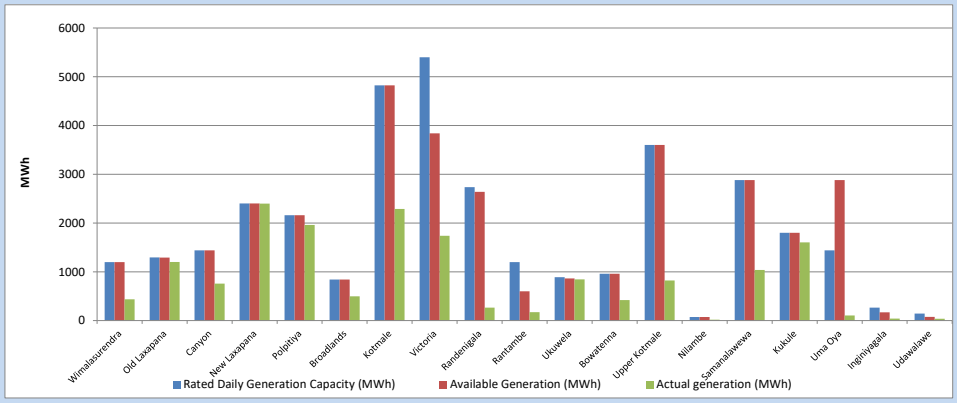


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	285

Plant availability is recorded at 6.00 am on September 15, 2024

1.6 Major Hydro Plant Dispatch

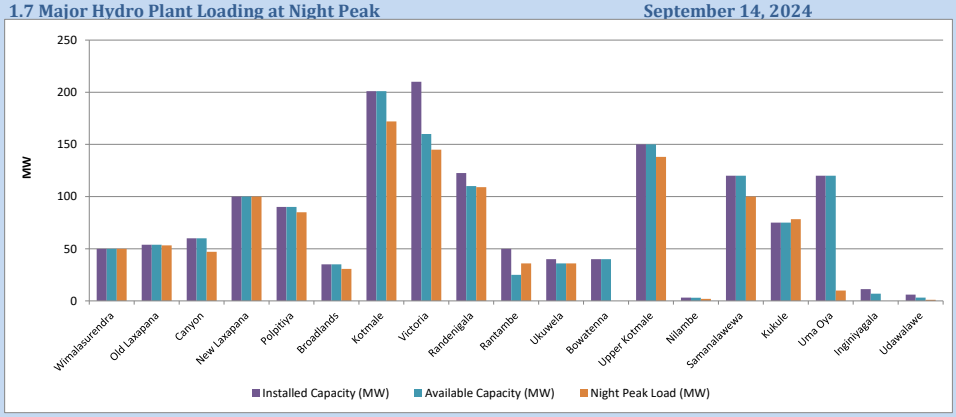
September 14, 2024



Available Generation is estimated based on plant availability at 6.00am on September 15, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 14, 2024



Plant availability is recorded at 6.00 am on September 15, 2024

1.8 Summary of Major Plant performance

September 14, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	435
Old Laxapana	54	54	53	1,201
Canyon	60	60	47	757
New Laxapana	100	100	100	2,399
Polpitiya	90	90	85	1,960
Broadlands	35	35	31	497
Kotmale	201	201	172	2,290
Victoria	210	160	145	1,738
Randenigala	123	110	109	265
Rantambe	50	25	36	173
Ukuwela	40	36	36	843
Bowatenna	40	40	0	419
Upper Kotmale	150	150	138	822
Nilambe	3	3	2	17
Samanalawewa	120	120	100	1,037
Kukule	75	75	78	1,603
Uma Oya	120	120	10	104
Inginiyagala	11	7	0	39
Udawalawe	6	3	1	36
Puttalam Coal I	270	270	216	5,215
Puttalam Coal II	270	0	0	134
Puttalam Coal III	270	270	272	6,539
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	0	0
Sapugaskanda B	72	54	54	1,257
Uthura Janani	22	16	16	373
Barge CEB	62	60	59	1,415
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	14	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	270	285	3,548
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,893	2,428	43,246

Note-
Plant availability is the availability recorded at 6 am on September 15, 2024

1.9 Contribution to the Night Peak in MW

September 14, 2024

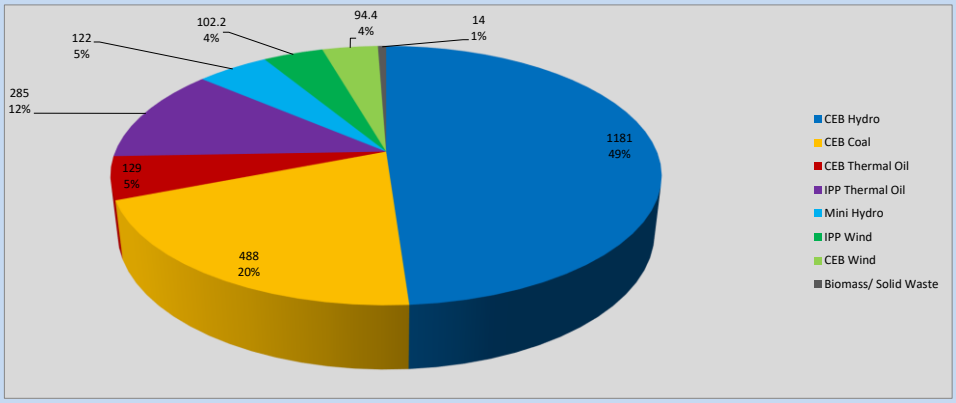


Table 05

CEB Hydro	1181	MW
CEB Coal	488	MW
CEB Thermal Oil	129	MW
IPP Thermal Oil	285	MW
Mini Hydro (Telemetered)	122	MW
IPP Wind	102.2	MW
CEB Wind	94.4	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

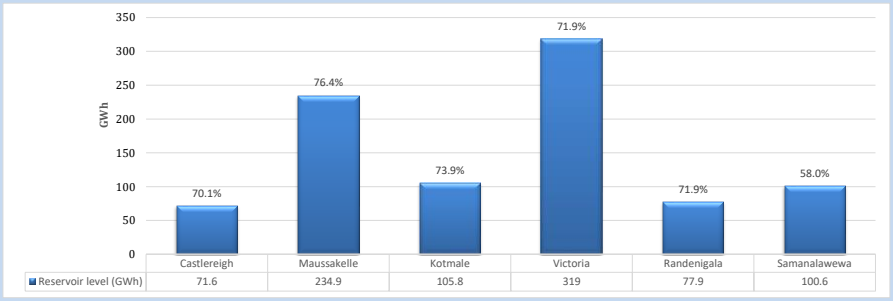
Table 06

Night Peak*	2,416	MW
Day Peak Maximum Demand	2,005	MW
Day Peak Minimum Demand	1,577	MW
Off Peak Minimum Demand	1,537	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 September 15, 2024



Total Reservoir Level 909.8 GWh
% of Total capacity 71.2%

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

September 14, 2024

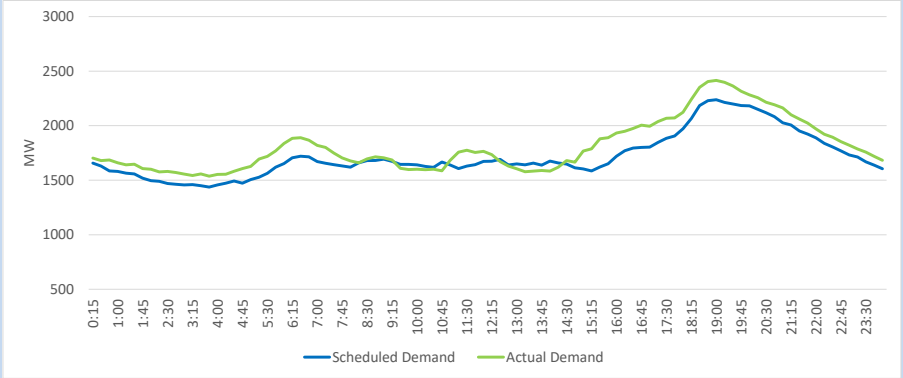
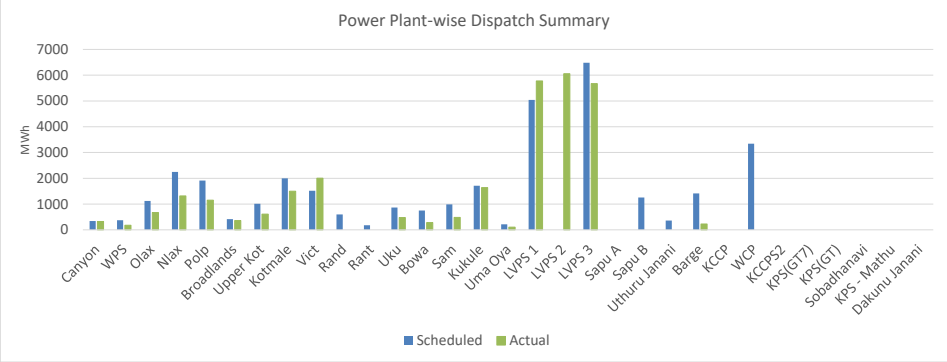


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,238	11,093	(5,144)
CEB Coal	11,520	17,502	5,982
CEB Thermal Oil	3,029	228	(2,800)
IPP Thermal Oil	3,339	-	(3,339)
NCRE (Telemetered)	7,099	8,230	1,131
Total	**41,225**	**37,054**	**-4171**

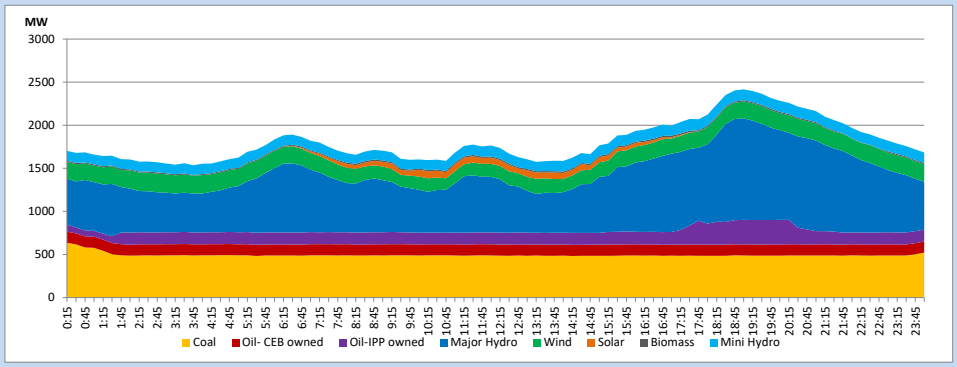
1.12 Power Plant-wise Dispatch Summary

September 14, 2024



1.13 Daily Load Curve

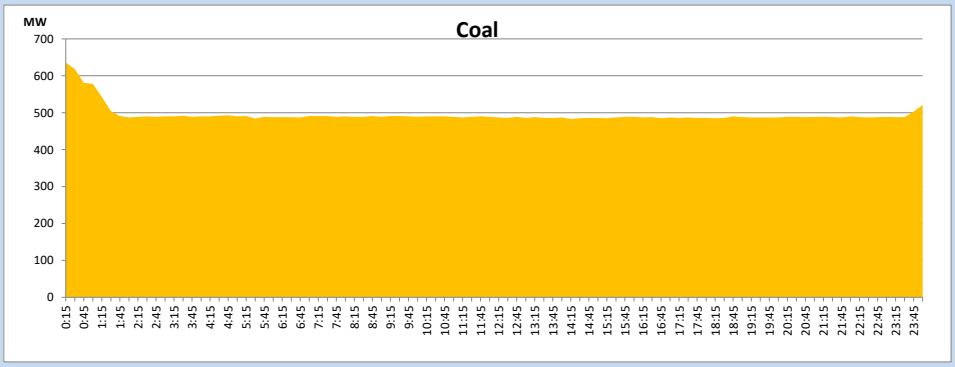
September 14, 2024



Solar and wind data is based on Telemetered Power Stations only

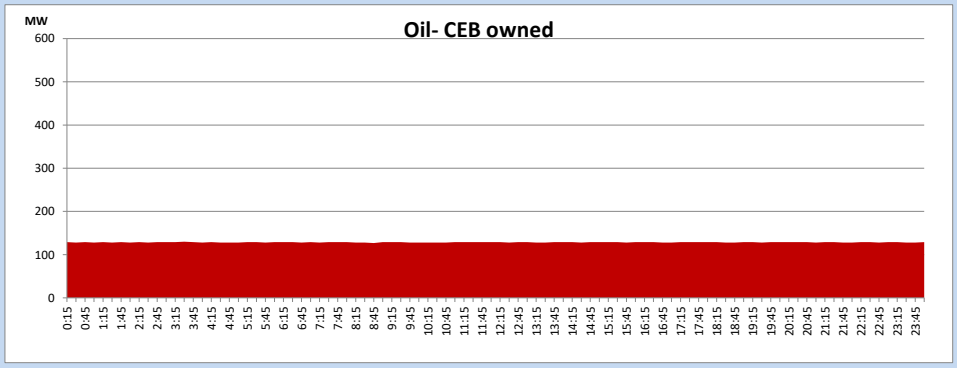
Coal Generation during

September 14, 2024

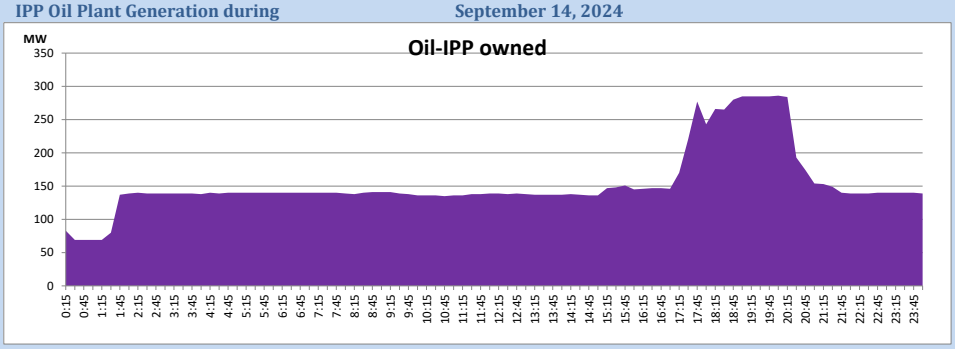


CEB Oil Plant Generation during

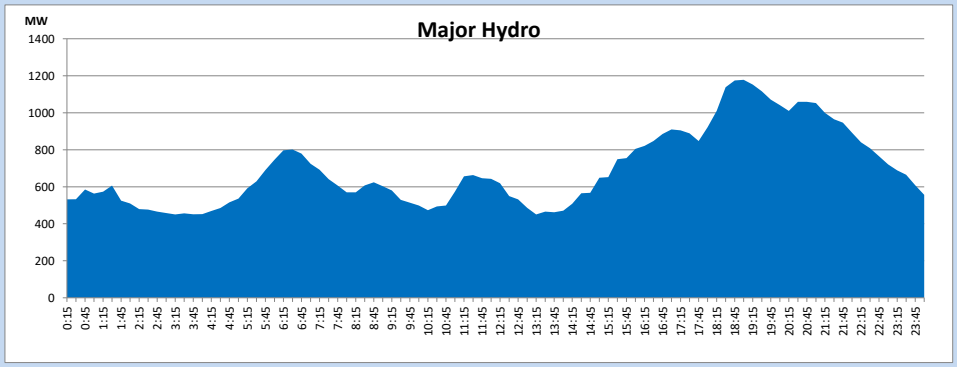
September 14, 2024



IPP Oil Plant Generation during **September 14, 2024**

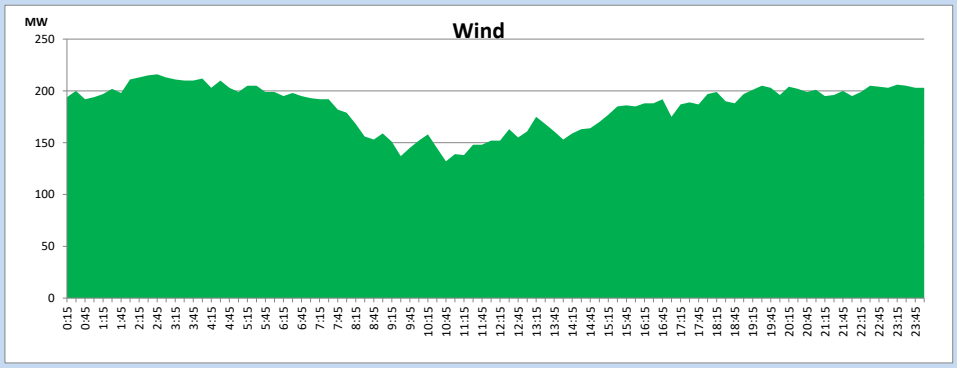


Major Hydro Generation during **September 14, 2024**



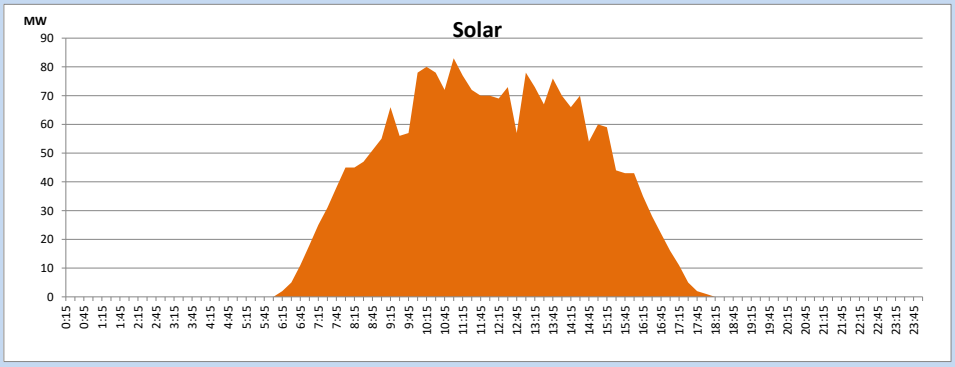
Wind Generation during **September 14, 2024**

Based on Telemetered Power Stations only



Solar Generation during **September 14, 2024**

Based on Telemetered Power Stations only

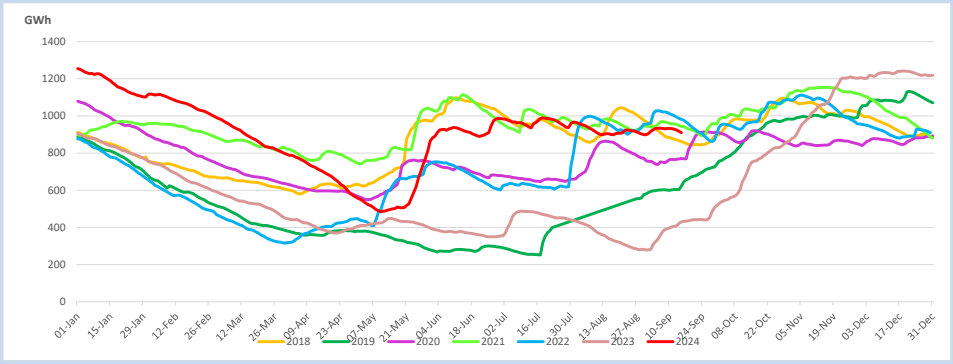


1.14 Major Incidents reported during the day **September 14, 2024**

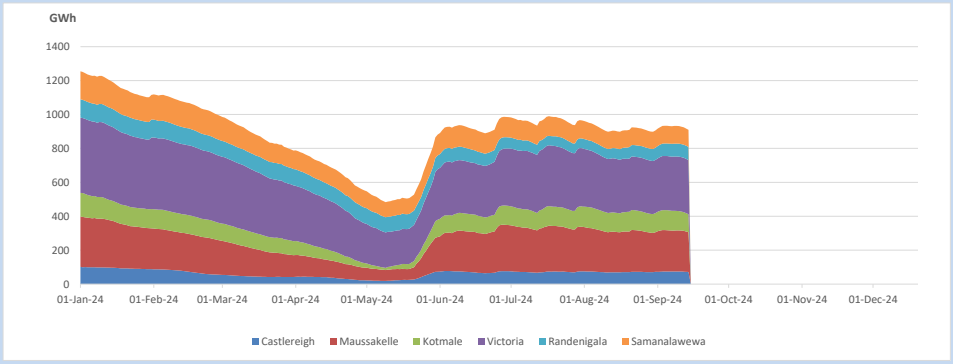
1) Matara GSS 132/33kV T/F 02 and 33kV B/S CB 01 tripped at 16:10hrs due to the operation of E/F protection, causing 33kV B/S 02 to be dead, along with 33kV feeders 02, 04 ,06 and 08. Matara 132/33kV T/F 02 was normalized at 16:59hrs and all the feeders were normalized at 17:00hrs. 33kV B/S CB 01 is yet to be normalized.

2) WCP GT2 was made available at 00:00hrs (15.09.2024) after the outage which was facilitated on 17.04.2024.
3) LVPS Unit 01, which was deloaded to 210MW (net) on 10.09.2024, reached its full load at 00:29hrs (15.09.2024).

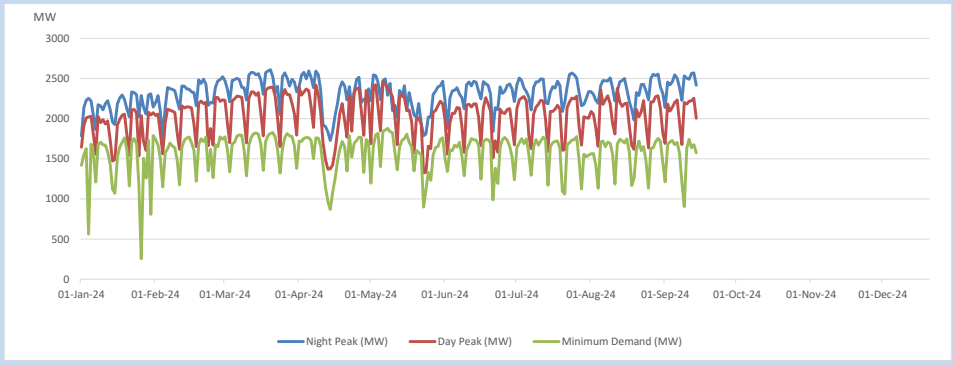
2. Comparison of Total Reservoir Storage Levels with Past Years



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

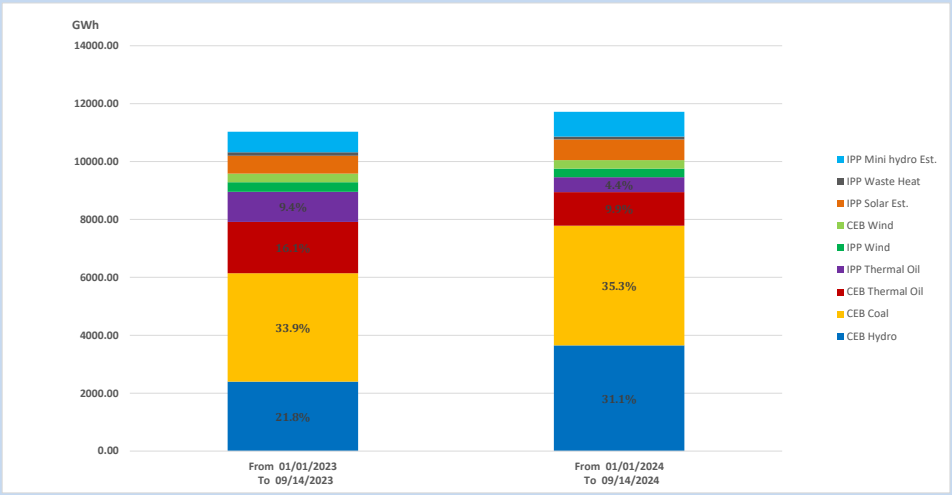


4. Variation of Demand during the current year



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 09/14/2023 **11028 GWh**

From 01/01/2024 To 09/14/2024 **11719 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	1530
CEB Coal	810
CEB Thermal Oil	786
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)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

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