

Generation and Reservoirs Statistics

September 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 16, 2024

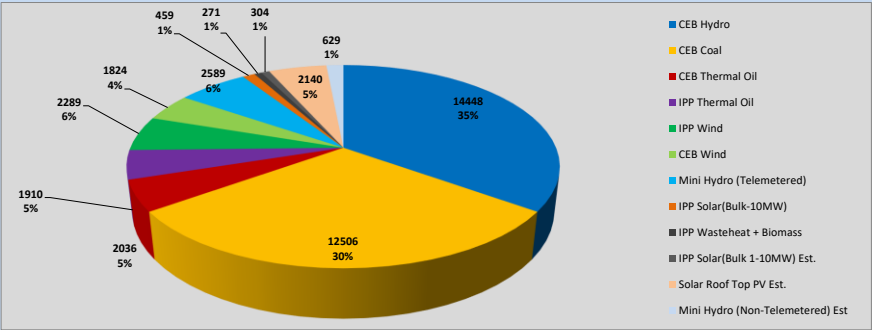


Table 01

	Generation (MWh)
CEB Hydro	14448
CEB Coal	12506
CEB Thermal Oil	2036
IPP Thermal Oil	1910
IPP Wind	2289
CEB Wind	1824
Mini Hydro (Telemetered)	2589
IPP Solar (Bulk)	459
IPP Waste heat + Biomass	271
Total Generation (Excluding estimated figures)	38,332
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	629
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	41,405

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	225	30.53%
CEB Coal	281	38.08%
CEB Thermal Oil	34	4.66%
IPP Thermal	9	1.20%
IPP Wind	38	5.19%
CEB Wind	32	4.41%
Mini Hydro *	67	9.10%
IPP Solar *	46	6.19%
IPP Waste heat + BMP	5	0.66%
Total	737	

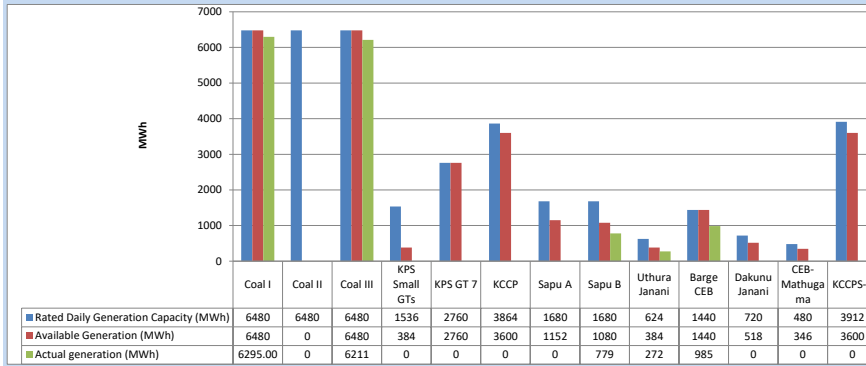
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,677	31.16%
CEB Coal	4,160	35.25%
CEB Thermal Oil	1,165	9.87%
IPP Thermal	518	4.39%
IPP Wind	301	2.55%
CEB Wind	298	2.53%
Mini Hydro *	861	7.29%
IPP Solar *	720	6.10%
IPP Waste heat	103	0.87%
Total	11,801	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 16, 2024

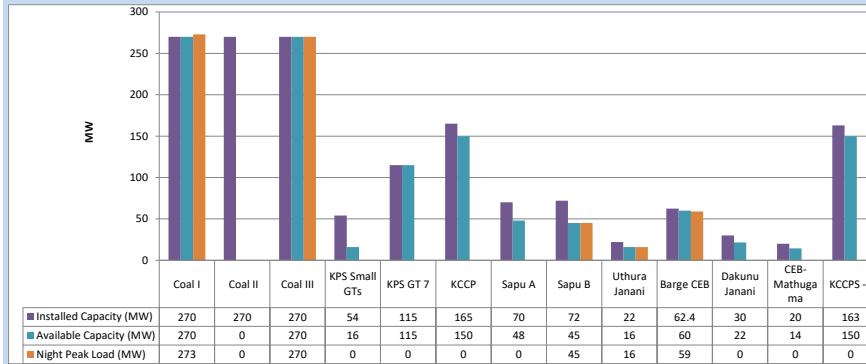


Available Generation is estimated based on plant availability at 6.00am on

September 17, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 16, 2024

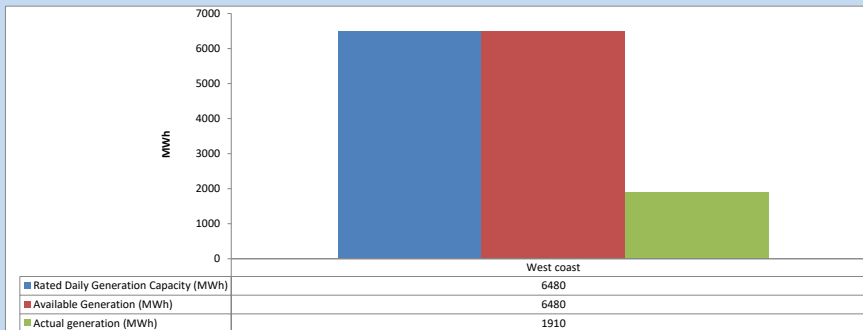


Plant availability is recorded at 6.00 am on

September 17, 2024

1.4 IPP owned Thermal Plant Dispatch

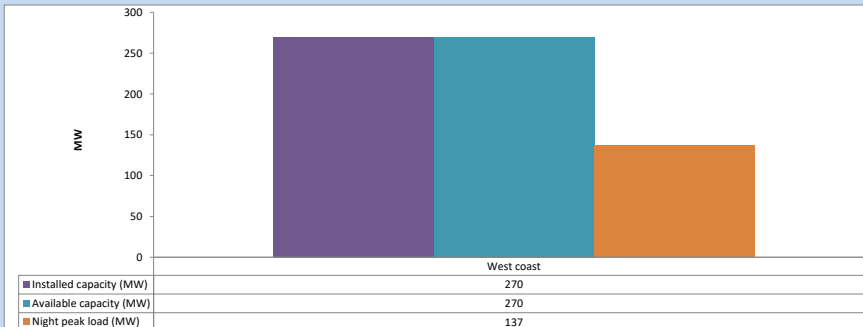
September 16, 2024



Available Generation is estimated based on plant availability at 6.00am on

September 17, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

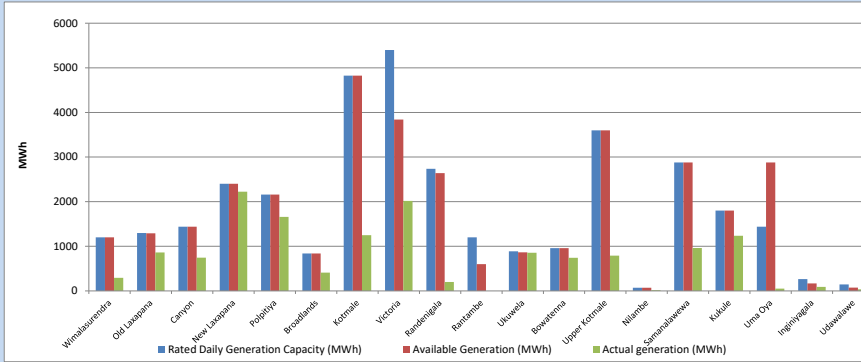


Plant availability is recorded at 6.00 am on

September 17, 2024

1.6 Major Hydro Plant Dispatch

September 16, 2024

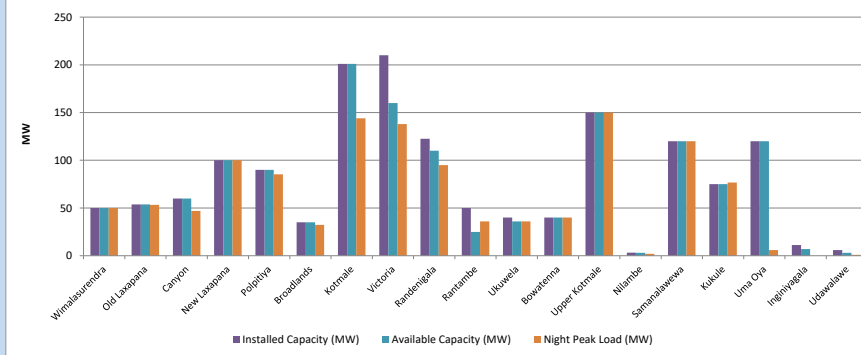


Available Generation is estimated based on plant availability at 6.00am on

September 17, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 16, 2024



Plant availability is recorded at 6.00 am on

September 17, 2024

1.8 Summary of Major Plant performance

September 16, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	293
Old Laxapana	54	54	53	863
Canyon	60	60	47	745
New Laxapana	100	100	100	2,225
Polpitiya	90	90	85	1,660
Broadlands	35	35	32	410
Kotmale	201	201	144	1,250
Victoria	210	160	138	2,018
Randenigala	123	110	95	200
Rantambe	50	25	36	0
Ukuwela	40	36	36	856
Bowatenna	40	40	40	742
Upper Kotmale	150	150	150	791
Nilambe	3	3	2	15
Samanalawewa	120	120	120	963
Kukule	75	75	77	1,237
Uma Oya	120	120	6	53
Inginigala	11	7	0	91
Udawalawe	6	3	1	37
Puttalam Coal I	270	270	273	6,295
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,211
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	45	45	779
Uthura Janani	22	16	16	272
Barge CEB	62	60	59	985
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	137	1,910
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,885	2,330	38,333

Note-

Plant availability is the availability recorded at 6 am on

September 17, 2024

1.9 Contribution to the Night Peak in MW

September 16, 2024

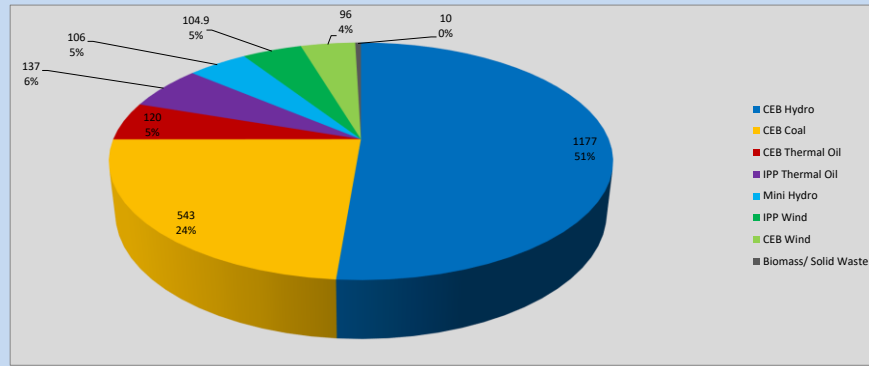


Table 05

CEB Hydro	1177	MW
CEB Coal	543	MW
CEB Thermal Oil	120	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	106	MW
IPP Wind	104.9	MW
CEB Wind	96	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

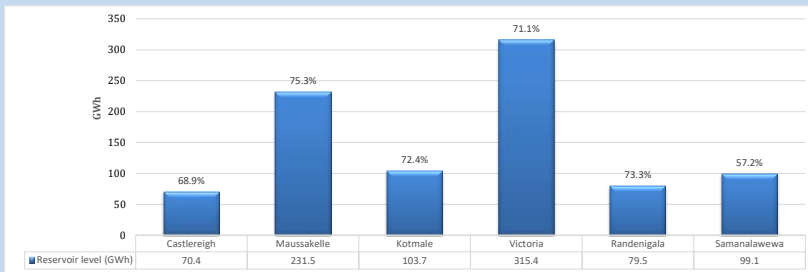
Table 06

Night Peak*	2,294	MW
Day Peak Maximum Demand	1,804	MW
Day Peak Minimum Demand	1,226	MW
Off Peak Minimum Demand	1,411	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 17, 2024



Total Reservoir Level
% of Total capacity

899.6 GWh
70.4%

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

September 16, 2024

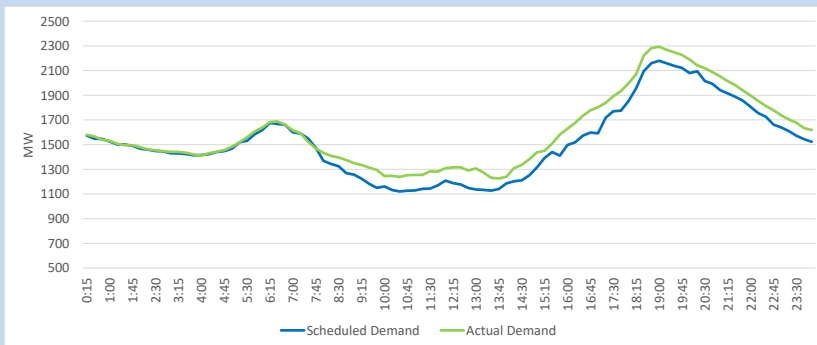
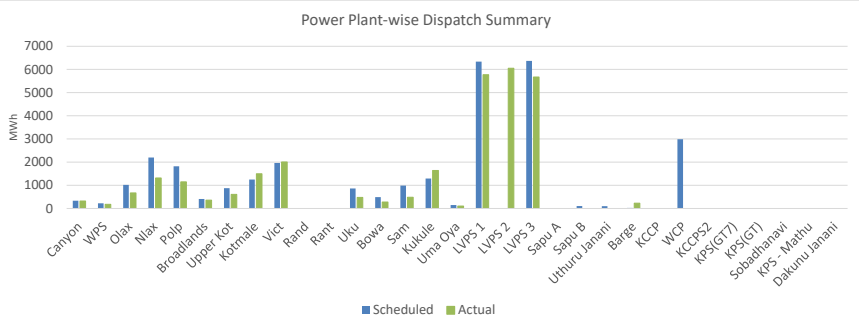


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,884	11,093	(2,791)
CEB Coal	12,706	17,502	4,796
CEB Thermal Oil	229	228	(1)
IPP Thermal Oil	2,991	-	(2,991)
NCRE (Telemetered)	6,716	7,568	852
Total	36,526	36,392	-134

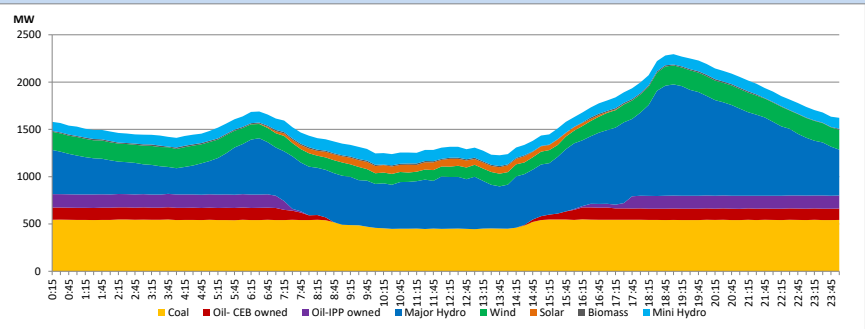
1.12 Power Plant-wise Dispatch Summary

September 16, 2024



1.13 Daily Load Curve

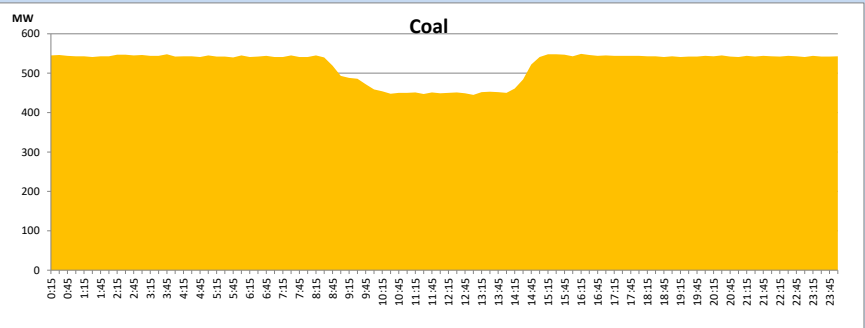
September 16, 2024



Solar and wind data is based on Telemetered Power Stations only

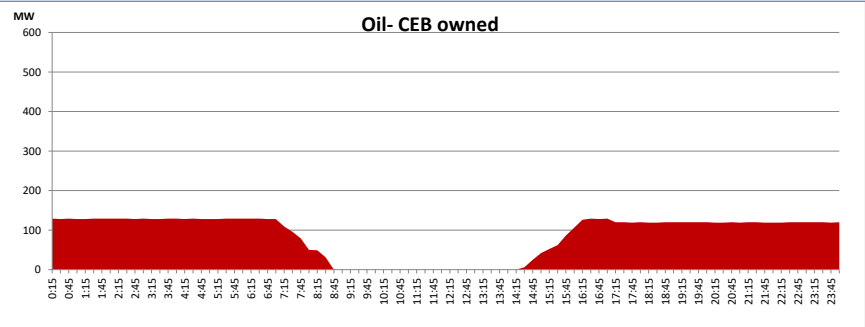
Coal Generation during

September 16, 2024

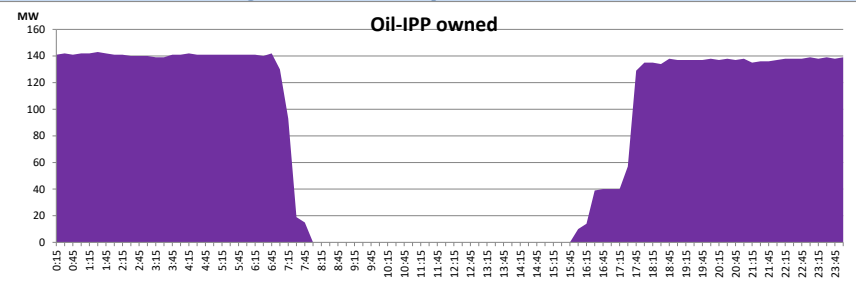


CEB Oil Plant Generation during

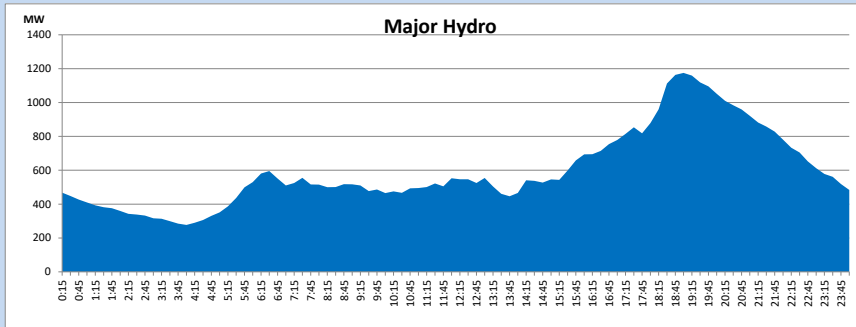
September 16, 2024



IPP Oil Plant Generation during September 16, 2024

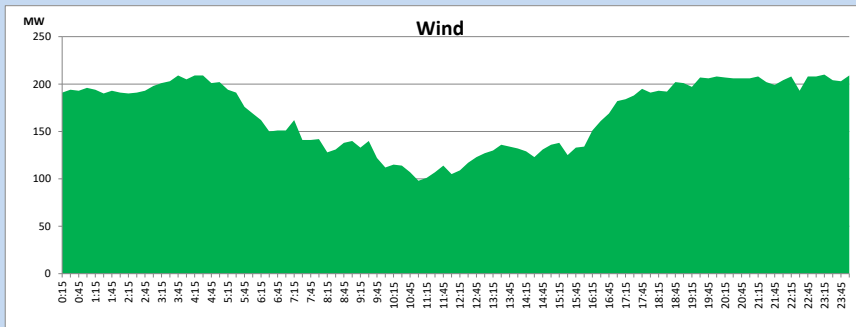


Major Hydro Generation during September 16, 2024



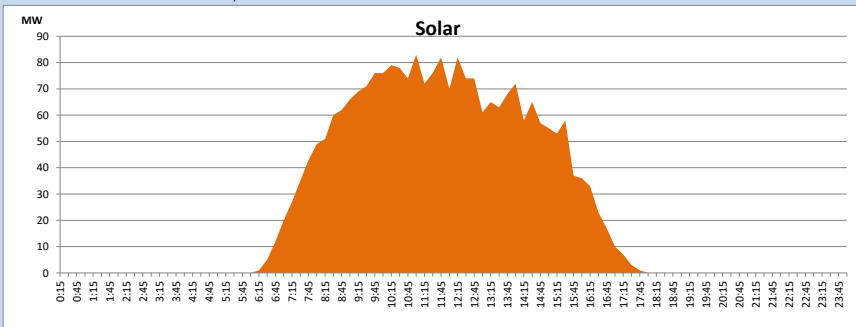
Wind Generation during September 16, 2024

Based on Telemetered Power Stations only



Solar Generation during September 16, 2024

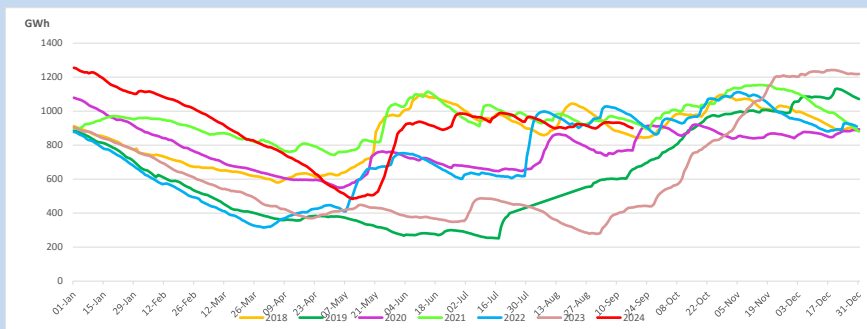
Based on Telemetered Power Stations only



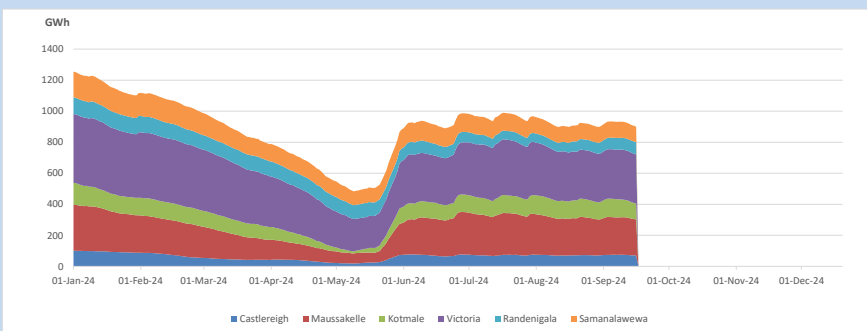
1.14 Major Incidents reported during the day September 16, 2024

Nil.

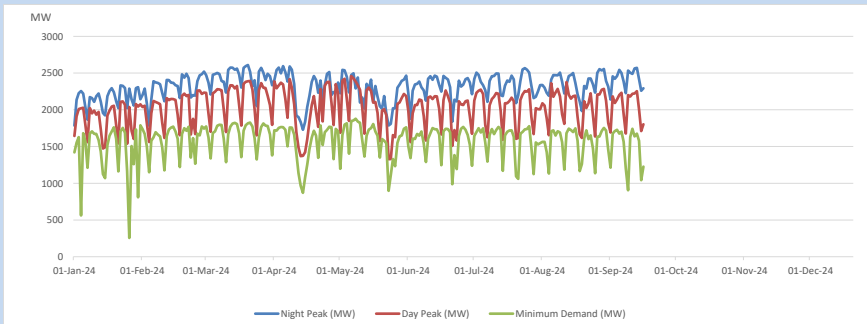
2. Comparison of Total Reservoir Storage Levels with Past Years



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

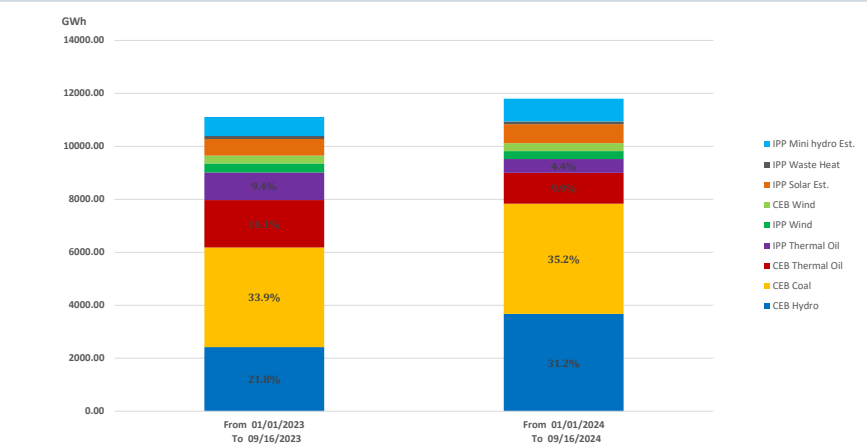


4. Variation of Demand during the current year



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 09/16/2023 11107 GWh
From 01/01/2024 To 09/16/2024 11801 GWh

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

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