

Generation and Reservoirs Statistics

August 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 10, 2024

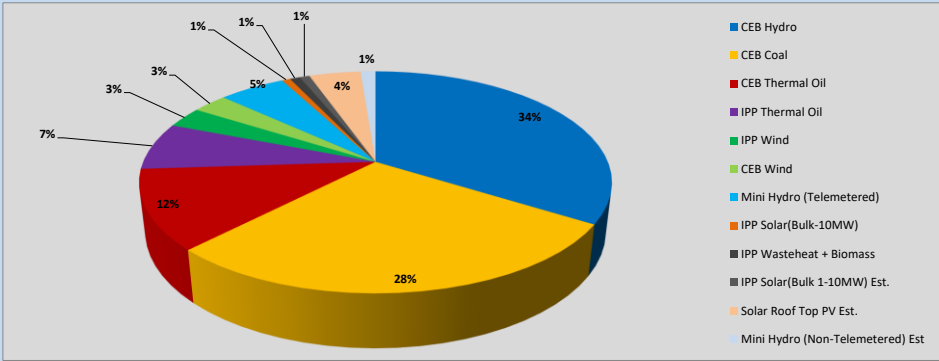


Table 01

	Generation (MWh)
CEB Hydro	15398
CEB Coal	12960
CEB Thermal Oil	5293
IPP Thermal Oil	3146
IPP Wind	1384
CEB Wind	1310
Mini Hydro (Telemetered)	2473
IPP Solar (Bulk)	312
IPP Waste heat + Biomass	375
Total Generation (Excluding estimated figures)	42,651
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	554
* Estimated IPP Solar PV (Bulk 1-10MW)	369
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	45,494

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	171	36.71%
CEB Coal	130	27.87%
CEB Thermal Oil	64	13.82%
IPP Thermal	16	3.53%
SPP Wind	10	2.22%
CEB Wind	11	2.39%
Mini Hydro *	33	7.19%
IPP Solar *	26	5.53%
IPP Waste heat + BMP	3	0.73%
Total	465	

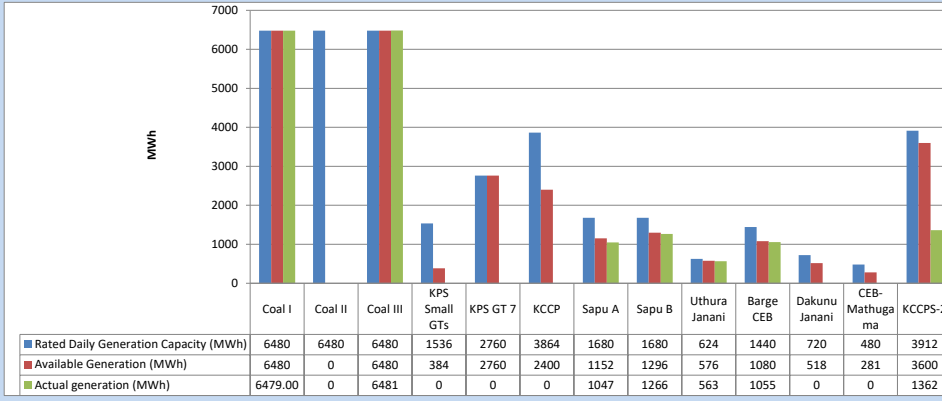
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,187	31.57%
CEB Coal	3,564	35.29%
CEB Thermal Oil	995	9.85%
IPP Thermal	492	4.87%
SPP Wind	223	2.21%
CEB Wind	227	2.25%
Mini Hydro *	698	6.91%
IPP Solar *	621	6.15%
IPP Waste heat	90	0.89%
Total	10,097	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 10, 2024

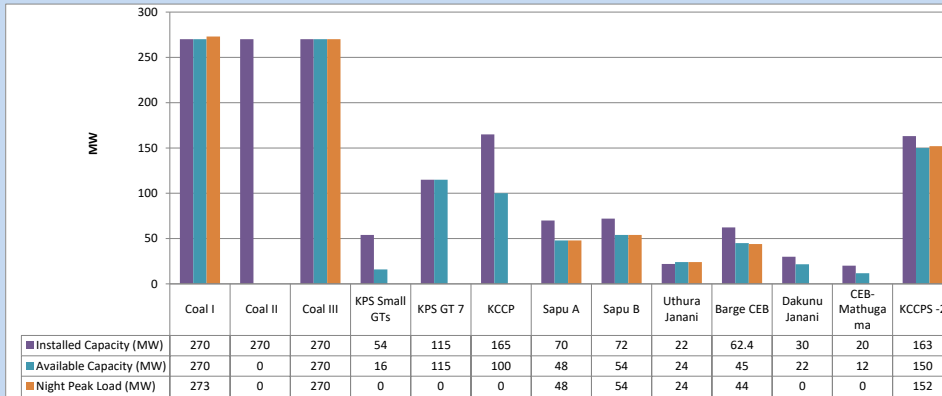


Available Generation is estimated based on plant availability at 6.00am on

August 11, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 10, 2024

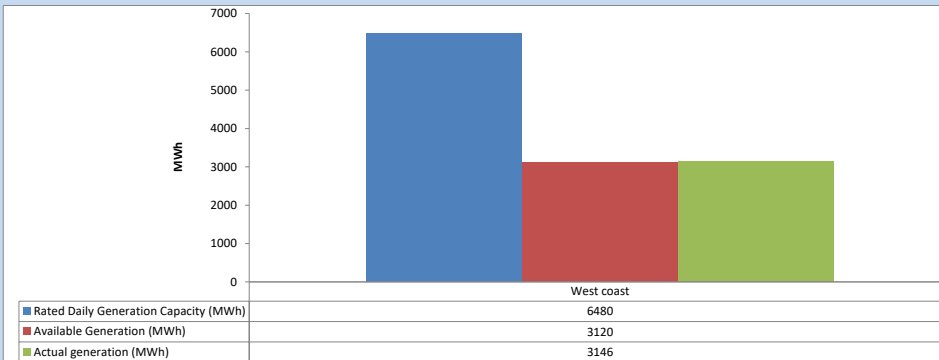


Plant availability is recorded at 6.00 am on

August 11, 2024

1.4 IPP owned Thermal Plant Dispatch

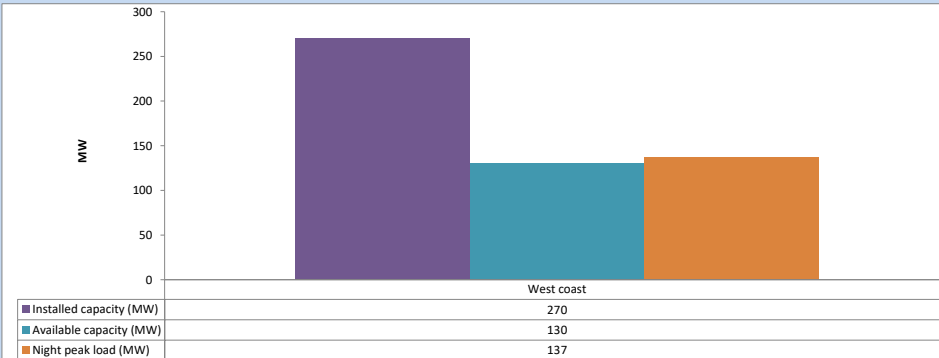
August 10, 2024



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

August 11, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

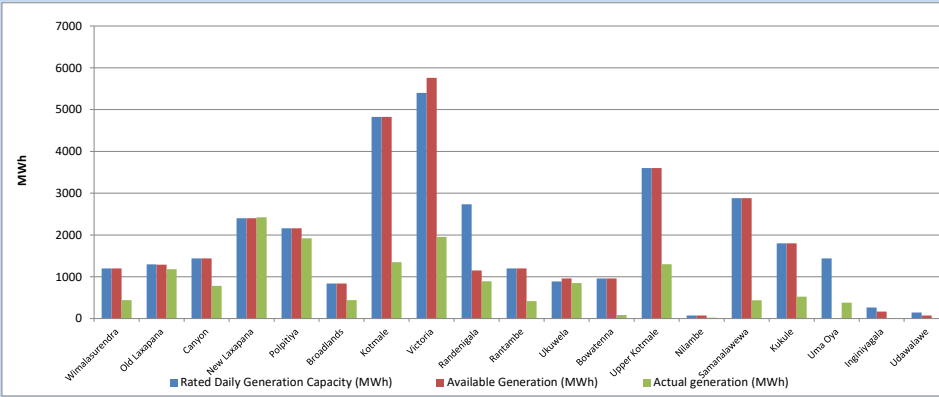


Plant availability is recorded at 6.00 am on

August 11, 2024

1.6 Major Hydro Plant Dispatch

August 10, 2024

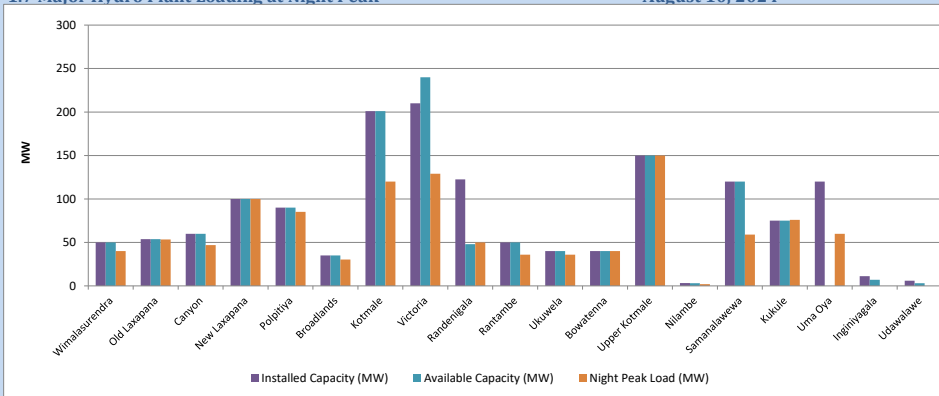


Available Generation is estimated based on plant availability at 6.00am on

August 11, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 10, 2024



Plant availability is recorded at 6.00 am on

August 11, 2024

1.8 Summary of Major Plant performance

August 10, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	441
Old Laxapana	54	54	54	1,181
Canyon	60	60	47	783
New Laxapana	100	100	100	2,423
Polpitiya	90	90	85	1,920
Broadlands	35	35	30	443
Kotmale	201	201	120	1,350
Victoria	210	240	129	1,952
Randenigala	123	48	50	893
Rantambe	50	50	36	419
Ukuwela	40	40	36	850
Bowatenna	40	40	40	83
Upper Kotmale	150	150	150	1,299
Nilambe	3	3	2	20
Samanalawewa	120	120	59	438
Kukule	75	75	76	524
Uma Oya	120	0	60	381
Inginipigala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	273	6,479
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,481
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	100	0	0
Sapugaskanda A	70	48	48	1,047
Sapugaskanda B	72	54	54	1,266
Uthura Janani	22	24	24	563
Barge CEB	62	45	44	1,055
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	152	1,362
West Coast	270	130	137	3,146
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,621	2,367	42,653

Note-

Plant availability is the availability recorded at 6 am on

August 11, 2024

1.9 Contribution to the Night Peak in MW

August 10, 2024

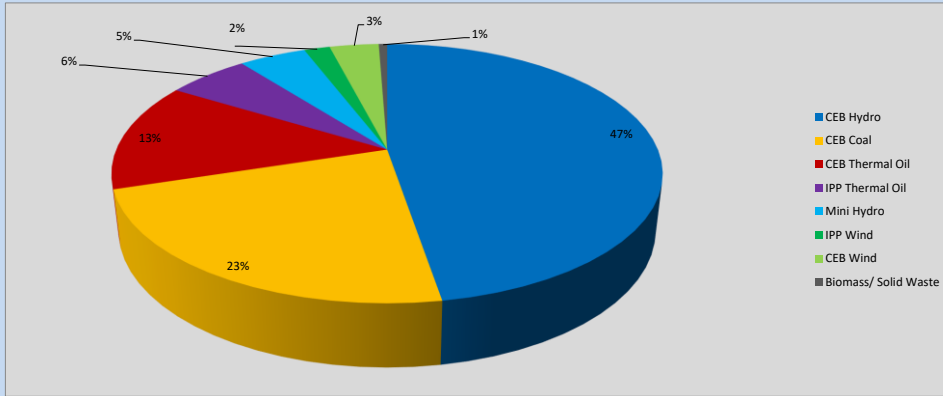


Table 05

CEB Hydro	1127	MW
CEB Coal	543	MW
CEB Thermal Oil	322	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	112	MW
IPP Wind	43.1	MW
CEB Wind	82.2	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

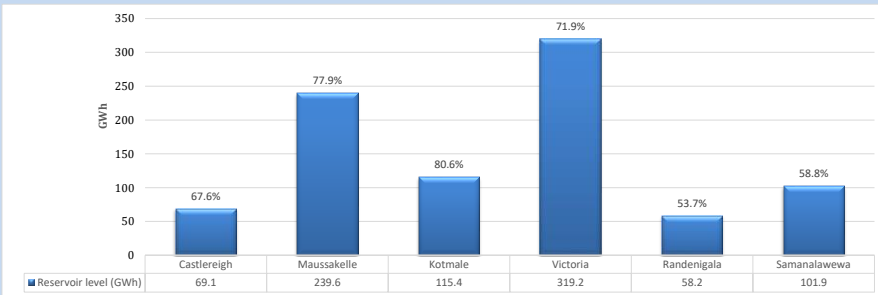
Table 06

Night Peak*	2,380	MW
Day Peak Maximum Demand	1,939	MW
Day Peak Minimum Demand	1,558	MW
Off Peak Minimum Demand	1,533	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 August 11, 2024



Total Reservoir Level 903.4 GWh
% of Total capacity 70.7%

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

August 10, 2024

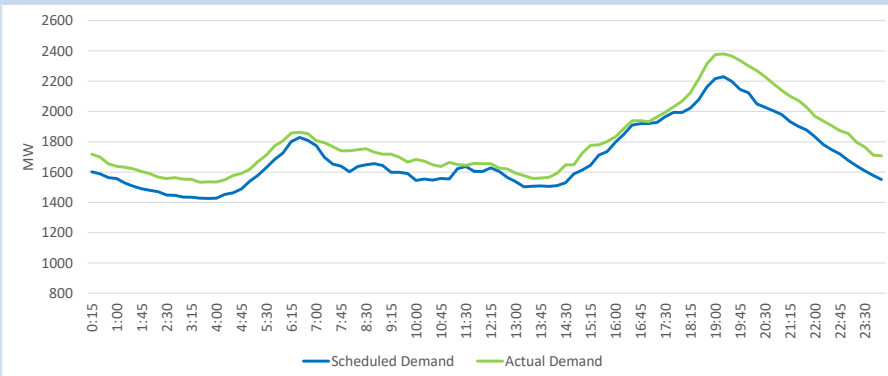
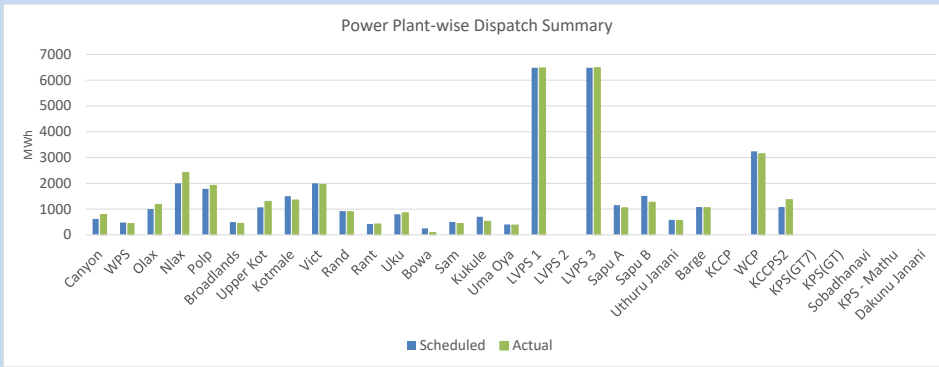


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,920	15,378	457
CEB Coal	12,960	12,960	0
CEB Thermal Oil	5,399	5,293	-106
IPP Thermal Oil	3,240	3,146	-94
NCRE (Telemetered)	4,195	5,762	1568
Total	40,714	42,539	1825

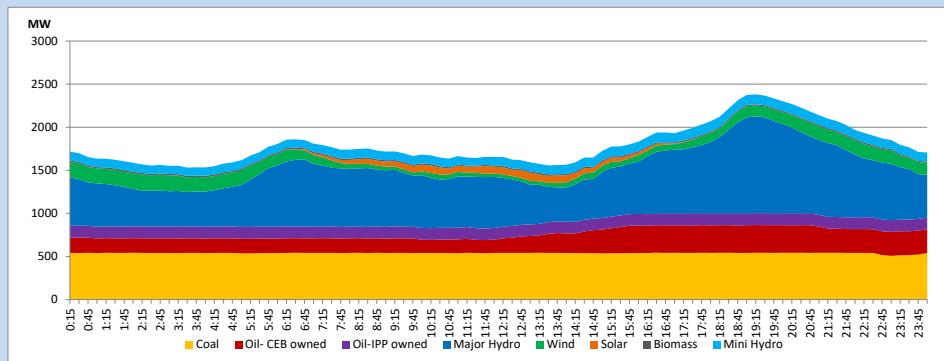
1.12 Power Plant-wise Dispatch Summary

August 10, 2024



1.13 Daily Load Curve

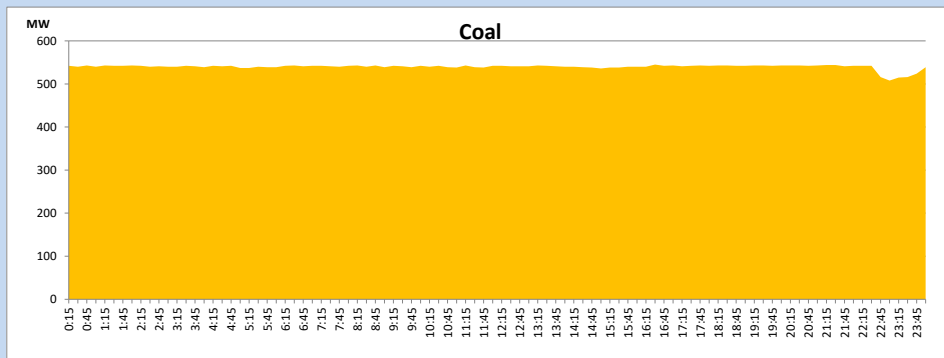
August 10, 2024



Solar and wind data is based on Telemetered Power Stations only

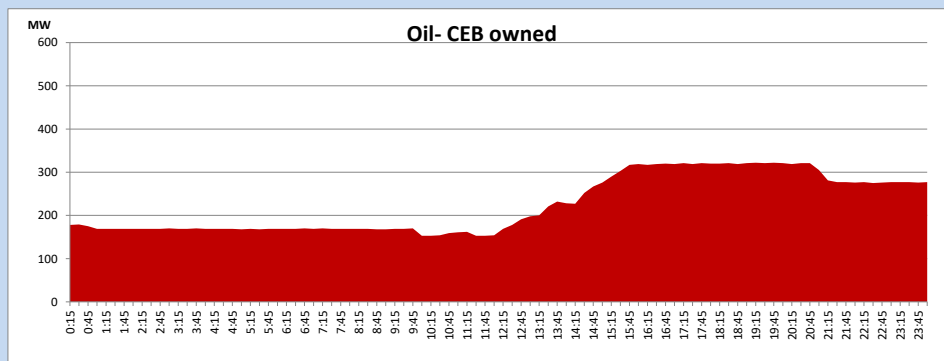
Coal Generation during

August 10, 2024

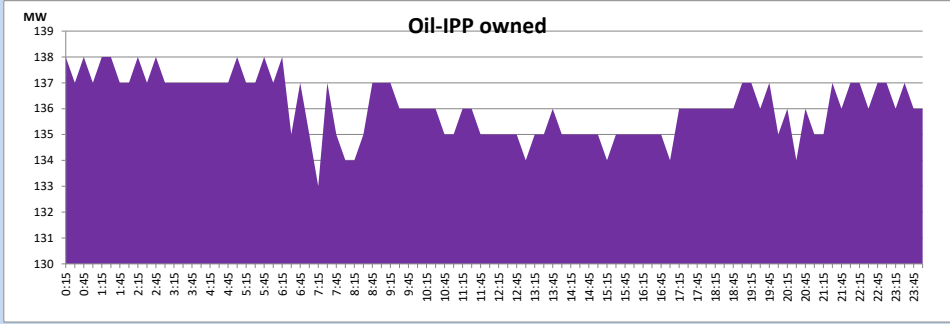


CEB Oil Plant Generation during

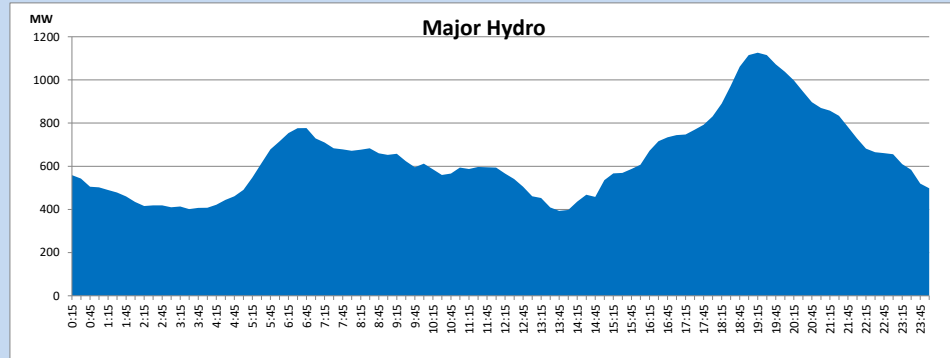
August 10, 2024



IPP Oil Plant Generation during August 10, 2024

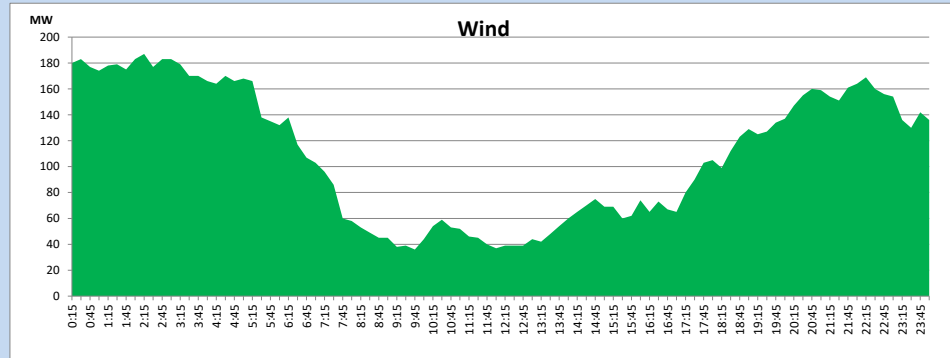


Major Hydro Generation during August 10, 2024



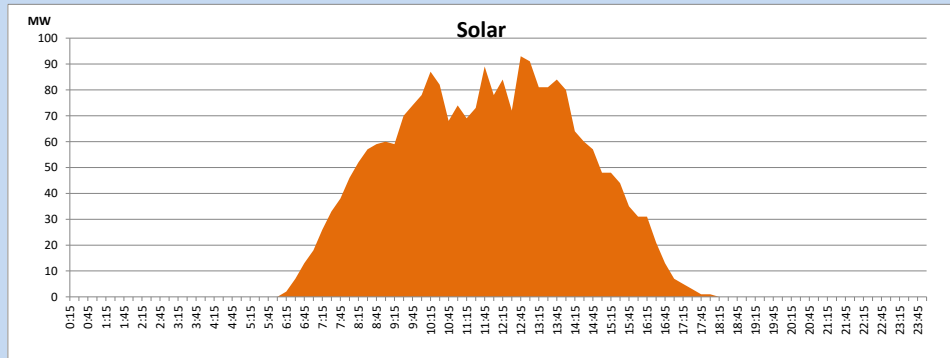
Wind Generation during August 10, 2024

Based on Telemetered Power Stations only



Solar Generation during August 10, 2024

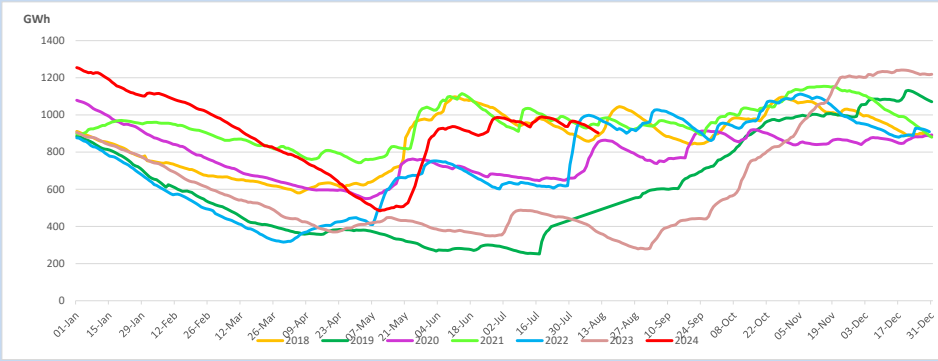
Based on Telemetered Power Stations only



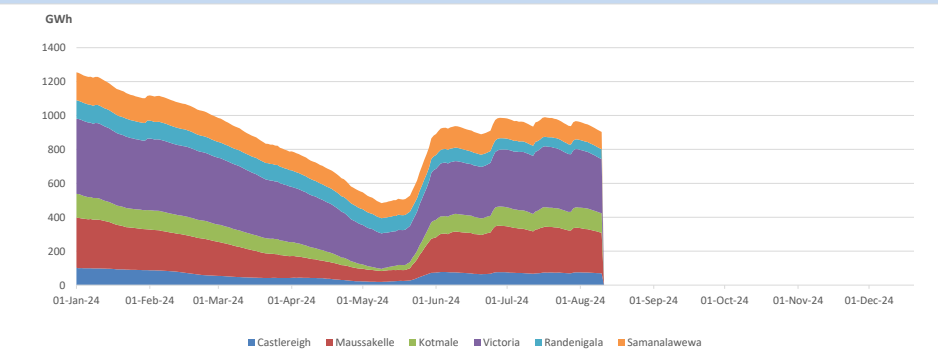
1.14 Major Incidents reported during the day August 10, 2024

- 1) Kotmale unit 01 which had been released for A/M and runner coupling bolt replacement from 02.05.2024, was made available at 21:29hrs.

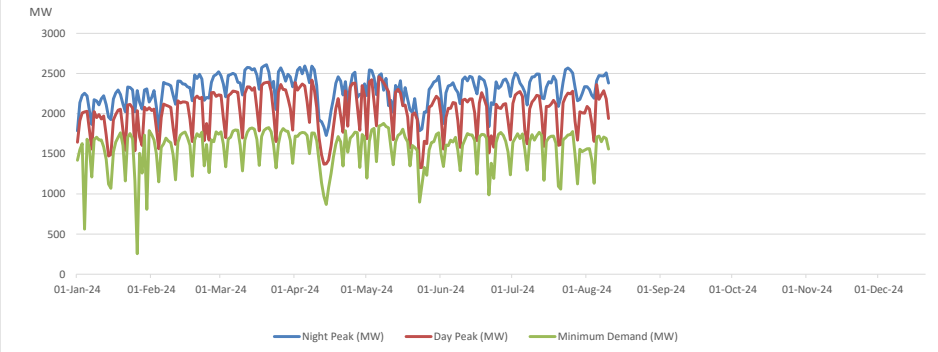
2. Comparison of Total Reservoir Storage Levels with Past Years



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

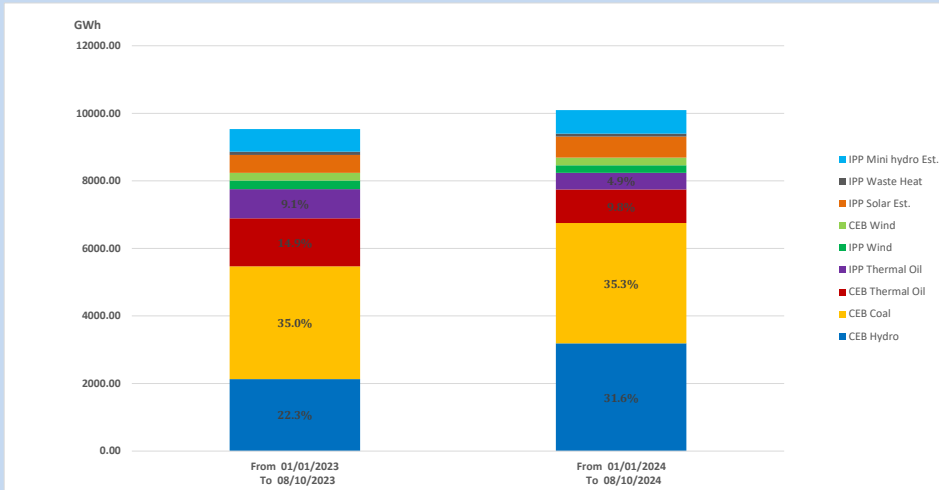


4. Variation of Demand during the current year



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 08/10/2023

9534 GWh

From 01/01/2024 To 08/10/2024

10097 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)	270
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 [Mar-2024]