

Generation and Reservoirs Statistics

August 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 9, 2024

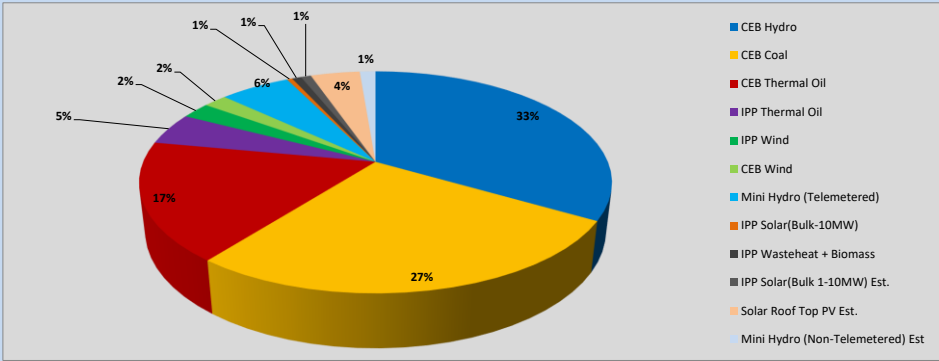


Table 01

	Generation (MWh)
CEB Hydro	15898
CEB Coal	12981
CEB Thermal Oil	8279
IPP Thermal Oil	2221
IPP Wind	1126
CEB Wind	925
Mini Hydro (Telemetered)	2736
IPP Solar (Bulk)	208
IPP Waste heat + Biomass	360
Total Generation (Excluding estimated figures)	44,734
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	613
* Estimated IPP Solar PV (Bulk 1-10MW)	396
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	47,663

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	155	37.02%
CEB Coal	117	27.81%
CEB Thermal Oil	59	14.06%
IPP Thermal	13	3.16%
SPP Wind	9	2.14%
CEB Wind	10	2.33%
Mini Hydro *	30	7.25%
IPP Solar *	23	5.51%
IPP Waste heat + BMP	3	0.72%
Total	419	

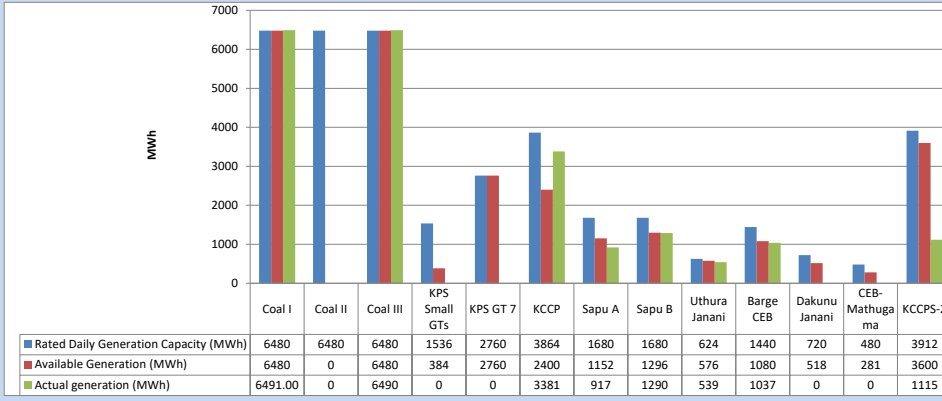
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,172	31.56%
CEB Coal	3,551	35.32%
CEB Thermal Oil	989	9.84%
IPP Thermal	489	4.86%
SPP Wind	222	2.21%
CEB Wind	226	2.25%
Mini Hydro *	695	6.91%
IPP Solar *	618	6.15%
IPP Waste heat	90	0.89%
Total	10,052	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 9, 2024

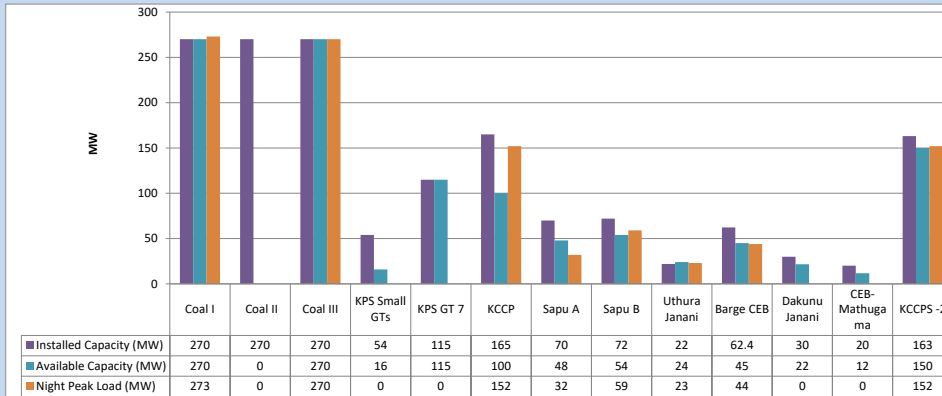


Available Generation is estimated based on plant availability at 6.00am on

August 10, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 9, 2024

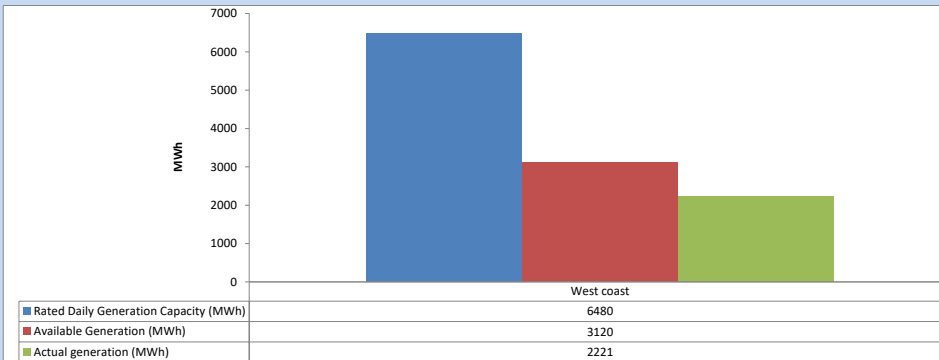


Plant availability is recorded at 6.00 am on

August 10, 2024

1.4 IPP owned Thermal Plant Dispatch

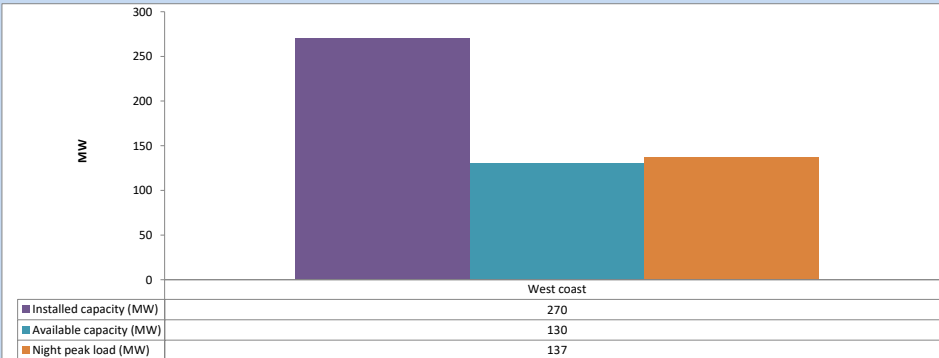
August 9, 2024



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

August 10, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

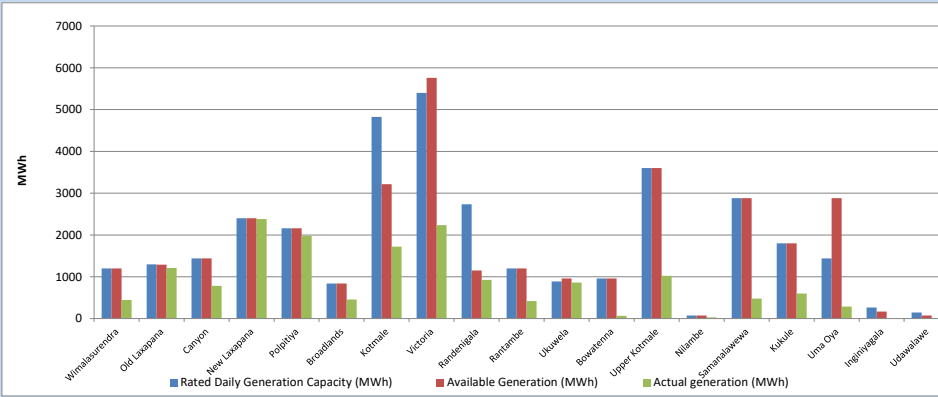


Plant availability is recorded at 6.00 am on

August 10, 2024

1.6 Major Hydro Plant Dispatch

August 9, 2024

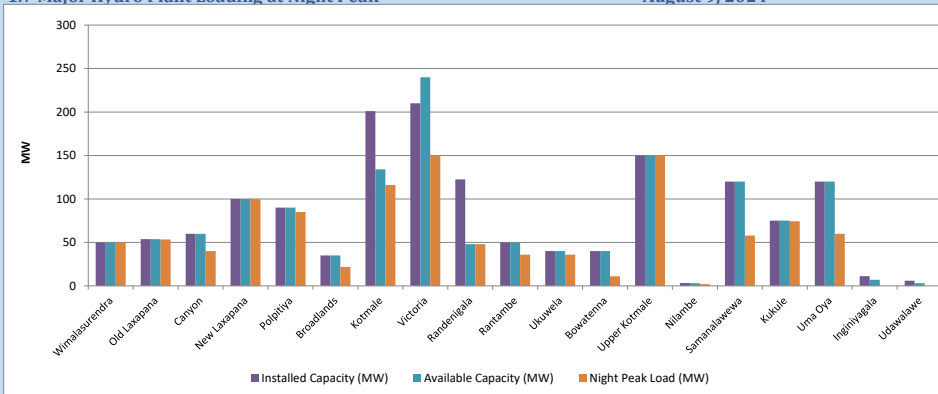


Available Generation is estimated based on plant availability at 6.00am on

August 10, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 9, 2024



Plant availability is recorded at 6.00 am on

August 10, 2024

1.8 Summary of Major Plant performance

August 9, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	446
Old Laxapana	54	54	53	1,209
Canyon	60	60	40	783
New Laxapana	100	100	100	2,380
Polpitiya	90	90	85	1,980
Broadlands	35	35	22	456
Kotmale	201	134	116	1,720
Victoria	210	240	150	2,235
Randenigala	123	48	48	926
Rantambe	50	50	36	418
Ukuwela	40	40	36	862
Bowatenna	40	40	11	66
Upper Kotmale	150	150	150	1,022
Nilambe	3	3	2	28
Samanalawewa	120	120	58	480
Kukule	75	75	74	599
Uma Oya	120	120	60	289
Inginipigala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	273	6,491
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,490
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	100	152	3,381
Sapugaskanda A	70	48	32	917
Sapugaskanda B	72	54	59	1,290
Uthura Janani	22	24	23	539
Barge CEB	62	45	44	1,037
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	1,115
West Coast	270	130	137	2,221
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,674	2,494	44,735

Note-

Plant availability is the availability recorded at 6 am on

August 10, 2024

1.9 Contribution to the Night Peak in MW

August 9, 2024

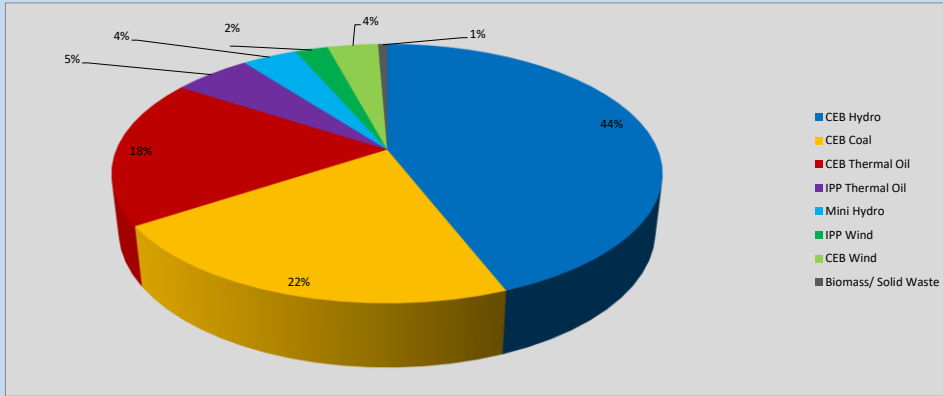


Table 05

CEB Hydro	1105	MW
CEB Coal	543	MW
CEB Thermal Oil	462	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	97	MW
IPP Wind	58	MW
CEB Wind	88.9	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

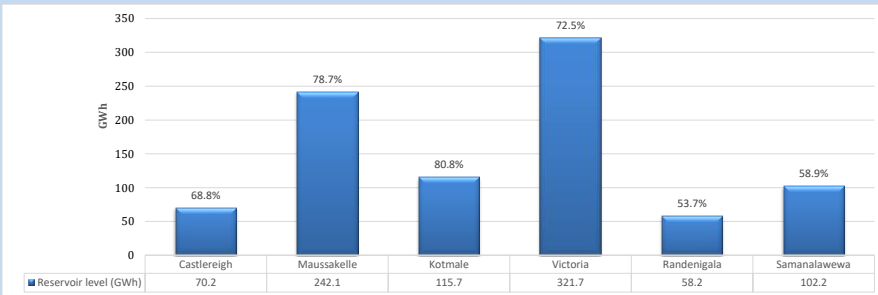
Table 06

Night Peak*	2,507	MW
Day Peak Maximum Demand	2,184	MW
Day Peak Minimum Demand	1,691	MW
Off Peak Minimum Demand	1,492	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 10, 2024



Total Reservoir Level
910.1 GWh
% of Total capacity
71.2%

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

August 9, 2024

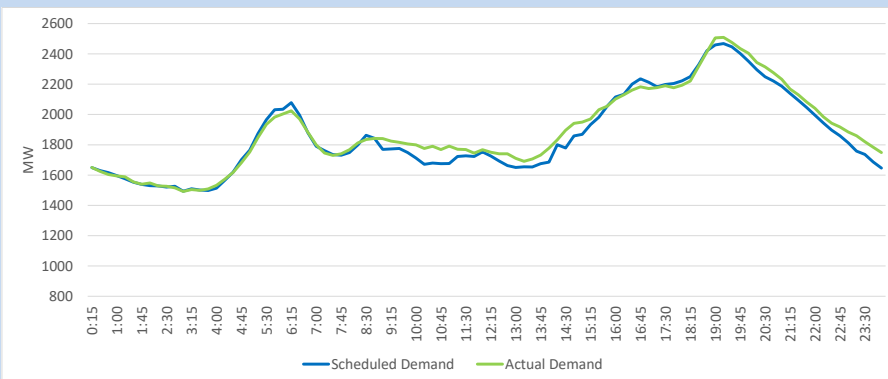
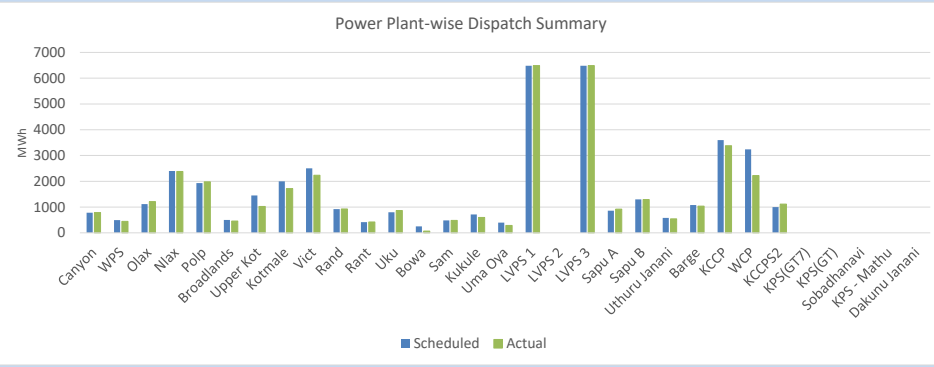


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,141	15,871	-1270
CEB Coal	12,960	12,982	22
CEB Thermal Oil	8,409	8,280	-129
IPP Thermal Oil	3,240	2,221	-1019
NCRE (Telemetered)	3,011	5,351	2340
Total	44,760	44,704	-56

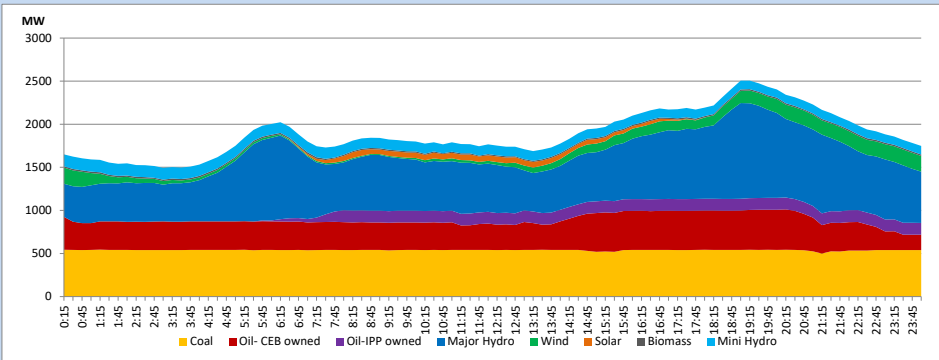
1.12 Power Plant-wise Dispatch Summary

August 9, 2024



1.13 Daily Load Curve

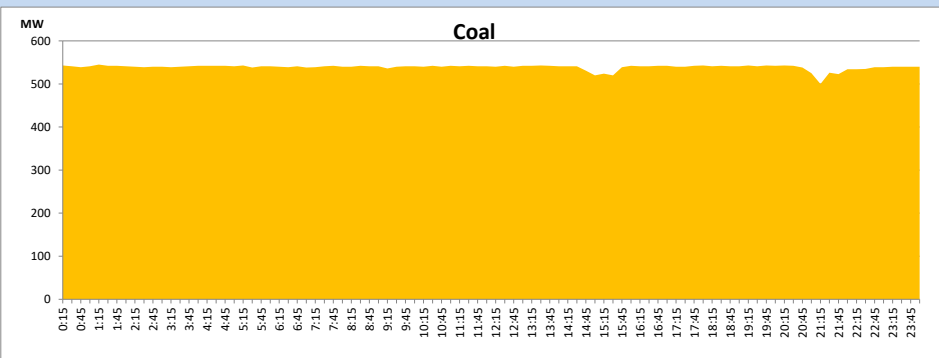
August 9, 2024



Solar and wind data is based on Telemetered Power Stations only

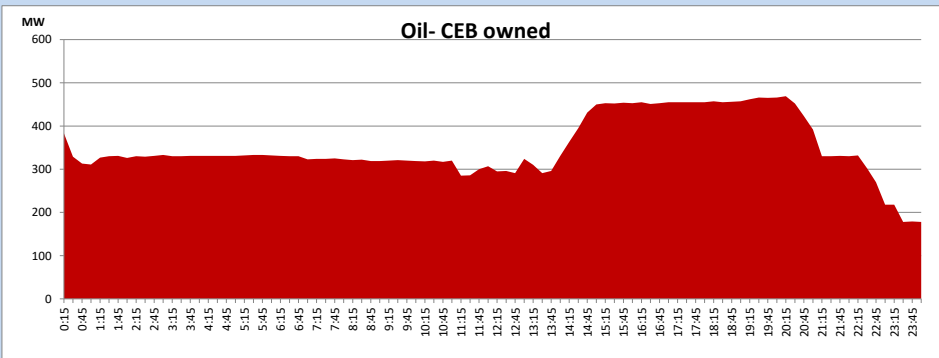
Coal Generation during

August 9, 2024

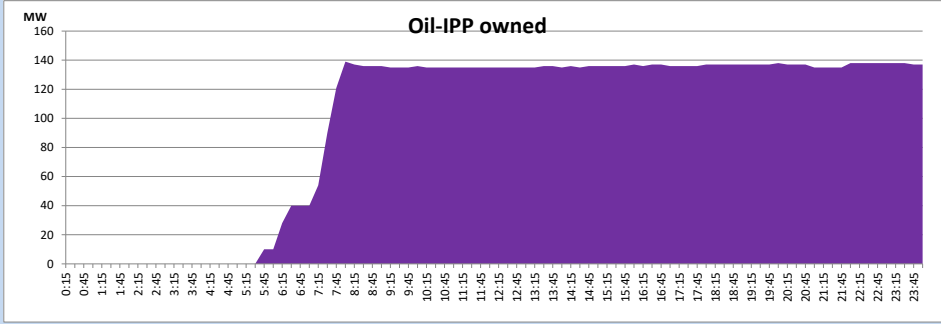


CEB Oil Plant Generation during

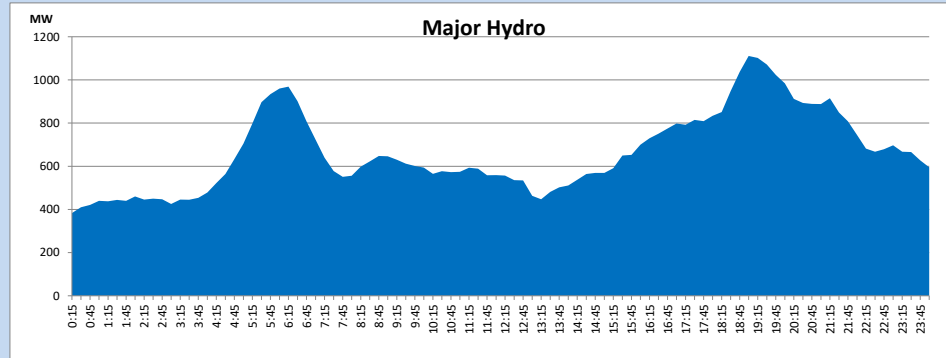
August 9, 2024



IPP Oil Plant Generation during August 9, 2024

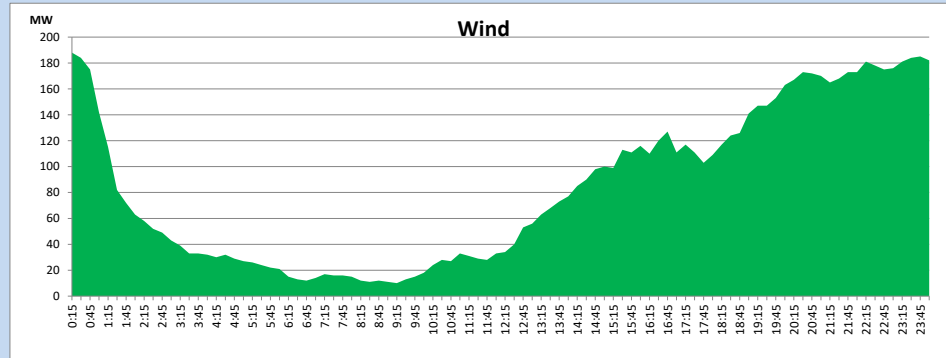


Major Hydro Generation during August 9, 2024



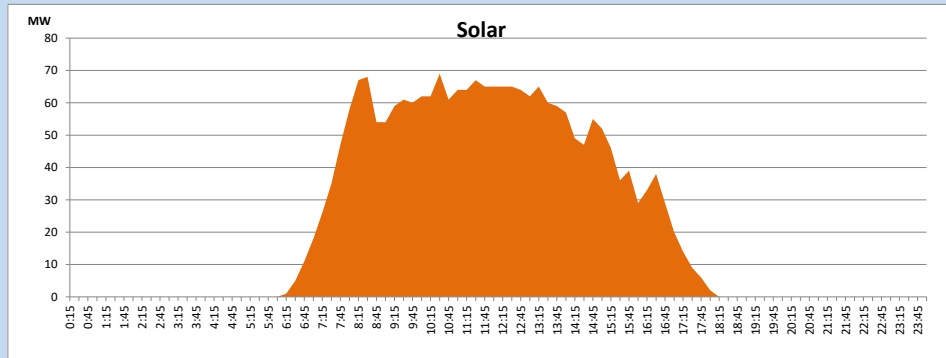
Wind Generation during August 9, 2024

Based on Telemetered Power Stations only



Solar Generation during August 9, 2024

Based on Telemetered Power Stations only

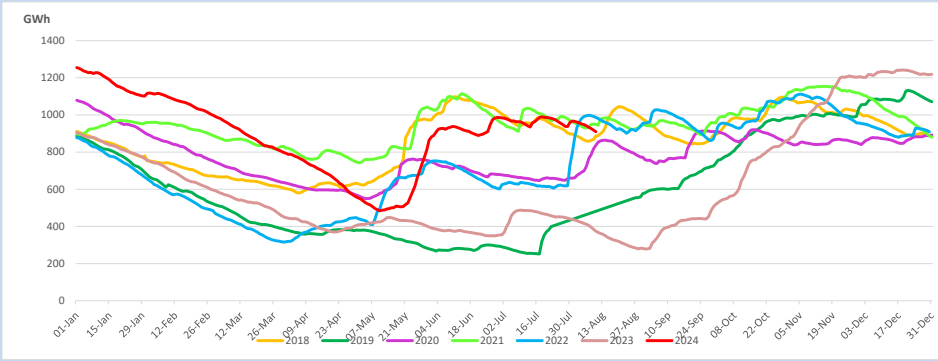


1.14 Major Incidents reported during the day August 9, 2024

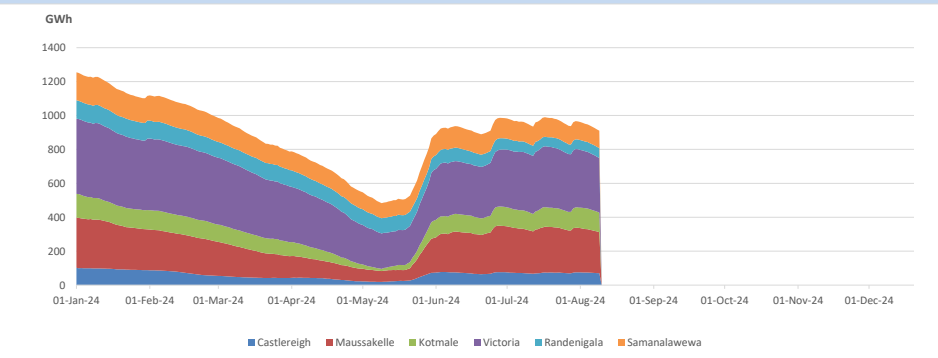
Net system Daily Inflow GWh
Major Incidents

Nil.

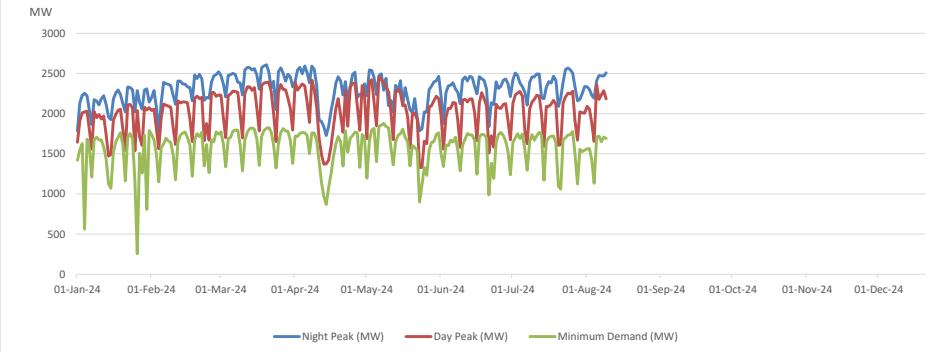
2. Comparison of Total Reservoir Storage Levels with Past Years



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

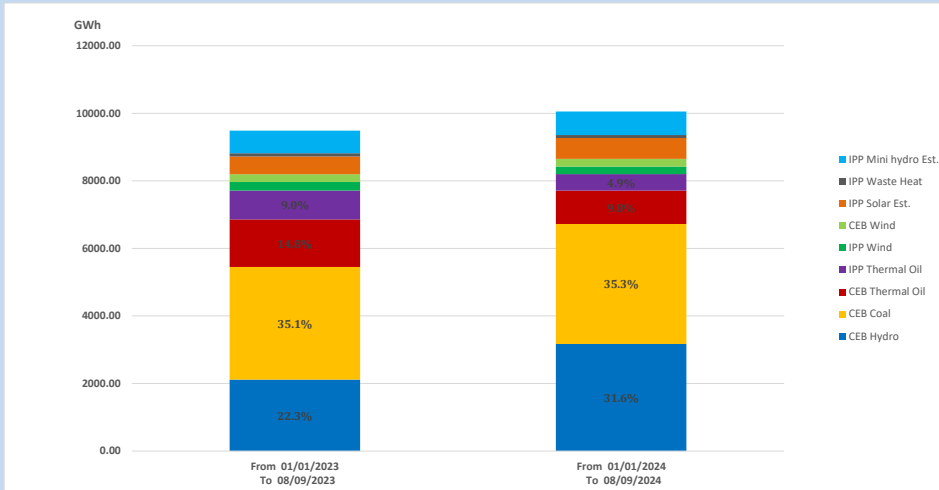


4. Variation of Demand during the current year



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 08/09/2023

9486 GWh

From 01/01/2024 To 08/09/2024

10052 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]