

Generation and Reservoirs Statistics

August 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 23, 2024

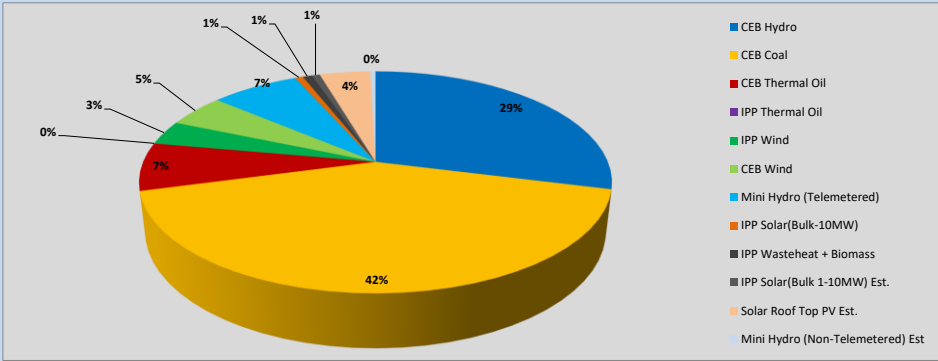


Table 01

	Generation (MWh)
CEB Hydro	13411
CEB Coal	19427
CEB Thermal Oil	3240
IPP Thermal Oil	1
IPP Wind	1646
CEB Wind	2222
Mini Hydro (Telemetered)	3338
IPP Solar (Bulk)	303
IPP Waste heat + Biomass	349
Total Generation (Excluding estimated figures)	43,937
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	201
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	46,362

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	343	32.77%
CEB Coal	350	33.51%
CEB Thermal Oil	118	11.31%
IPP Thermal	27	2.54%
SPP Wind	27	2.54%
CEB Wind	32	3.06%
Mini Hydro *	84	8.03%
IPP Solar *	58	5.58%
IPP Waste heat + BMP	7	0.65%
Total	1,045	

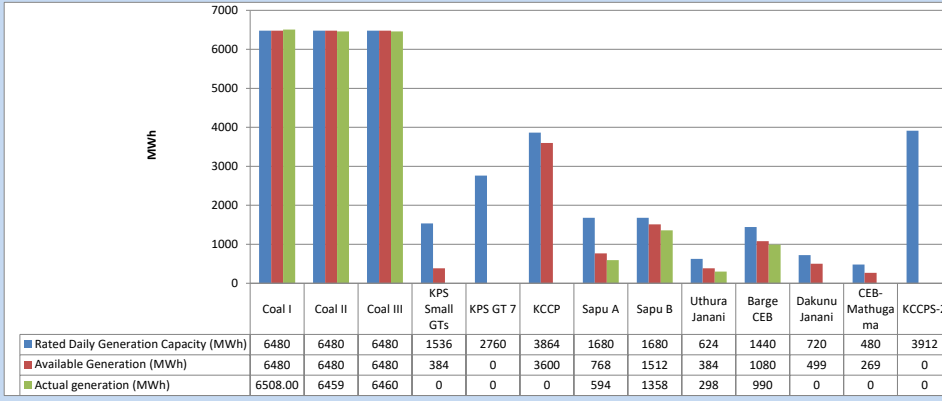
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,356	31.38%
CEB Coal	3,725	34.83%
CEB Thermal Oil	1,102	10.30%
IPP Thermal	502	4.70%
SPP Wind	244	2.28%
CEB Wind	247	2.31%
Mini Hydro *	771	7.21%
IPP Solar *	653	6.11%
IPP Waste heat	96	0.89%
Total	10,697	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 23, 2024

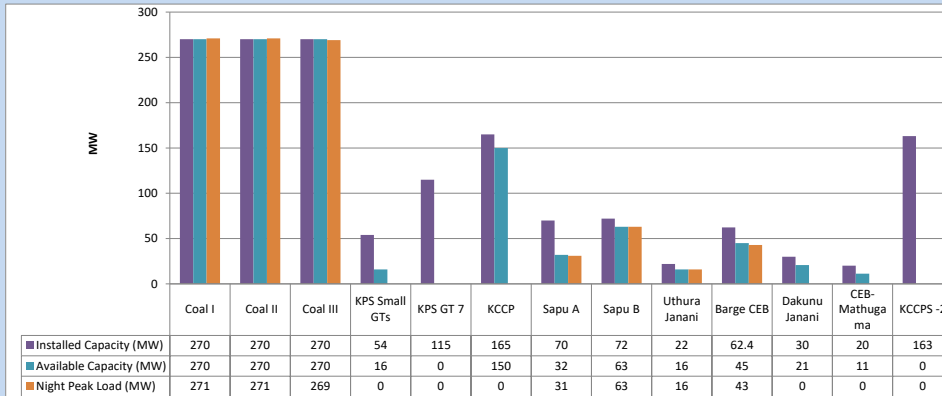


Available Generation is estimated based on plant availability at 6.00am on

August 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 23, 2024

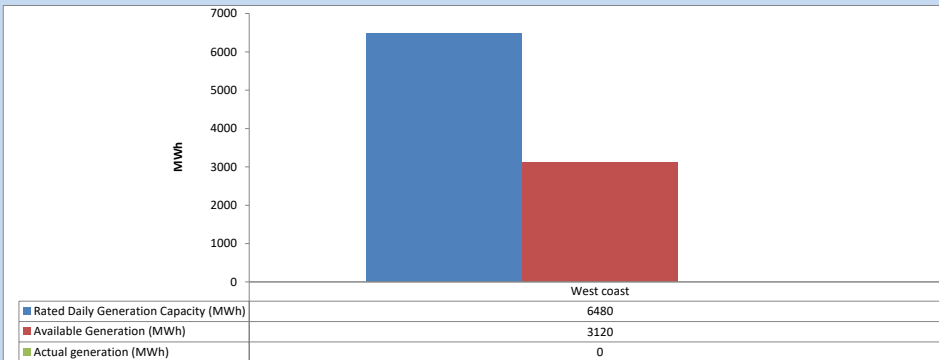


Plant availability is recorded at 6.00 am on

August 24, 2024

1.4 IPP owned Thermal Plant Dispatch

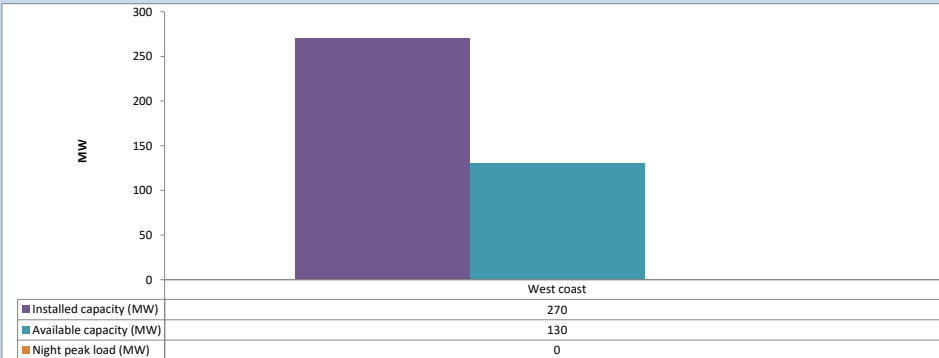
August 23, 2024



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

August 24, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

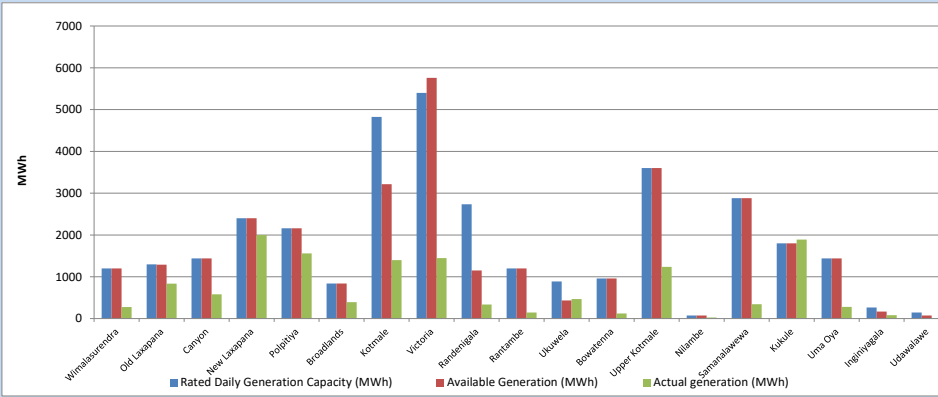


Plant availability is recorded at 6.00 am on

August 24, 2024

1.6 Major Hydro Plant Dispatch

August 23, 2024

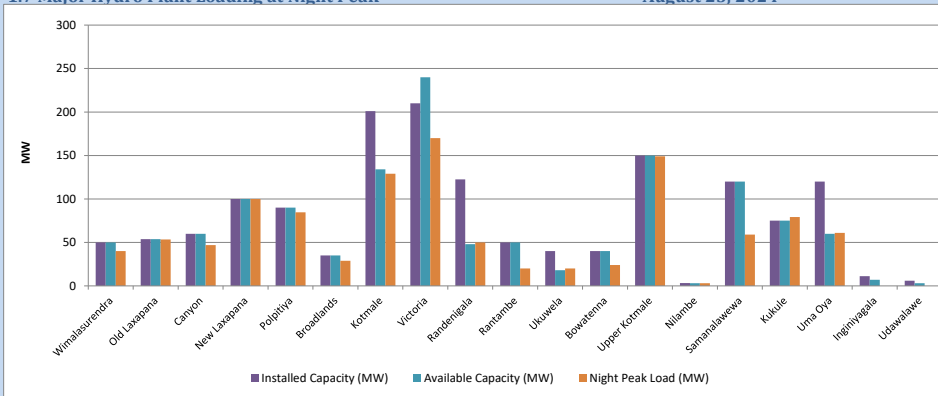


Available Generation is estimated based on plant availability at 6.00am on

August 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 23, 2024



Plant availability is recorded at 6.00 am on

August 24, 2024

1.8 Summary of Major Plant performance

August 23, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	276
Old Laxapana	54	54	54	837
Canyon	60	60	47	579
New Laxapana	100	100	100	1,998
Polpitiya	90	90	85	1,560
Broadlands	35	35	29	393
Kotmale	201	134	129	1,400
Victoria	210	240	170	1,448
Randenigala	123	48	50	337
Rantambe	50	50	20	146
Ukuwela	40	18	20	467
Bowatenna	40	40	24	123
Upper Kotmale	150	150	149	1,235
Nilambe	3	3	3	24
Samanalawewa	120	120	59	342
Kukule	75	75	79	1,889
Uma Oya	120	60	61	278
Inginipigala	11	7	0	79
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,508
Puttalam Coal II	270	270	271	6,459
Puttalam Coal III	270	270	269	6,460
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	31	594
Sapugaskanda B	72	63	63	1,358
Uthura Janani	22	16	16	298
Barge CEB	62	45	43	990
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	130	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	1
Total	3,594	2,631	2,397	43,937

Note-

Plant availability is the availability recorded at 6 am on

August 24, 2024

1.9 Contribution to the Night Peak in MW

August 23, 2024

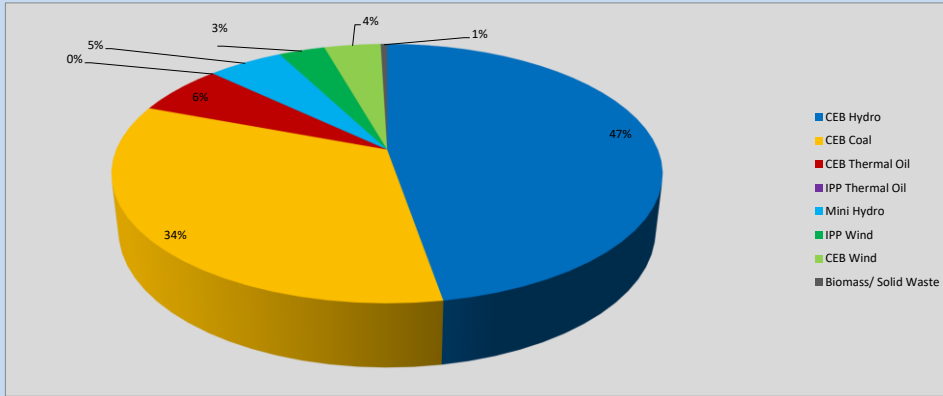


Table 05

CEB Hydro	1147	MW
CEB Coal	811	MW
CEB Thermal Oil	153	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	129	MW
IPP Wind	78.8	MW
CEB Wind	96.1	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

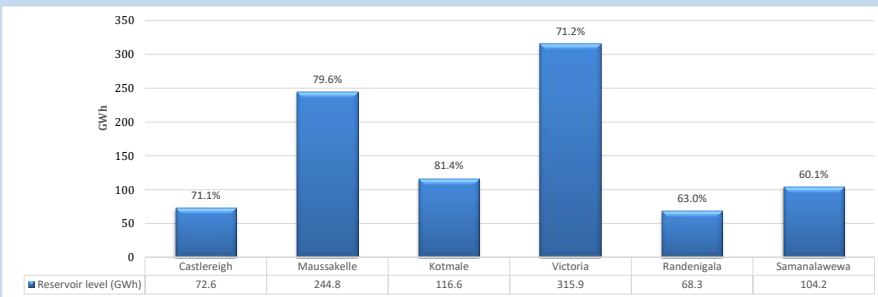
Table 06

Night Peak*	2,426	MW
Day Peak Maximum Demand	2,225	MW
Day Peak Minimum Demand	1,653	MW
Off Peak Minimum Demand	1,415	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 24, 2024



Total Reservoir Level
% of Total capacity

922.4 GWh
72.2%

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

August 23, 2024

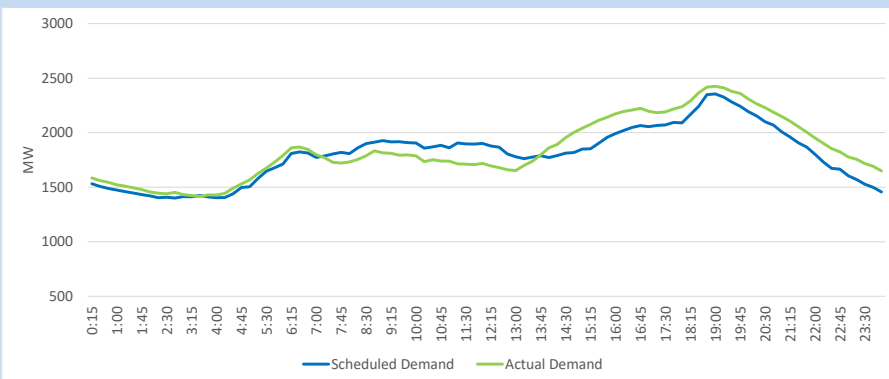
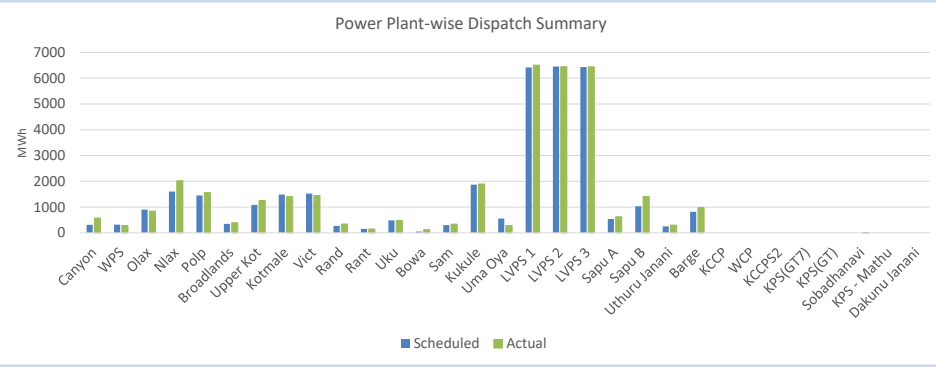


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,699	13,376	676
CEB Coal	19,302	19,390	88
CEB Thermal Oil	2,632	3,309	678
IPP Thermal Oil		2	2
NCRE (Telemetered)	8,595	8,154	(440)
Total	43,228	44,231	1004

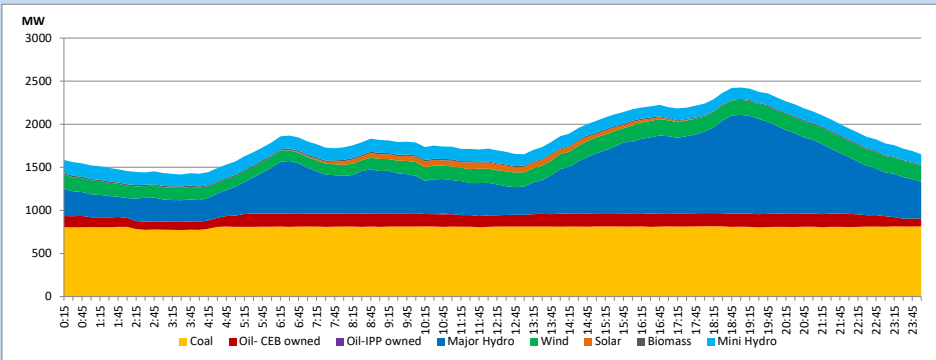
1.12 Power Plant-wise Dispatch Summary

August 23, 2024



1.13 Daily Load Curve

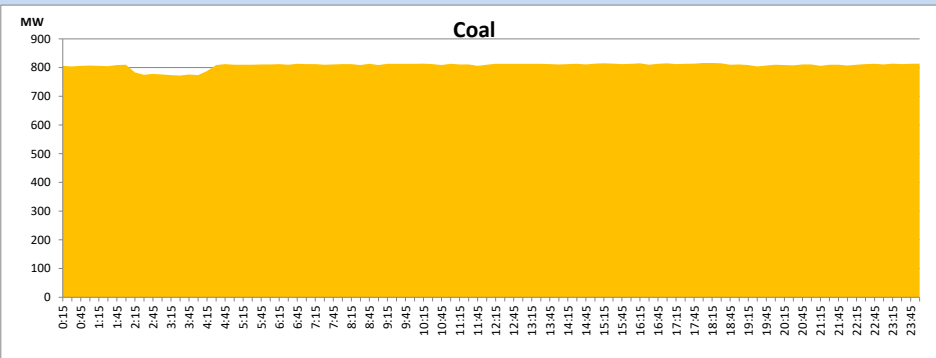
August 23, 2024



Solar and wind data is based on Telemetered Power Stations only

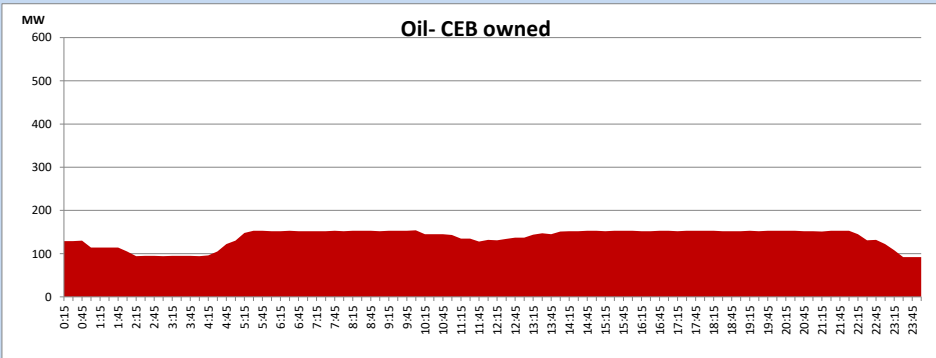
Coal Generation during

August 23, 2024

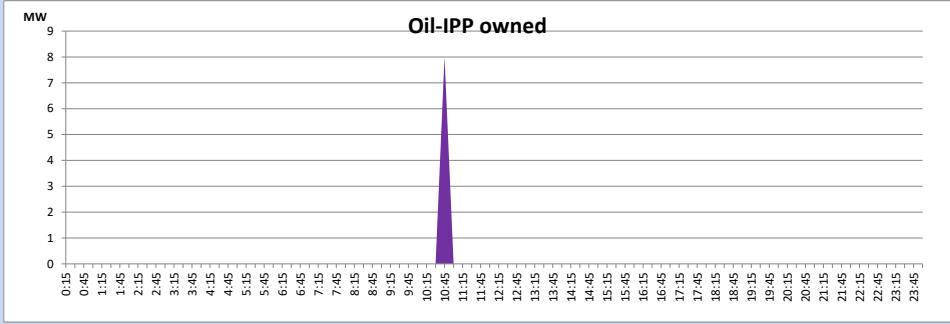


CEB Oil Plant Generation during

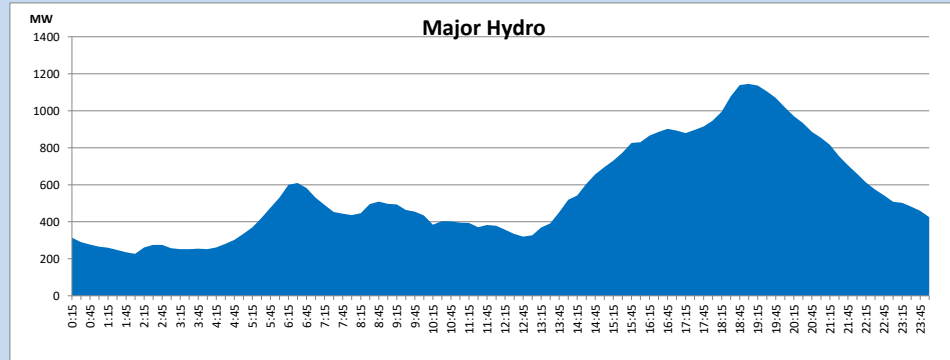
August 23, 2024



IPP Oil Plant Generation during August 23, 2024

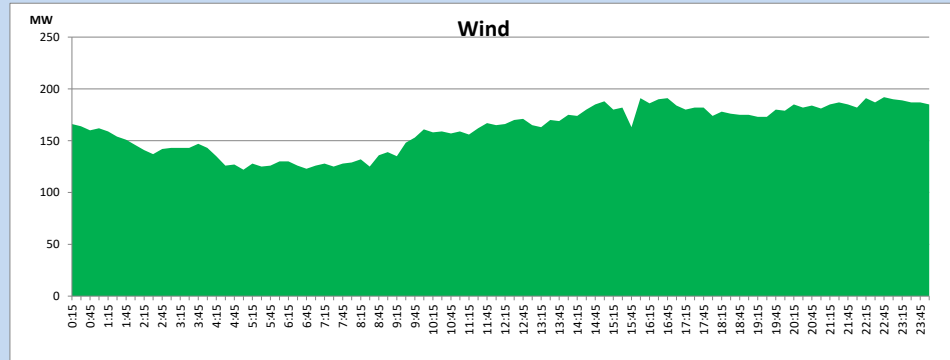


Major Hydro Generation during August 23, 2024



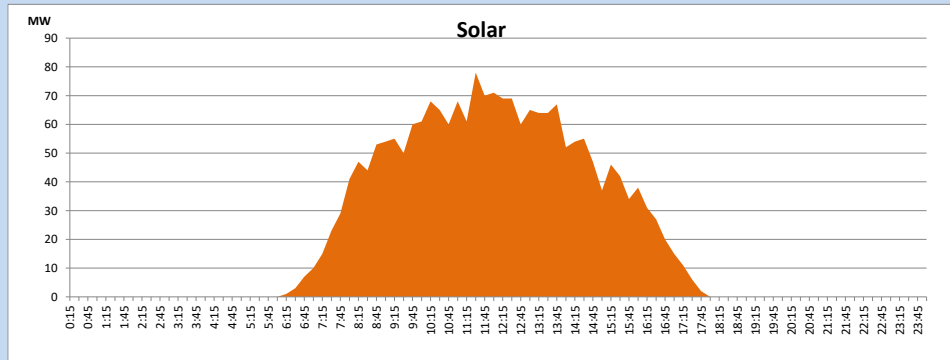
Wind Generation during August 23, 2024

Based on Telemetered Power Stations only



Solar Generation during August 23, 2024

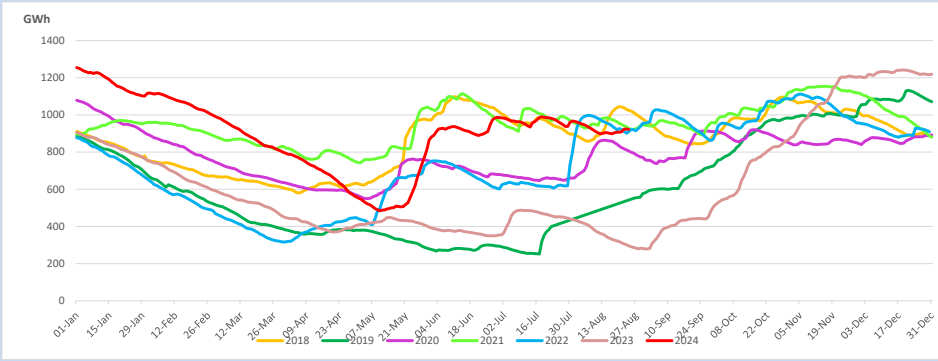
Based on Telemetered Power Stations only



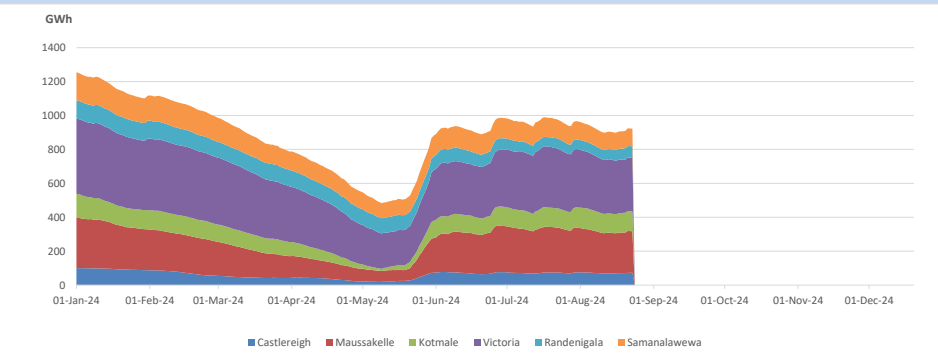
1.14 Major Incidents reported during the day August 23, 2024

- 1) New Chilaw 220/132kV T/F 02 tripped from both sides at 17:08hrs. The T/F was restored at 17:54hrs.
- 2) Kukul pond spilling stopped at 22:50hrs.

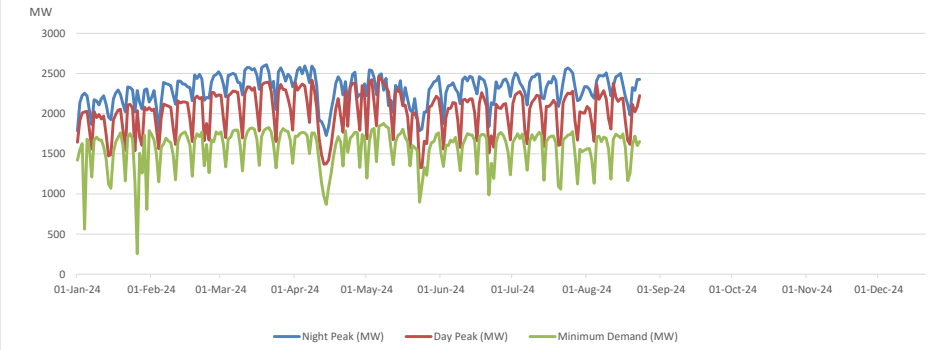
2. Comparison of Total Reservoir Storage Levels with Past Years



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

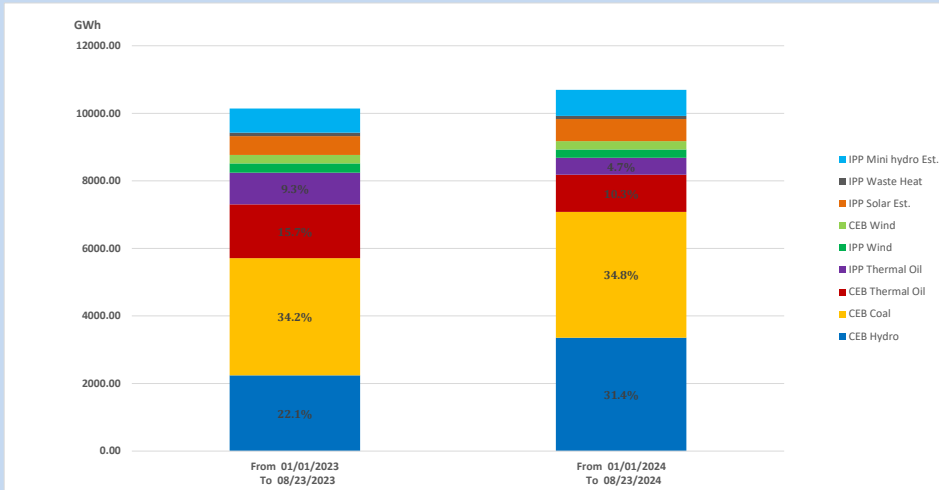


4. Variation of Demand during the current year



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 08/23/2023

10143 GWh

From 01/01/2024 To 08/23/2024

10697 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]