

Generation and Reservoirs Statistics

August 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 14, 2024

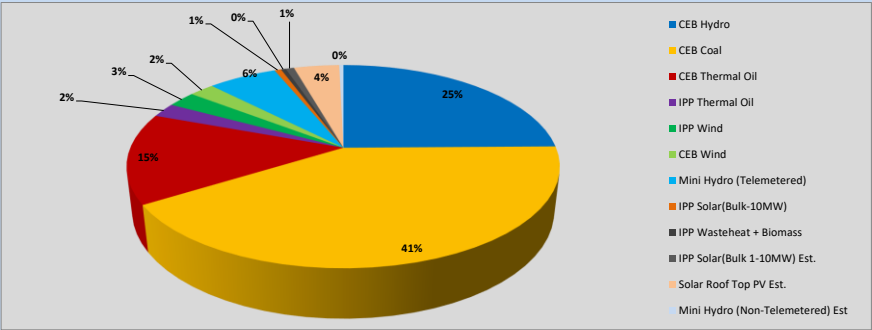


Table 01

	Generation (MWh)
CEB Hydro	11749
CEB Coal	19616
CEB Thermal Oil	6855
IPP Thermal Oil	1080
IPP Wind	1198
CEB Wind	1058
Mini Hydro (Telemetered)	2915
IPP Solar (Bulk)	282
IPP Waste heat + Biomass	202
Total Generation (Excluding estimated figures)	44,955
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	176
* Estimated IPP Solar PV (Bulk 1-10MW)	355
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	47,406

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	225	34.79%
CEB Coal	189	29.16%
CEB Thermal Oil	95	14.64%
IPP Thermal	26	4.00%
SPP Wind	13	1.95%
CEB Wind	13	2.04%
Mini Hydro *	46	7.15%
IPP Solar *	36	5.53%
IPP Waste heat + BMP	5	0.73%
Total	648	

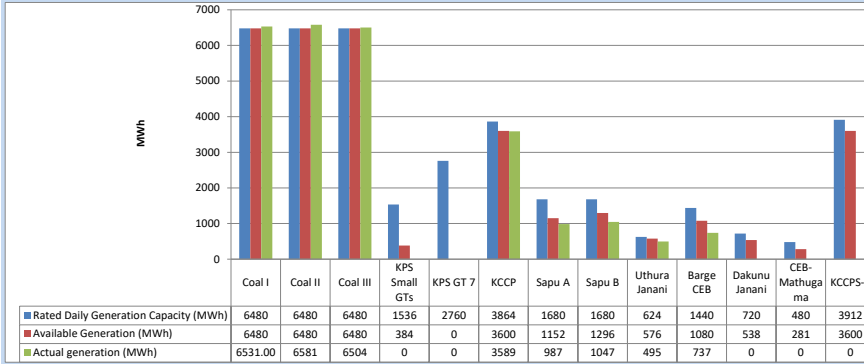
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,239	31.45%
CEB Coal	3,564	34.60%
CEB Thermal Oil	1,078	10.47%
IPP Thermal	502	4.87%
SPP Wind	230	2.24%
CEB Wind	228	2.21%
Mini Hydro *	733	7.12%
IPP Solar *	631	6.13%
IPP Waste heat	94	0.91%
Total	10,299	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 14, 2024

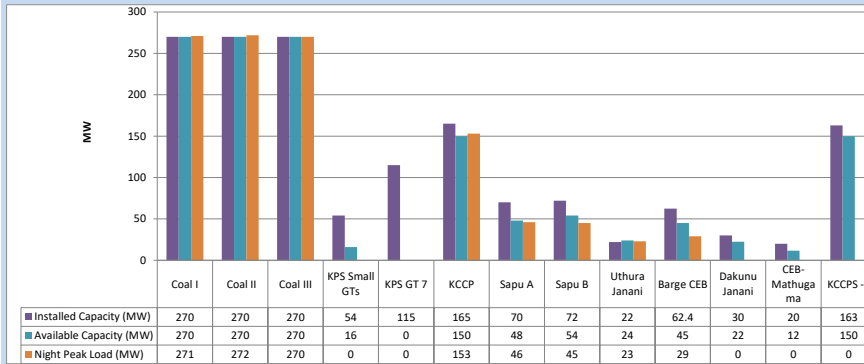


Available Generation is estimated based on plant availability at 6.00am on

August 15, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 14, 2024

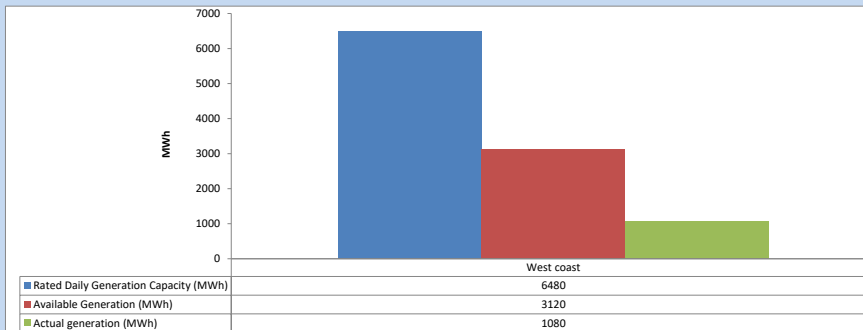


Plant availability is recorded at 6.00 am on

August 15, 2024

1.4 IPP owned Thermal Plant Dispatch

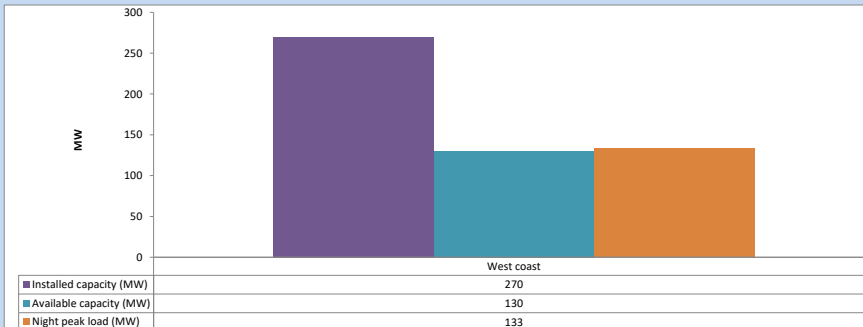
August 14, 2024



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

August 15, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

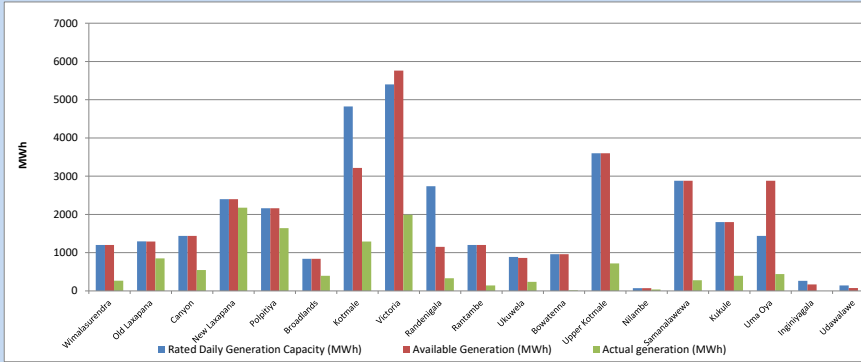


Plant availability is recorded at 6.00 am on

August 15, 2024

1.6 Major Hydro Plant Dispatch

August 14, 2024

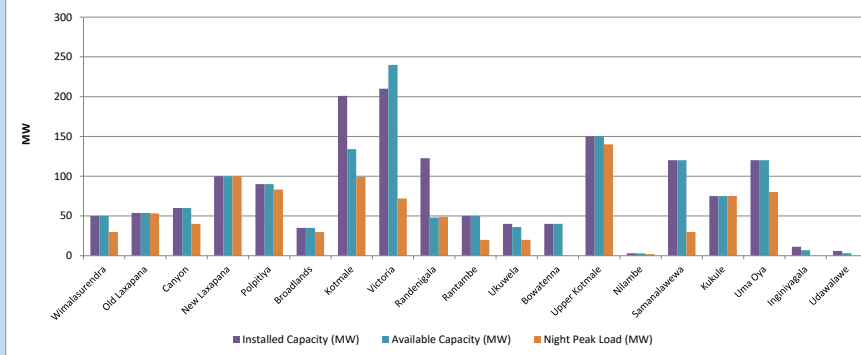


Available Generation is estimated based on plant availability at 6.00am on

August 15, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 14, 2024



Plant availability is recorded at 6.00 am on

August 15, 2024

1.8 Summary of Major Plant performance

August 14, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	266
Old Laxapana	54	54	53	851
Canyon	60	60	40	545
New Laxapana	100	100	100	2,175
Polpitiya	90	90	83	1,640
Broadlands	35	35	30	394
Kotmale	201	134	99	1,290
Victoria	210	240	72	1,993
Randenigala	123	48	49	332
Rantambe	50	50	20	144
Ukuwela	40	36	20	236
Bowatenna	40	40	0	15
Upper Kotmale	150	150	140	719
Nilambe	3	3	2	38
Samanalawewa	120	120	30	278
Kukule	75	75	75	394
Uma Oya	120	120	80	442
Inginigala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,531
Puttalam Coal II	270	270	272	6,581
Puttalam Coal III	270	270	270	6,504
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	153	3,589
Sapugaskanda A	70	48	46	987
Sapugaskanda B	72	54	45	1,047
Uthura Janani	22	24	23	495
Barge CEB	62	45	29	737
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	0	0
West Coast	270	130	133	1,080
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,876	2,446	44,958

Note-

Plant availability is the availability recorded at 6 am on

August 15, 2024

1.9 Contribution to the Night Peak in MW

August 14, 2024

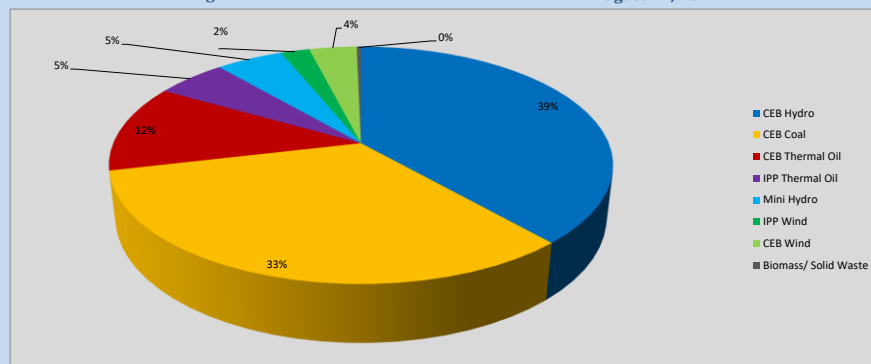


Table 05

CEB Hydro	952	MW
CEB Coal	813	MW
CEB Thermal Oil	296	MW
IPP Thermal Oil	133	MW
Mini Hydro (Telemetered)	128	MW
IPP Wind	54.5	MW
CEB Wind	90.3	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

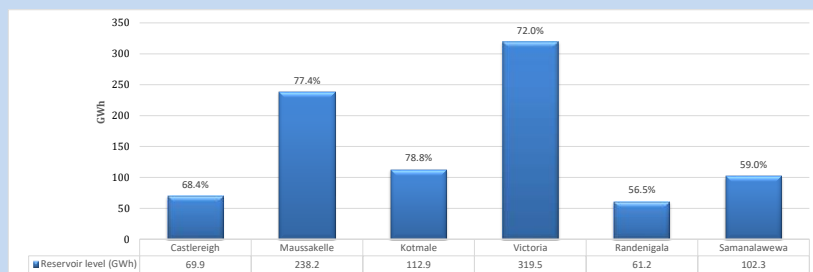
Table 06

Night Peak*	2,475	MW
Day Peak Maximum Demand	2,152	MW
Day Peak Minimum Demand	1,725	MW
Off Peak Minimum Demand	1,377	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 15, 2024



Total Reservoir Level
% of Total capacity

904 GWh
70.7%

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

August 14, 2024

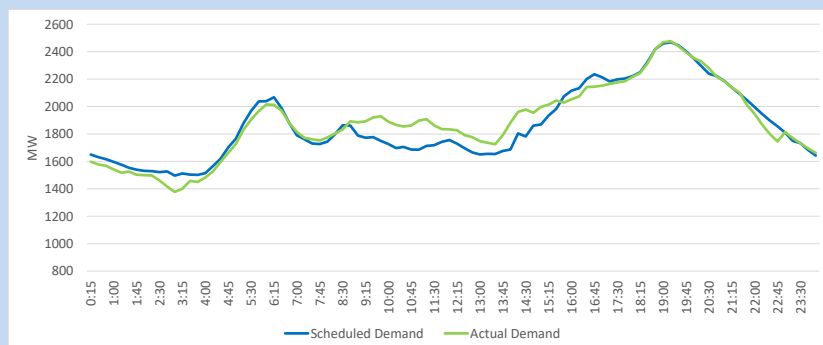
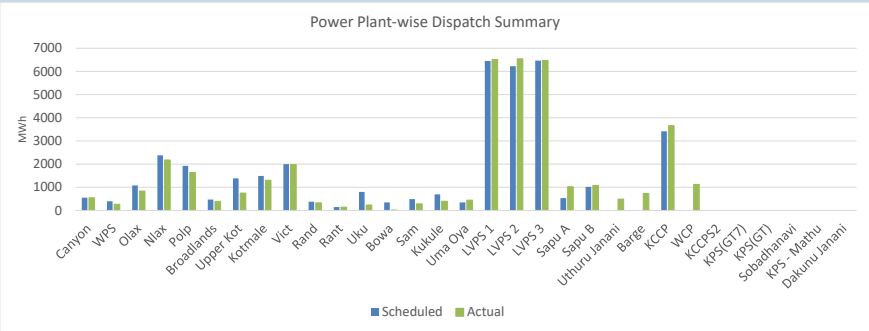


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,902	11,762	(3,140)
CEB Coal	19,147	19,527	381
CEB Thermal Oil	4,964	6,988	2,024
IPP Thermal Oil	-	1,123	1,123
NCRE (Telemetered)	5,775	5,782	7
Total	44,788	45,182	394

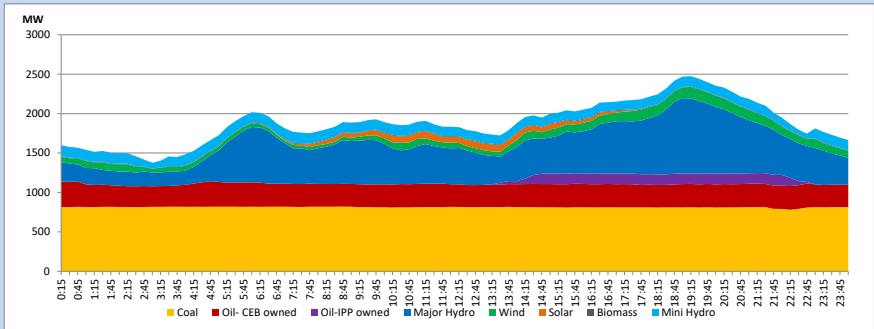
1.12 Power Plant-wise Dispatch Summary

August 14, 2024



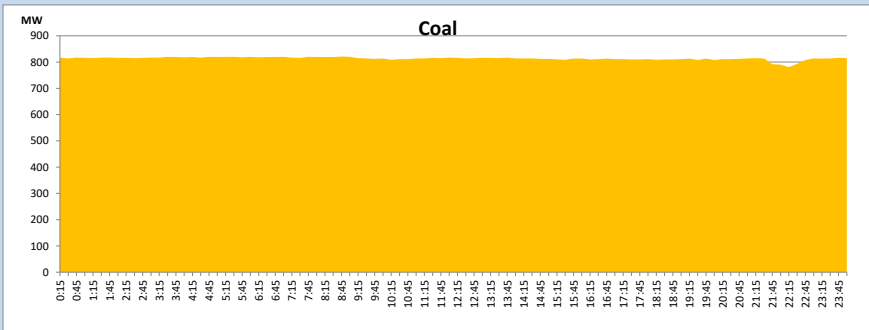
1.13 Daily Load Curve

August 14, 2024



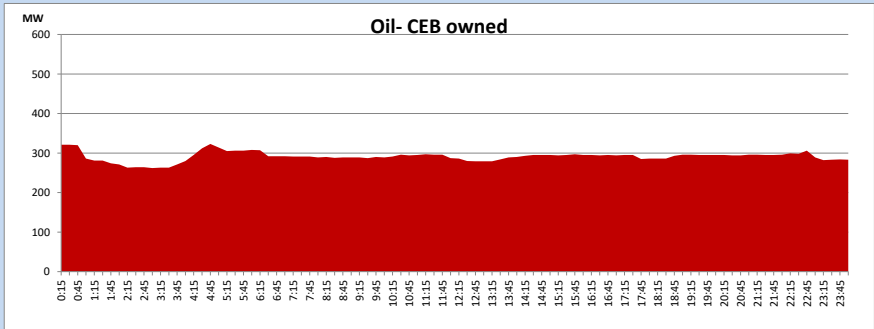
Coal Generation during

August 14, 2024



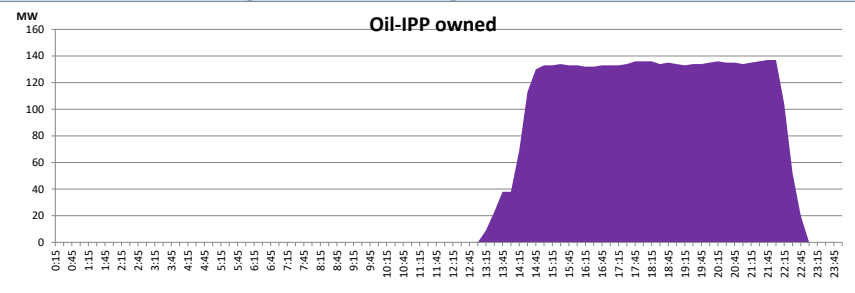
CEB Oil Plant Generation during

August 14, 2024



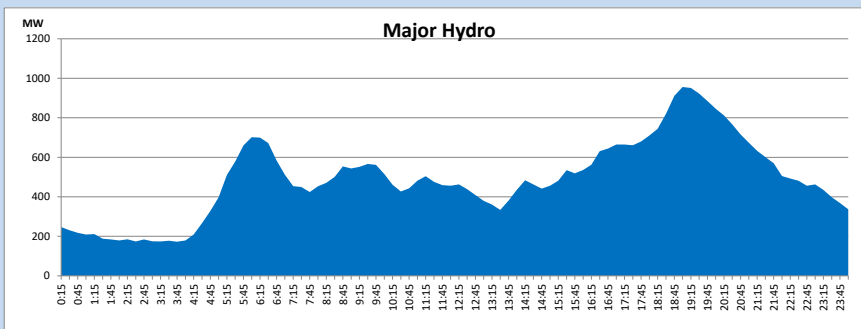
IPP Oil Plant Generation during

August 14, 2024



Major Hydro Generation during

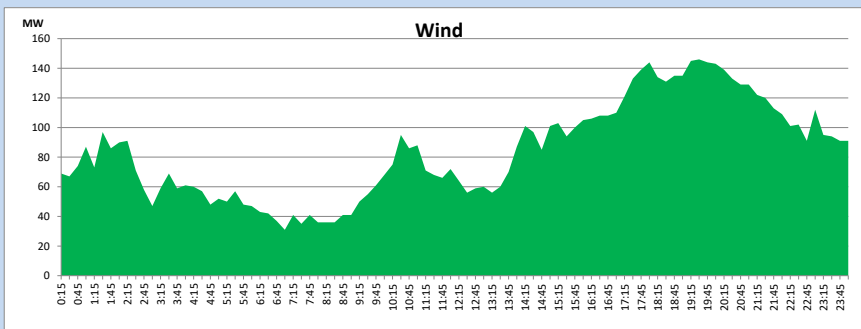
August 14, 2024



Wind Generation during

August 14, 2024

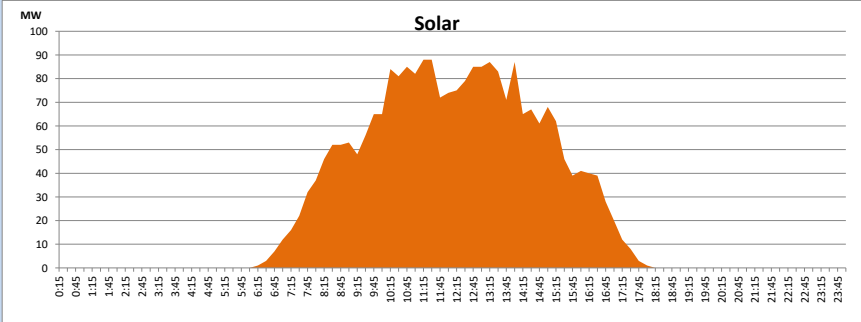
Based on Telemetered Power Stations only



Solar Generation during

August 14, 2024

Based on Telemetered Power Stations only

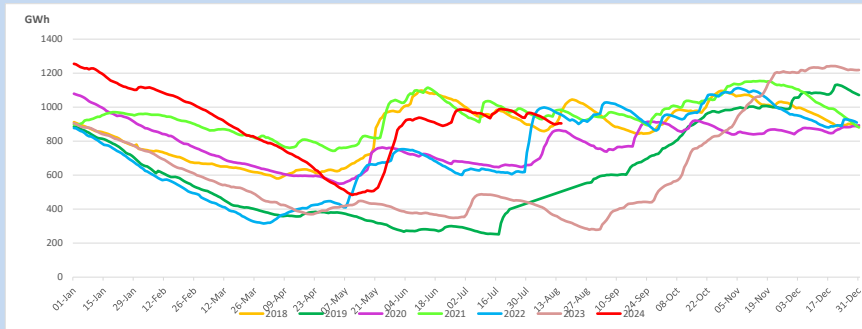


1.14 Major Incidents reported during the day

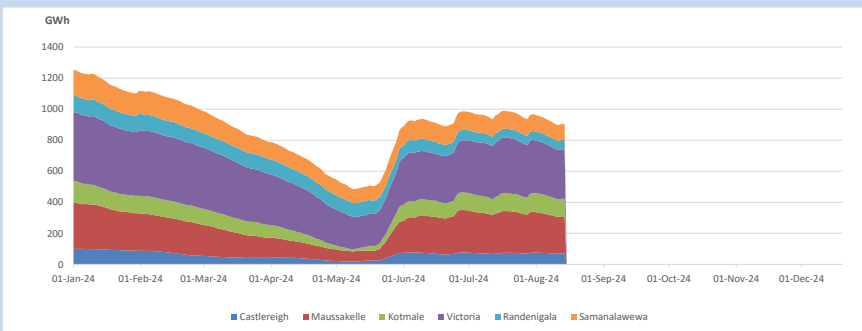
August 14, 2024

- 1) New Chillaw 220/132kV T/F 02 tripped from both ends at 11:10hrs without any indication. T/F 02 normalized at 11:59hrs.

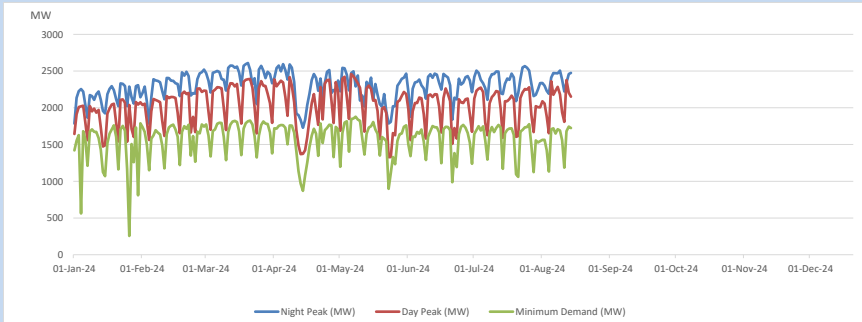
2. Comparison of Total Reservoir Storage Levels with Past Years



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

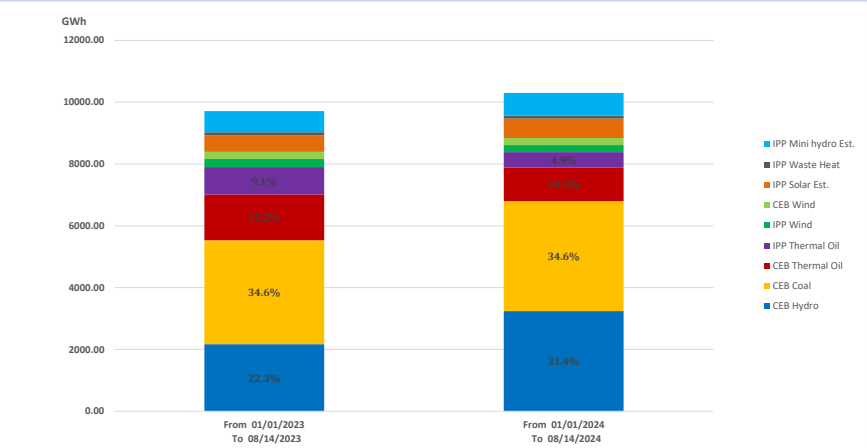


4. Variation of Demand during the current year



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 08/14/2023 9714 GWh
From 01/01/2024 To 08/14/2024 10299 GWh
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd 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]