

Generation and Reservoirs Statistics

August 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 1, 2024

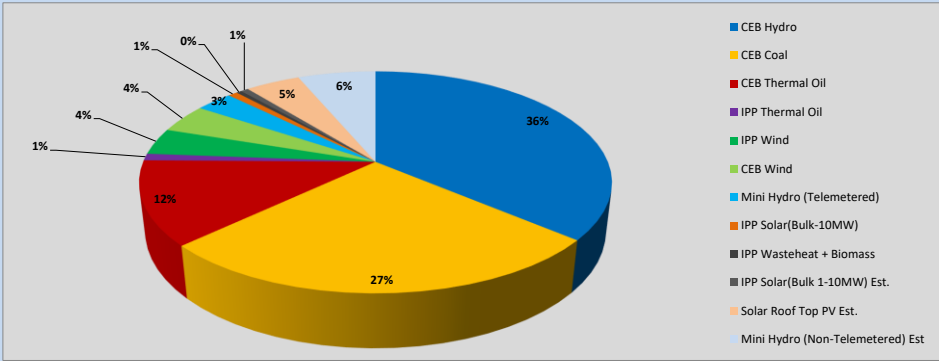


Table 01

	Generation (MWh)
CEB Hydro	17508
CEB Coal	12998
CEB Thermal Oil	5926
IPP Thermal Oil	480
IPP Wind	1875
CEB Wind	2040
Mini Hydro (Telemetered)	1470
IPP Solar (Bulk)	367
IPP Waste heat + Biomass	210
Total Generation (Excluding estimated figures)	42,874
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3079
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	48,427

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	18	36.16%
CEB Coal	13	26.84%
CEB Thermal Oil	6	12.24%
IPP Thermal	0	0.99%
SPP Wind	2	3.86%
CEB Wind	2	4.21%
Mini Hydro *	5	9.40%
IPP Solar *	3	5.86%
IPP Waste heat + BMP	0	0.43%
Total	48	

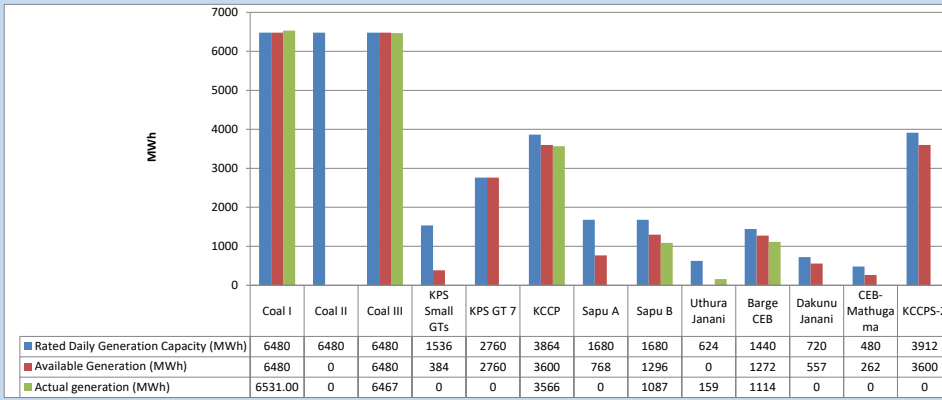
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,034	31.34%
CEB Coal	3,447	35.61%
CEB Thermal Oil	936	9.67%
IPP Thermal	476	4.92%
SPP Wind	215	2.22%
CEB Wind	218	2.25%
Mini Hydro *	669	6.91%
IPP Solar *	598	6.18%
IPP Waste heat	87	0.90%
Total	9,681	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 1, 2024

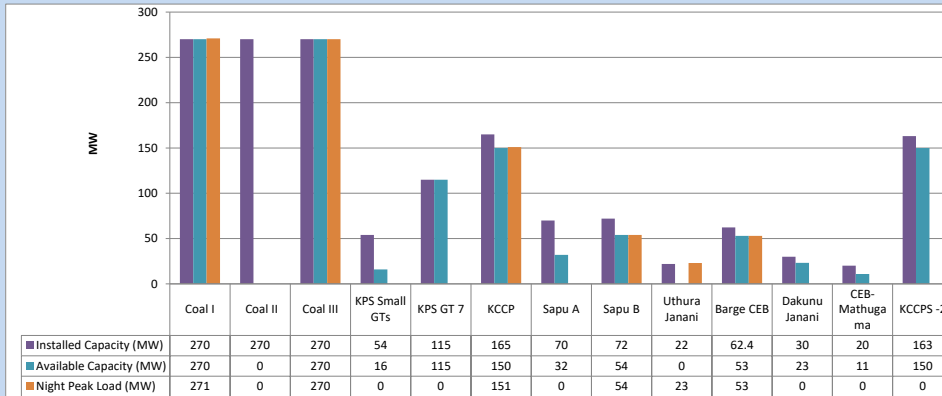


Available Generation is estimated based on plant availability at 6.00am on

August 2, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 1, 2024

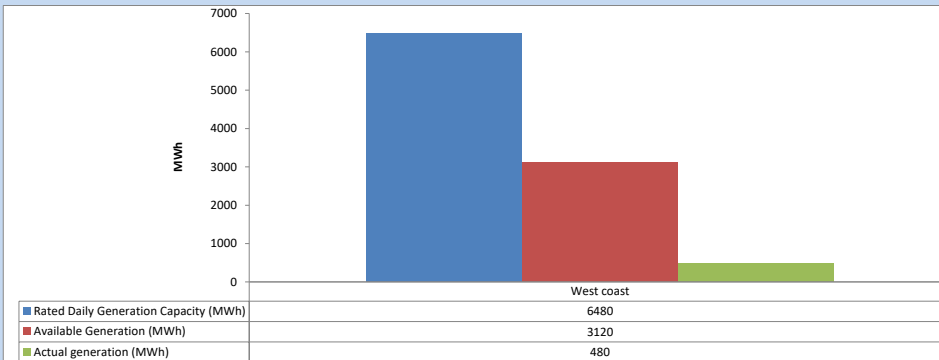


Plant availability is recorded at 6.00 am on

August 2, 2024

1.4 IPP owned Thermal Plant Dispatch

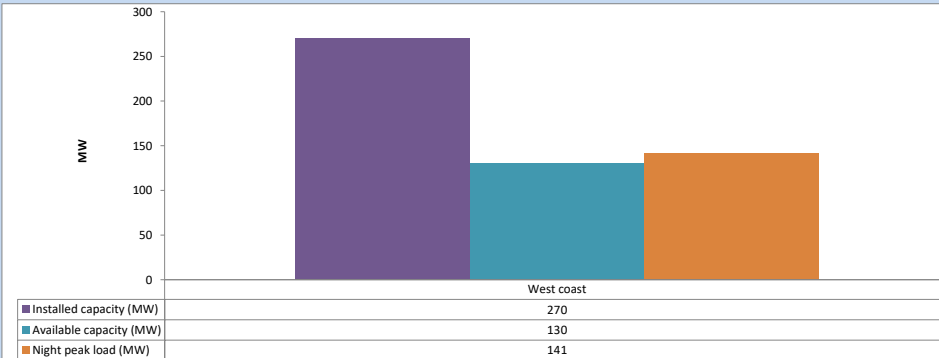
August 1, 2024



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

August 2, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

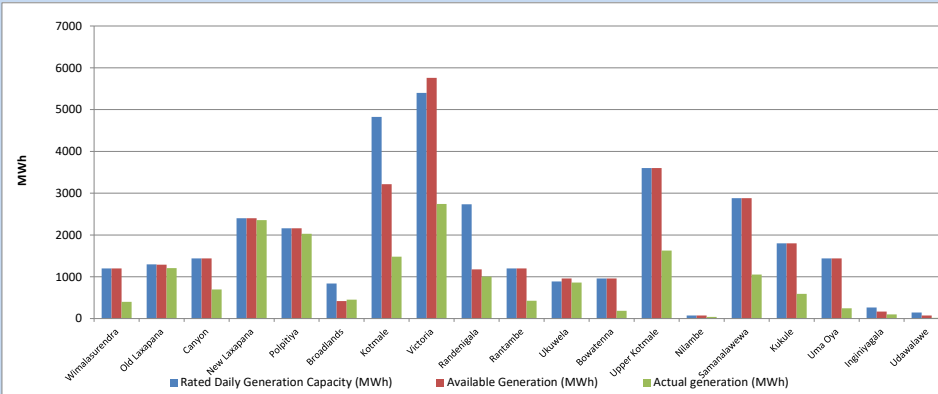


Plant availability is recorded at 6.00 am on

August 2, 2024

1.6 Major Hydro Plant Dispatch

August 1, 2024

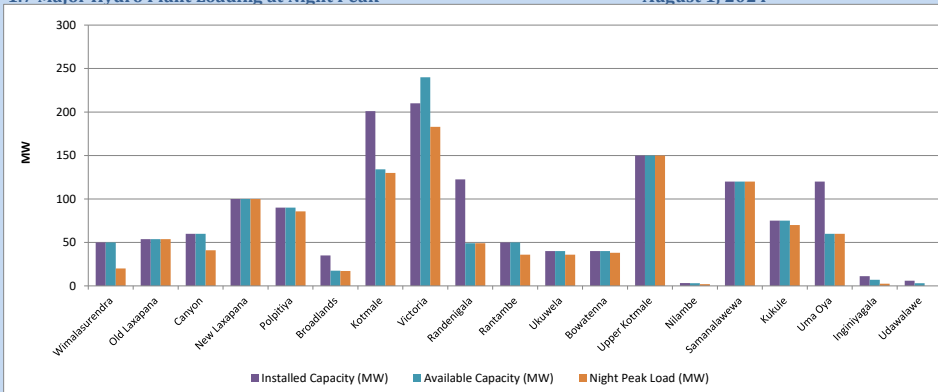


Available Generation is estimated based on plant availability at 6.00am on

August 2, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 1, 2024



Plant availability is recorded at 6.00 am on

August 2, 2024

1.8 Summary of Major Plant performance

August 1, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	398
Old Laxapana	54	54	54	1,207
Canyon	60	60	41	696
New Laxapana	100	100	100	2,355
Polpitiya	90	90	86	2,030
Broadlands	35	18	17	452
Kotmale	201	134	130	1,480
Victoria	210	240	183	2,742
Randenigala	123	49	49	1,003
Rantambe	50	50	36	426
Ukuwela	40	40	36	863
Bowatenna	40	40	38	186
Upper Kotmale	150	150	150	1,626
Nilambe	3	3	2	38
Samanalawewa	120	120	120	1,054
Kukule	75	75	70	593
Uma Oya	120	60	60	245
Inginipigala	11	7	3	99
Udawalawe	6	3	0	16
Puttalam Coal I	270	270	271	6,531
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,467
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	3,566
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	54	54	1,087
Uthura Janani	22	0	23	159
Barge CEB	62	53	53	1,114
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	141	480
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,617	2,322	42,875

Note-

Plant availability is the availability recorded at 6 am on

August 2, 2024

1.9 Contribution to the Night Peak in MW

August 1, 2024

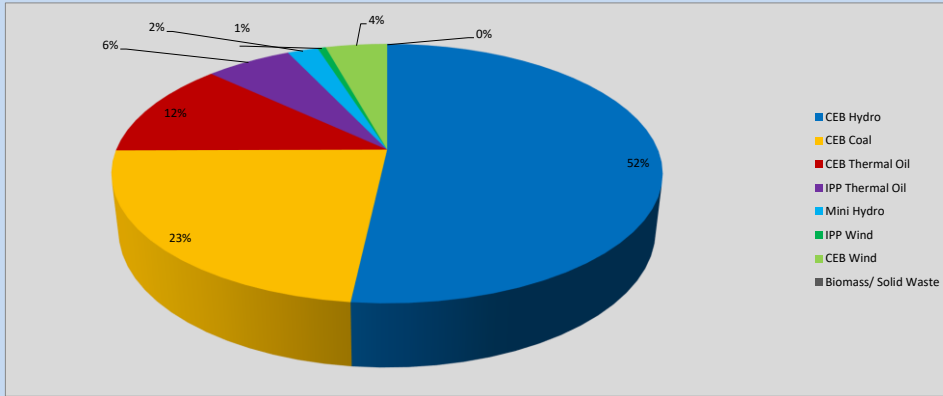


Table 05

CEB Hydro	1210	MW
CEB Coal	541	MW
CEB Thermal Oil	281	MW
IPP Thermal Oil	141	MW
Mini Hydro (Telemetered)	50	MW
IPP Wind	13.5	MW
CEB Wind	101	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

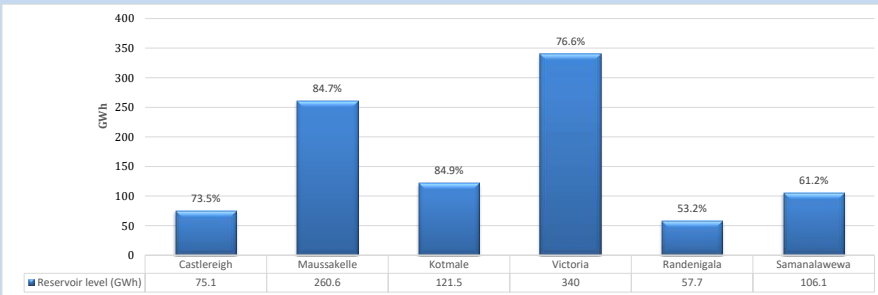
Table 06

Night Peak*	2,337	MW
Day Peak Maximum Demand	2,090	MW
Day Peak Minimum Demand	1,563	MW
Off Peak Minimum Demand	1,324	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 2, 2024



Total Reservoir Level
% of Total capacity

961 GWh
75.2%

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

August 1, 2024

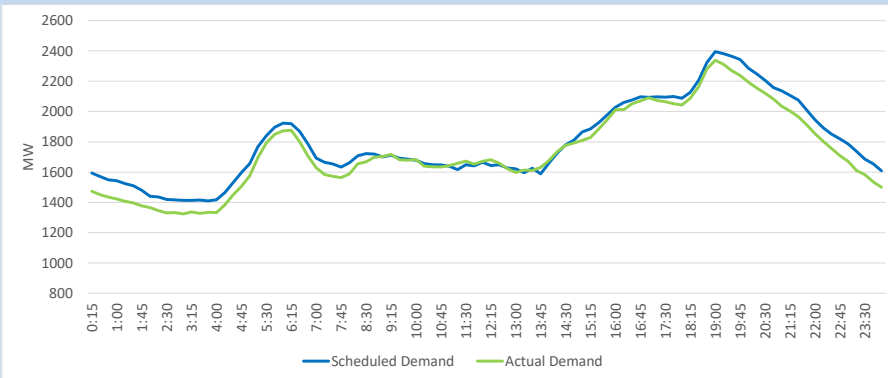
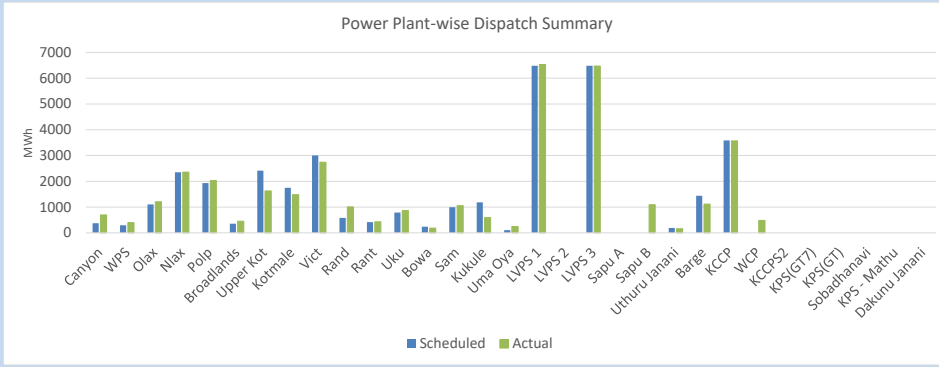


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,857	17,355	-502
CEB Coal	12,960	12,999	39
CEB Thermal Oil	5,220	5,926	707
IPP Thermal Oil	-	480	480
NCRE (Telemetered)	6,423	4,573	-1850
Total	42,459	41,333	-1126

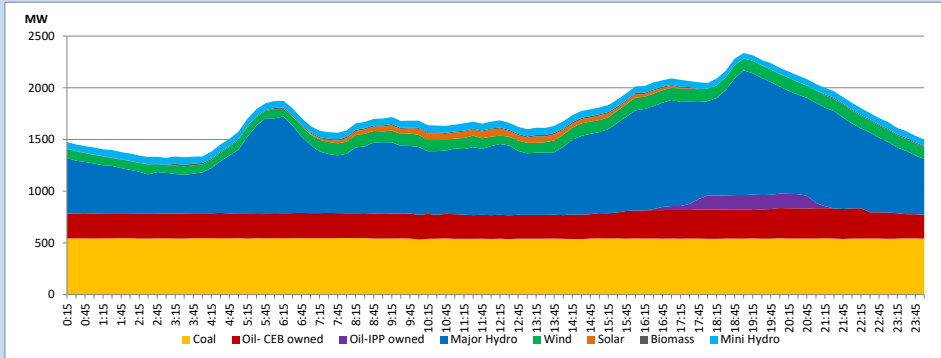
1.12 Power Plant-wise Dispatch Summary

August 1, 2024



1.13 Daily Load Curve

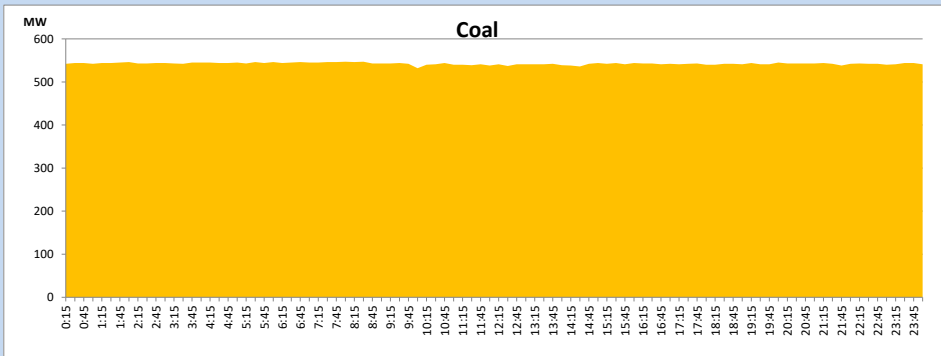
August 1, 2024



Solar and wind data is based on Telemetered Power Stations only

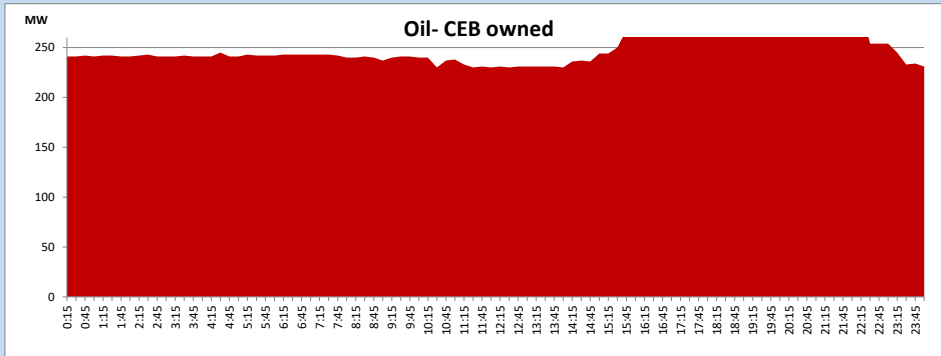
Coal Generation during

August 1, 2024



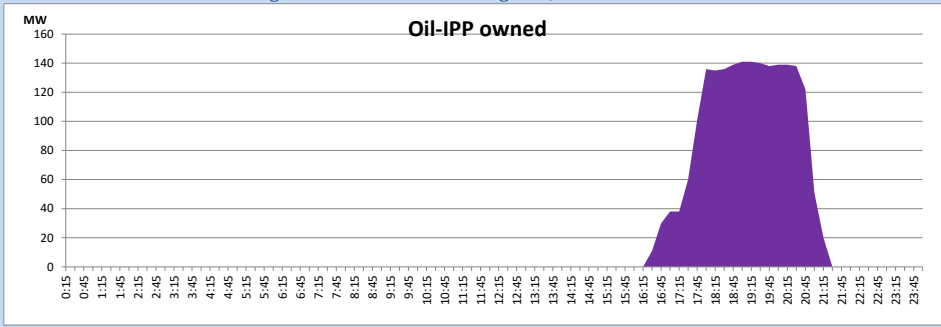
CEB Oil Plant Generation during

August 1, 2024



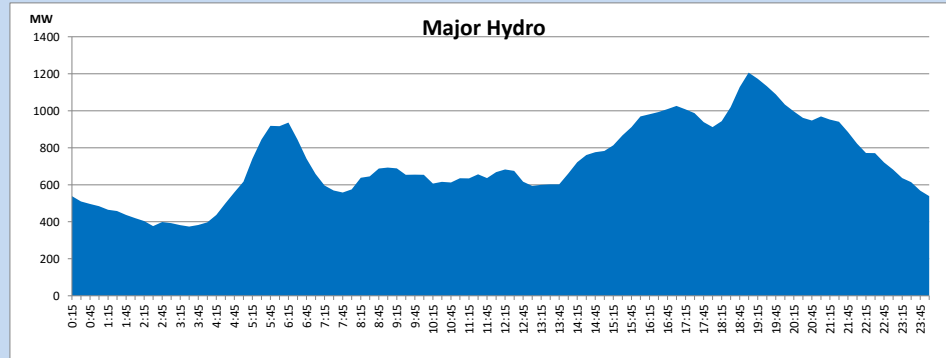
IPP Oil Plant Generation during

August 1, 2024



Major Hydro Generation during

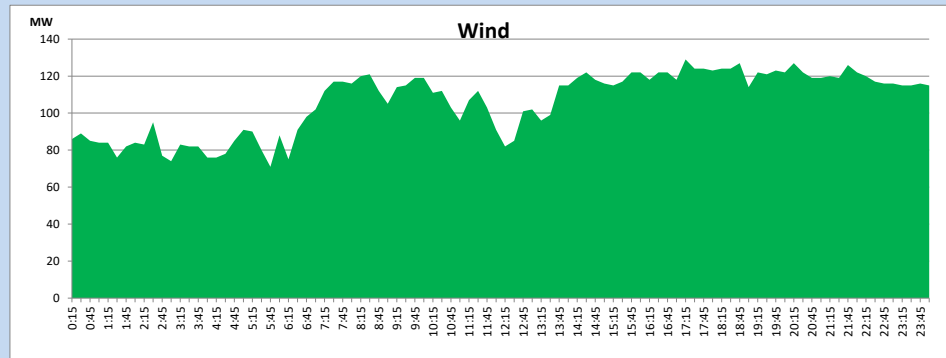
August 1, 2024



Wind Generation during

August 1, 2024

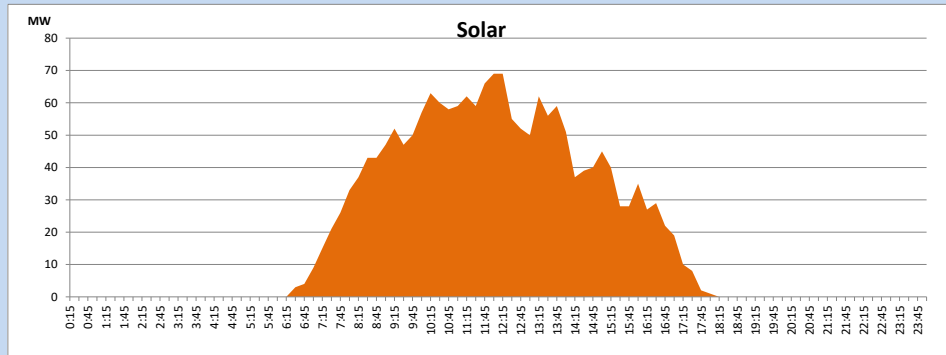
Based on Telemetered Power Stations only



Solar Generation during

August 1, 2024

Based on Telemetered Power Stations only

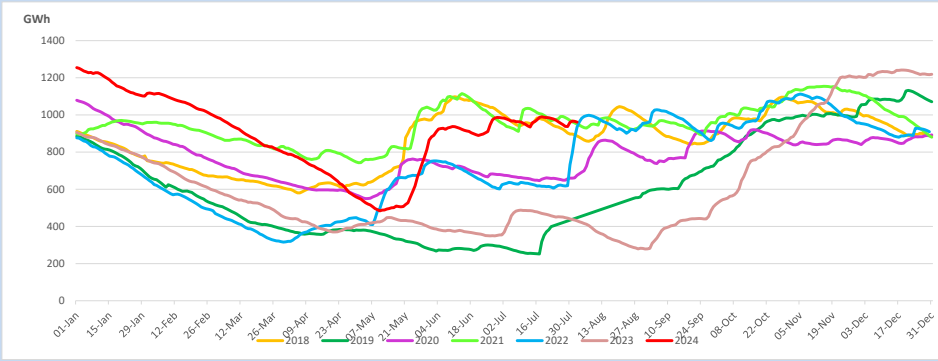


1.14 Major Incidents reported during the day

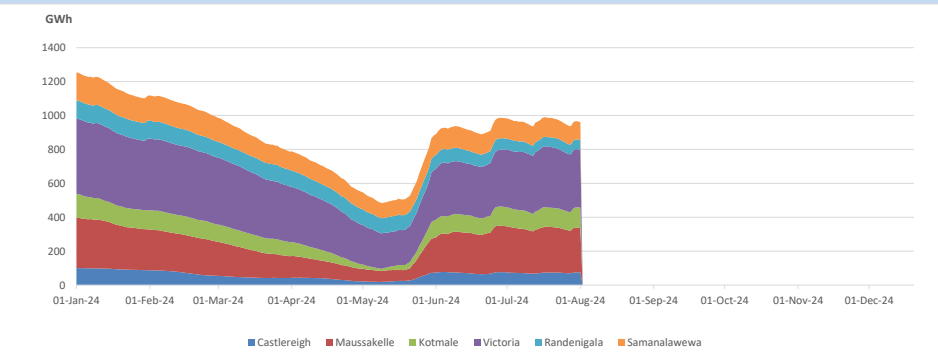
August 1, 2024

- 1) WPS GSS 132/33kV T/F 03 was normalized at 14:58hrs, which was tripped on 29.07.2024.
- 2) Broadlands unit 01 was made unavailable for generation at 17:56hrs due to the MIV malfunction. The unit is yet to resume generation.

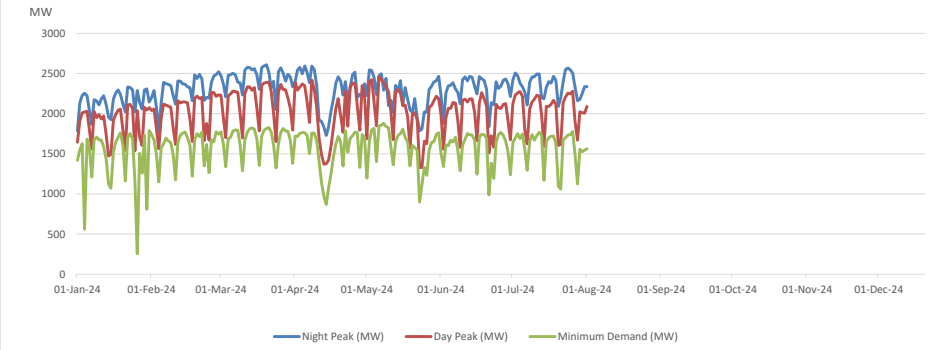
2. Comparison of Total Reservoir Storage Levels with Past Years



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

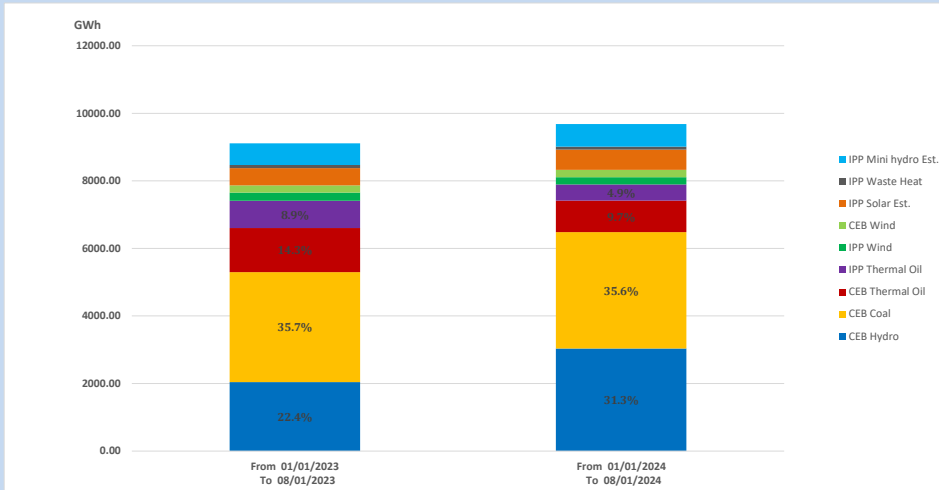


4. Variation of Demand during the current year



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 08/01/2023

9110 GWh

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

9681 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]