

Generation and Reservoirs Statistics

August 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 3, 2024

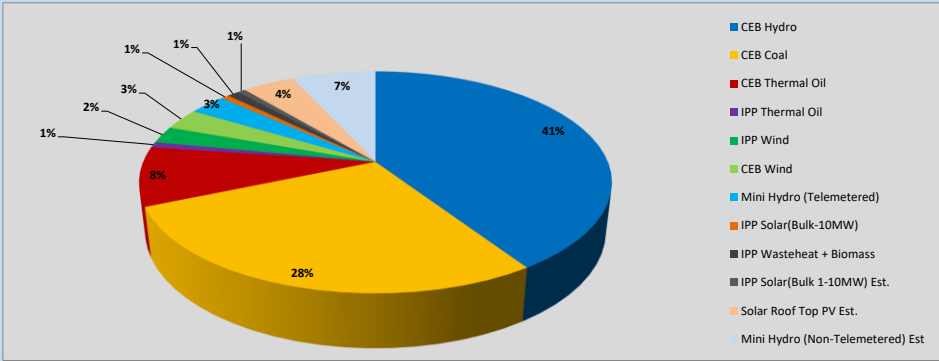


Table 01

	Generation (MWh)
CEB Hydro	18513
CEB Coal	12689
CEB Thermal Oil	3904
IPP Thermal Oil	371
IPP Wind	1123
CEB Wind	1417
Mini Hydro (Telemetered)	1361
IPP Solar (Bulk)	312
IPP Waste heat + Biomass	424
Total Generation (Excluding estimated figures)	40,114
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3132
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (including estimated figures)	45,470

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	54	37.93%
CEB Coal	39	27.28%
CEB Thermal Oil	16	10.97%
IPP Thermal	1	1.03%
SPP Wind	5	3.30%
CEB Wind	5	3.72%
Mini Hydro *	14	9.62%
IPP Solar *	8	5.50%
IPP Waste heat + BMP	1	0.65%
Total	142	

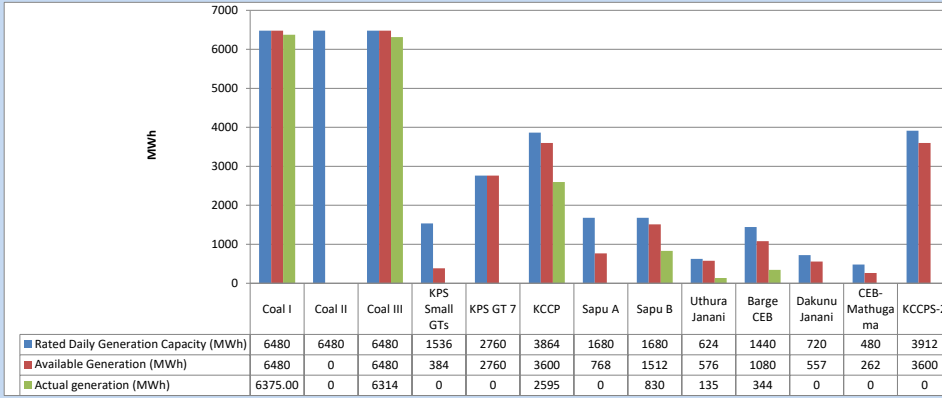
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,071	31.42%
CEB Coal	3,473	35.53%
CEB Thermal Oil	946	9.68%
IPP Thermal	477	4.88%
SPP Wind	217	2.22%
CEB Wind	221	2.27%
Mini Hydro *	678	6.94%
IPP Solar *	603	6.17%
IPP Waste heat	88	0.90%
Total	9,775	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 3, 2024

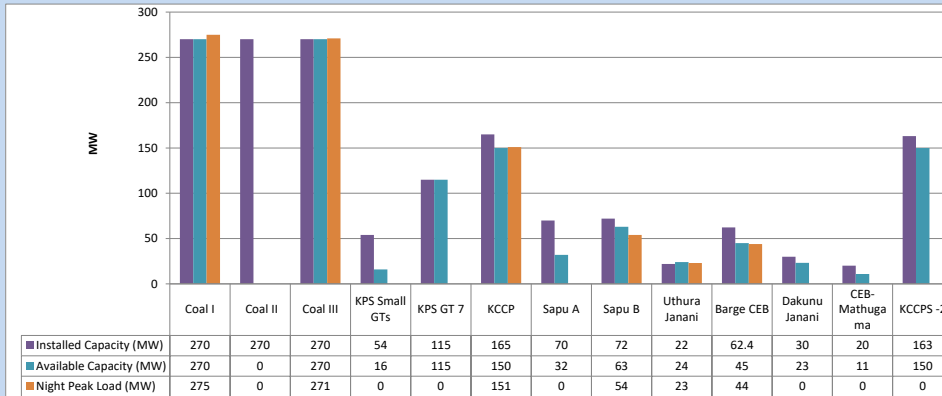


Available Generation is estimated based on plant availability at 6.00am on

August 4, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 3, 2024

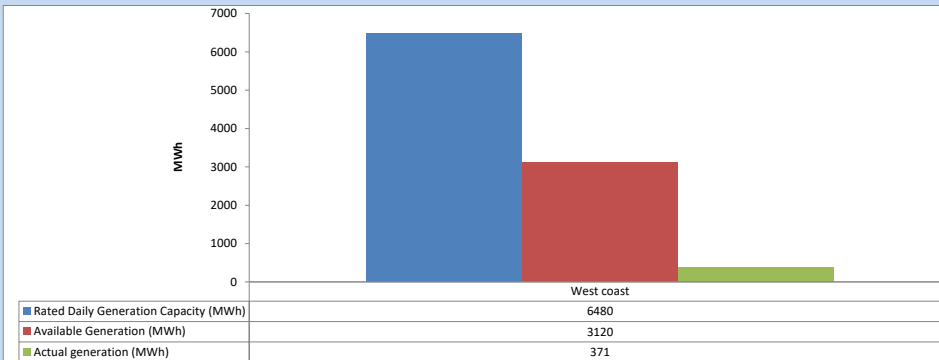


Plant availability is recorded at 6.00 am on

August 4, 2024

1.4 IPP owned Thermal Plant Dispatch

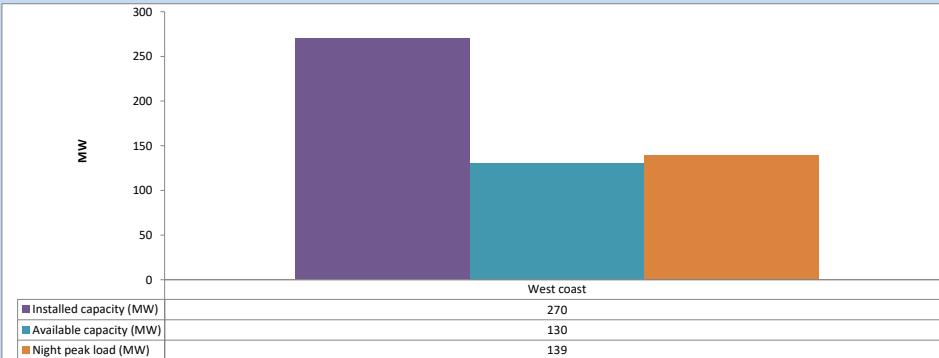
August 3, 2024



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

August 4, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

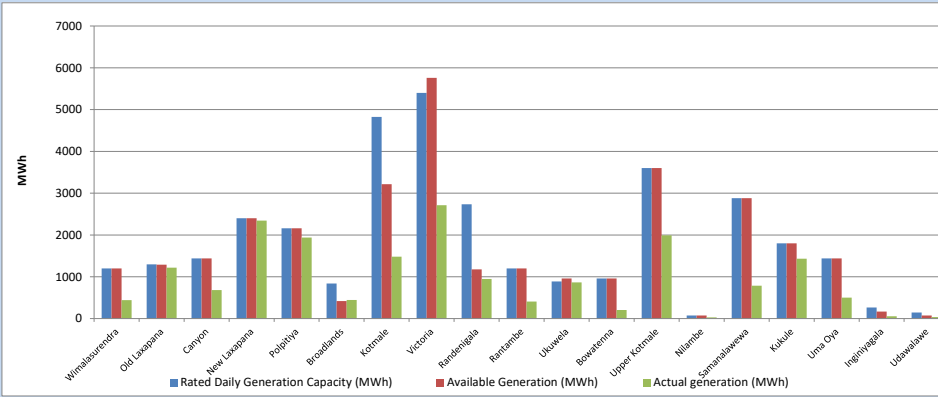


Plant availability is recorded at 6.00 am on

August 4, 2024

1.6 Major Hydro Plant Dispatch

August 3, 2024

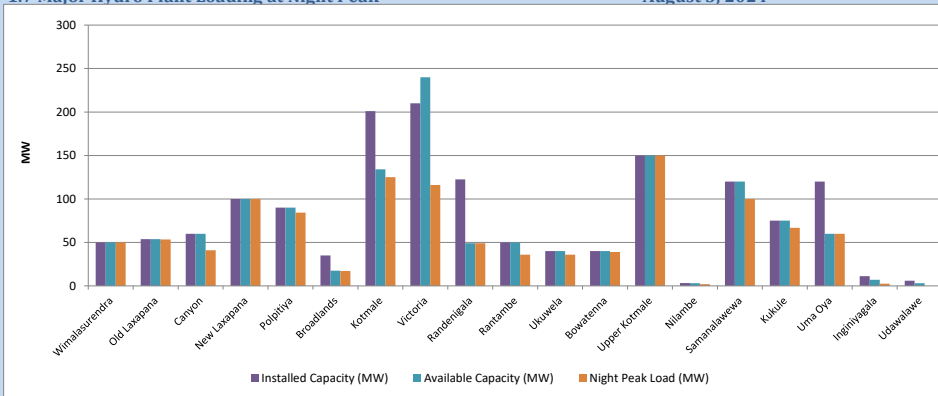


Available Generation is estimated based on plant availability at 6.00am on

August 4, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 3, 2024



Plant availability is recorded at 6.00 am on

August 4, 2024

1.8 Summary of Major Plant performance

August 3, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	442
Old Laxapana	54	54	54	1,218
Canyon	60	60	41	680
New Laxapana	100	100	100	2,343
Polpitiya	90	90	84	1,940
Broadlands	35	18	17	445
Kotmale	201	134	125	1,480
Victoria	210	240	116	2,713
Randenigala	123	49	49	947
Rantambe	50	50	36	406
Ukuwela	40	40	36	864
Bowatenna	40	40	39	203
Upper Kotmale	150	150	150	1,991
Nilambe	3	3	2	30
Samanalawewa	120	120	100	787
Kukule	75	75	67	1,431
Uma Oya	120	60	60	500
Inginipigala	11	7	3	56
Udawalawe	6	3	0	37
Puttalam Coal I	270	270	275	6,375
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,314
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	2,595
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	54	830
Uthura Janani	22	24	23	135
Barge CEB	62	45	44	344
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	139	371
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,642	2,215	40,114

Note-

Plant availability is the availability recorded at 6 am on

August 4, 2024

1.9 Contribution to the Night Peak in MW

August 3, 2024

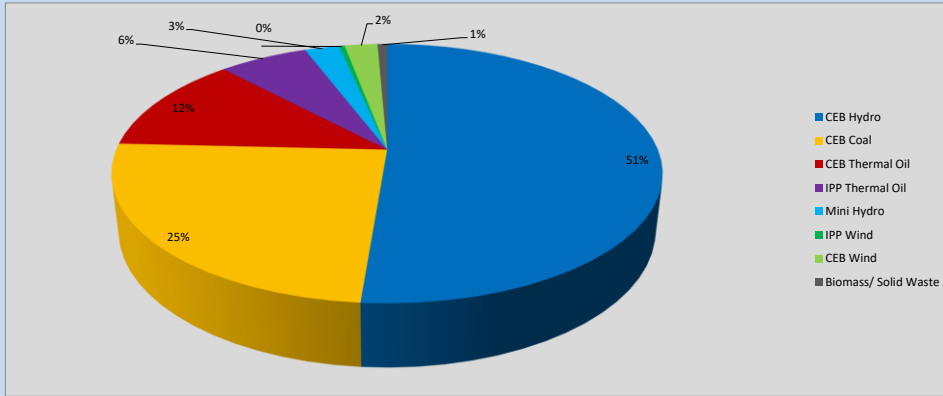


Table 05

CEB Hydro	1143	MW
CEB Coal	546	MW
CEB Thermal Oil	272	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	54	MW
IPP Wind	8.8	MW
CEB Wind	51.6	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

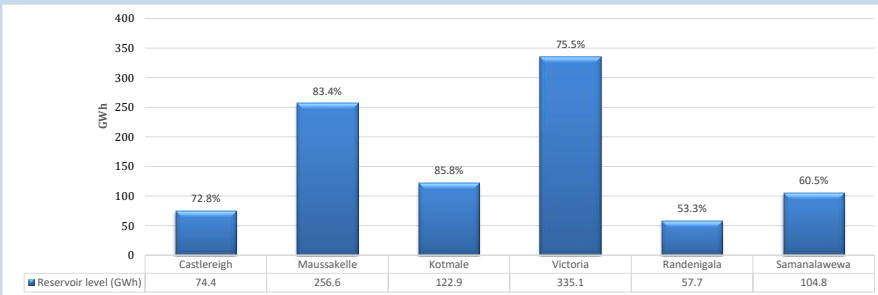
Table 06

Night Peak*	2,230	MW
Day Peak Maximum Demand	1,881	MW
Day Peak Minimum Demand	1,422	MW
Off Peak Minimum Demand	1,326	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 4, 2024



Total Reservoir Level
951.5 GWh
% of Total capacity
74.4%

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

August 3, 2024

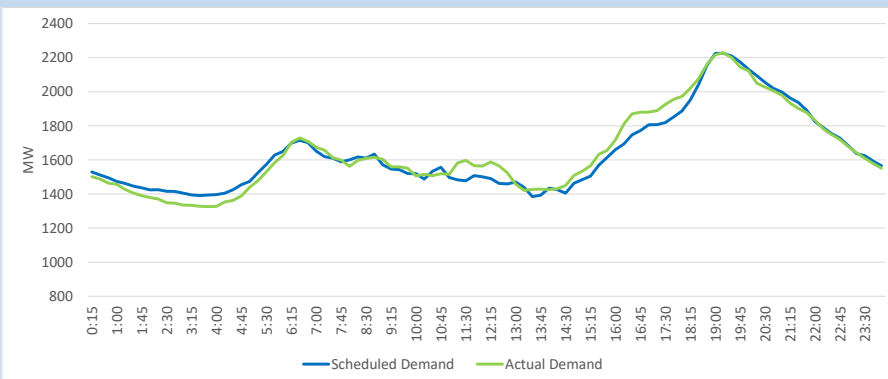
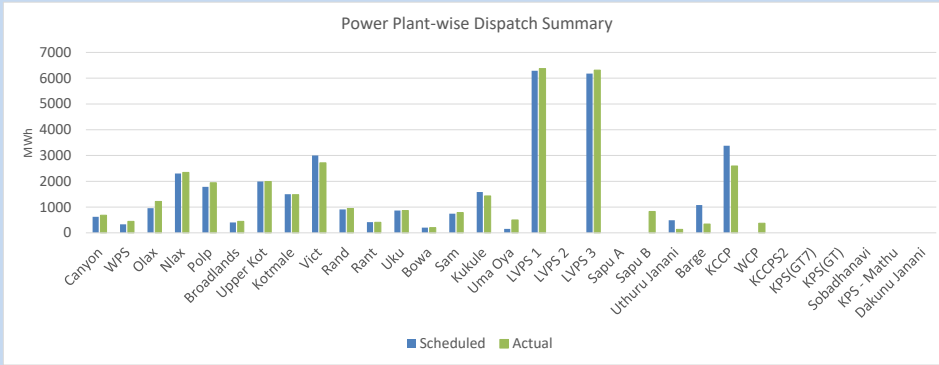


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,755	18,390	635
CEB Coal	12,465	12,689	224
CEB Thermal Oil	4,943	3,903	-1040
IPP Thermal Oil	-	371	371
NCRE (Telemetered)	3,118	3,623	505
Total	38,281	38,976	695

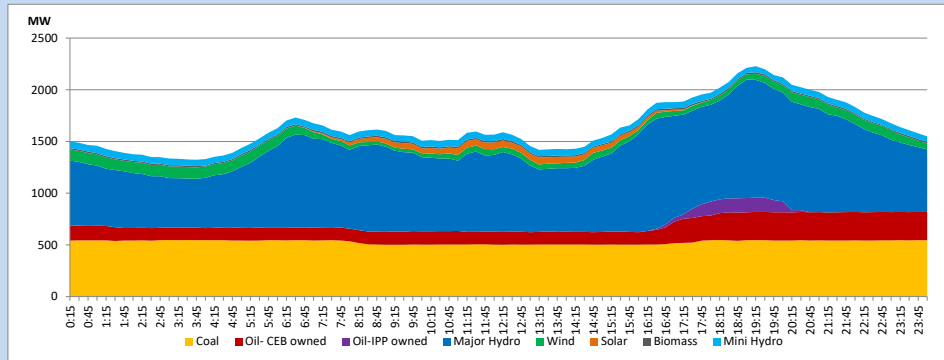
1.12 Power Plant-wise Dispatch Summary

August 3, 2024



1.13 Daily Load Curve

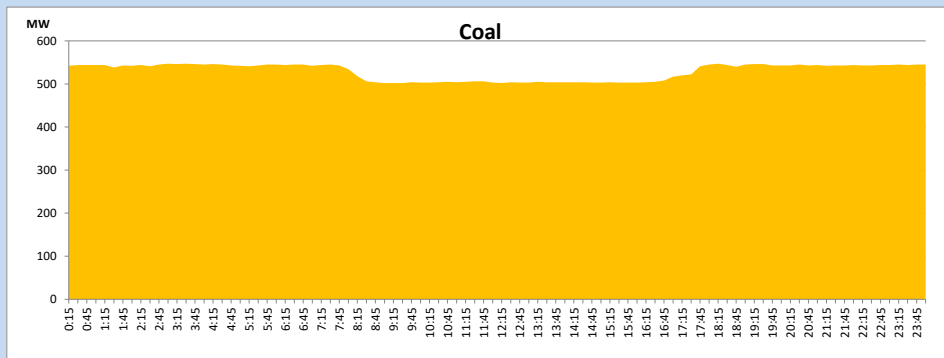
August 3, 2024



Solar and wind data is based on Telemetered Power Stations only

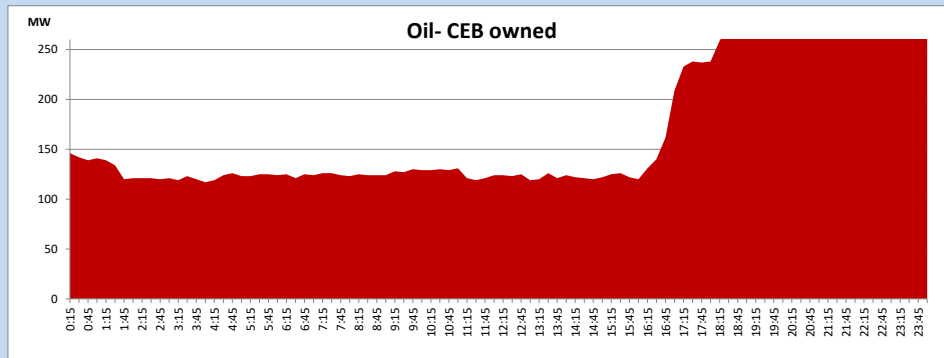
Coal Generation during

August 3, 2024



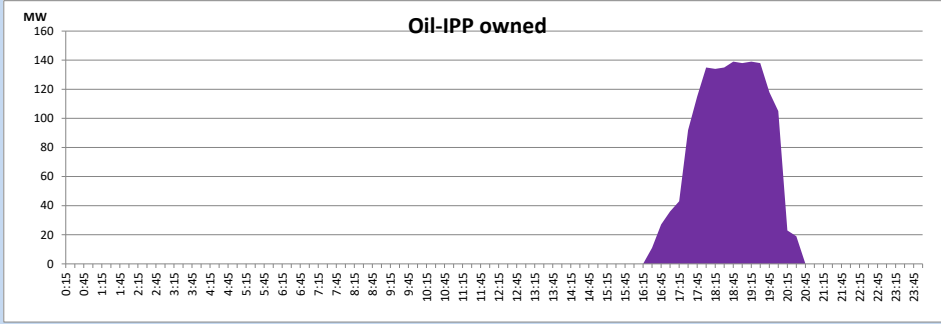
CEB Oil Plant Generation during

August 3, 2024



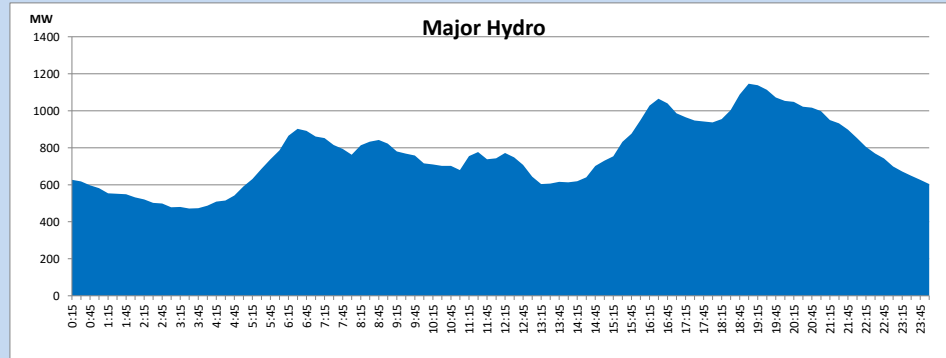
IPP Oil Plant Generation during

August 3, 2024



Major Hydro Generation during

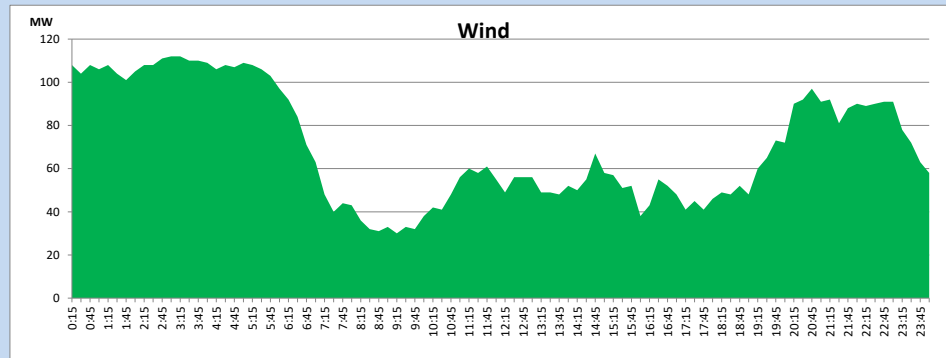
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Wind Generation during

August 3, 2024

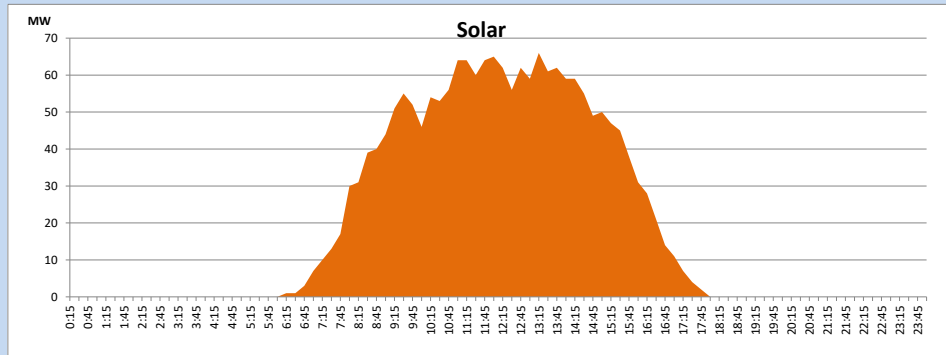
Based on Telemetered Power Stations only



Solar Generation during

August 3, 2024

Based on Telemetered Power Stations only

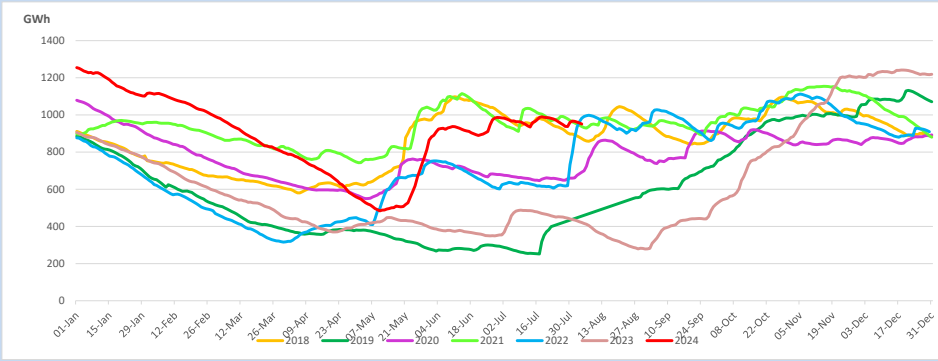


1.14 Major Incidents reported during the day

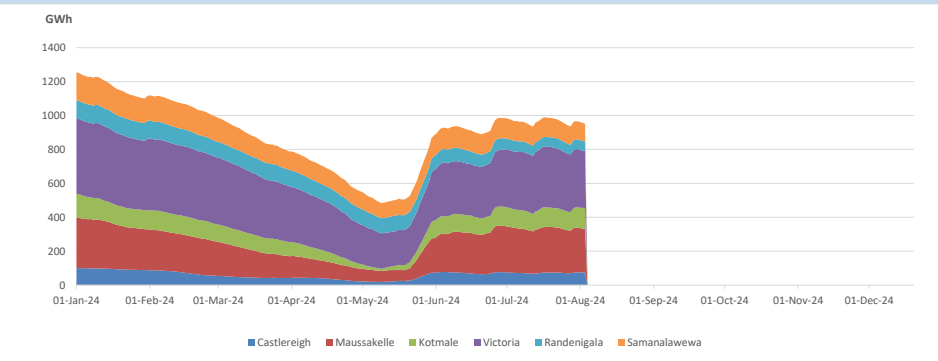
August 3, 2024

- 1) Kolonnawa-S' Japura-Pannipitiya 132KV cct 01 which tripped on 01.08.2024 was normalized by 13:43hrs.

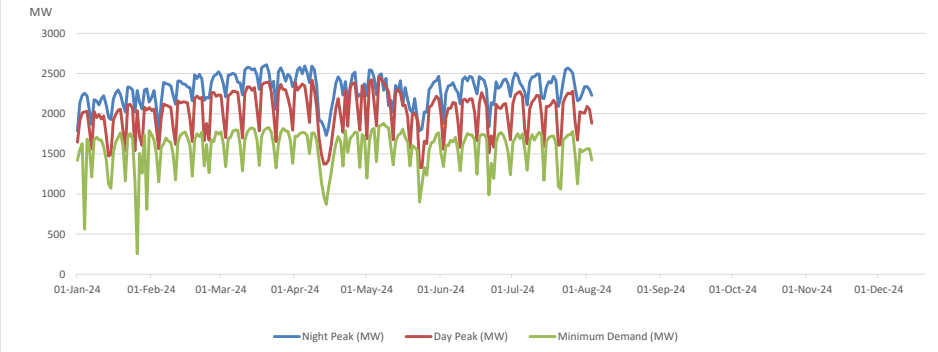
2. Comparison of Total Reservoir Storage Levels with Past Years



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

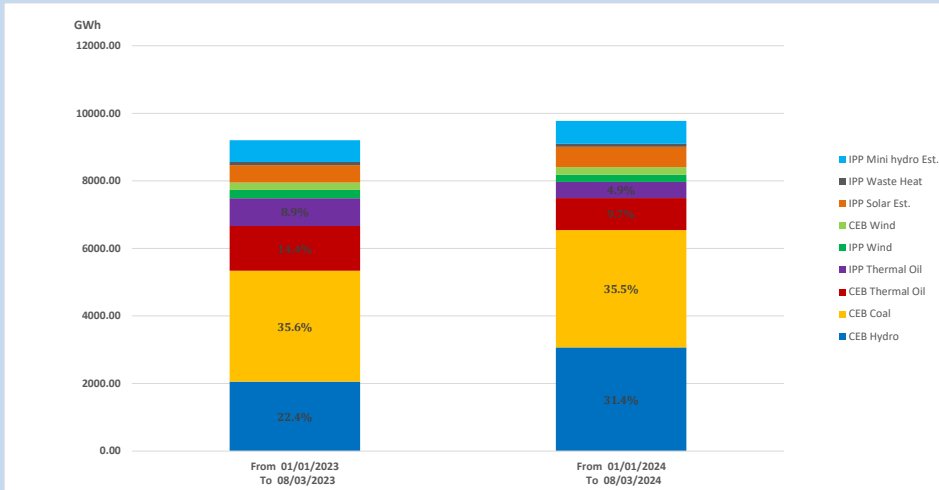


4. Variation of Demand during the current year



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 08/03/2023

9206 GWh

From 01/01/2024 To 08/03/2024

9775 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]