

Generation and Reservoirs Statistics

August 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 2, 2024

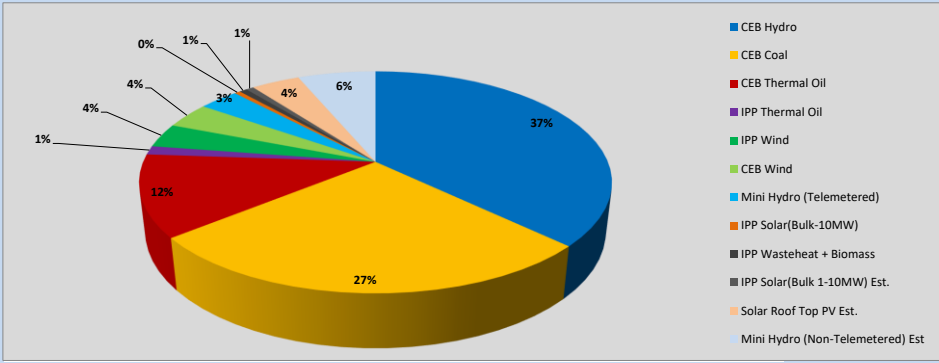


Table 01

	Generation (MWh)
CEB Hydro	17890
CEB Coal	13080
CEB Thermal Oil	5762
IPP Thermal Oil	612
IPP Wind	1695
CEB Wind	1827
Mini Hydro (Telemetered)	1569
IPP Solar (Bulk)	229
IPP Waste heat + Biomass	299
Total Generation (Excluding estimated figures)	42,963
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3071
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	48,258

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	35	36.61%
CEB Coal	26	26.97%
CEB Thermal Oil	12	12.09%
IPP Thermal	1	1.13%
SPP Wind	4	3.69%
CEB Wind	4	4.00%
Mini Hydro *	9	9.50%
IPP Solar *	5	5.47%
IPP Waste heat + BMP	1	0.53%
Total	97	

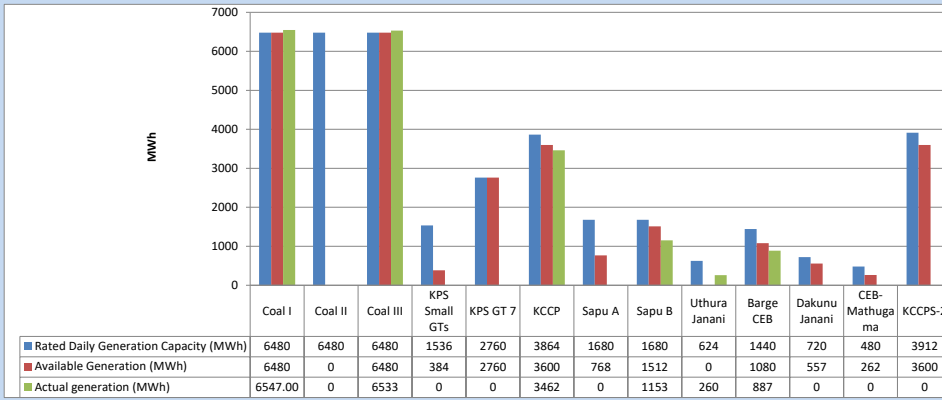
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,052	31.37%
CEB Coal	3,460	35.56%
CEB Thermal Oil	942	9.68%
IPP Thermal	477	4.90%
SPP Wind	216	2.22%
CEB Wind	220	2.26%
Mini Hydro *	674	6.93%
IPP Solar *	601	6.17%
IPP Waste heat	87	0.90%
Total	9,729	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 2, 2024

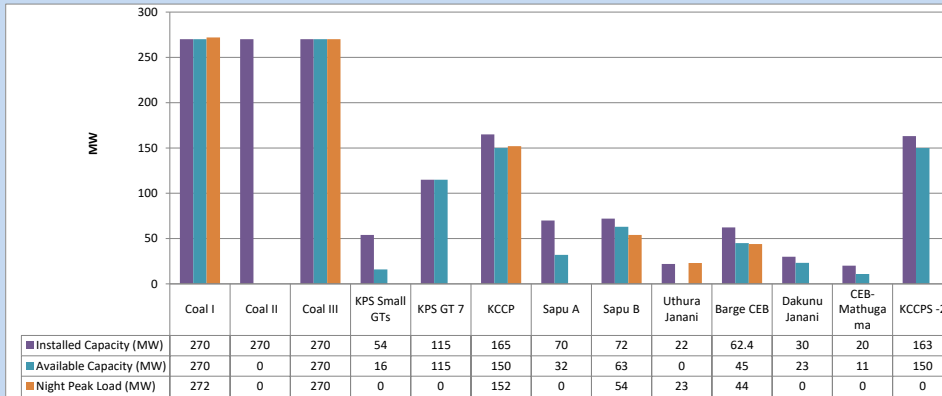


Available Generation is estimated based on plant availability at 6.00am on

August 3, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 2, 2024

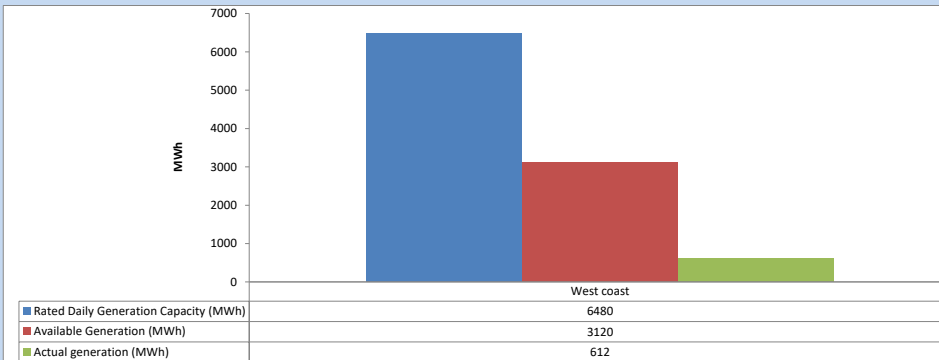


Plant availability is recorded at 6.00 am on

August 3, 2024

1.4 IPP owned Thermal Plant Dispatch

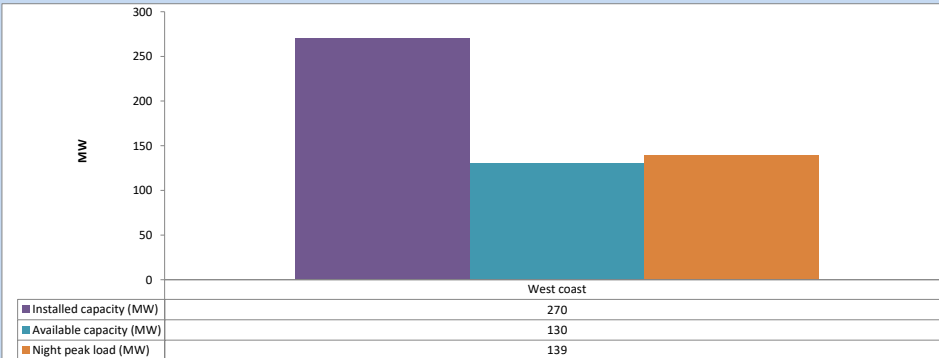
August 2, 2024



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

August 3, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

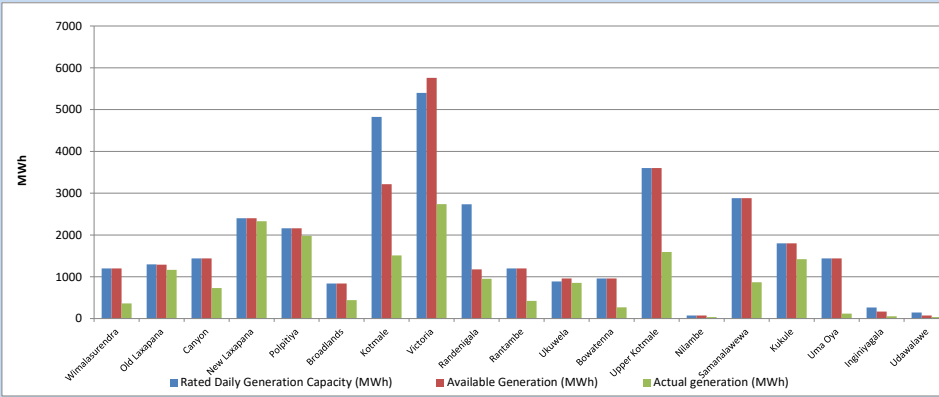


Plant availability is recorded at 6.00 am on

August 3, 2024

1.6 Major Hydro Plant Dispatch

August 2, 2024

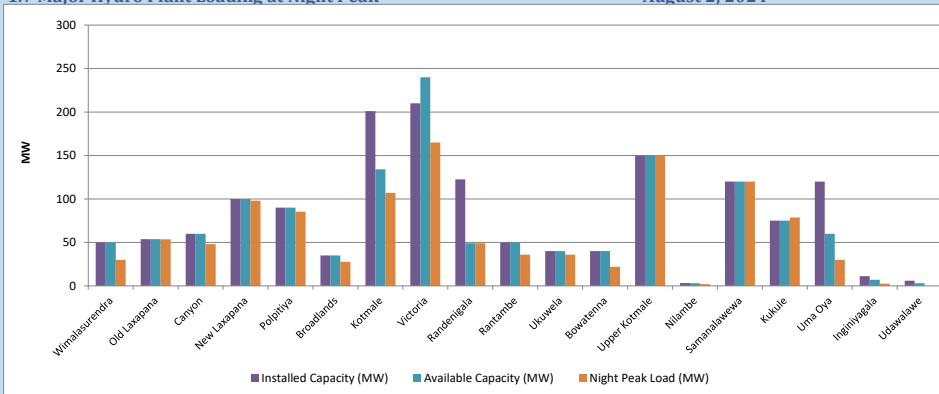


Available Generation is estimated based on plant availability at 6.00am on

August 3, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 2, 2024



Plant availability is recorded at 6.00 am on

August 3, 2024

1.8 Summary of Major Plant performance

August 2, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	363
Old Laxapana	54	54	54	1,166
Canyon	60	60	48	732
New Laxapana	100	100	98	2,328
Polpitiya	90	90	85	1,980
Broadlands	35	35	28	442
Kotmale	201	134	107	1,510
Victoria	210	240	165	2,739
Randenigala	123	49	49	953
Rantambe	50	50	36	421
Ukuwela	40	40	36	855
Bowatenna	40	40	22	270
Upper Kotmale	150	150	150	1,594
Nilambe	3	3	2	37
Samanalawewa	120	120	120	868
Kukule	75	75	79	1,420
Uma Oya	120	60	30	120
Inginipigala	11	7	3	56
Udawalawe	6	3	0	37
Puttalam Coal I	270	270	272	6,547
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,533
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	152	3,462
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	54	1,153
Uthura Janani	22	0	23	260
Barge CEB	62	45	44	887
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	612
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,635	2,288	42,964

Note-

Plant availability is the availability recorded at 6 am on

August 3, 2024

1.9 Contribution to the Night Peak in MW

August 2, 2024

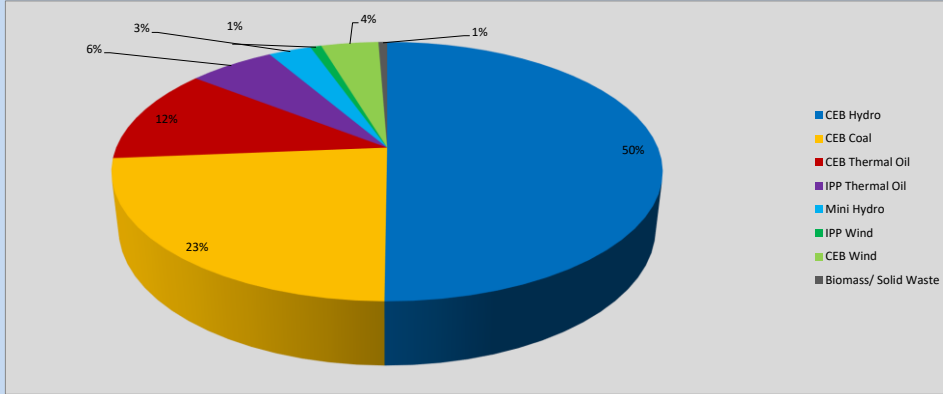


Table 05

CEB Hydro	1153	MW
CEB Coal	542	MW
CEB Thermal Oil	273	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	69	MW
IPP Wind	17.9	MW
CEB Wind	92.7	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

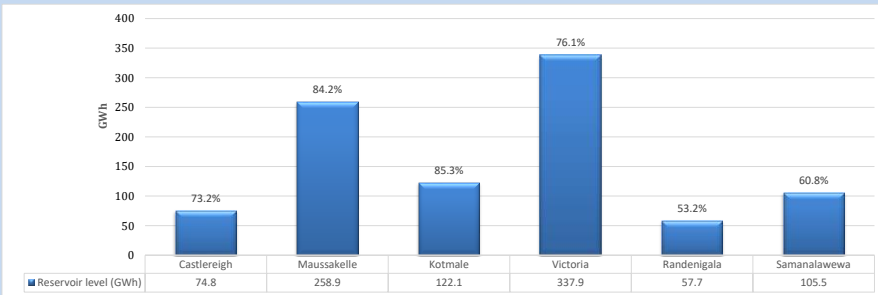
Table 06

Night Peak*	2,301	MW
Day Peak Maximum Demand	2,058	MW
Day Peak Minimum Demand	1,564	MW
Off Peak Minimum Demand	1,356	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 3, 2024



Total Reservoir Level 956.9 GWh
% of Total capacity 74.8%

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

August 2, 2024

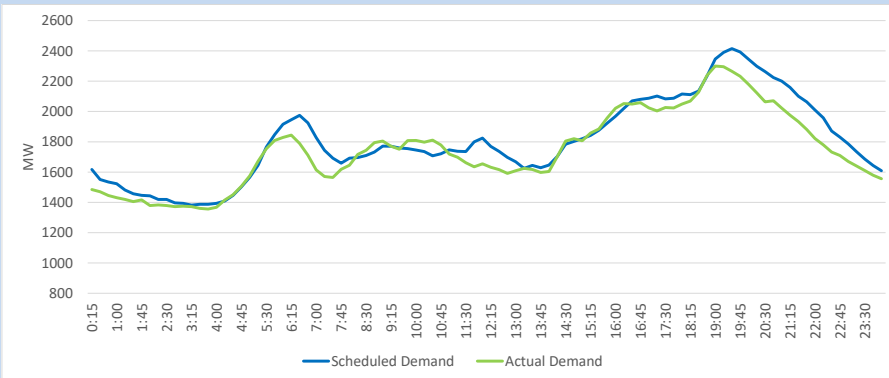
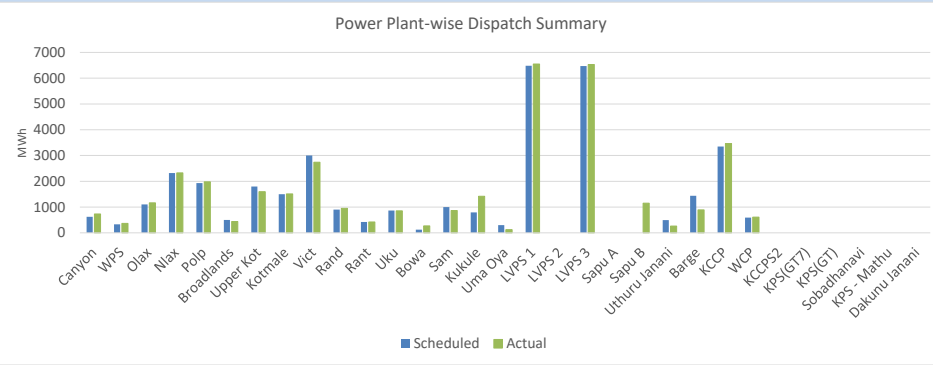


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,485	17,760	275
CEB Coal	12,949	13,080	131
CEB Thermal Oil	5,284	5,762	478
IPP Thermal Oil	594	612	18
NCRE (Telemetered)	6,084	4,285	-1799
Total	42,396	41,499	-897

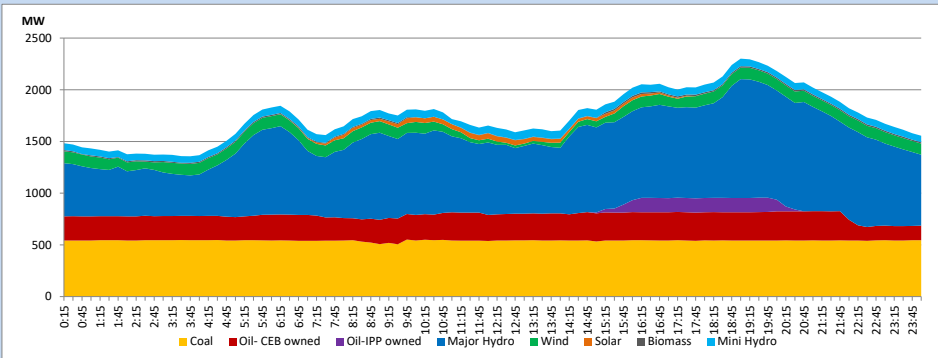
1.12 Power Plant-wise Dispatch Summary

August 2, 2024



1.13 Daily Load Curve

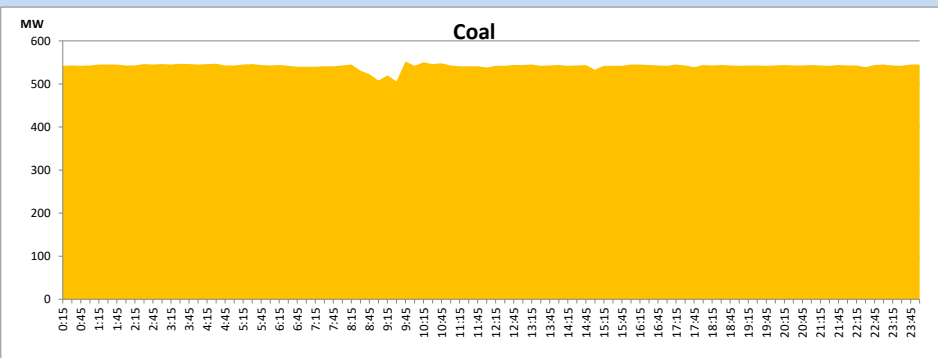
August 2, 2024



Solar and wind data is based on Telemetered Power Stations only

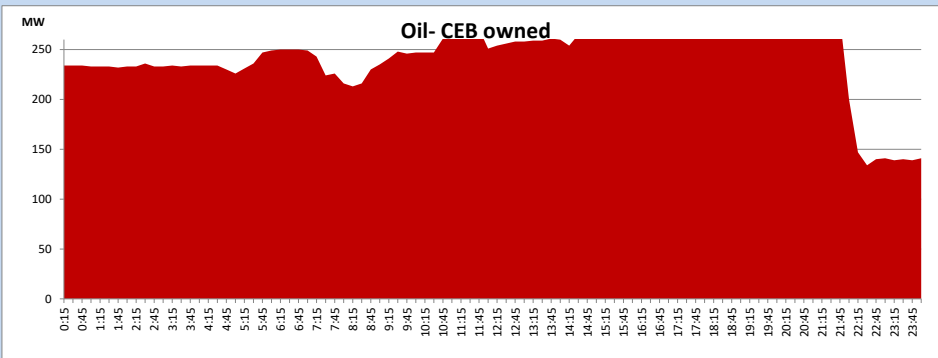
Coal Generation during

August 2, 2024



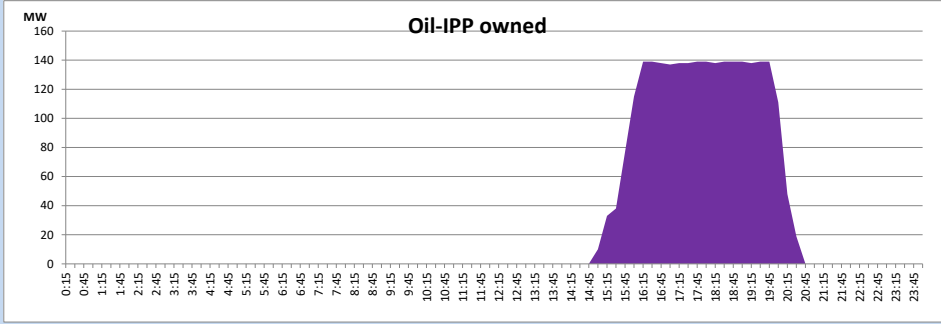
CEB Oil Plant Generation during

August 2, 2024



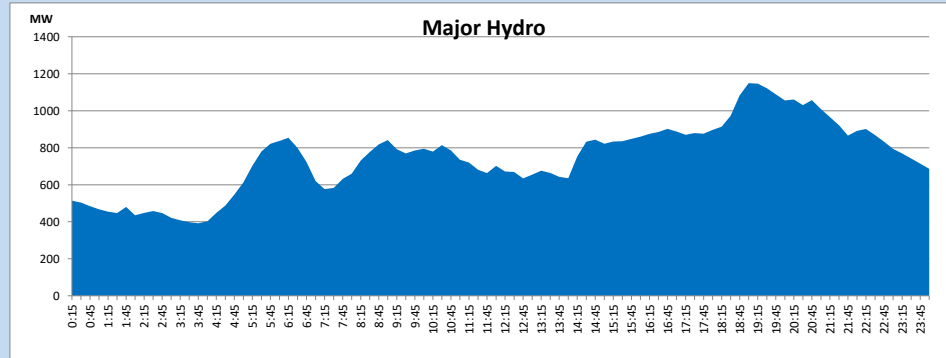
IPP Oil Plant Generation during

August 2, 2024



Major Hydro Generation during

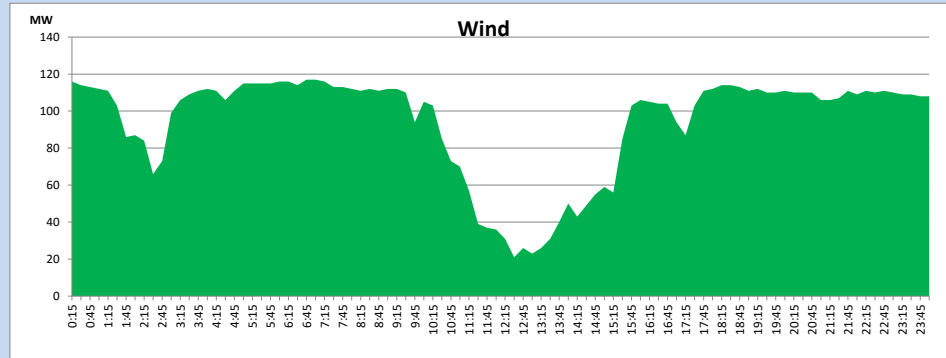
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Wind Generation during

August 2, 2024

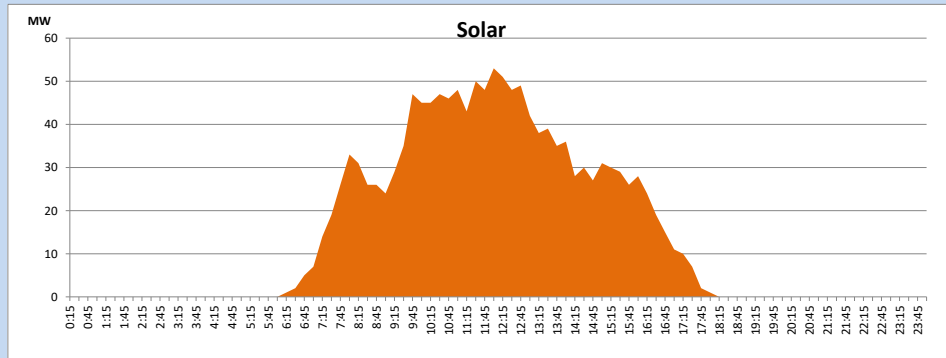
Based on Telemetered Power Stations only



Solar Generation during

August 2, 2024

Based on Telemetered Power Stations only

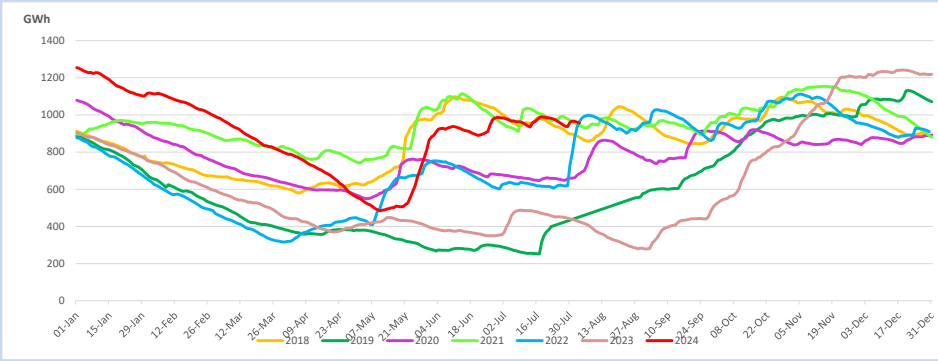


1.14 Major Incidents reported during the day

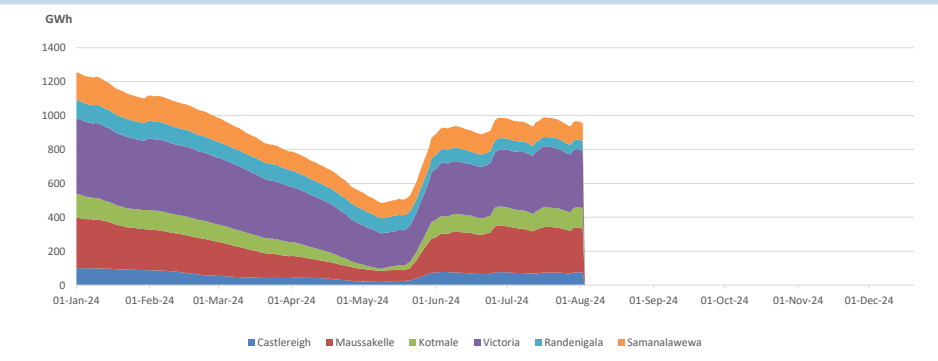
August 2, 2024

- 1) Broadlands unit 01 which was unavailable from 01.08.2024 resumed generation at generation at 11:11hrs.
- 2) Old Habarana - Ukuwela 132kV cct tripped only from Old Habarana end at 10:50hrs without showing any indications causing Naula GSS, Pallekele GSS, Ragala GSS, Bowathanna PS and Ukuwela 132/33kV T/Fs to be dead (Old Habarana - Naula 132kV cct. had been released for maintenance). Old Habarana - Ukuwela 132kV cct was normalized at 11:12hrs and all affected GSSs and feeders were normalized by 11:16hrs.
- 3) Kolonnawa - S' Japura - Pannipitiya 132kV cct 01 tripped from Kolonnawa and S'Japura ends at 10:54hrs due to the operation of distance protection (The cct had been switched off from Pannipitiya end). The cct was yet to be normalized from Pannipitiya end.

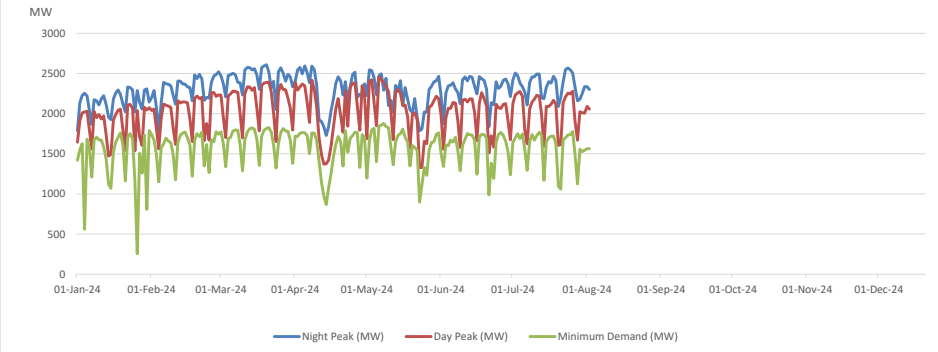
2. Comparison of Total Reservoir Storage Levels with Past Years



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

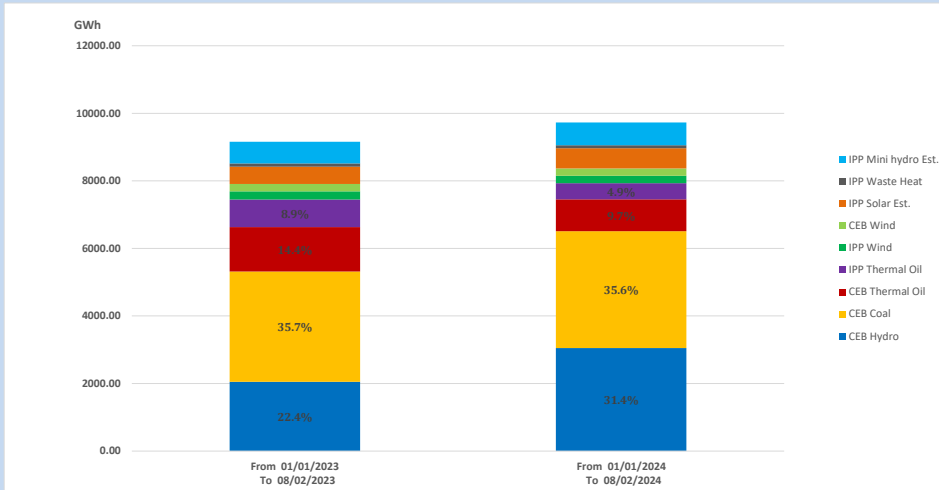


4. Variation of Demand during the current year



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 08/02/2023

9157 GWh

From 01/01/2024 To 08/02/2024

9729 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]