

Generation and Reservoirs Statistics

August 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 6, 2024

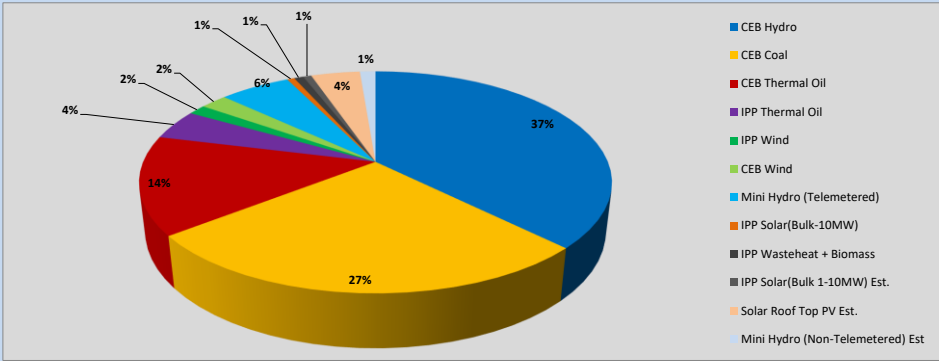


Table 01

	Generation (MWh)
CEB Hydro	17903
CEB Coal	12987
CEB Thermal Oil	6887
IPP Thermal Oil	2095
IPP Wind	696
CEB Wind	1058
Mini Hydro (Telemetered)	2775
IPP Solar (Bulk)	287
IPP Waste heat + Biomass	366
Total Generation (Excluding estimated figures)	45,054
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	611
* Estimated IPP Solar PV (Bulk 1-10MW)	321
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	47,906

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	105	37.93%
CEB Coal	78	28.06%
CEB Thermal Oil	34	12.24%
IPP Thermal	6	2.01%
SPP Wind	7	2.44%
CEB Wind	8	2.83%
Mini Hydro *	23	8.15%
IPP Solar *	16	5.61%
IPP Waste heat + BMP	2	0.73%
Total	277	

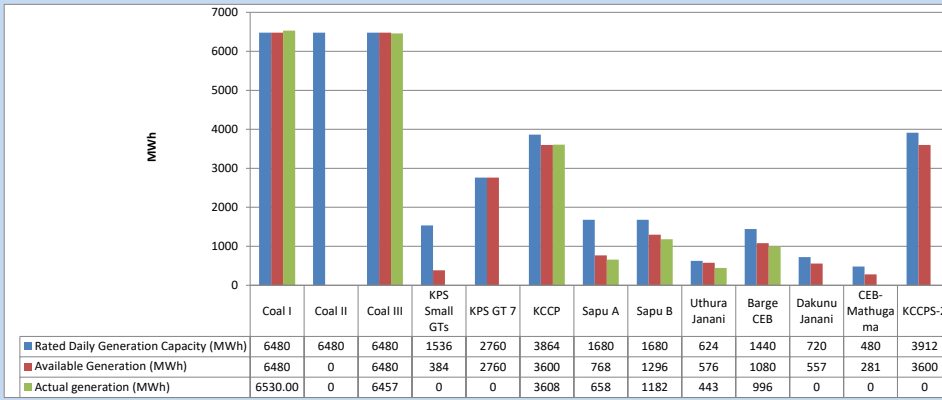
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,122	31.50%
CEB Coal	3,512	35.44%
CEB Thermal Oil	964	9.73%
IPP Thermal	481	4.86%
SPP Wind	220	2.22%
CEB Wind	224	2.26%
Mini Hydro *	687	6.93%
IPP Solar *	611	6.16%
IPP Waste heat	89	0.90%
Total	9,909	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 6, 2024

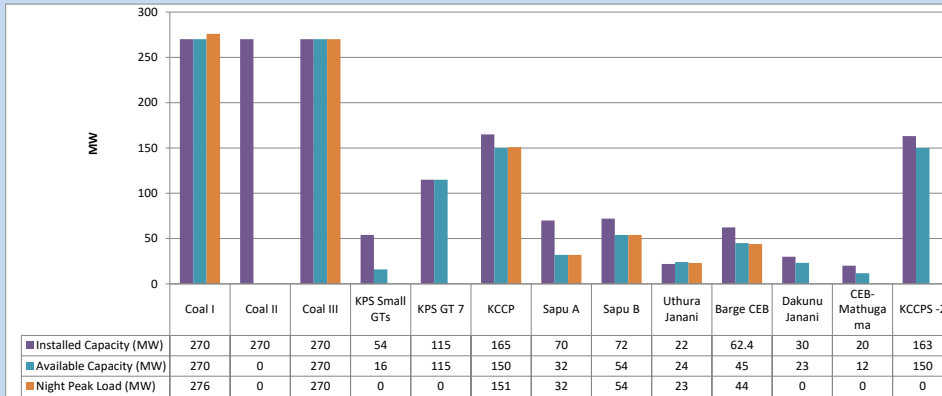


Available Generation is estimated based on plant availability at 6.00am on

August 7, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 6, 2024

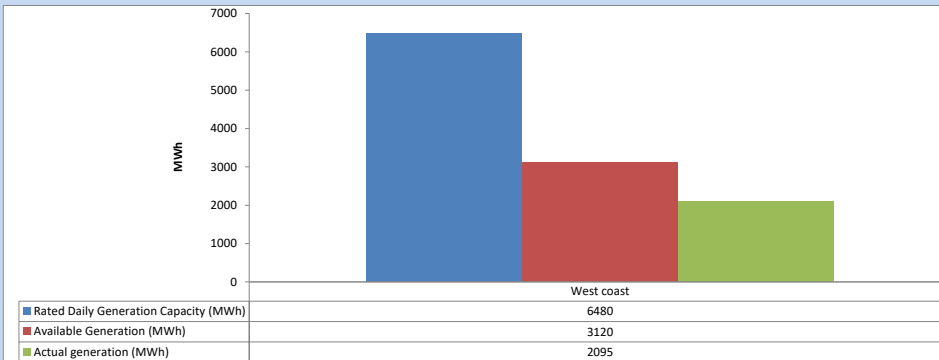


Plant availability is recorded at 6.00 am on

August 7, 2024

1.4 IPP owned Thermal Plant Dispatch

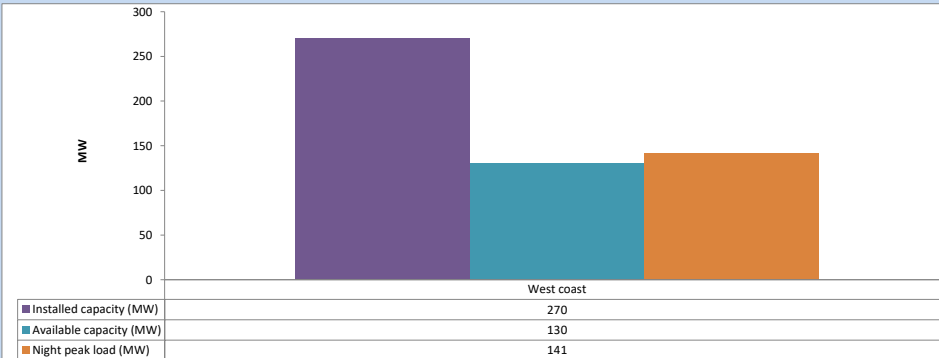
August 6, 2024



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

August 7, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

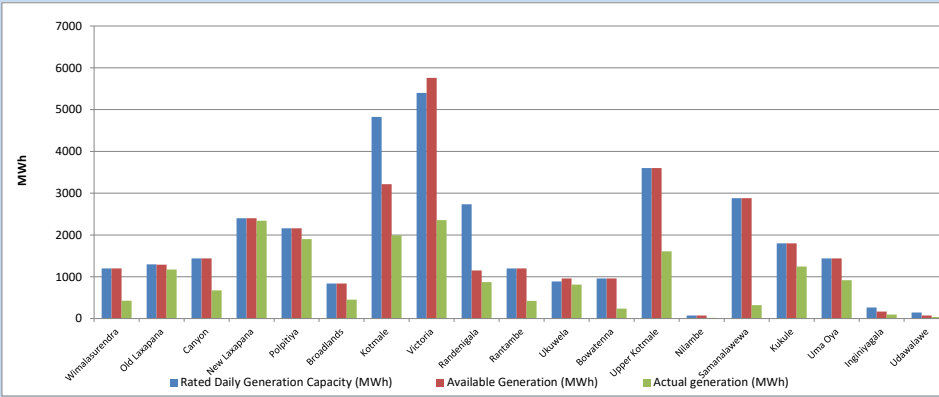


Plant availability is recorded at 6.00 am on

August 7, 2024

1.6 Major Hydro Plant Dispatch

August 6, 2024

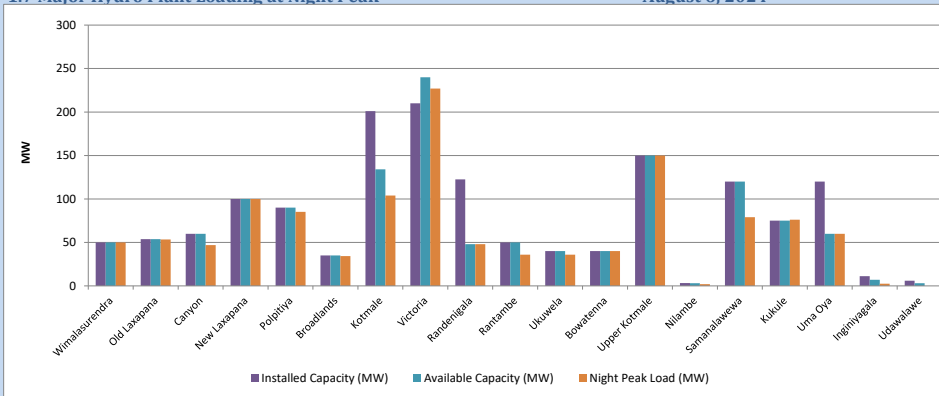


Available Generation is estimated based on plant availability at 6.00am on

August 7, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 6, 2024



Plant availability is recorded at 6.00 am on

August 7, 2024

1.8 Summary of Major Plant performance

August 6, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	428
Old Laxapana	54	54	54	1,174
Canyon	60	60	47	674
New Laxapana	100	100	100	2,339
Polpitiya	90	90	85	1,900
Broadlands	35	35	34	454
Kotmale	201	134	104	1,990
Victoria	210	240	227	2,355
Randenigala	123	48	48	873
Rantambe	50	50	36	422
Ukuwela	40	40	36	814
Bowatenna	40	40	40	238
Upper Kotmale	150	150	150	1,610
Nilambe	3	3	2	17
Samanalawewa	120	120	79	322
Kukule	75	75	76	1,245
Uma Oya	120	60	60	917
Inginipigala	11	7	3	96
Udawalawe	6	3	0	36
Puttalam Coal I	270	270	276	6,530
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,457
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	3,608
Sapugaskanda A	70	32	32	658
Sapugaskanda B	72	54	54	1,182
Uthura Janani	22	24	23	443
Barge CEB	62	45	44	996
CEB-Hambantota	30	23	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	141	2,095
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,650	2,462	45,055

Note-

Plant availability is the availability recorded at 6 am on

August 7, 2024

1.9 Contribution to the Night Peak in MW

August 6, 2024

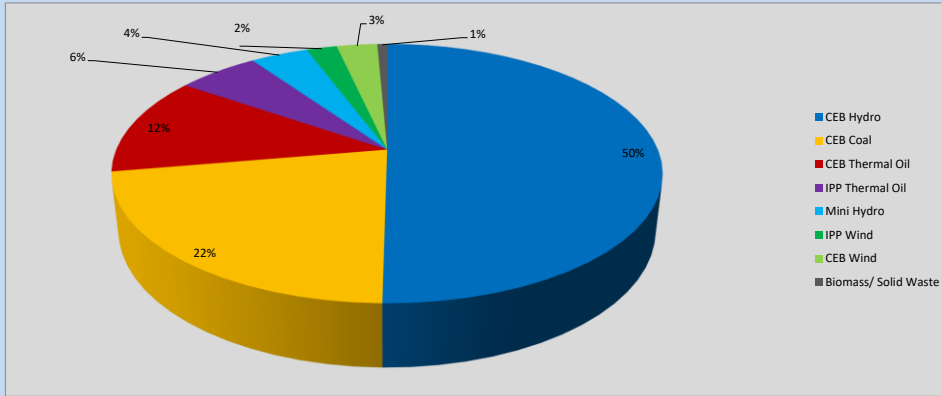


Table 05

CEB Hydro	1243	MW
CEB Coal	546	MW
CEB Thermal Oil	304	MW
IPP Thermal Oil	141	MW
Mini Hydro (Telemetered)	100	MW
IPP Wind	53.2	MW
CEB Wind	70.6	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

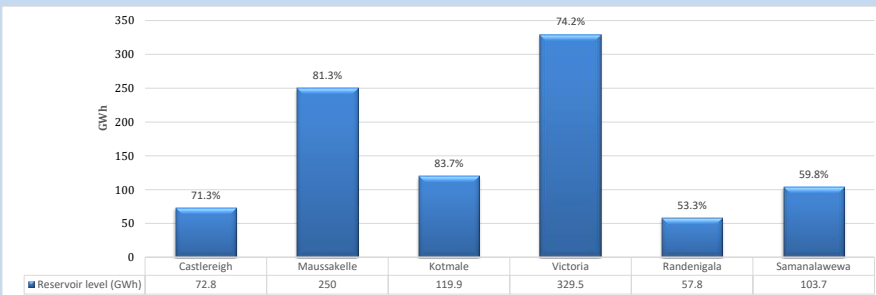
Table 06

Night Peak*	2,474	MW
Day Peak Maximum Demand	2,178	MW
Day Peak Minimum Demand	1,721	MW
Off Peak Minimum Demand	1,465	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 7, 2024



Total Reservoir Level: 933.7 GWh
% of Total capacity: 73.0%

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

August 6, 2024

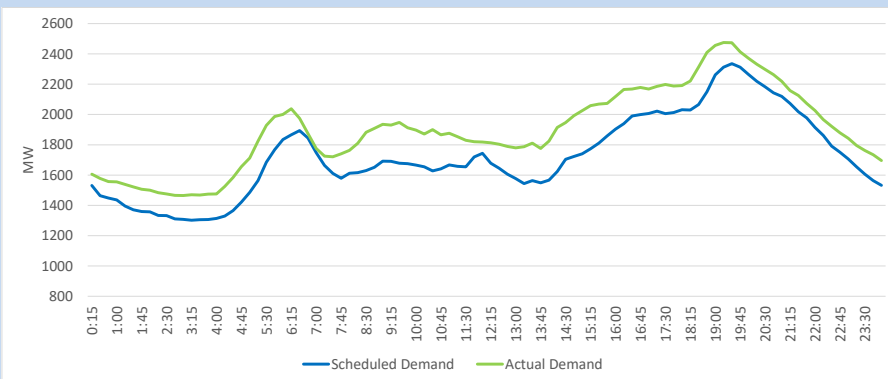
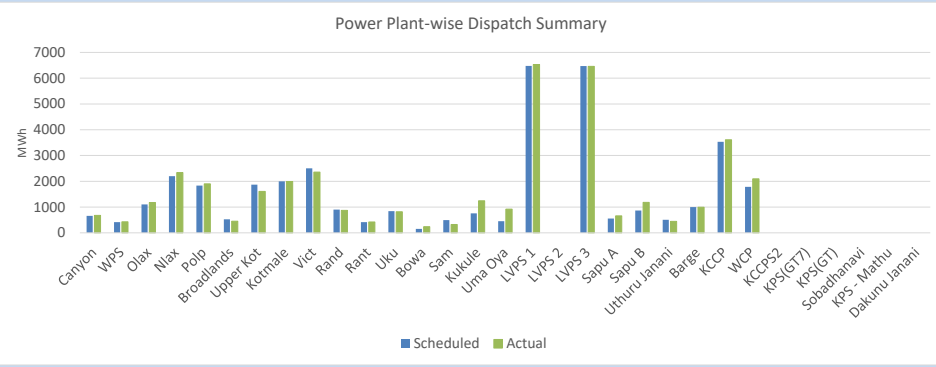


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,103	17,754	651
CEB Coal	12,946	12,987	41
CEB Thermal Oil	6,452	6,888	435
IPP Thermal Oil	1,784	2,095	311
NCRE (Telemetered)	3,098	5,229	2,131
Total	41,383	44,953	3,570

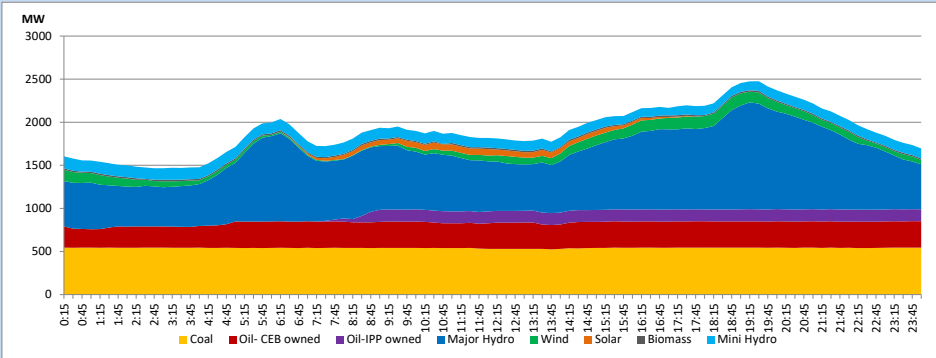
1.12 Power Plant-wise Dispatch Summary

August 6, 2024



1.13 Daily Load Curve

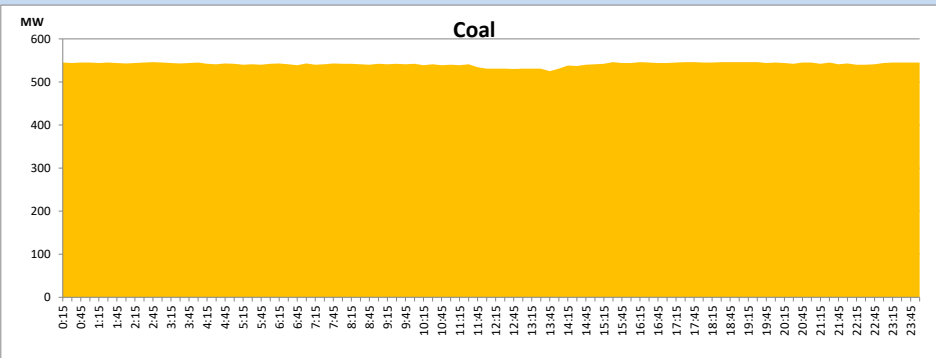
August 6, 2024



Solar and wind data is based on Telemetered Power Stations only

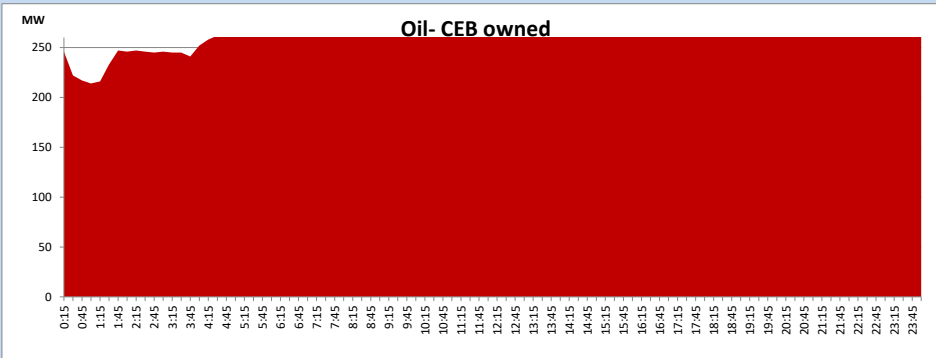
Coal Generation during

August 6, 2024



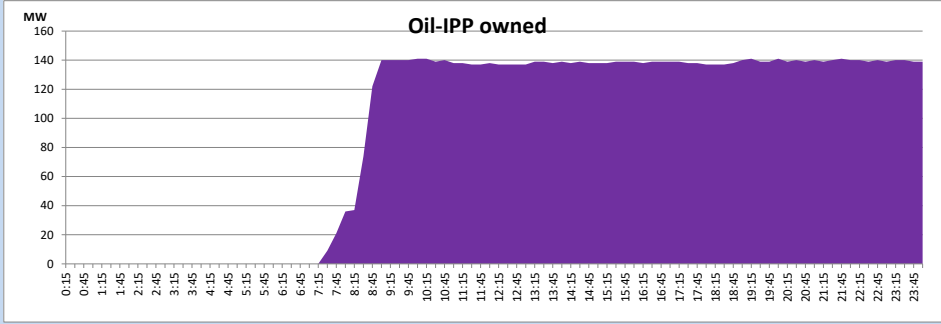
CEB Oil Plant Generation during

August 6, 2024



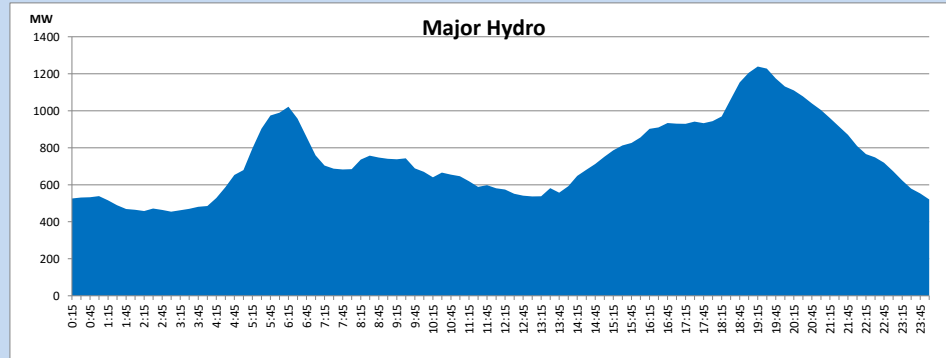
IPP Oil Plant Generation during

August 6, 2024



Major Hydro Generation during

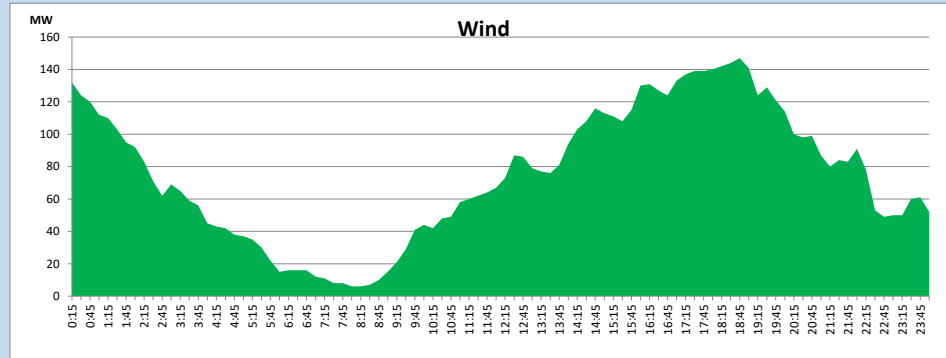
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Wind Generation during

August 6, 2024

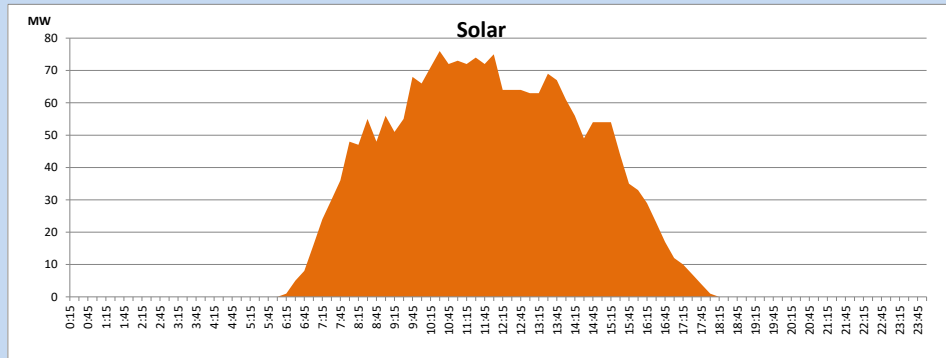
Based on Telemetered Power Stations only



Solar Generation during

August 6, 2024

Based on Telemetered Power Stations only

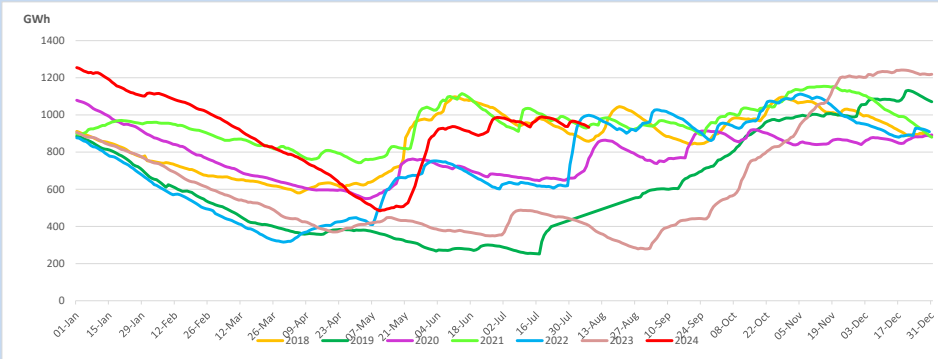


1.14 Major Incidents reported during the day

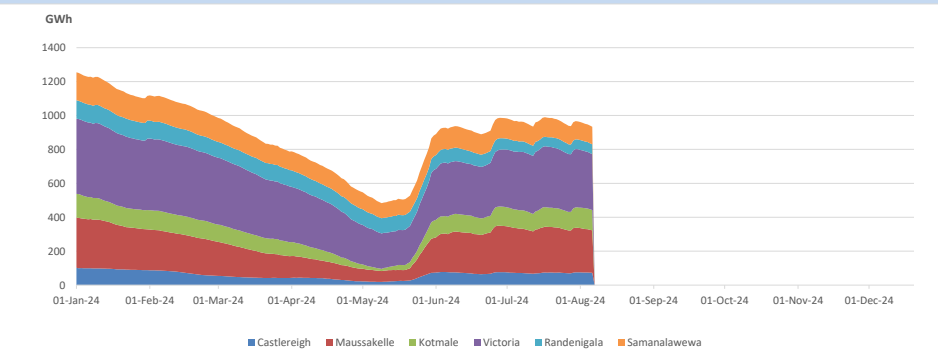
August 6, 2024

1) Nil

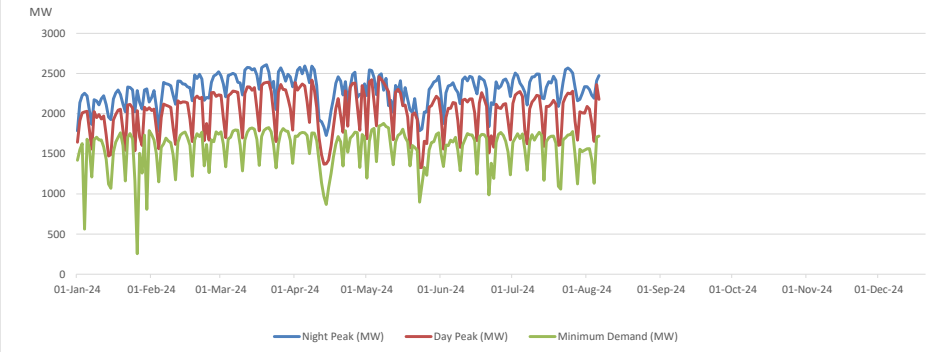
2. Comparison of Total Reservoir Storage Levels with Past Years



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

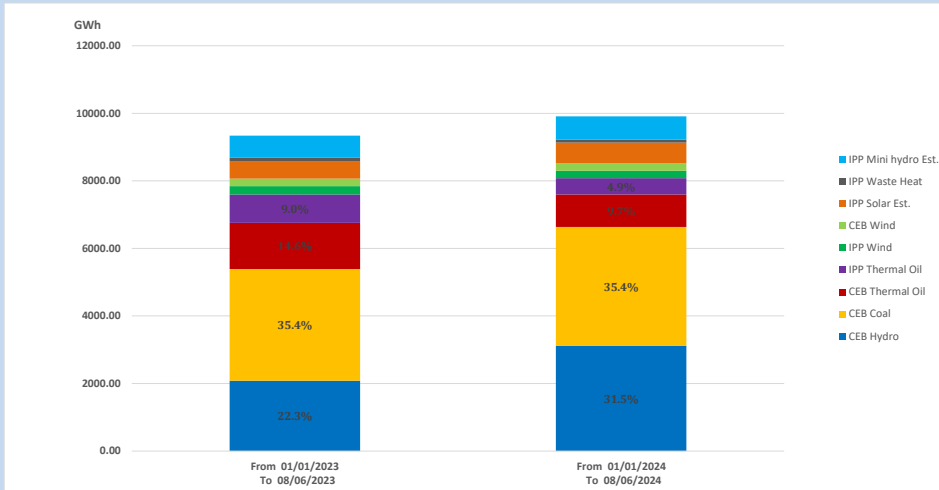


4. Variation of Demand during the current year



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 08/06/2023

9340 GWh

From 01/01/2024 To 08/06/2024

9909 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]