

Generation and Reservoirs Statistics

July 31, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 31, 2024

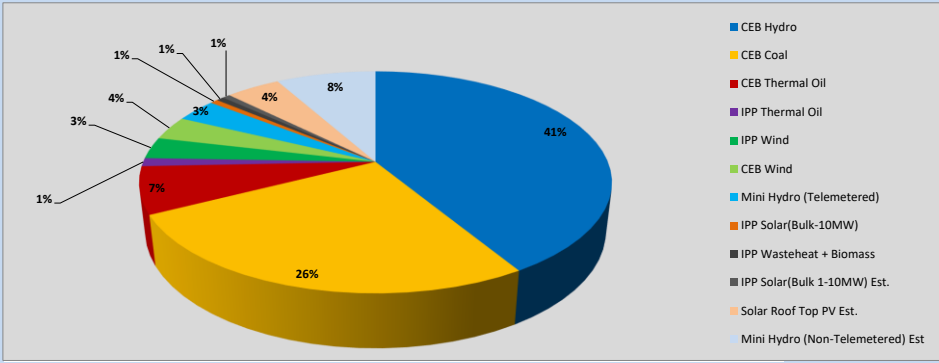


Table 01

	Generation (MWh)
CEB Hydro	20125
CEB Coal	12763
CEB Thermal Oil	3339
IPP Thermal Oil	585
IPP Wind	1522
CEB Wind	1692
Mini Hydro (Telemetered)	1635
IPP Solar (Bulk)	312
IPP Waste heat + Biomass	301
Total Generation (Excluding estimated figures)	42,274
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3972
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	48,720

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	509	35.63%
CEB Coal	430	30.06%
CEB Thermal Oil	114	7.96%
IPP Thermal	42	2.95%
SPP Wind	61	4.25%
CEB Wind	60	4.21%
Mini Hydro *	116	8.09%
IPP Solar *	89	6.21%
IPP Waste heat + BMP	9	0.65%
Total	1,429	

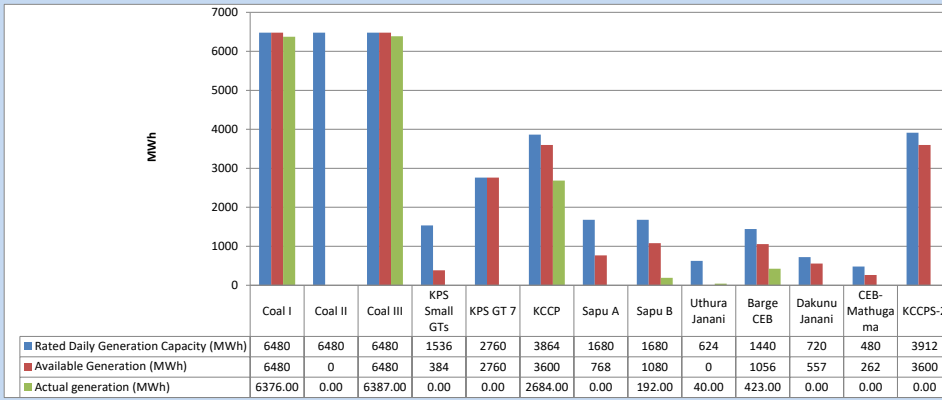
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,017	31.32%
CEB Coal	3,434	35.65%
CEB Thermal Oil	930	9.66%
IPP Thermal	476	4.94%
SPP Wind	213	2.21%
CEB Wind	216	2.24%
Mini Hydro *	665	6.90%
IPP Solar *	595	6.18%
IPP Waste heat	87	0.90%
Total	9,632	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

July 31, 2024

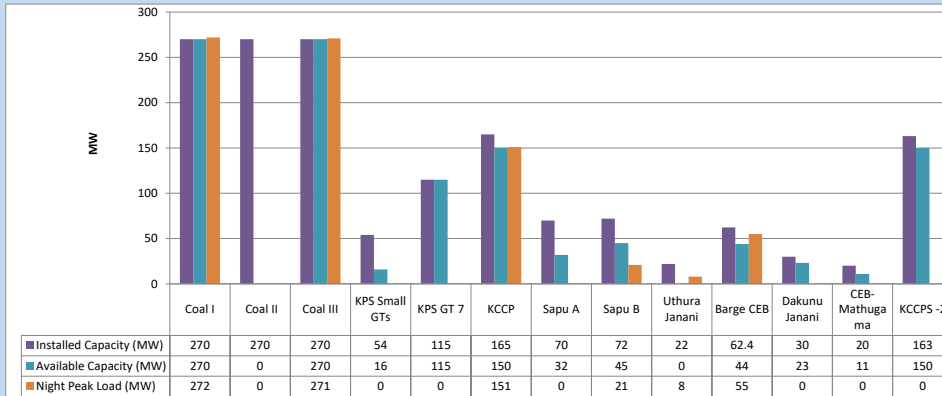


Available Generation is estimated based on plant availability at 6.00am on

August 1, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

July 31, 2024

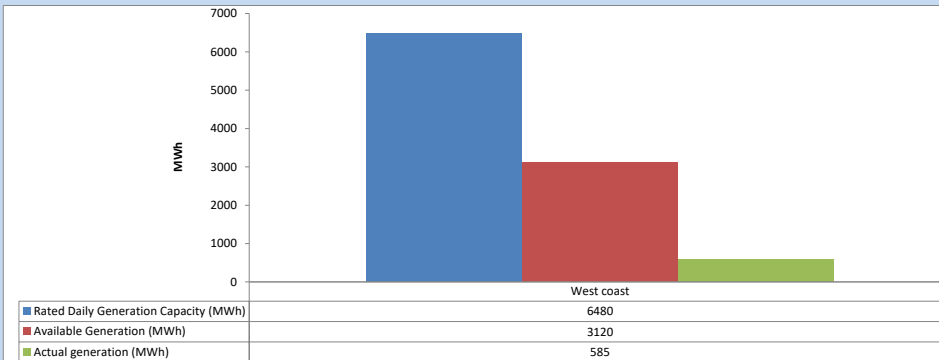


Plant availability is recorded at 6.00 am on

August 1, 2024

1.4 IPP owned Thermal Plant Dispatch

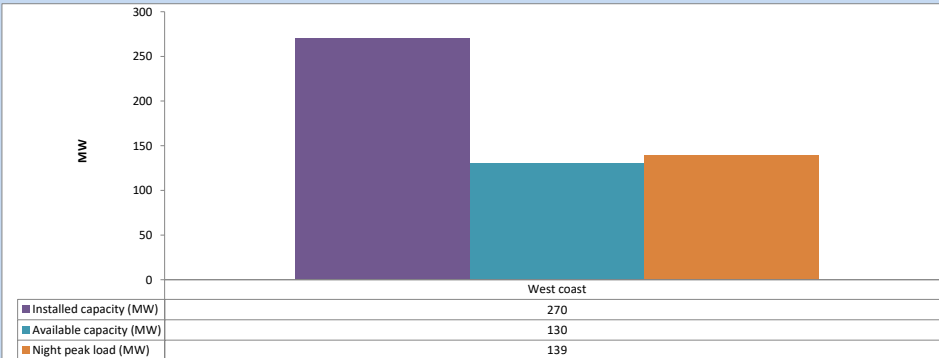
July 31, 2024



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

August 1, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

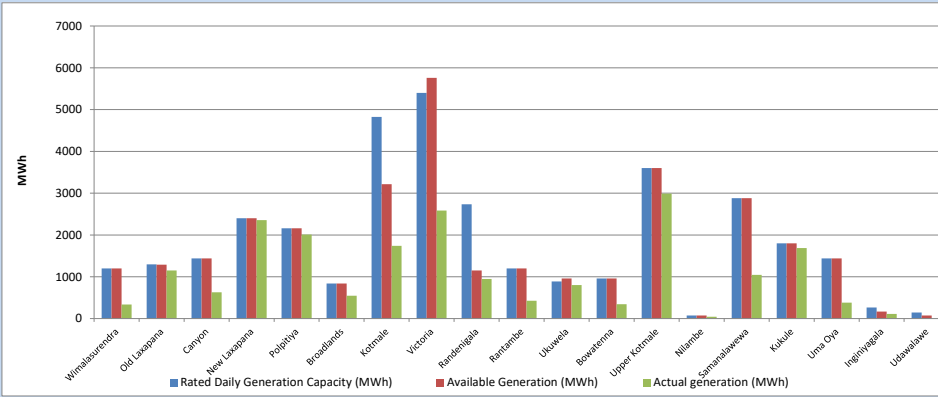


Plant availability is recorded at 6.00 am on

August 1, 2024

1.6 Major Hydro Plant Dispatch

July 31, 2024

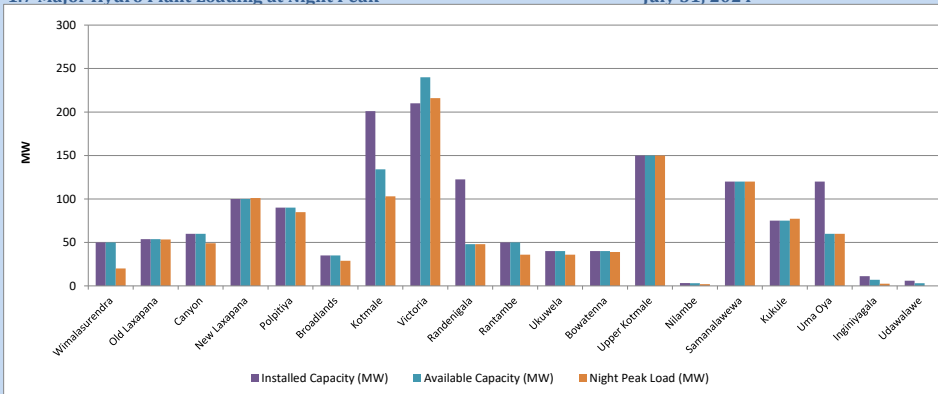


Available Generation is estimated based on plant availability at 6.00am on

August 1, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 31, 2024



Plant availability is recorded at 6.00 am on

August 1, 2024

1.8 Summary of Major Plant performance

July 31, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	335
Old Laxapana	54	54	53	1,150
Canyon	60	60	49	630
New Laxapana	100	100	101	2,354
Polpitiya	90	90	85	2,010
Broadlands	35	35	29	548
Kotmale	201	134	103	1,740
Victoria	210	240	216	2,585
Randenigala	123	48	48	946
Rantambe	50	50	36	426
Ukuwela	40	40	36	802
Bowatenna	40	40	39	344
Upper Kotmale	150	150	150	2,991
Nilambe	3	3	2	42
Samanalawewa	120	120	120	1,045
Kukule	75	75	77	1,686
Uma Oya	120	60	60	381
Inginipigala	11	7	3	110
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	272	6,376
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,387
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	2,684
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	45	21	192
Uthura Janani	22	0	8	40
Barge CEB	62	44	55	423
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	585
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,615	2,322	42,274

Note-

Plant availability is the availability recorded at 6 am on

August 1, 2024

1.9 Contribution to the Night Peak in MW

July 31, 2024

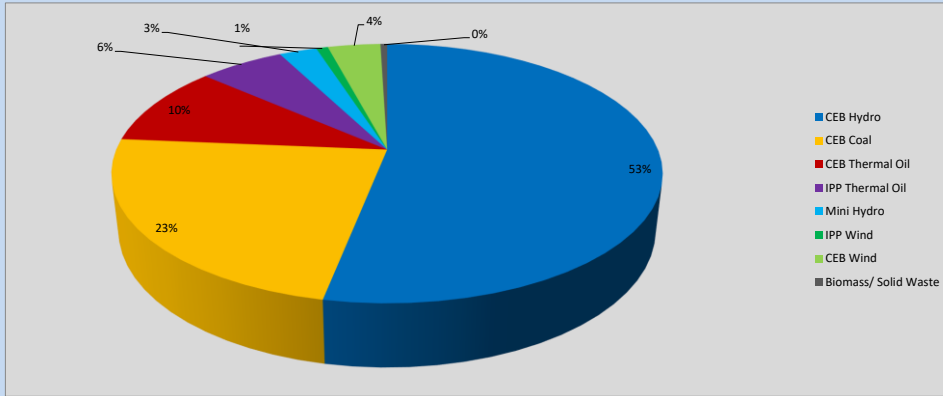


Table 05

CEB Hydro	1241	MW
CEB Coal	543	MW
CEB Thermal Oil	235	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	62	MW
IPP Wind	19.3	MW
CEB Wind	86.4	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

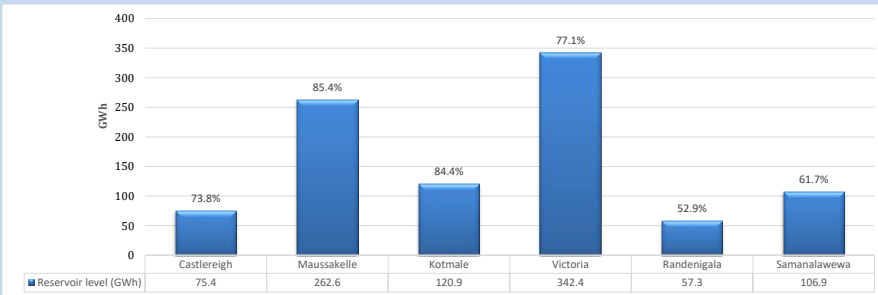
Table 06

Night Peak*	2,336	MW
Day Peak Maximum Demand	2,007	MW
Day Peak Minimum Demand	1,545	MW
Off Peak Minimum Demand	1,302	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 1, 2024



Total Reservoir Level
965.5 GWh
% of Total capacity
75.5%

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

July 31, 2024

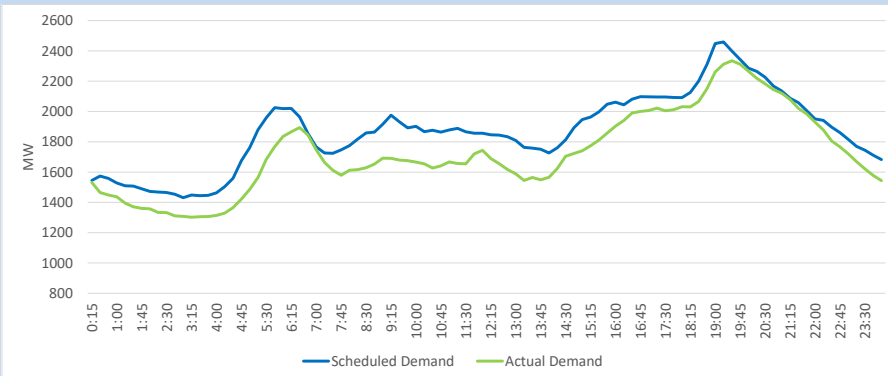
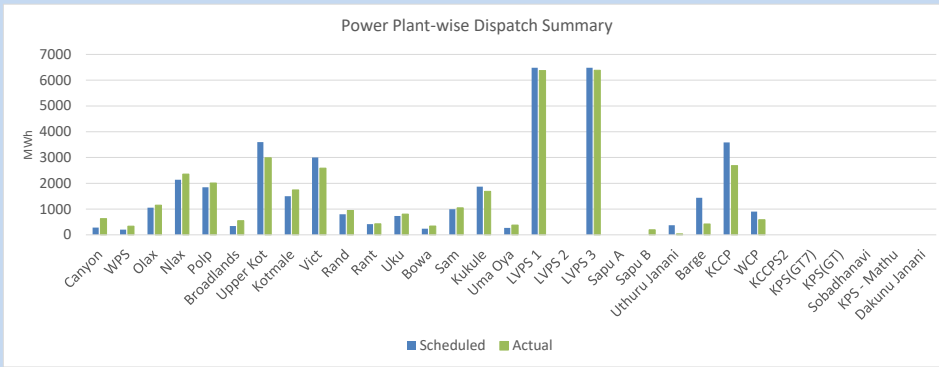


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	19,275	19,973	698
CEB Coal	12,960	12,763	-197
CEB Thermal Oil	5,393	3,340	-2052
IPP Thermal Oil	903	585	-318
NCRE (Telemetered)	6,288	4,316	-1972
Total	44,819	40,977	-3842

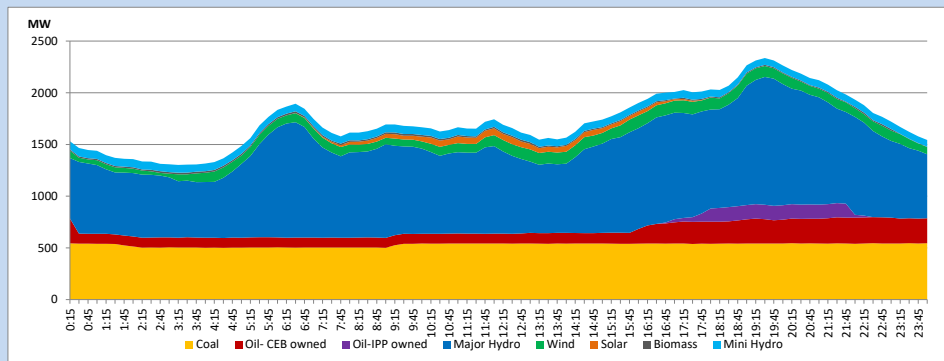
1.12 Power Plant-wise Dispatch Summary

July 31, 2024



1.13 Daily Load Curve

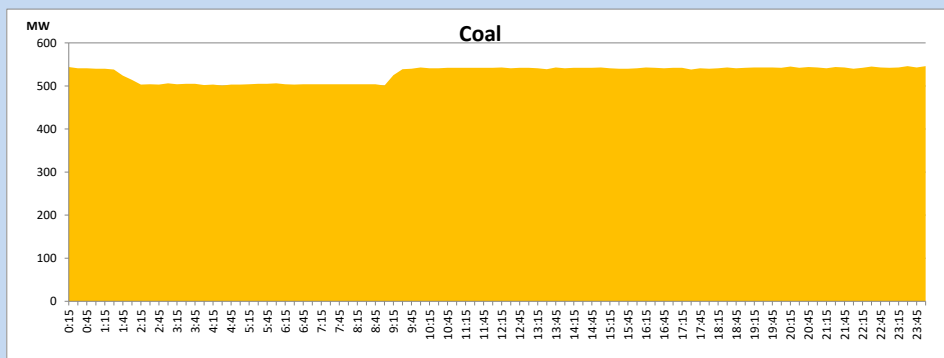
July 31, 2024



Solar and wind data is based on Telemetered Power Stations only

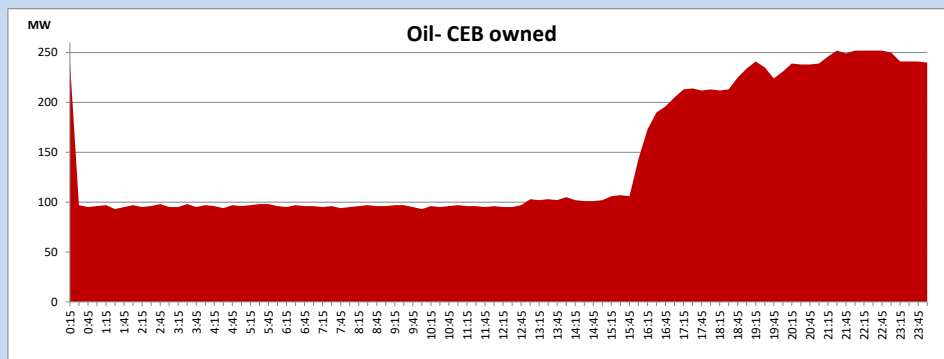
Coal Generation during

July 31, 2024

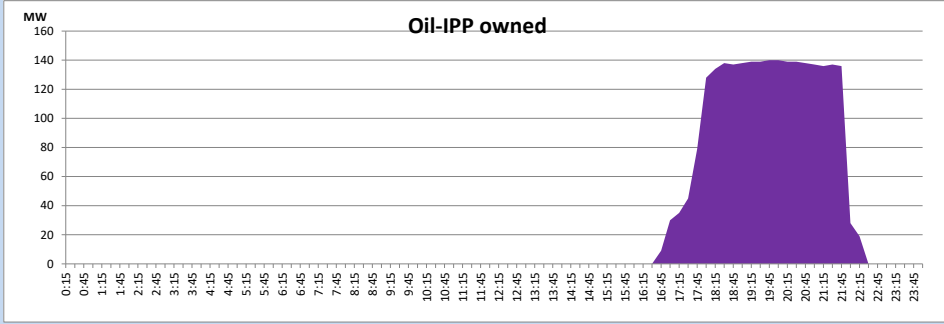


CEB Oil Plant Generation during

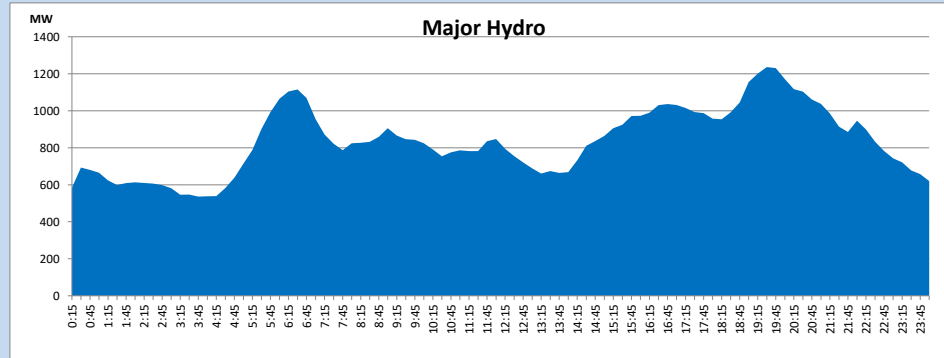
July 31, 2024



IPP Oil Plant Generation during July 31, 2024

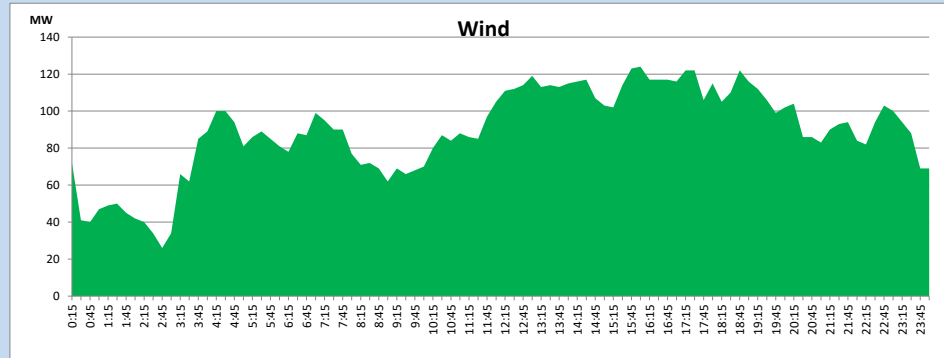


Major Hydro Generation during July 31, 2024



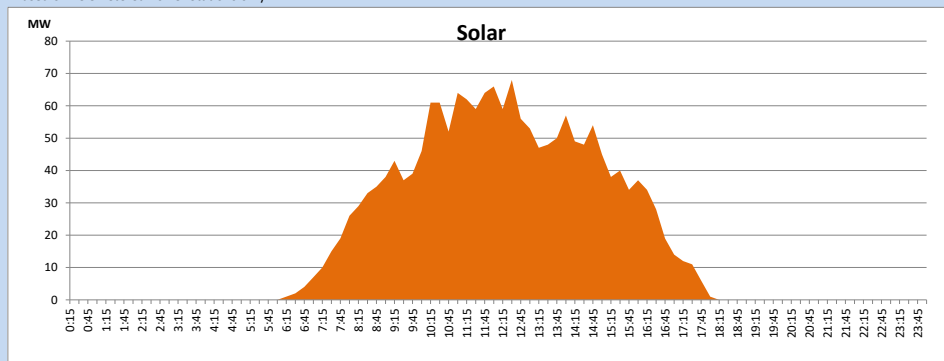
Wind Generation during July 31, 2024

Based on Telemetered Power Stations only



Solar Generation during July 31, 2024

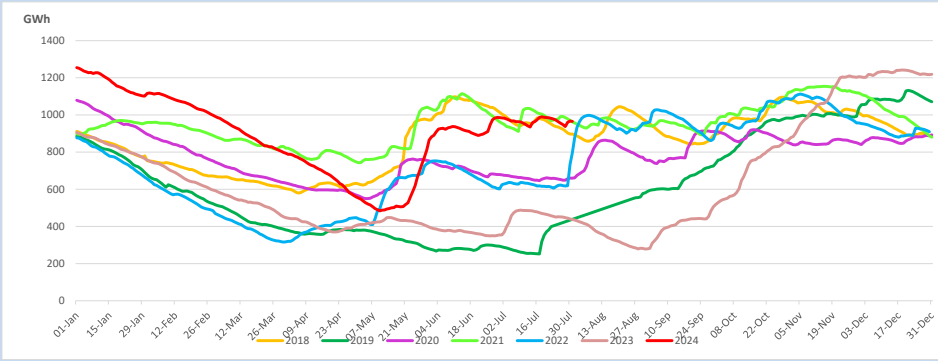
Based on Telemetered Power Stations only



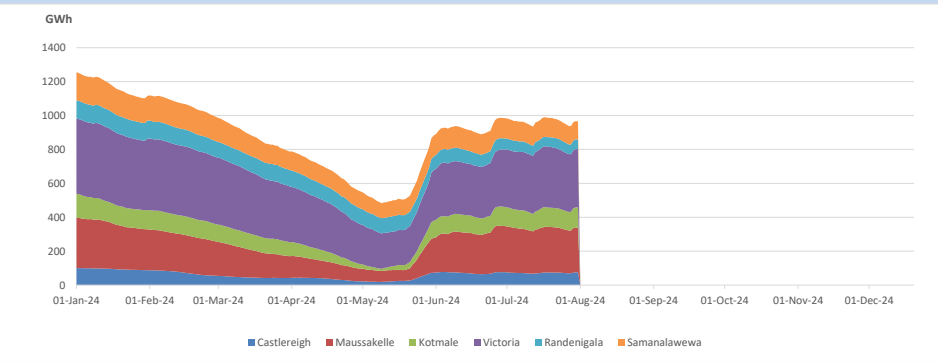
1.14 Major Incidents reported during the day July 31, 2024

1) Nil

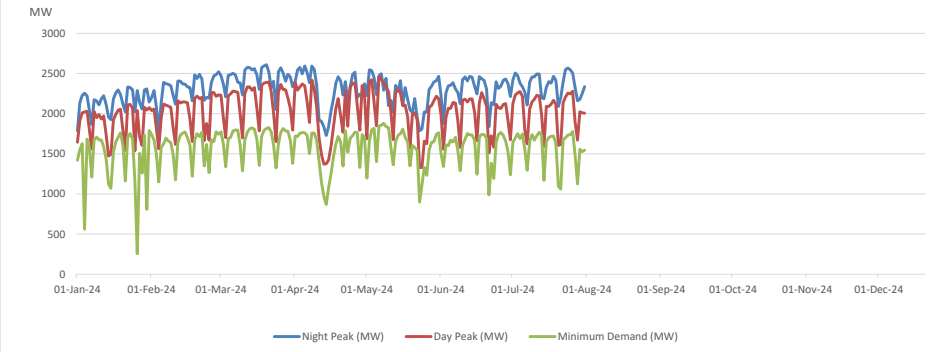
2. Comparison of Total Reservoir Storage Levels with Past Years



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

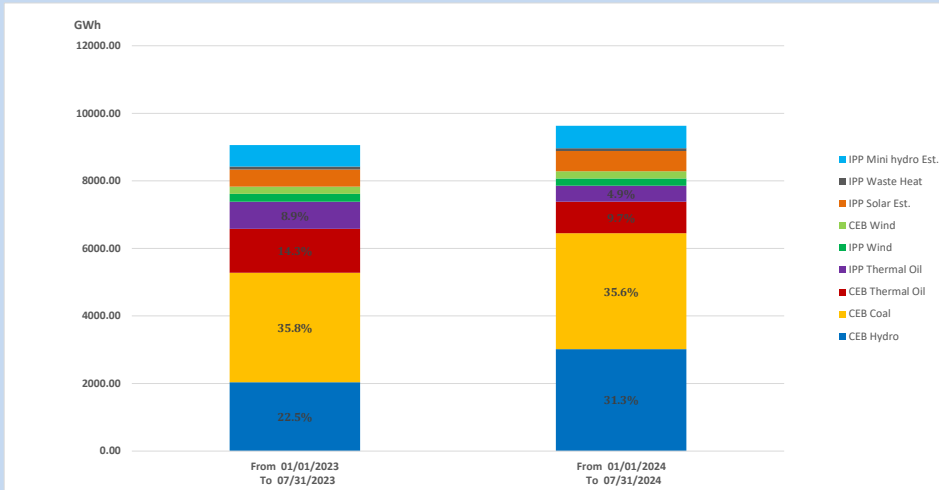


4. Variation of Demand during the current year



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 07/31/2023

9061 GWh

From 01/01/2024 To 07/31/2024

9632 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]