

# Generation and Reservoirs Statistics

July 30, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

July 30, 2024

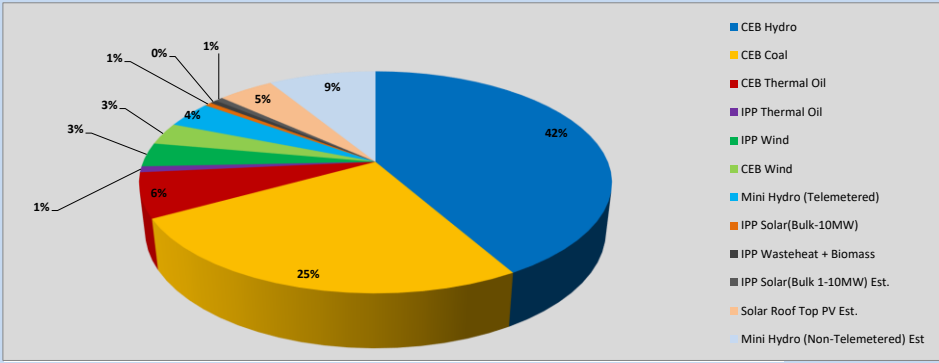


Table 01

	Generation (MWh)
CEB Hydro	19836
CEB Coal	11995
CEB Thermal Oil	3086
IPP Thermal Oil	410
IPP Wind	1660
CEB Wind	1533
Mini Hydro (Telemetered)	1834
IPP Solar (Bulk)	274
IPP Waste heat + Biomass	256
<b>Total Generation (Excluding estimated figures)</b>	<b>40,884</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	4169
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
<b>Total Generation (Including estimated figures)</b>	<b>47,527</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	489	35.43%
CEB Coal	417	30.19%
CEB Thermal Oil	110	8.00%
IPP Thermal	42	3.01%
SPP Wind	59	4.29%
CEB Wind	59	4.24%
Mini Hydro *	110	7.97%
IPP Solar *	86	6.22%
IPP Waste heat + BMP	9	0.65%
<b>Total</b>	<b>1,381</b>	

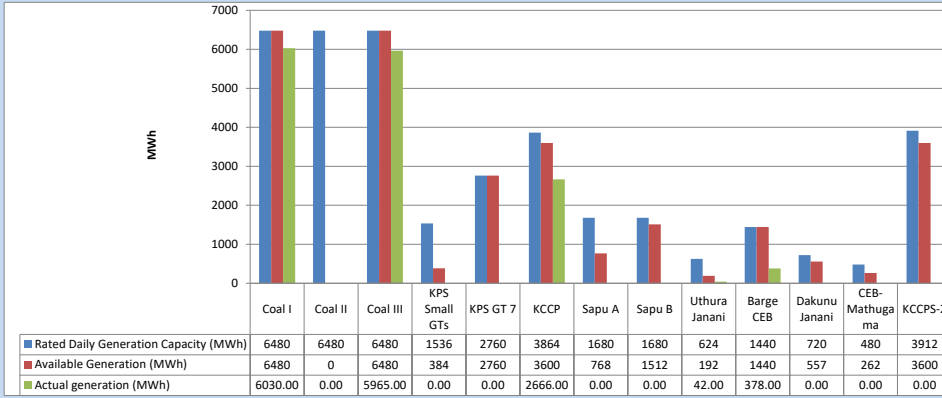
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,997	31.27%
CEB Coal	3,421	35.70%
CEB Thermal Oil	927	9.67%
IPP Thermal	475	4.96%
SPP Wind	211	2.20%
CEB Wind	214	2.24%
Mini Hydro *	659	6.88%
IPP Solar *	592	6.18%
IPP Waste heat	86	0.90%
<b>Total</b>	<b>9,584</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 30, 2024

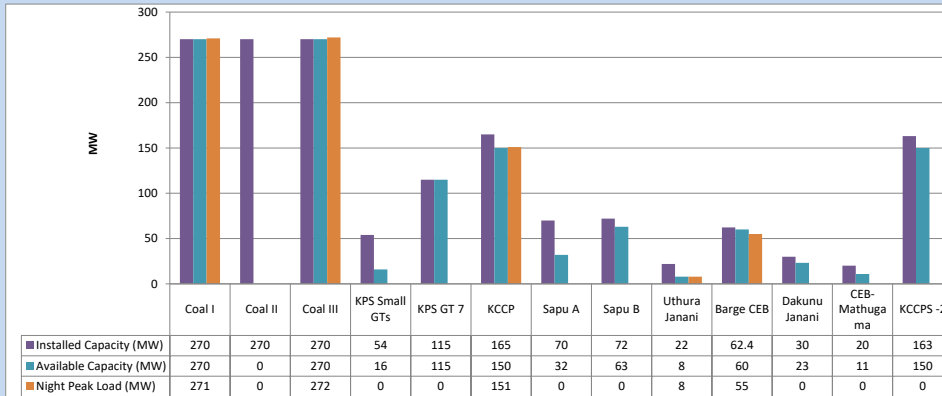


Available Generation is estimated based on plant availability at 6.00am on

July 31, 2024

### 1.3 CEB owned Thermal Plant Loading at the Night Peak

July 30, 2024

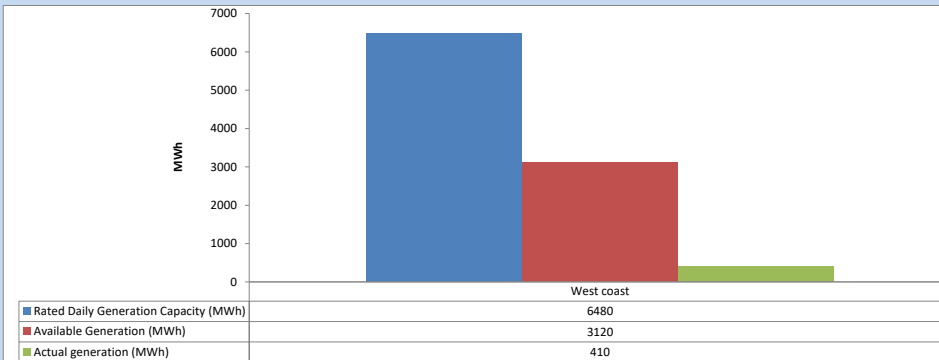


Plant availability is recorded at 6.00 am on

July 31, 2024

### 1.4 IPP owned Thermal Plant Dispatch

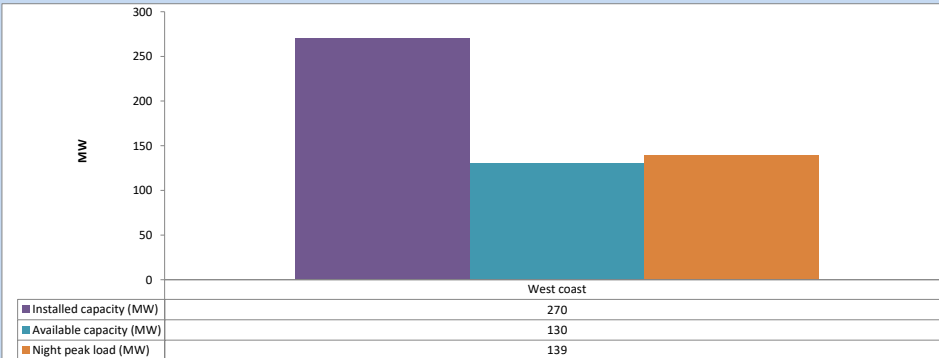
July 30, 2024



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

July 31, 2024

### 1.5 IPP owned Thermal Plant Loading at the Night Peak

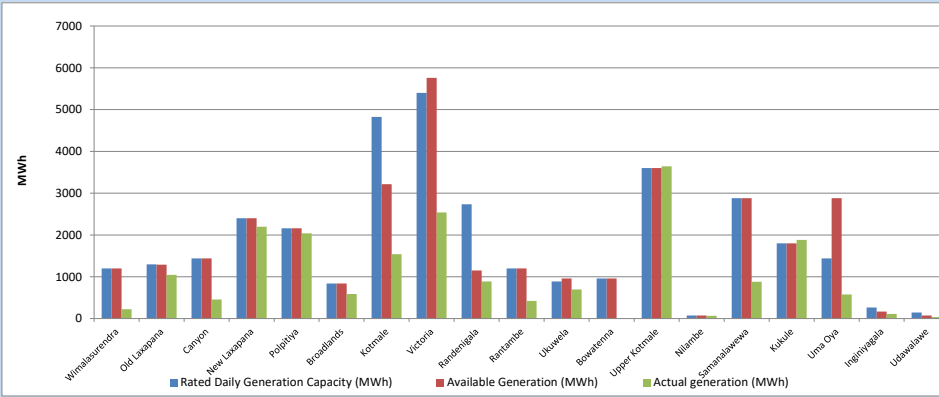


Plant availability is recorded at 6.00 am on

July 31, 2024

1.6 Major Hydro Plant Dispatch

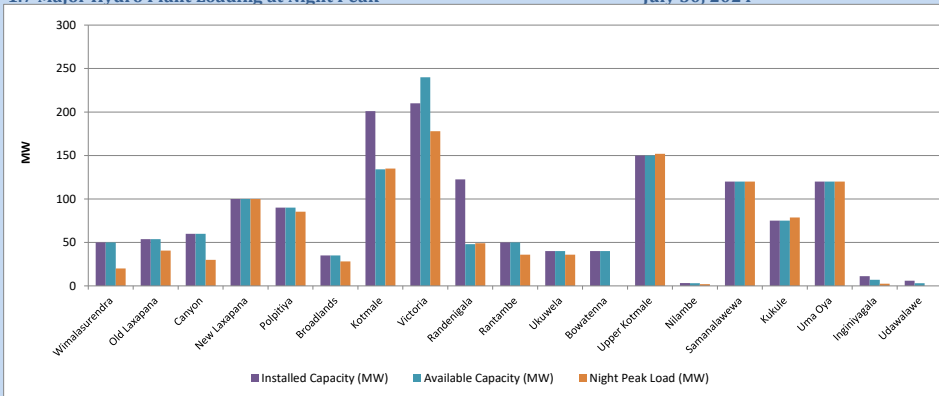
July 30, 2024



Available Generation is estimated based on plant availability at 6.00am on July 31, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 30, 2024



Plant availability is recorded at 6.00 am on July 31, 2024

1.8 Summary of Major Plant performance

July 30, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	225
Old Laxapana	54	54	41	1,045
Canyon	60	60	30	458
New Laxapana	100	100	100	2,198
Polpitiya	90	90	85	2,040
Broadlands	35	35	28	588
Kotmale	201	134	135	1,540
Victoria	210	240	178	2,539
Randenigala	123	48	49	886
Rantambe	50	50	36	424
Ukuwela	40	40	36	697
Bowatenna	40	40	0	0
Upper Kotmale	150	150	152	3,642
Nilambe	3	3	2	66
Samanalawewa	120	120	120	881
Kukule	75	75	79	1,883
Uma Oya	120	120	120	578
Inginipigala	11	7	3	112
Udawalawe	6	3	0	35
Puttalam Coal I	270	270	271	6,030
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	272	5,965
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	2,666
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	0	0
Uthura Janani	22	8	8	42
Barge CEB	62	60	55	378
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	410
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
<b>Total</b>	<b>3,594</b>	<b>2,717</b>	<b>2,235</b>	<b>40,885</b>

Note- Plant availability is the availability recorded at 6 am on July 31, 2024

1.9 Contribution to the Night Peak in MW

July 30, 2024

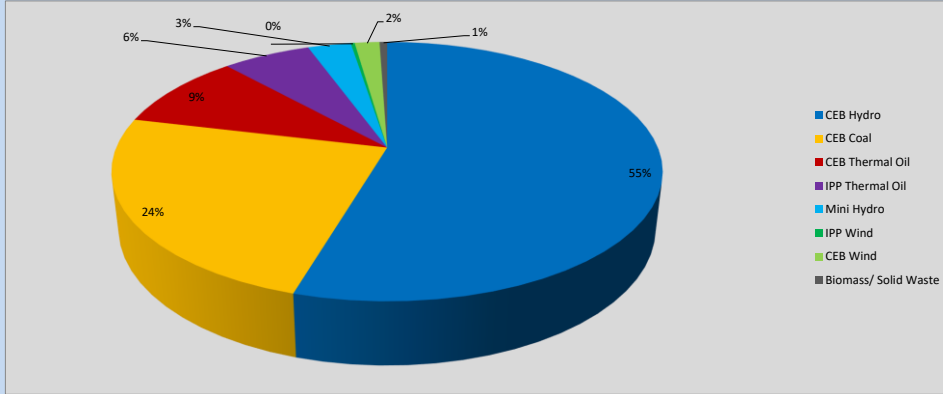


Table 05

CEB Hydro	1228	MW
CEB Coal	543	MW
CEB Thermal Oil	214	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	68	MW
IPP Wind	6.2	MW
CEB Wind	39.2	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

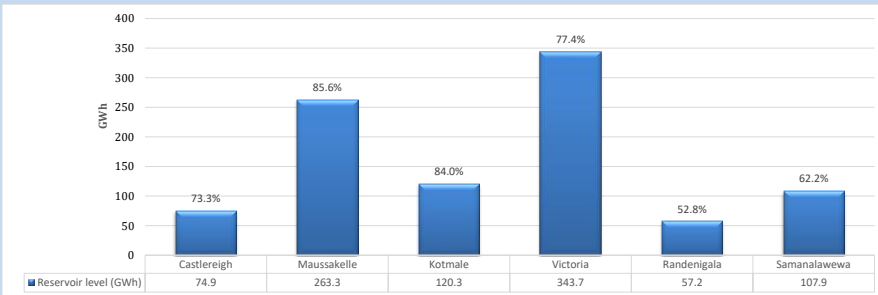
Table 06

Night Peak*	2,250	MW
Day Peak Maximum Demand	2,009	MW
Day Peak Minimum Demand	1,528	MW
Off Peak Minimum Demand	1,129	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 July 31, 2024



Total Reservoir Level 967.3 GWh  
% of Total capacity 75.6%

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

July 30, 2024

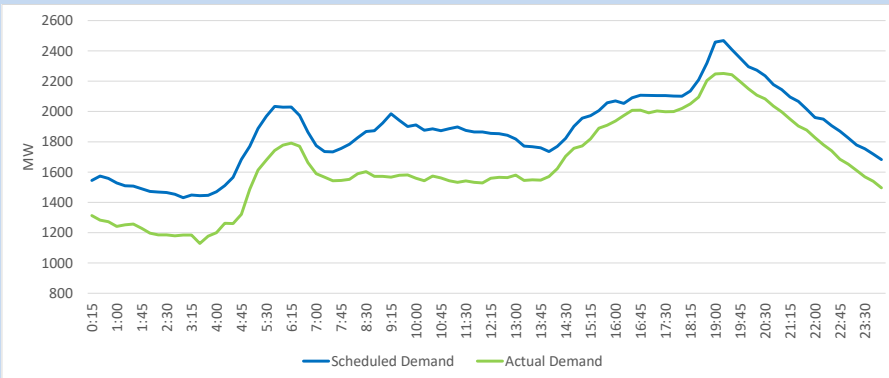
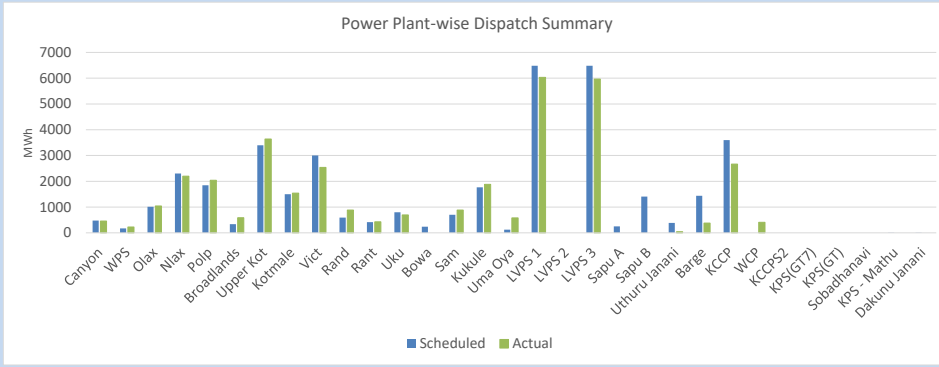


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	18,662	19,623	961
CEB Coal	12,960	11,995	-965
CEB Thermal Oil	7,087	3,086	-4001
IPP Thermal Oil		410	410
NCRE (Telemetered)	6,288	4,452	-1836
<b>Total</b>	<b>44,997</b>	<b>39,566</b>	<b>-5431</b>

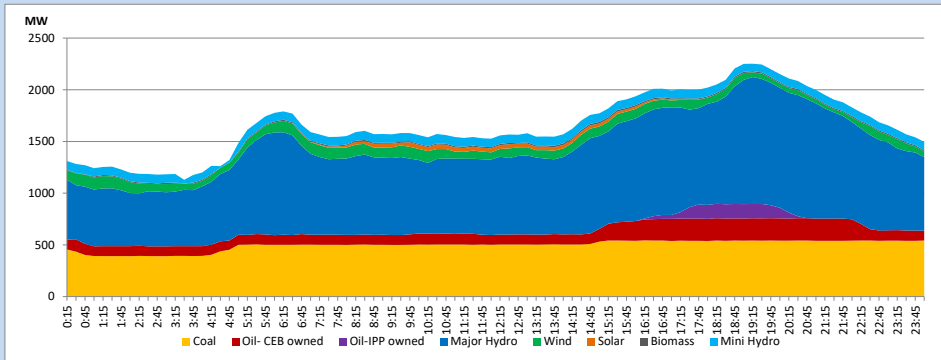
1.12 Power Plant-wise Dispatch Summary

July 30, 2024



1.13 Daily Load Curve

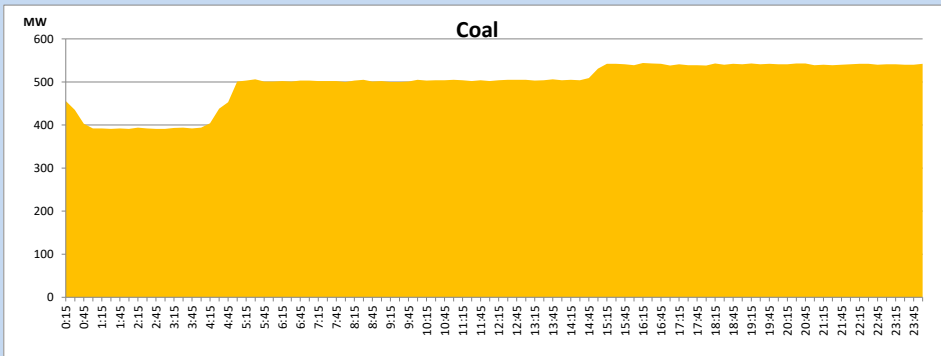
July 30, 2024



Solar and wind data is based on Telemetered Power Stations only

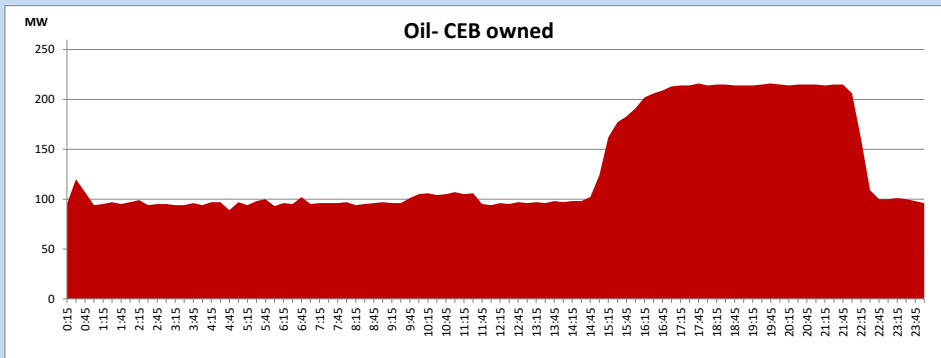
Coal Generation during

July 30, 2024

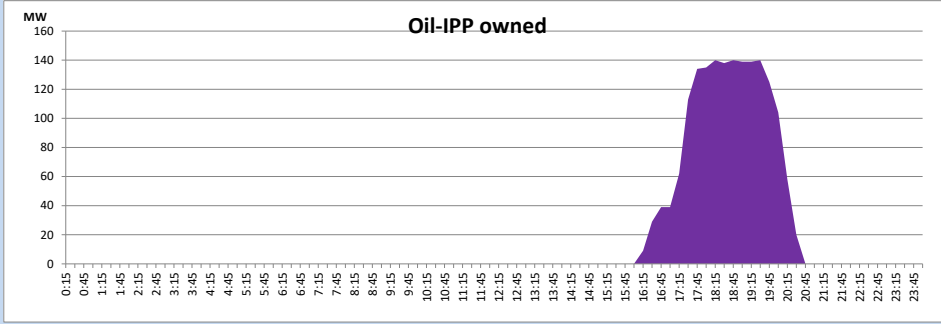


CEB Oil Plant Generation during

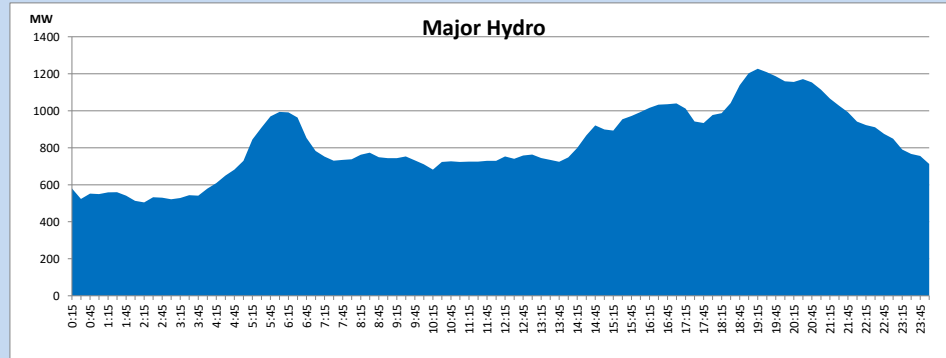
July 30, 2024



**IPP Oil Plant Generation during July 30, 2024**

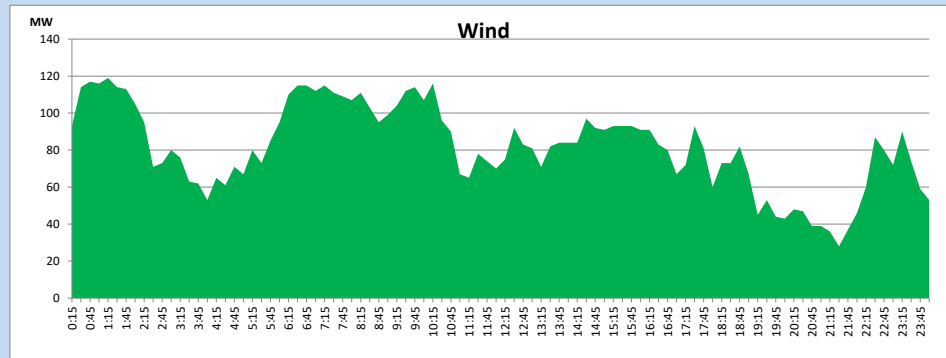


**Major Hydro Generation during July 30, 2024**



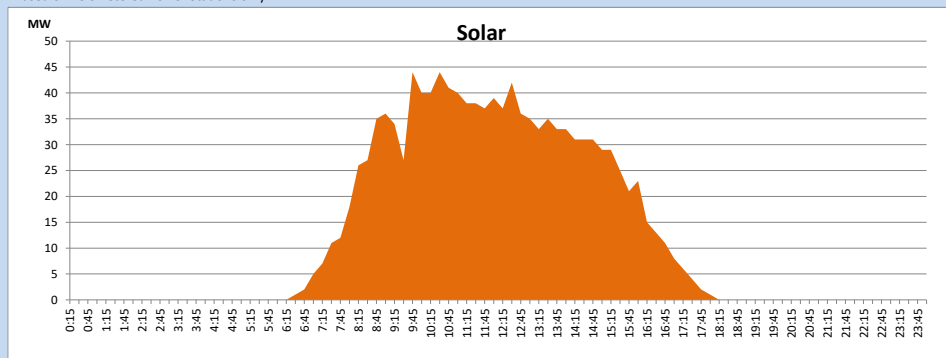
**Wind Generation during July 30, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 30, 2024**

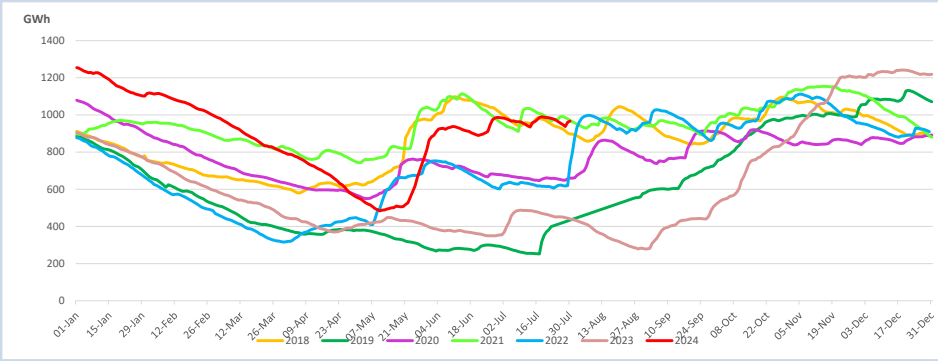
Based on Telemetered Power Stations only



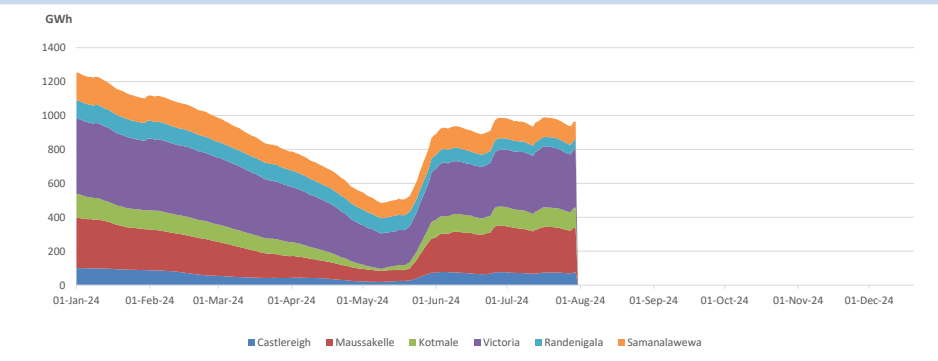
**1.14 Major Incidents reported during the day July 30, 2024**

- 1) Kukule Ganga pond spilling started at 08:30hrs and spilling stopped at 18:30hrs.
- 2). Upper Kotmale pond spilling stopped at 23:47hrs.

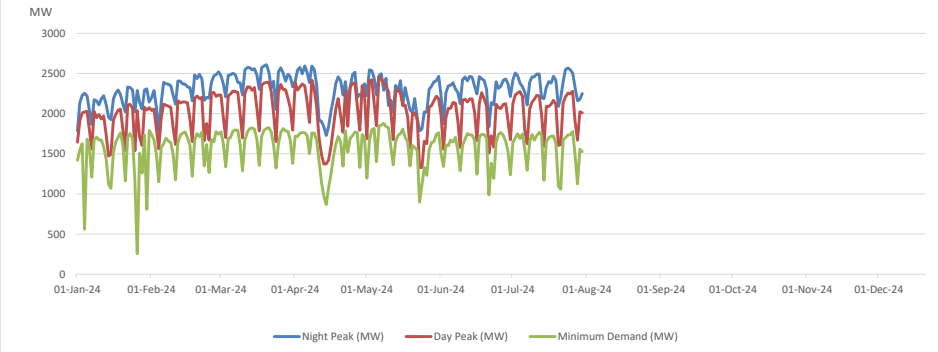
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



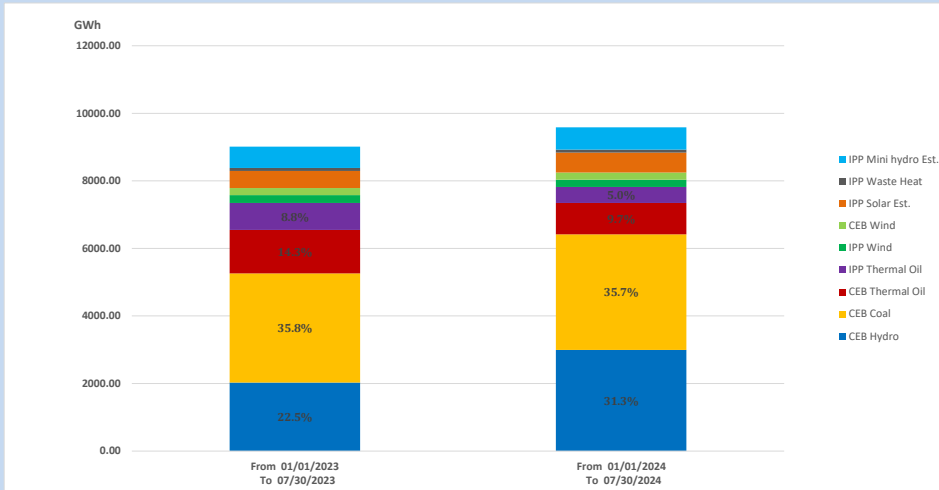
## 4. Variation of Demand during the current year



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 07/30/2023

9014 GWh

From 01/01/2024 To 07/30/2024

9584 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]