

# Generation and Reservoirs Statistics

July 22, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 22, 2024

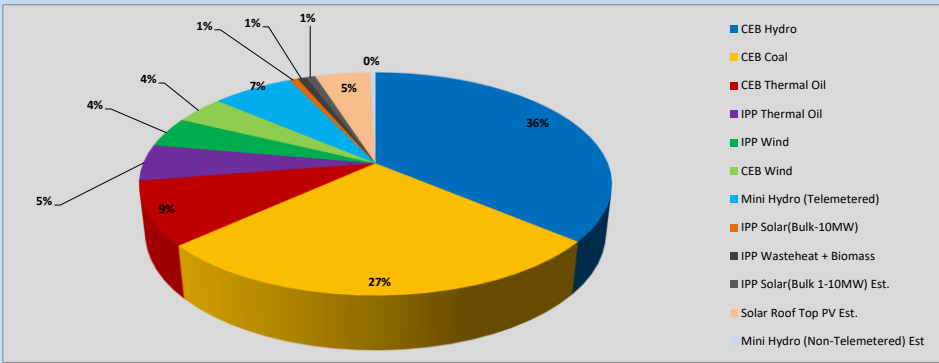


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	17178
CEB Coal	CEB Coal	12967
CEB Thermal Oil	CEB Thermal Oil	4381
IPP Thermal Oil	IPP Thermal Oil	2493
IPP Wind	IPP Wind	2089
CEB Wind	CEB Wind	1944
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	3174
IPP Solar (Bulk)	IPP Solar (Bulk)	324
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	332
<b>Total Generation (Excluding estimated figures)</b>		<b>44,882</b>
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		191
* Estimated IPP Solar PV (Bulk 1-10MW)		371
* Estimated Solar Roof Top PV		2170
<b>Total Generation (Including estimated figures)</b>		<b>47,614</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 06 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	357	35.61%
CEB Coal	315	31.42%
CEB Thermal Oil	68	6.79%
IPP Thermal	21	2.06%
SPP Wind	44	4.43%
CEB Wind	43	4.33%
Mini Hydro *	83	8.31%
IPP Solar *	63	6.32%
IPP Waste heat + BMP	7	0.72%
<b>Total</b>	<b>1,003</b>	

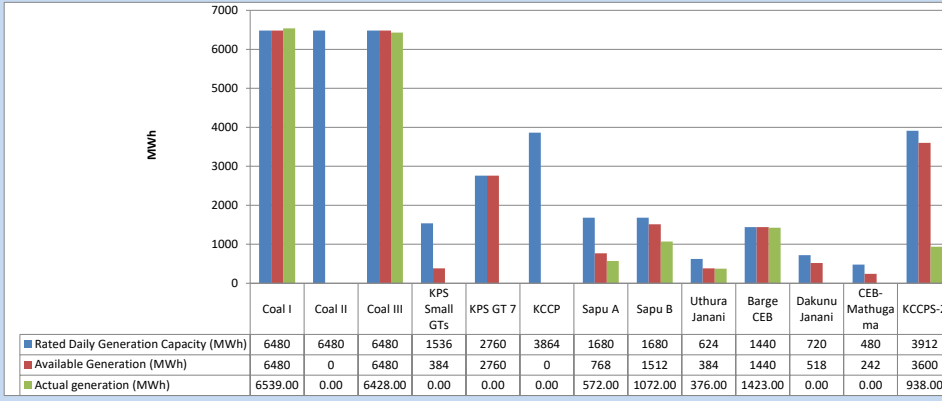
Table 07 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,865	31.12%
CEB Coal	3,320	36.06%
CEB Thermal Oil	885	9.61%
IPP Thermal	454	4.93%
SPP Wind	197	2.13%
CEB Wind	199	2.17%
Mini Hydro *	632	6.87%
IPP Solar *	570	6.19%
IPP Waste heat	85	0.92%
<b>Total</b>	<b>9,206</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 22, 2024

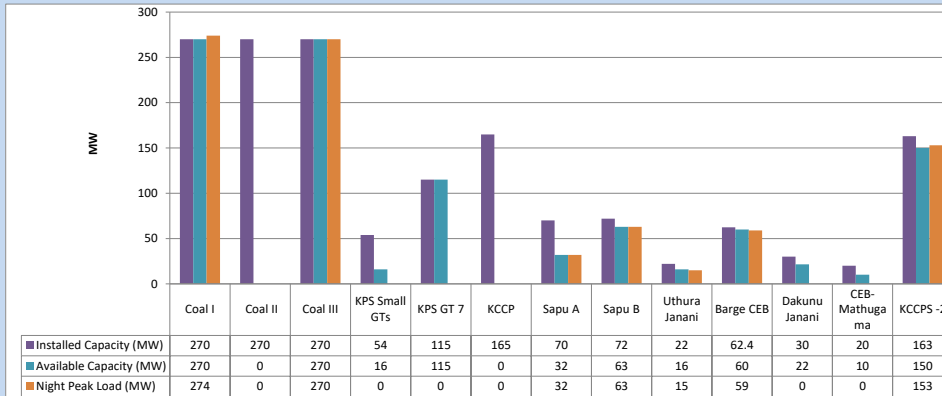


Available Generation is estimated based on plant availability at 6.00am on

July 23, 2024

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

July 22, 2024

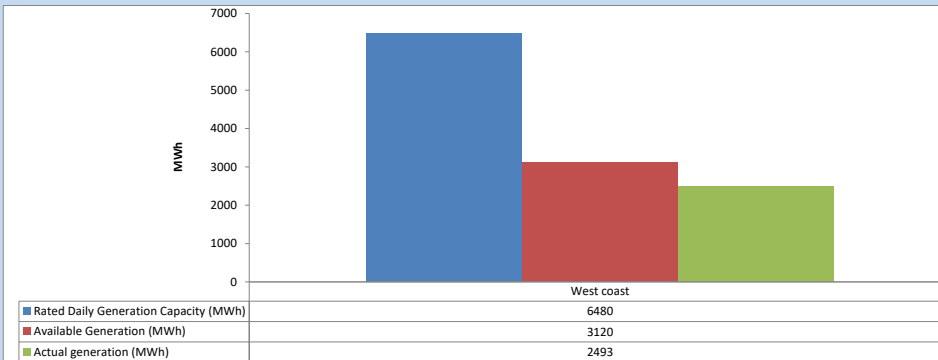


Plant availability is recorded at 6.00 am on

July 23, 2024

### 1.4 IPP owned Thermal Plant Dispatch

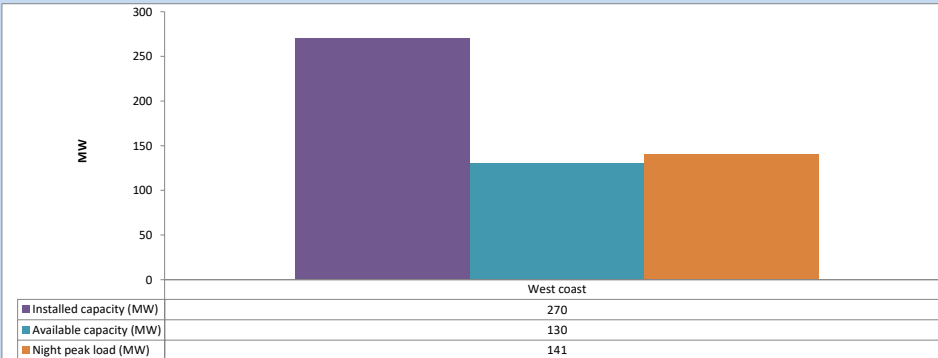
July 22, 2024



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

July 23, 2024

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

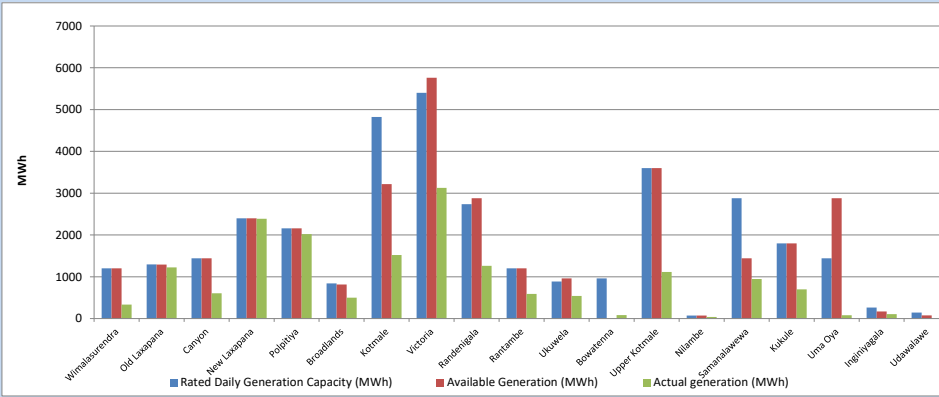


Plant availability is recorded at 6.00 am on

July 23, 2024

1.6 Major Hydro Plant Dispatch

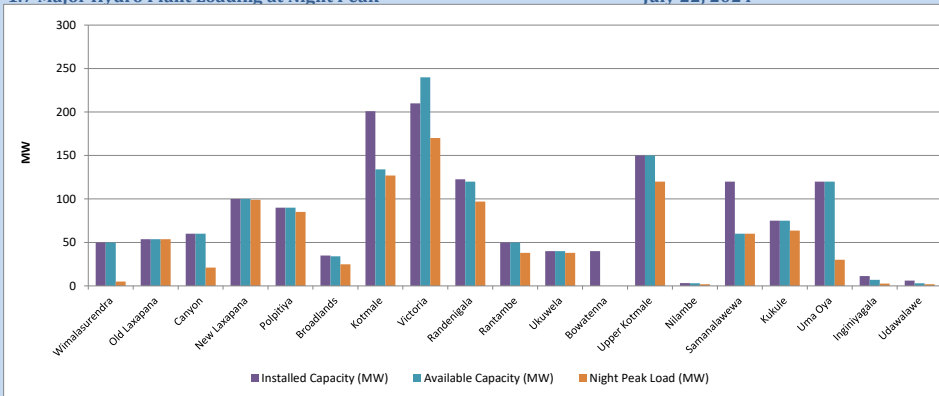
July 22, 2024



Available Generation is estimated based on plant availability at 6.00am on July 23, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 22, 2024



Plant availability is recorded at 6.00 am on July 23, 2024

1.8 Summary of Major Plant performance

July 22, 2024

Table 03

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	5	334
Old Laxapana	54	54	54	1,226
Canyon	60	60	21	606
New Laxapana	100	100	99	2,387
Polpitiya	90	90	85	2,020
Broadlands	35	34	25	499
Kotmale	201	134	127	1,520
Victoria	210	240	170	3,126
Randenigala	123	120	97	1,261
Rantambe	50	50	38	591
Ukuwela	40	40	38	542
Bowatenna	40	0	0	84
Upper Kotmale	150	150	120	1,115
Nilambe	3	3	2	40
Samanalawewa	120	60	60	945
Kukule	75	75	64	700
Uma Oya	120	120	30	79
Inginipigala	11	7	3	105
Udawalawe	6	3	2	0
Puttalam Coal I	270	270	274	6,539
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,428
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	0	0	0
Sapugaskanda A	70	32	32	572
Sapugaskanda B	72	63	63	1,072
Uthura Janani	22	16	15	376
Barge CEB	62	60	59	1,423
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	10	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	153	938
West Coast	270	130	141	2,493
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,544	2,381	44,884

Note- Plant availability is the availability recorded at 6 am on July 23, 2024

1.9 Contribution to the Night Peak in MW

July 22, 2024

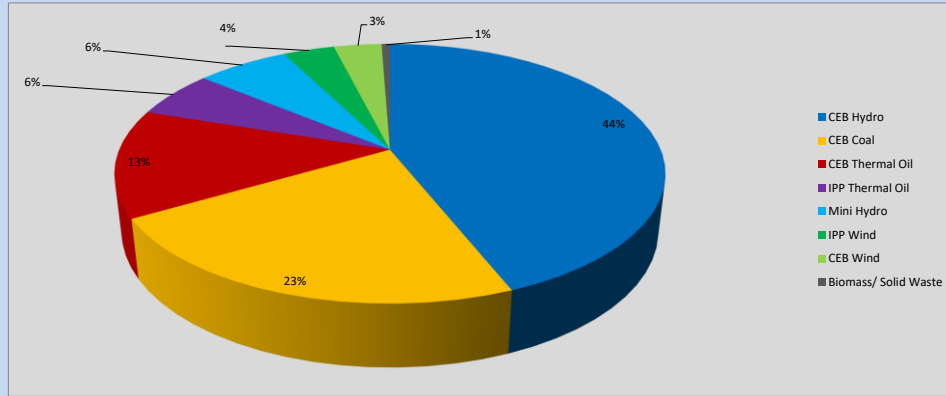


Table 04

CEB Hydro	1051	MW
CEB Coal	544	MW
CEB Thermal Oil	322	MW
IPP Thermal Oil	141	MW
Mini Hydro (Telemetered)	155	MW
IPP Wind	86.4	MW
CEB Wind	80.3	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

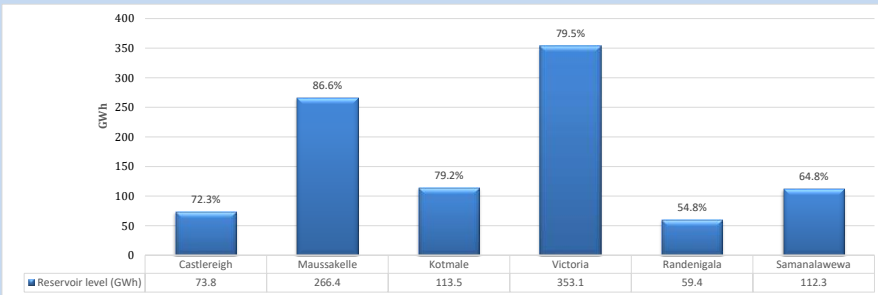
Table 05

Night Peak*	2,394	MW
Day Peak Maximum Demand	2,135	MW
Day Peak Minimum Demand	1,675	MW
Off Peak Minimum Demand	1,404	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 23, 2024



Total Reservoir Level: 978.5 GWh  
% of Total capacity: 76.5%

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

July 22, 2024

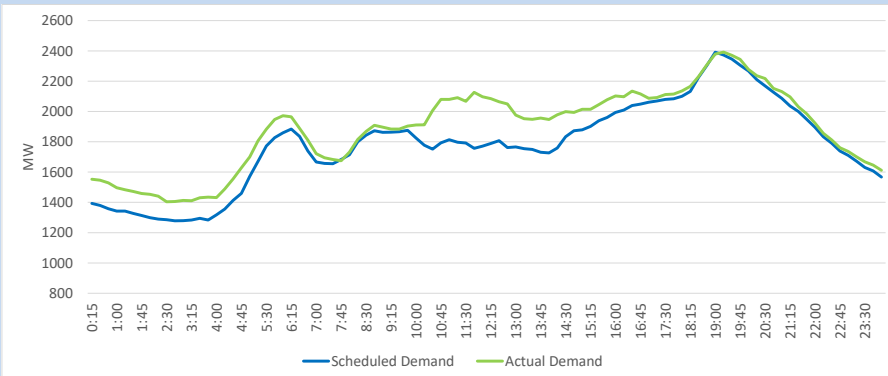
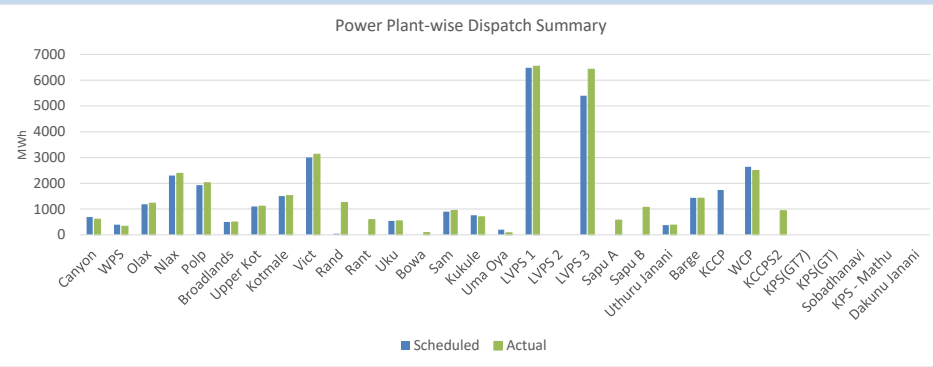


Table 02

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,030	17,033	2002
CEB Coal	11,880	12,967	1087
CEB Thermal Oil	3,548	4,380	832
IPP Thermal Oil	2,642	2,493	-150
NCRE (Telemetered)	7,785	8,224	439
<b>Total</b>	<b>40,885</b>	<b>45,096</b>	<b>4211</b>

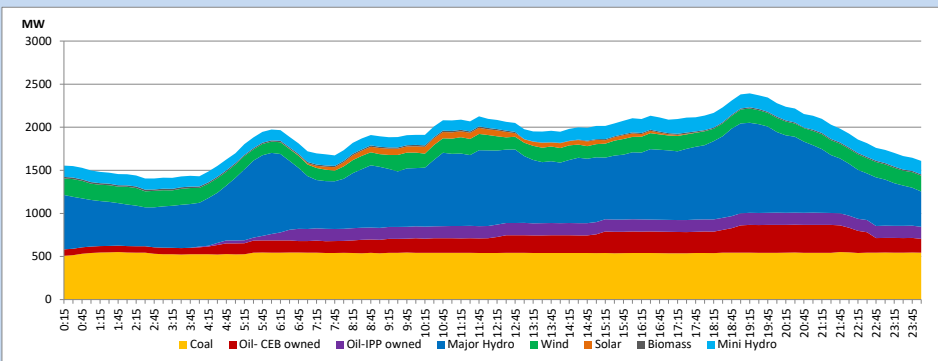
### 1.12 Power Plant-wise Dispatch Summary

July 22, 2024



### 1.13 Daily Load Curve

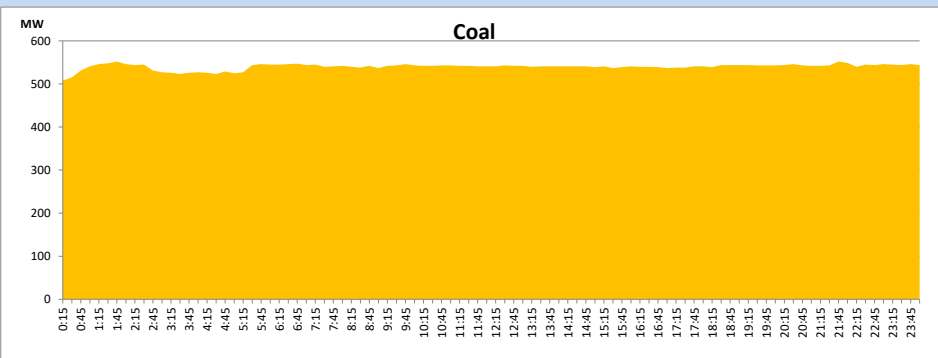
July 22, 2024



Solar and wind data is based on Telemetered Power Stations only

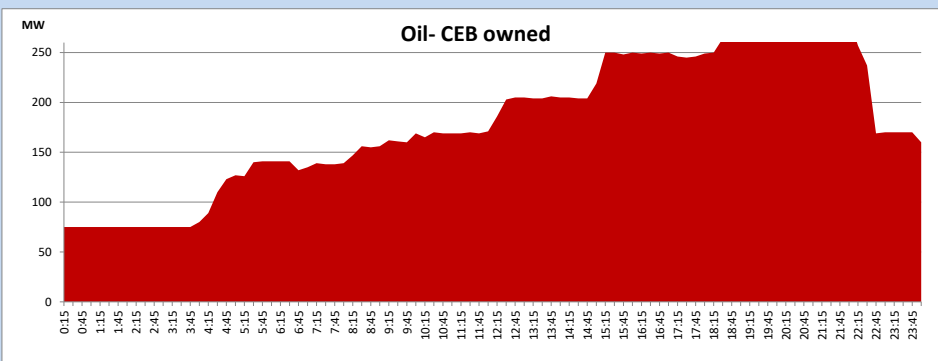
### Coal Generation during

July 22, 2024

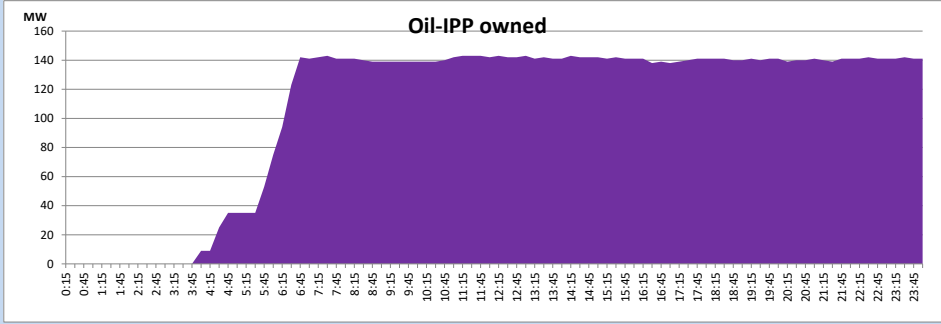


### CEB Oil Plant Generation during

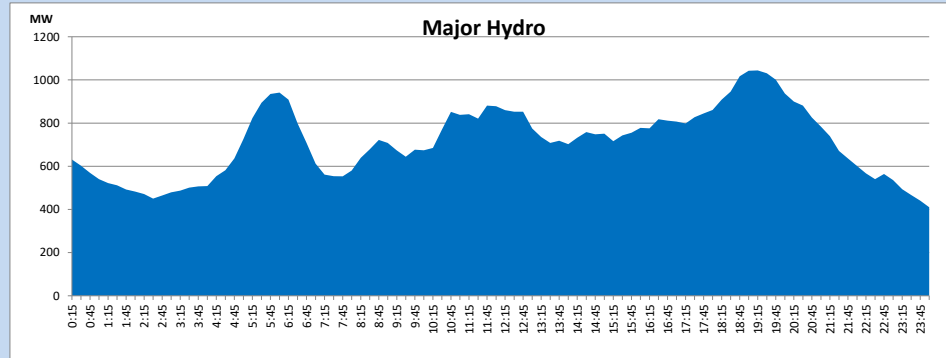
July 22, 2024



**IPP Oil Plant Generation during July 22, 2024**

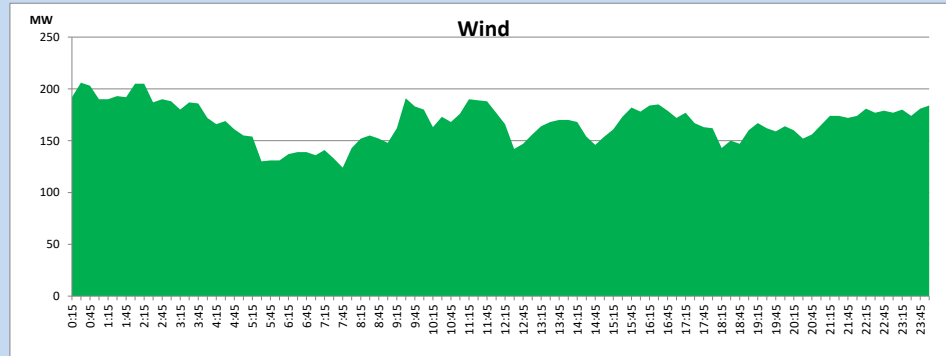


**Major Hydro Generation during July 22, 2024**



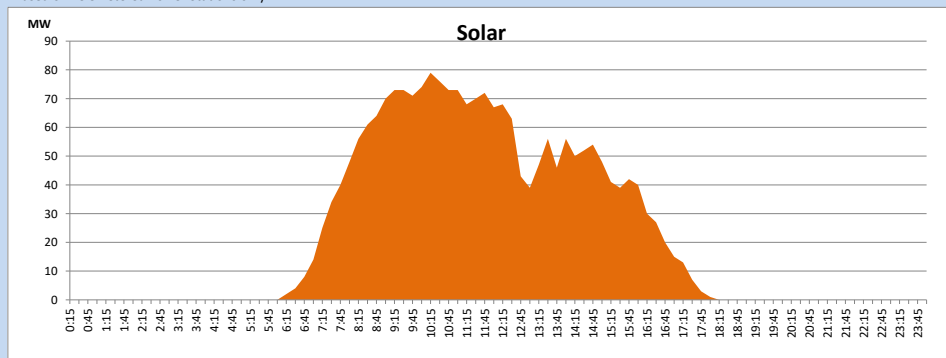
**Wind Generation during July 22, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 22, 2024**

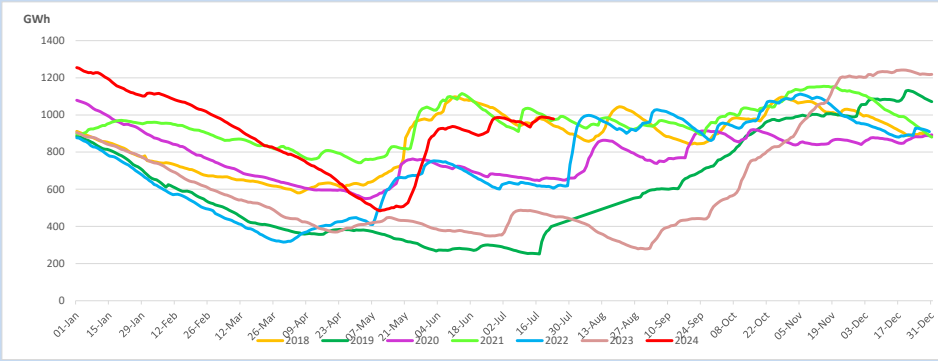
Based on Telemetered Power Stations only



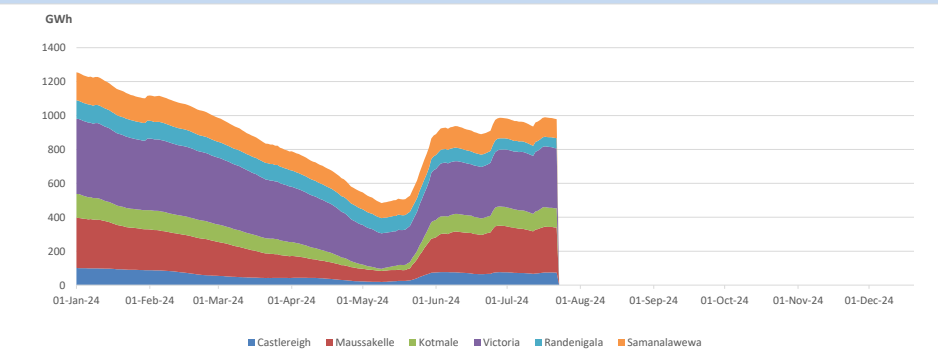
**1.14 Major Incidents reported during the day July 22, 2024**

- 1) KCCP GT was made unavailable for generation at 10:00hrs due to the Jacking pump failure. The unit is yet to resume generation.
- 2) Kosgama - Polpitiya cct tripped from both ends at 12:36hrs due to the operation of distance protection. While trying to normalize the cct, Kolonnawa - Kosgama cct tripped at 12:55hrs from Kolonnawa end due to the operation of distance protection, resulting Kosgama GSS to be dead. Kolonnawa - Kosgama cct was normalized at 13:32hrs, and all the affected 33kV feeders were normalized by 13:45hrs. Kosgama - Polpitiya 132kV cct is yet to be restored.

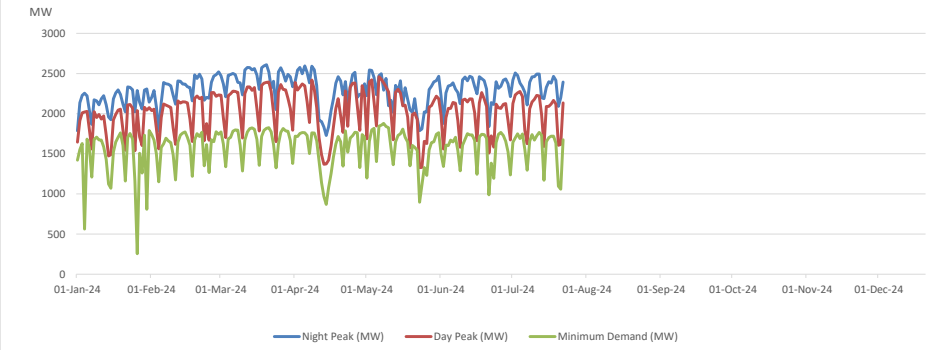
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



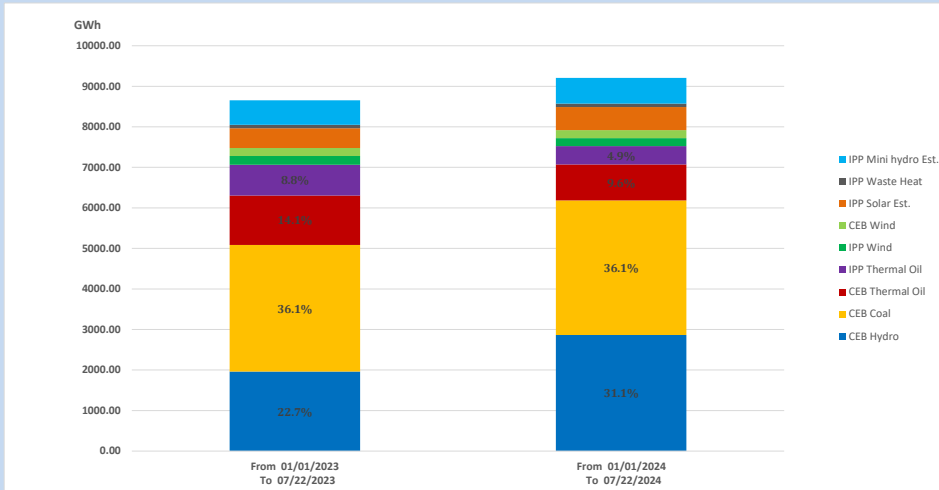
## 4. Variation of Demand during the current year



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 07/22/2023

8654 GWh

From 01/01/2024 To 07/22/2024

9206 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