

# Generation and Reservoirs Statistics

July 27, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

July 27, 2024

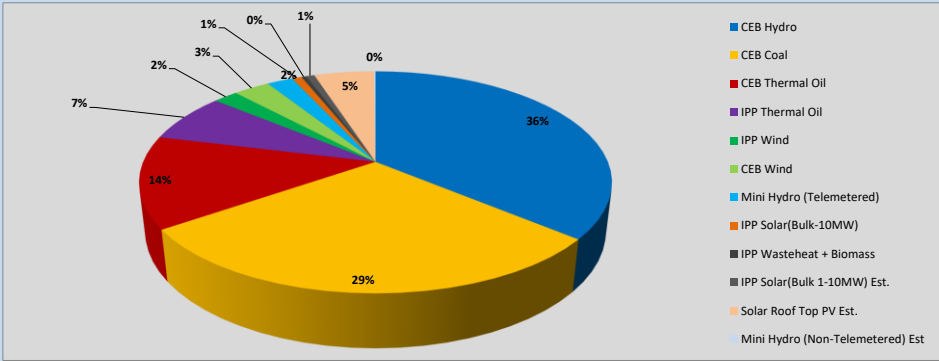


Table 01

	Generation (MWh)
CEB Hydro	15963
CEB Coal	13025
CEB Thermal Oil	5954
IPP Thermal Oil	3176
IPP Wind	890
CEB Wind	1316
Mini Hydro (Telemetered)	940
IPP Solar (Bulk)	353
IPP Waste heat + Biomass	173
<b>Total Generation (Excluding estimated figures)</b>	<b>41,790</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	57
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
<b>Total Generation (Including estimated figures)</b>	<b>44,321</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	440	35.43%
CEB Coal	380	30.59%
CEB Thermal Oil	97	7.78%
IPP Thermal	37	2.95%
SPP Wind	54	4.35%
CEB Wind	53	4.26%
Mini Hydro *	96	7.71%
IPP Solar *	78	6.25%
IPP Waste heat + BMP	9	0.69%
<b>Total</b>	<b>1,243</b>	

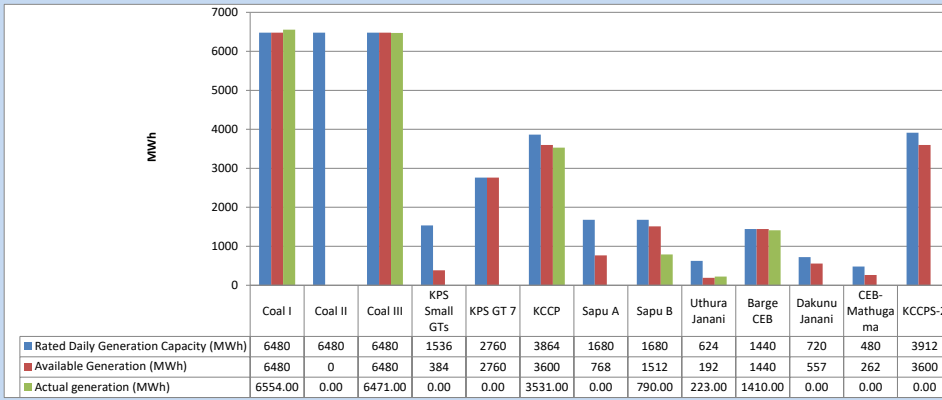
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,948	31.21%
CEB Coal	3,384	35.83%
CEB Thermal Oil	913	9.67%
IPP Thermal	470	4.98%
SPP Wind	206	2.18%
CEB Wind	209	2.21%
Mini Hydro *	645	6.83%
IPP Solar *	584	6.18%
IPP Waste heat	86	0.91%
<b>Total</b>	<b>9,446</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 27, 2024

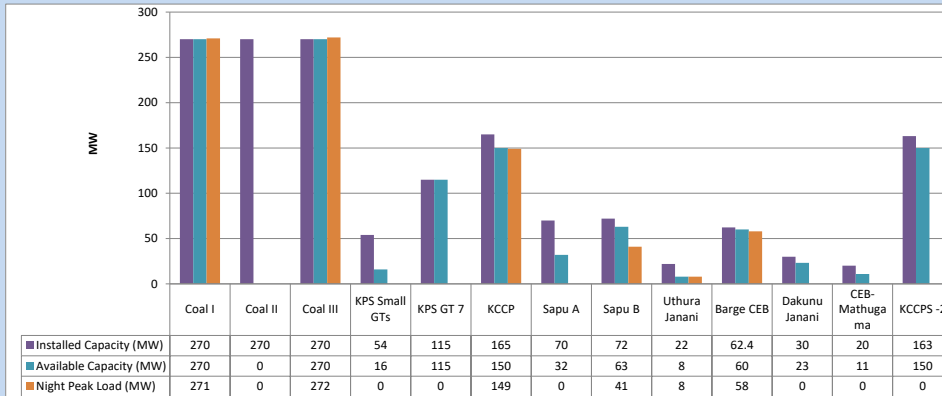


Available Generation is estimated based on plant availability at 6.00am on

July 28, 2024

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

July 27, 2024

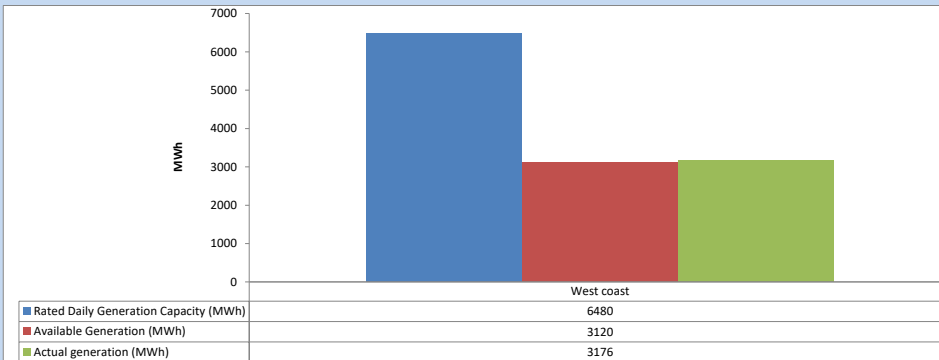


Plant availability is recorded at 6.00 am on

July 28, 2024

### 1.4 IPP owned Thermal Plant Dispatch

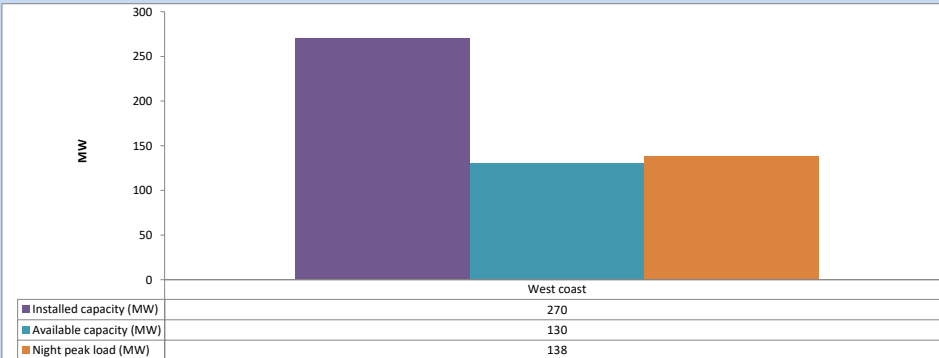
July 27, 2024



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

July 28, 2024

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

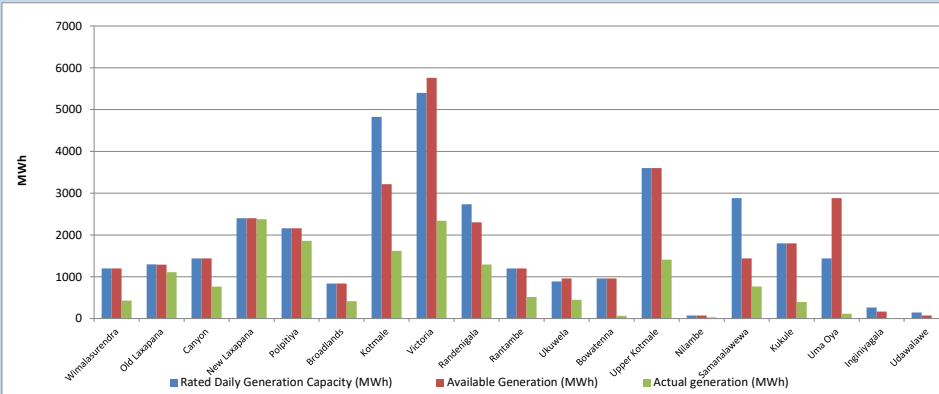


Plant availability is recorded at 6.00 am on

July 28, 2024

### 1.6 Major Hydro Plant Dispatch

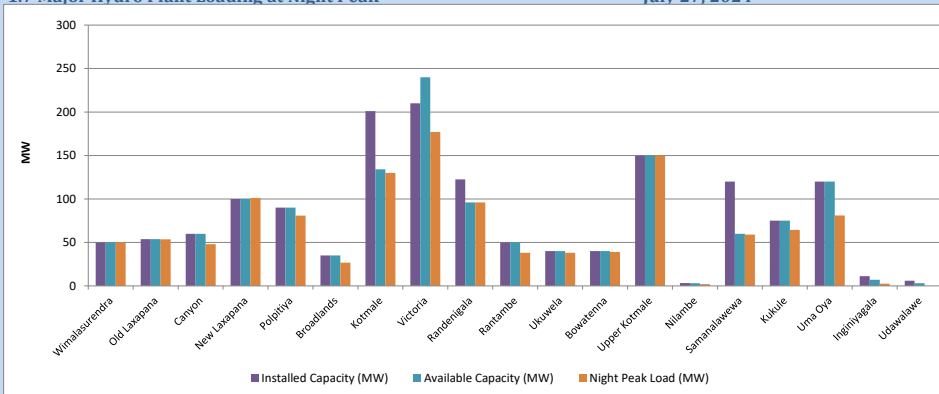
July 27, 2024



Available Generation is estimated based on plant availability at 6.00am on July 28, 2024

### 1.7 Major Hydro Plant Loading at Night Peak

July 27, 2024



Plant availability is recorded at 6.00 am on July 28, 2024

### 1.8 Summary of Major Plant performance

July 27, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	429
Old Laxapana	54	54	54	1,110
Canyon	60	60	48	764
New Laxapana	100	100	101	2,378
Polpitiya	90	90	81	1,860
Broadlands	35	35	27	414
Kotmale	201	134	130	1,620
Victoria	210	240	177	2,339
Randenigala	123	96	96	1,294
Rantambe	50	50	38	517
Ukuwela	40	40	38	449
Bowatenna	40	40	39	64
Upper Kotmale	150	150	150	1,408
Nilambe	3	3	2	27
Samanalawewa	120	60	59	767
Kukule	75	75	65	395
Uma Oya	120	120	81	113
Inginipigala	11	7	3	0
Udawalawe	6	3	0	14
Puttalam Coal I	270	270	271	6,554
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	272	6,471
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	149	3,531
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	41	790
Uthura Janani	22	8	8	223
Barge CEB	62	60	58	1,410
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	138	3,176
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>2,705</b>	<b>2,321</b>	<b>41,789</b>

Note- Plant availability is the availability recorded at 6 am on July 28, 2024

1.9 Contribution to the Night Peak in MW

July 27, 2024

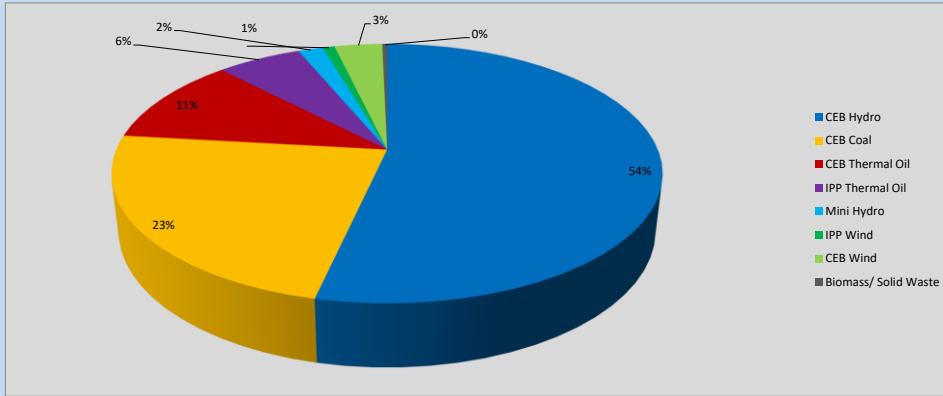


Table 05

CEB Hydro	1247	MW
CEB Coal	543	MW
CEB Thermal Oil	256	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	41	MW
IPP Wind	19.6	MW
CEB Wind	78.1	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

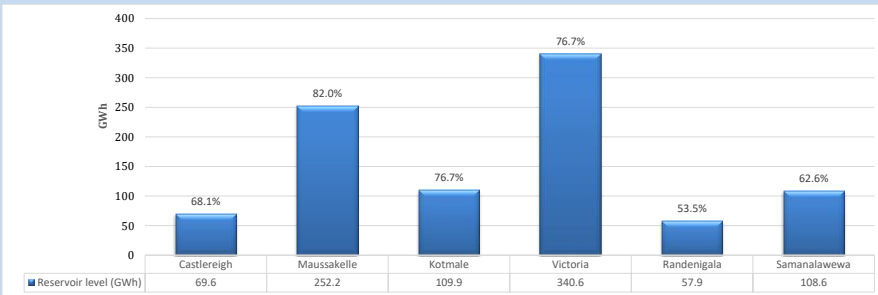
Table 06

Night Peak*	2,331	MW
Day Peak Maximum Demand	1,906	MW
Day Peak Minimum Demand	1,492	MW
Off Peak Minimum Demand	1,491	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 28, 2024



Total Reservoir Level 938.8 GWh  
% of Total capacity 73.4%

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

July 27, 2024

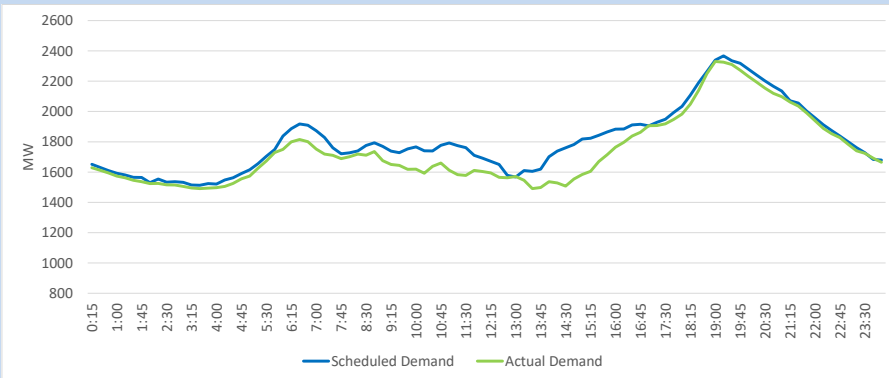
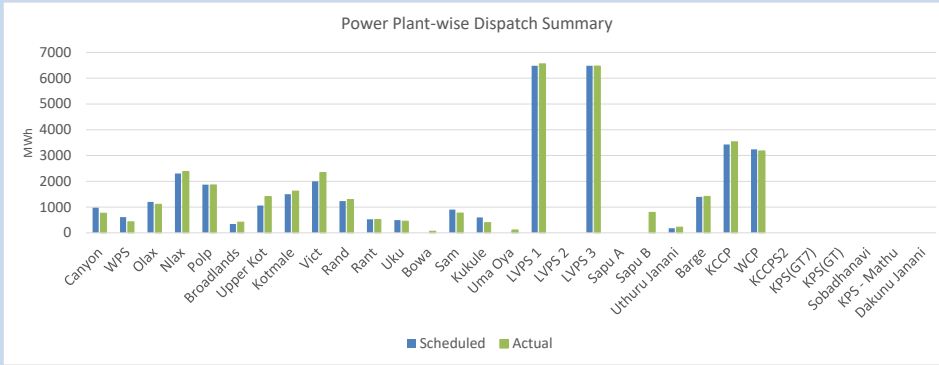


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,601	15,921	320
CEB Coal	12,960	13,025	65
CEB Thermal Oil	5,001	5,954	952
IPP Thermal Oil	3,236	3,176	-60
NCRE (Telemetered)	6,508	3,402	-3106
<b>Total</b>	<b>43,306</b>	<b>41,478</b>	<b>-1828</b>

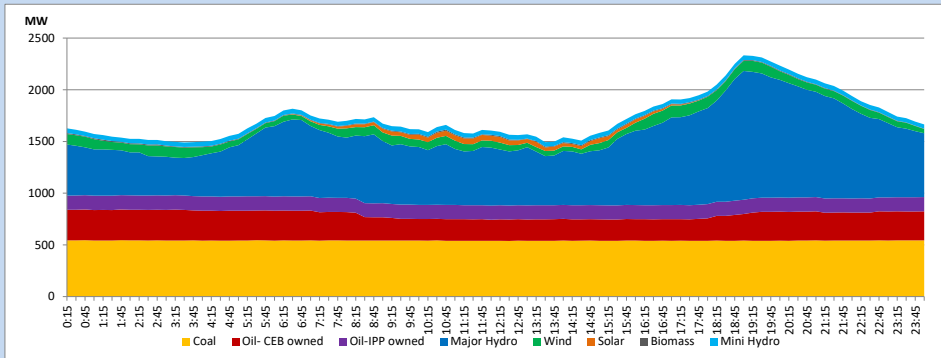
1.12 Power Plant-wise Dispatch Summary

July 27, 2024



1.13 Daily Load Curve

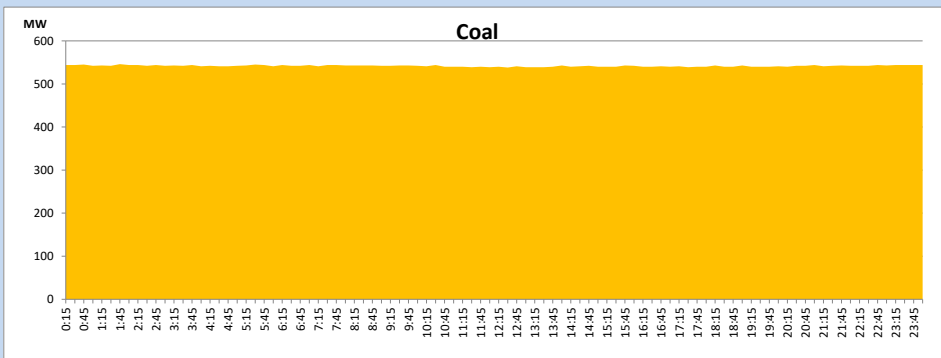
July 27, 2024



Solar and wind data is based on Telemetered Power Stations only

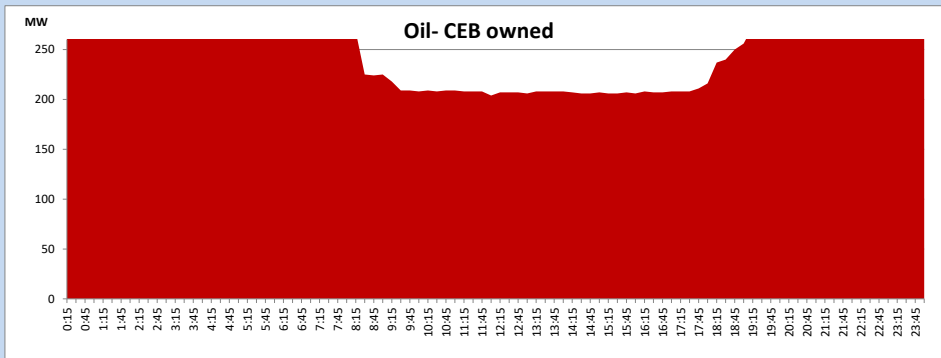
Coal Generation during

July 27, 2024

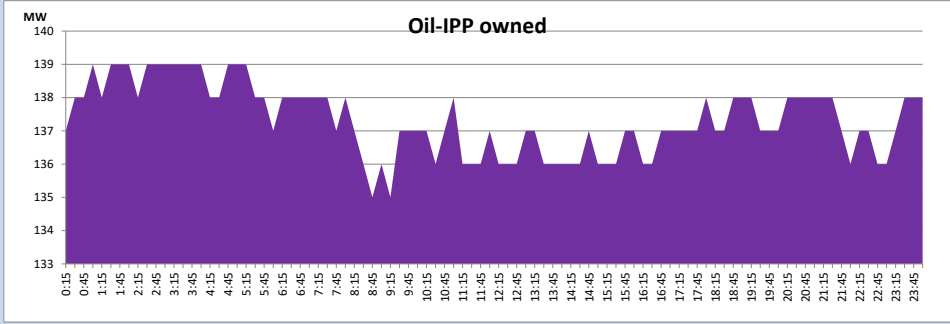


CEB Oil Plant Generation during

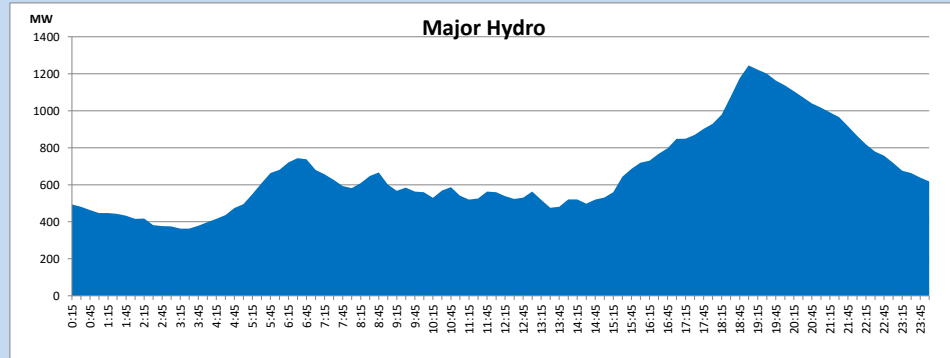
July 27, 2024



**IPP Oil Plant Generation during July 27, 2024**

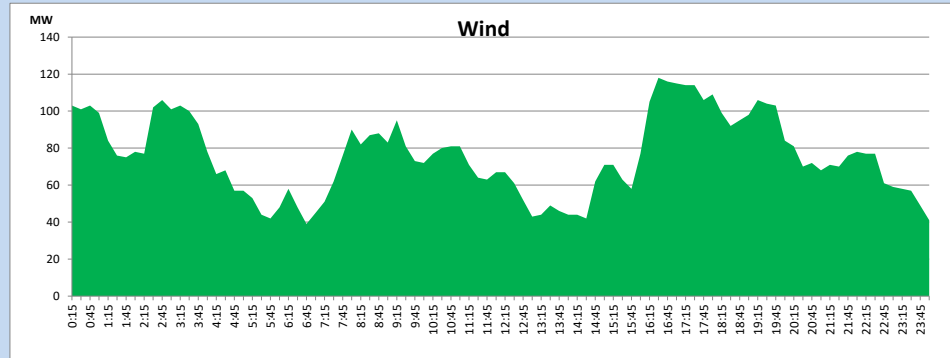


**Major Hydro Generation during July 27, 2024**



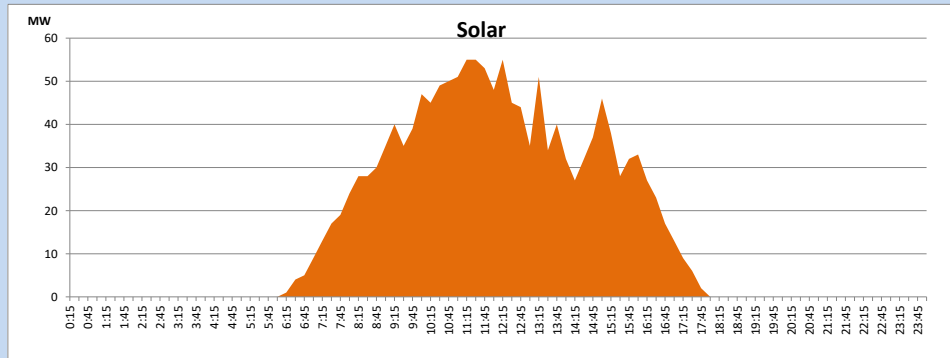
**Wind Generation during July 27, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 27, 2024**

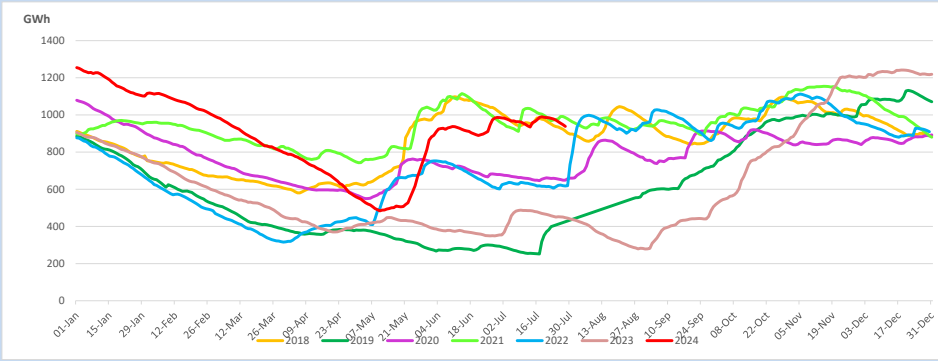
Based on Telemetered Power Stations only



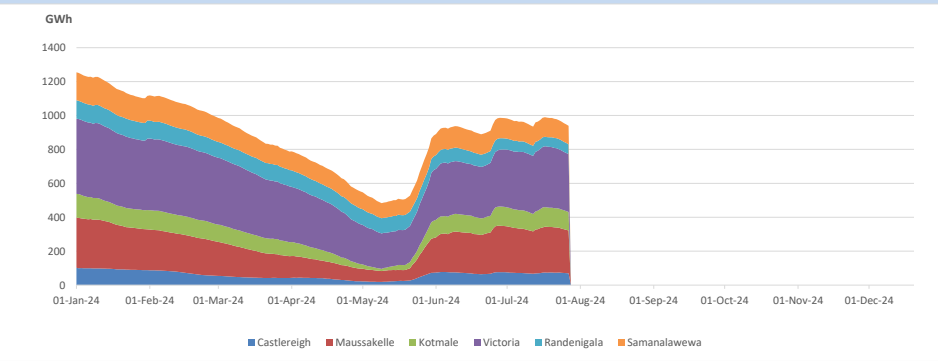
**1.14 Major Incidents reported during the day July 27, 2024**

- 1) Embilipitiya - Hambantheta 132KV cct 01 was manually switched off at 20:22hrs due to a spark occurred in the phase-B bus isolator at Hambantheta side. The cct is yet to be normalized.

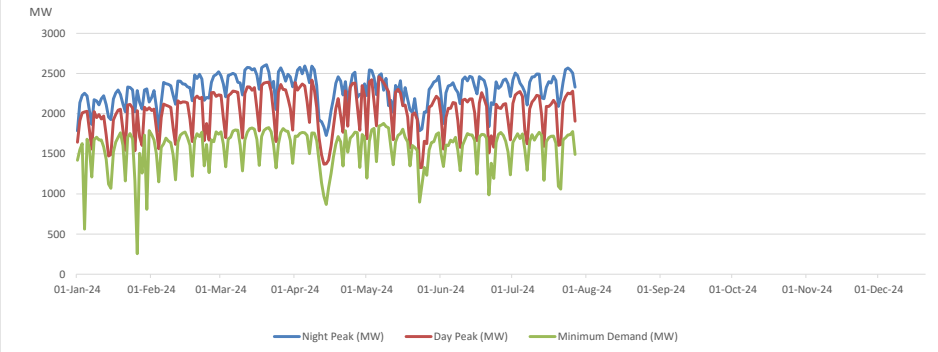
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



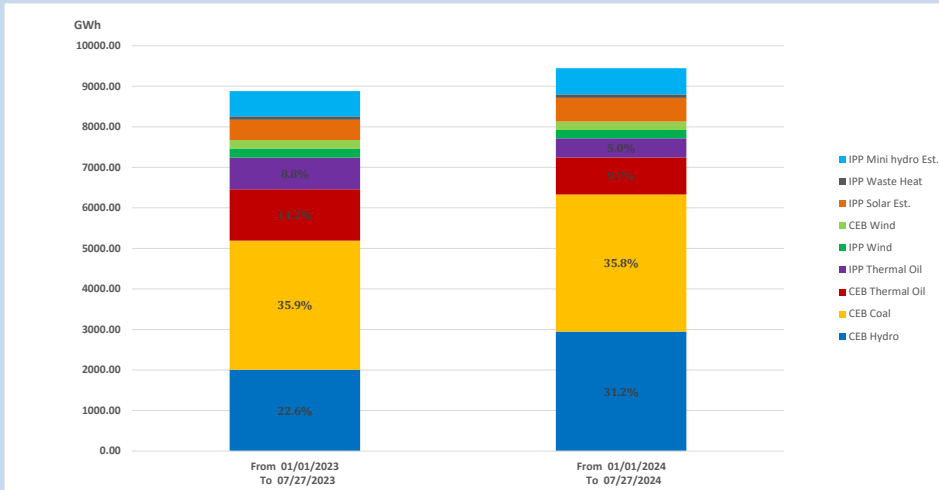
## 4. Variation of Demand during the current year



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 07/27/2023

8881 GWh

From 01/01/2024 To 07/27/2024

9446 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]