

# Generation and Reservoirs Statistics

July 24, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

July 24, 2024

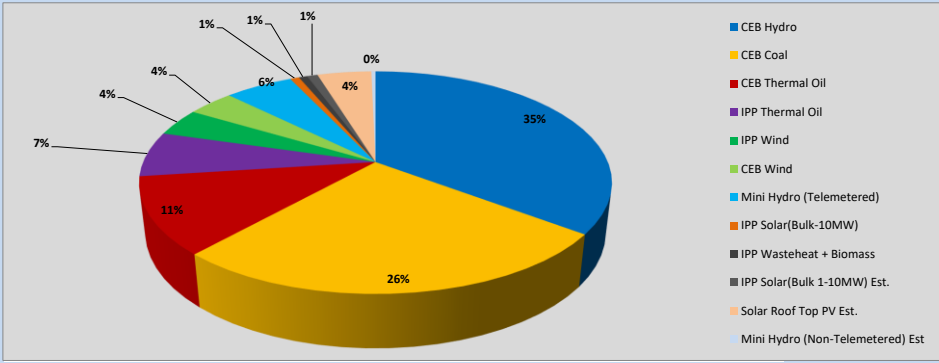


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	17288
CEB Coal	CEB Coal	13011
CEB Thermal Oil	CEB Thermal Oil	5504
IPP Thermal Oil	IPP Thermal Oil	3220
IPP Wind	IPP Wind	1972
CEB Wind	CEB Wind	1890
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	2738
IPP Solar (Bulk)	IPP Solar (Bulk)	364
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	336
<b>Total Generation (Excluding estimated figures)</b>		<b>46,323</b>
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		165
* Estimated IPP Solar PV (Bulk 1-10MW)		429
* Estimated Solar Roof Top PV		2170
<b>Total Generation (Including estimated figures)</b>		<b>49,087</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	392	35.63%
CEB Coal	341	31.02%
CEB Thermal Oil	77	7.01%
IPP Thermal	27	2.46%
SPP Wind	49	4.41%
CEB Wind	48	4.32%
Mini Hydro *	90	8.14%
IPP Solar *	69	6.29%
IPP Waste heat + BMP	8	0.72%
<b>Total</b>	<b>1,100</b>	

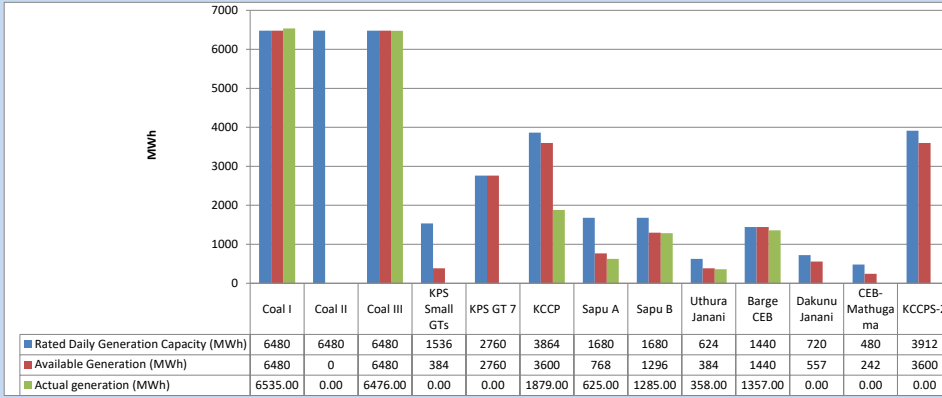
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,899	31.17%
CEB Coal	3,346	35.96%
CEB Thermal Oil	894	9.61%
IPP Thermal	461	4.95%
SPP Wind	201	2.16%
CEB Wind	204	2.19%
Mini Hydro *	639	6.86%
IPP Solar *	576	6.19%
IPP Waste heat	85	0.92%
<b>Total</b>	<b>9,303</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 24, 2024

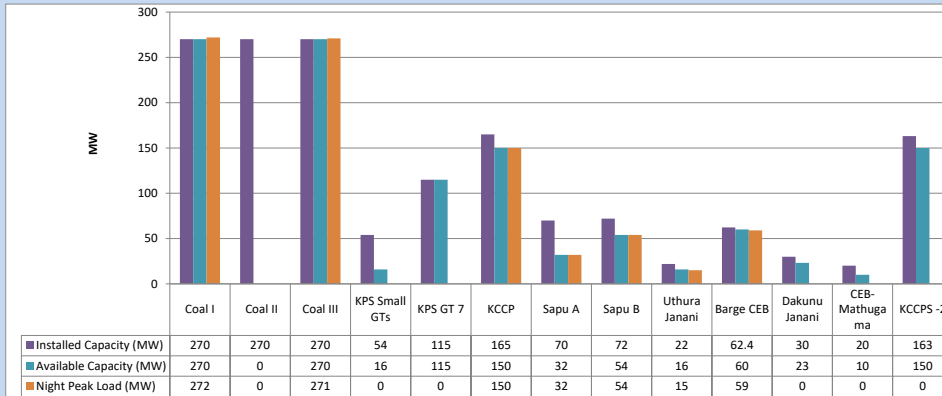


Available Generation is estimated based on plant availability at 6.00am on

July 25, 2024

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

July 24, 2024

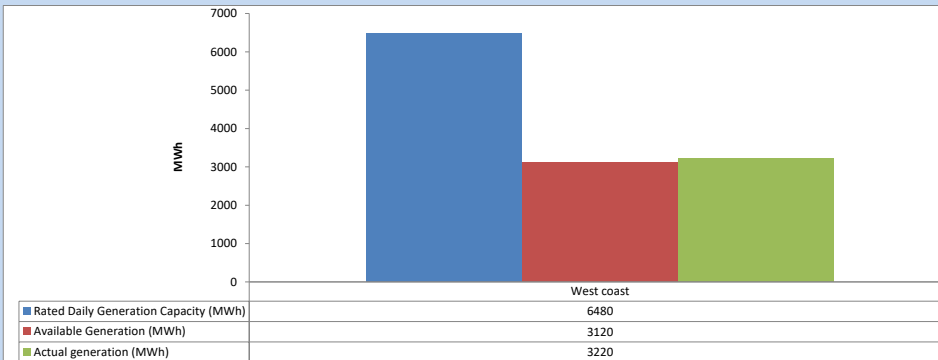


Plant availability is recorded at 6.00 am on

July 25, 2024

### 1.4 IPP owned Thermal Plant Dispatch

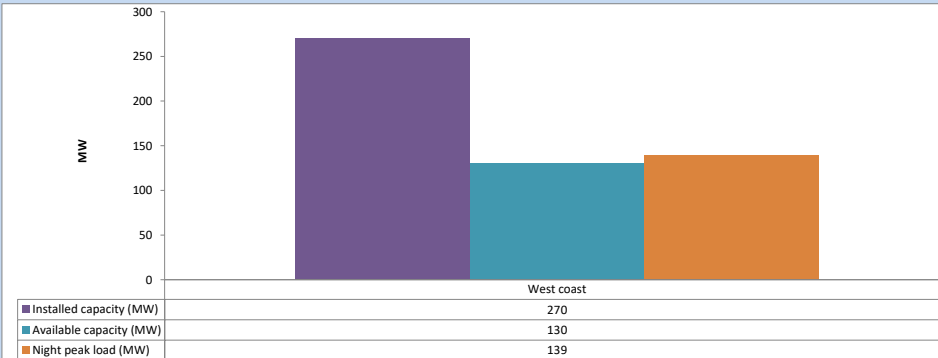
July 24, 2024



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

July 25, 2024

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

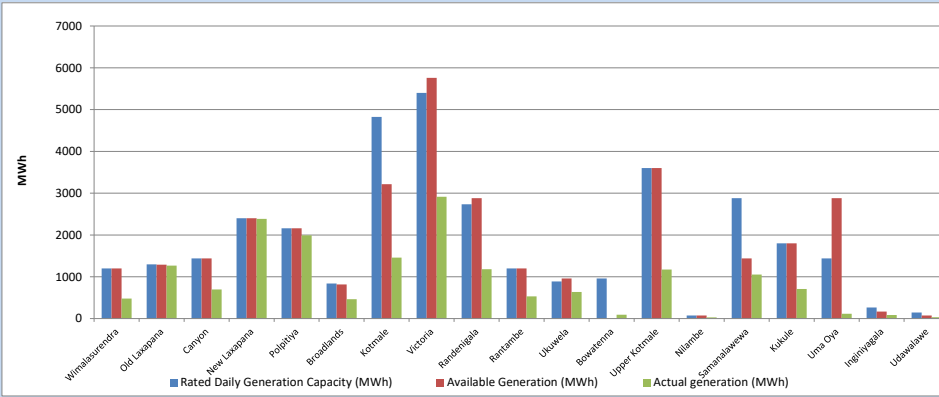


Plant availability is recorded at 6.00 am on

July 25, 2024

1.6 Major Hydro Plant Dispatch

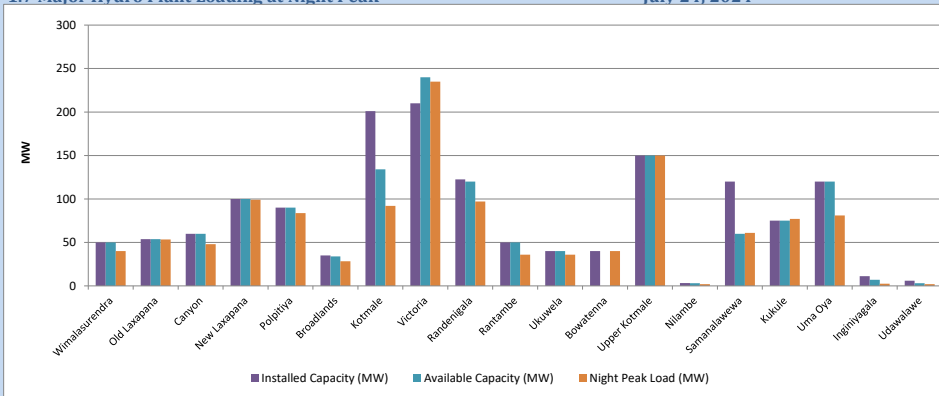
July 24, 2024



Available Generation is estimated based on plant availability at 6.00am on July 25, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 24, 2024



Plant availability is recorded at 6.00 am on July 25, 2024

1.8 Summary of Major Plant performance

July 24, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	479
Old Laxapana	54	54	53	1,266
Canyon	60	60	48	695
New Laxapana	100	100	99	2,385
Polpitiya	90	90	84	1,990
Broadlands	35	34	28	465
Kotmale	201	134	92	1,460
Victoria	210	240	235	2,916
Randenigala	123	120	97	1,179
Rantambe	50	50	36	530
Ukuwela	40	40	36	637
Bowatenna	40	0	40	93
Upper Kotmale	150	150	150	1,173
Nilambe	3	3	2	28
Samanalawewa	120	60	61	1,052
Kukule	75	75	77	708
Uma Oya	120	120	81	115
Inginipigala	11	7	3	85
Udawalawe	6	3	2	32
Puttalam Coal I	270	270	272	6,535
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,476
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	150	1,879
Sapugaskanda A	70	32	32	625
Sapugaskanda B	72	54	54	1,285
Uthura Janani	22	16	15	358
Barge CEB	62	60	59	1,357
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	10	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	3,220
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,686	2,554	46,323

Note- Plant availability is the availability recorded at 6 am on July 25, 2024

1.9 Contribution to the Night Peak in MW

July 24, 2024

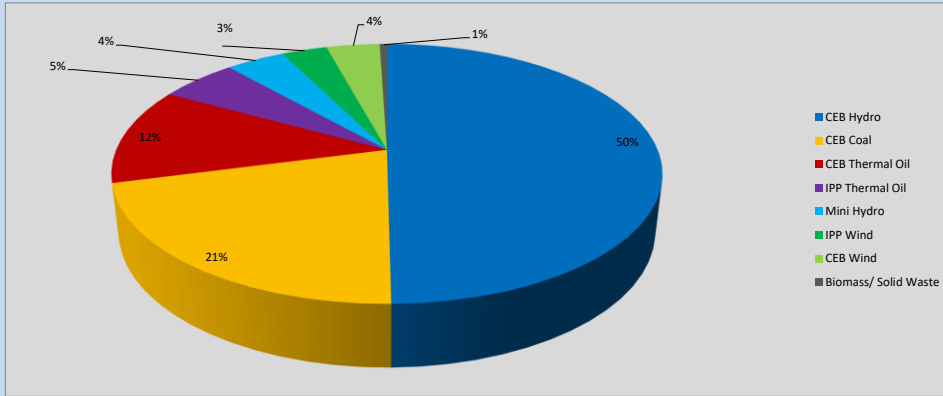


Table 05

CEB Hydro	1279	MW
CEB Coal	543	MW
CEB Thermal Oil	310	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	106	MW
IPP Wind	81.8	MW
CEB Wind	96.2	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

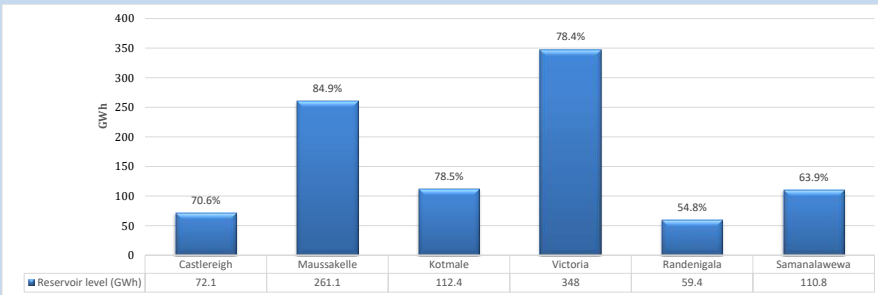
Table 06

Night Peak*	2,568	MW
Day Peak Maximum Demand	2,257	MW
Day Peak Minimum Demand	1,735	MW
Off Peak Minimum Demand	1,531	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 25, 2024



Total Reservoir Level 963.8 GWh  
% of Total capacity 75.4%

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

July 24, 2024

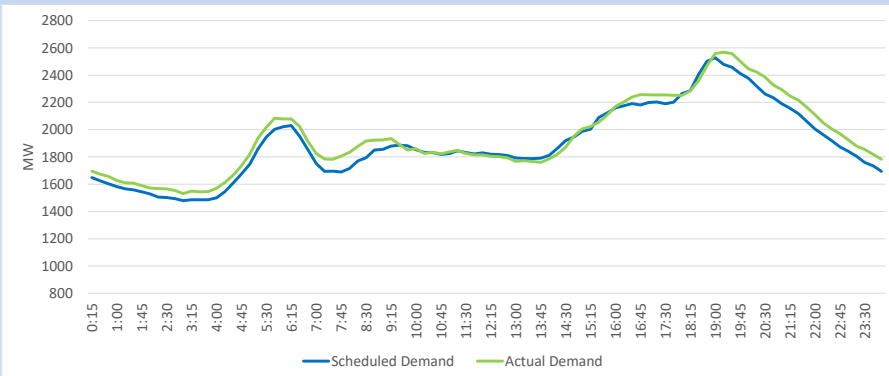
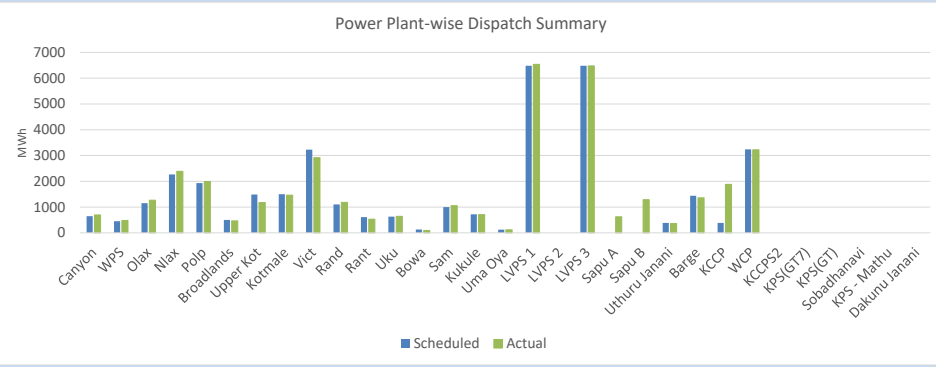


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,457	17,142	-314
CEB Coal	12,960	13,011	51
CEB Thermal Oil	2,209	5,504	3295
IPP Thermal Oil	3,240	3,220	-20
NCRE (Telemetered)	7,447	7,497	50
<b>Total</b>	<b>43,313</b>	<b>46,375</b>	<b>3062</b>

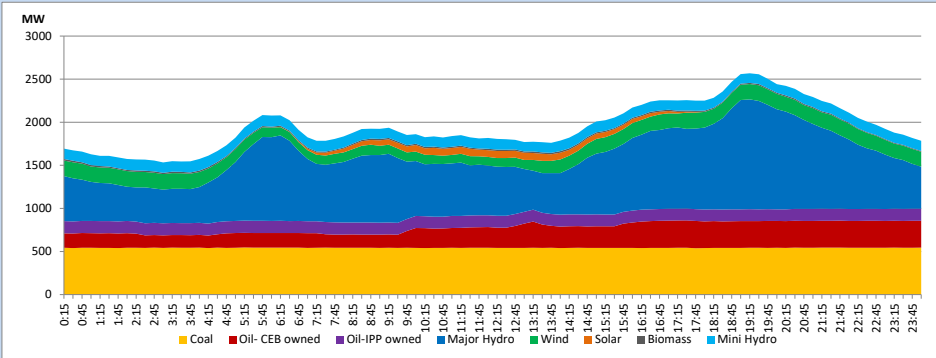
1.12 Power Plant-wise Dispatch Summary

July 24, 2024



1.13 Daily Load Curve

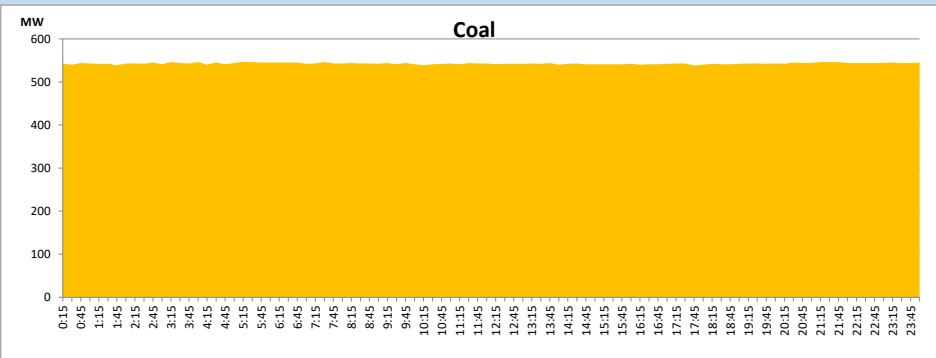
July 24, 2024



Solar and wind data is based on Telemetered Power Stations only

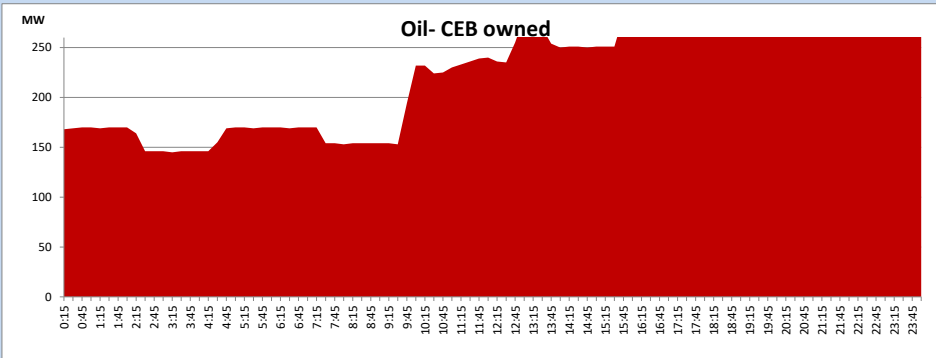
Coal Generation during

July 24, 2024

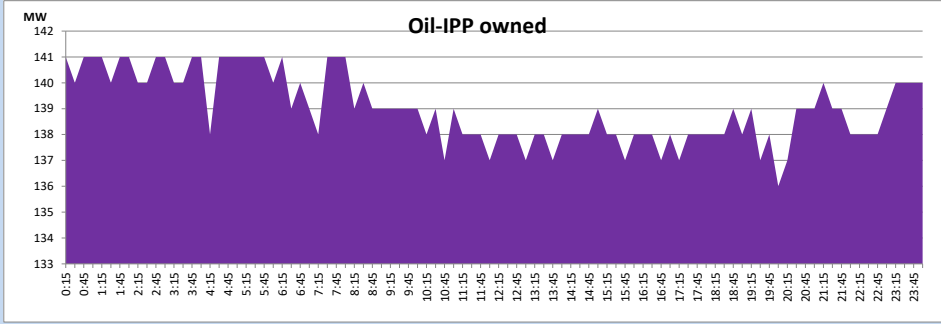


CEB Oil Plant Generation during

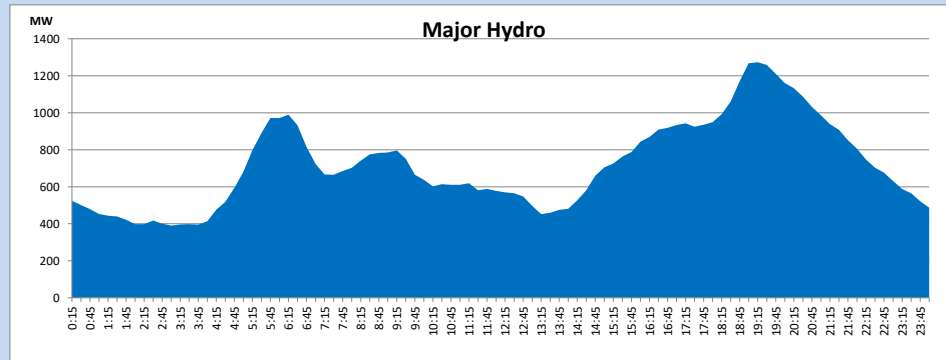
July 24, 2024



**IPP Oil Plant Generation during July 24, 2024**

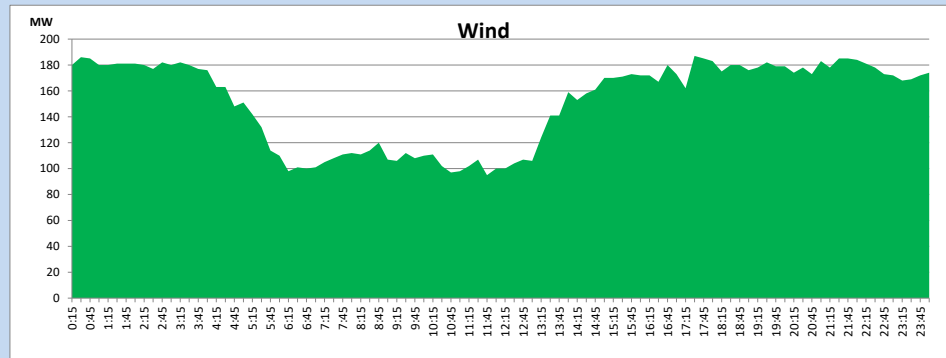


**Major Hydro Generation during July 24, 2024**



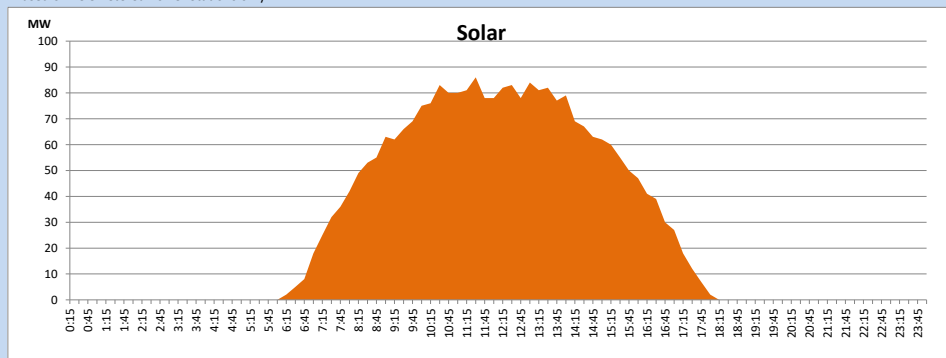
**Wind Generation during July 24, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 24, 2024**

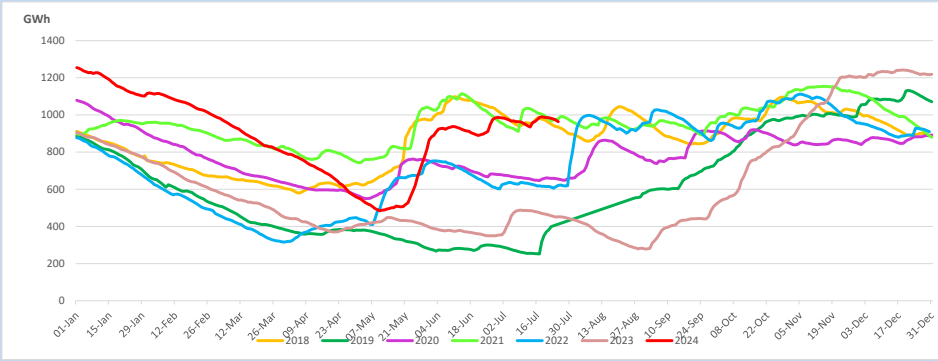
Based on Telemetered Power Stations only



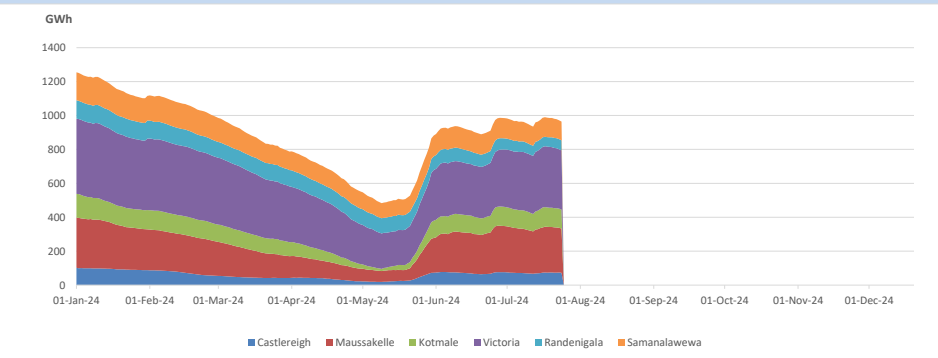
**1.14 Major Incidents reported during the day July 24, 2024**

- 1). New Polpitiya - Padukka 220kV cct 01 tripped and A/R from both ends at 17:05hrs due to the operation of distance protection.

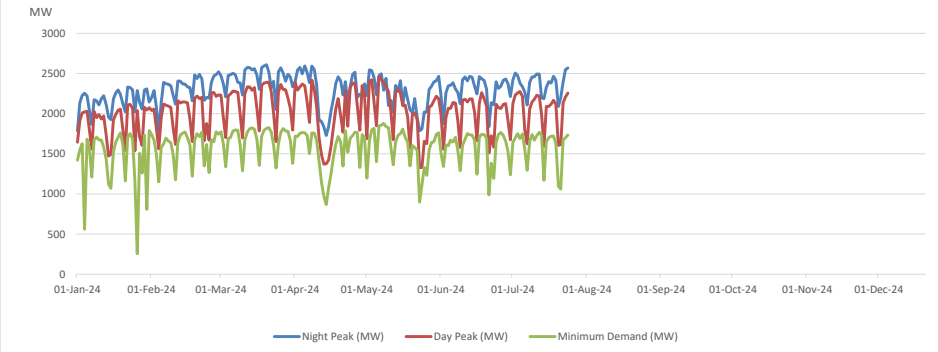
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



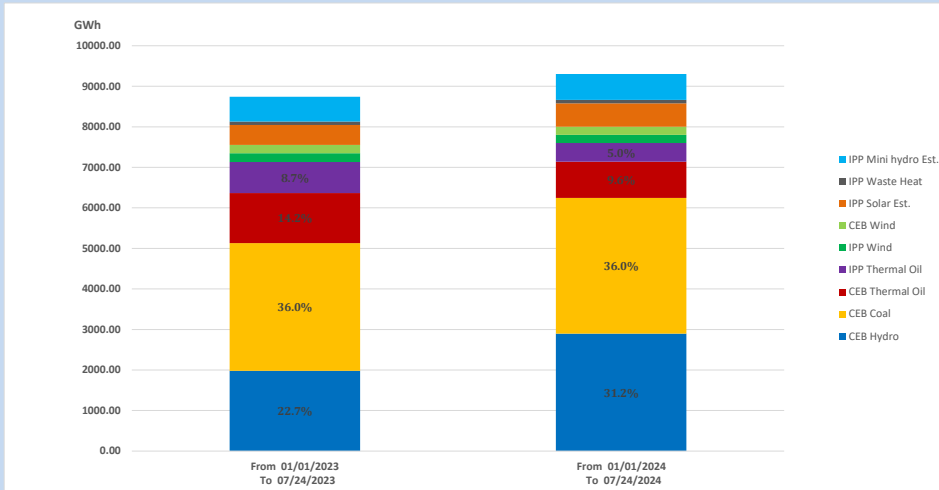
## 4. Variation of Demand during the current year



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 07/24/2023

8741 GWh

From 01/01/2024 To 07/24/2024

9303 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]