

# Generation and Reservoirs Statistics

August 7, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

August 7, 2024

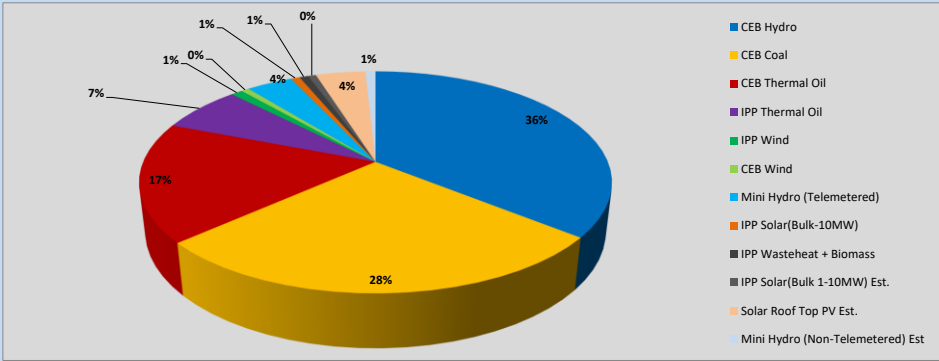


Table 01

	Generation (MWh)
CEB Hydro	16872
CEB Coal	13057
CEB Thermal Oil	8230
IPP Thermal Oil	3191
IPP Wind	451
CEB Wind	302
Mini Hydro (Telemetered)	1779
IPP Solar (Bulk)	348
IPP Waste heat + Biomass	343
<b>Total Generation (Excluding estimated figures)</b>	<b>44,573</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	389
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
<b>Total Generation (Including estimated figures)</b>	<b>47,186</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	122	37.61%
CEB Coal	91	28.00%
CEB Thermal Oil	42	13.00%
IPP Thermal	9	2.70%
SPP Wind	7	2.22%
CEB Wind	8	2.51%
Mini Hydro *	25	7.64%
IPP Solar *	18	5.59%
IPP Waste heat + BMP	2	0.73%
<b>Total</b>	<b>324</b>	

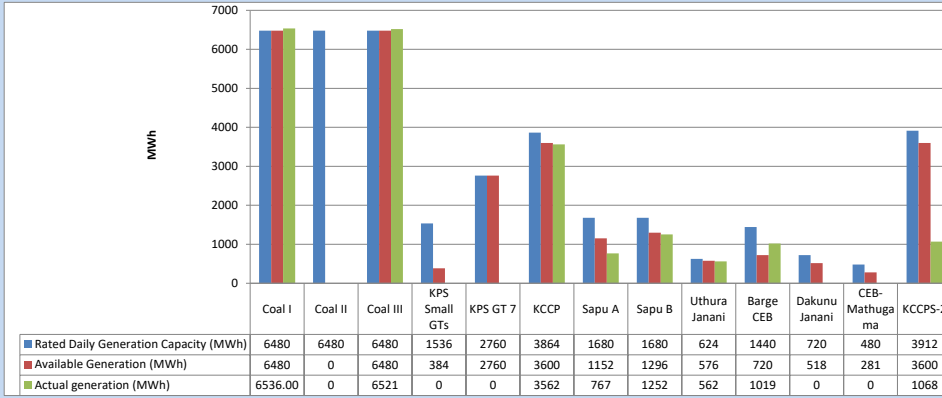
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,139	31.52%
CEB Coal	3,525	35.40%
CEB Thermal Oil	972	9.77%
IPP Thermal	485	4.87%
SPP Wind	220	2.21%
CEB Wind	224	2.25%
Mini Hydro *	689	6.92%
IPP Solar *	613	6.16%
IPP Waste heat	89	0.90%
<b>Total</b>	<b>9,956</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

August 7, 2024

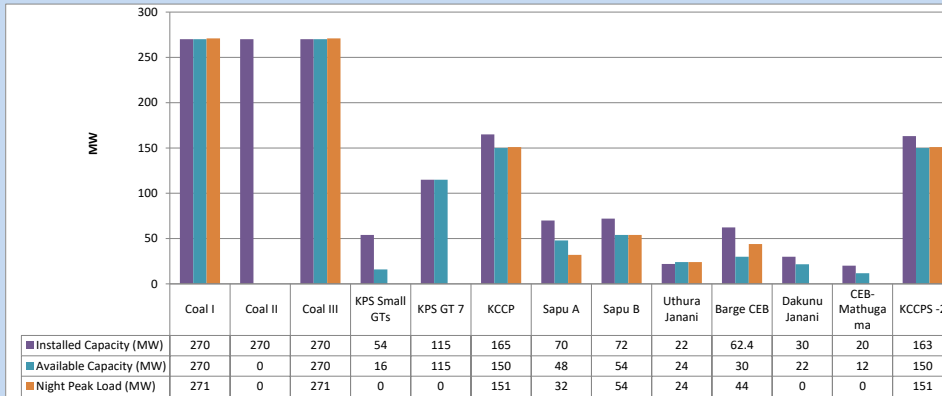


Available Generation is estimated based on plant availability at 6.00am on

August 8, 2024

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

August 7, 2024

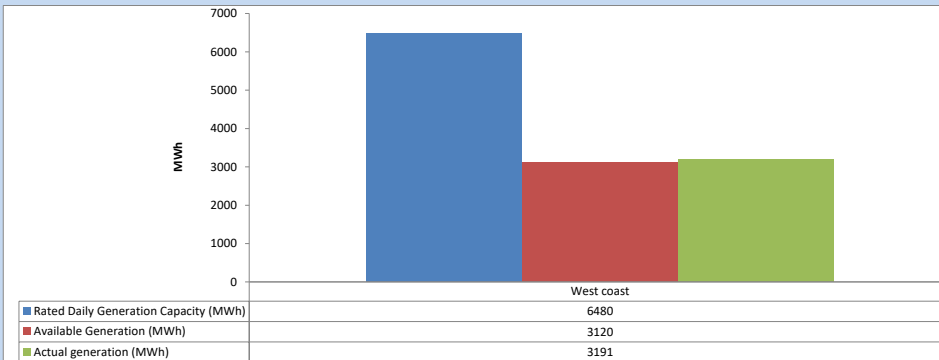


Plant availability is recorded at 6.00 am on

August 8, 2024

### 1.4 IPP owned Thermal Plant Dispatch

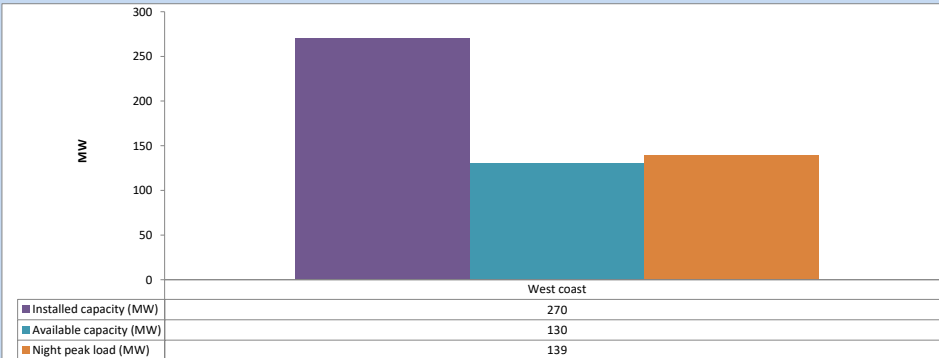
August 7, 2024



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

August 8, 2024

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

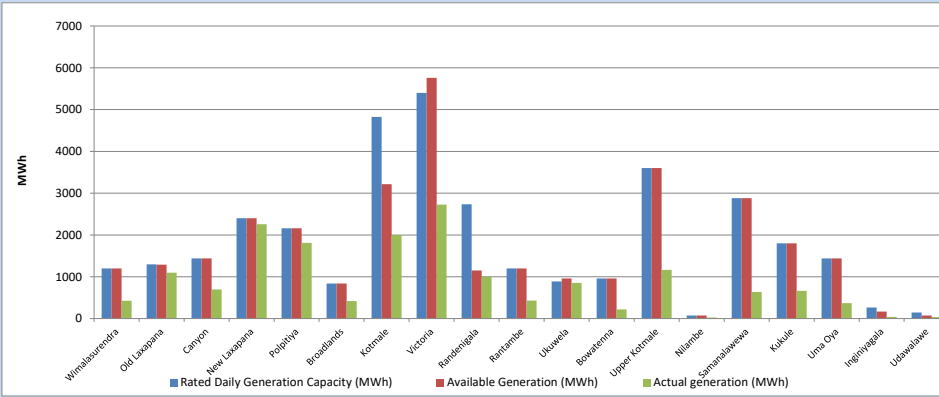


Plant availability is recorded at 6.00 am on

August 8, 2024

1.6 Major Hydro Plant Dispatch

August 7, 2024

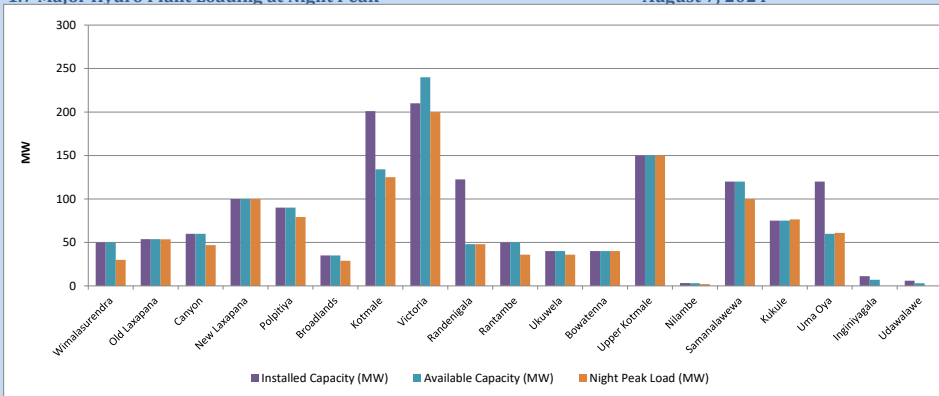


Available Generation is estimated based on plant availability at 6.00am on

August 8, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 7, 2024



Plant availability is recorded at 6.00 am on

August 8, 2024

1.8 Summary of Major Plant performance

August 7, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	427
Old Laxapana	54	54	54	1,098
Canyon	60	60	47	695
New Laxapana	100	100	100	2,258
Polpitiya	90	90	79	1,810
Broadlands	35	35	29	419
Kotmale	201	134	125	2,000
Victoria	210	240	200	2,727
Randenigala	123	48	48	999
Rantambe	50	50	36	430
Ukuwela	40	40	36	855
Bowatenna	40	40	40	218
Upper Kotmale	150	150	150	1,167
Nilambe	3	3	2	23
Samanalawewa	120	120	100	636
Kukule	75	75	77	663
Uma Oya	120	60	61	371
Inginipigala	11	7	0	40
Udawalawe	6	3	0	36
Puttalam Coal I	270	270	271	6,536
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,521
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	3,562
Sapugaskanda A	70	48	32	767
Sapugaskanda B	72	54	54	1,252
Uthura Janani	22	24	24	562
Barge CEB	62	30	44	1,019
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	151	1,068
West Coast	270	130	139	3,191
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>2,649</b>	<b>2,455</b>	<b>44,573</b>

Note-

Plant availability is the availability recorded at 6 am on

August 8, 2024

1.9 Contribution to the Night Peak in MW

August 7, 2024

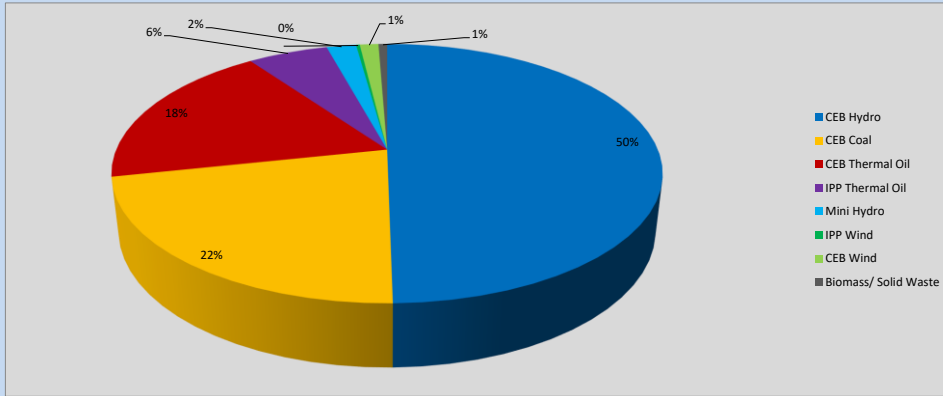


Table 05

CEB Hydro	1229	MW
CEB Coal	542	MW
CEB Thermal Oil	456	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	51	MW
IPP Wind	6.4	MW
CEB Wind	32.4	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

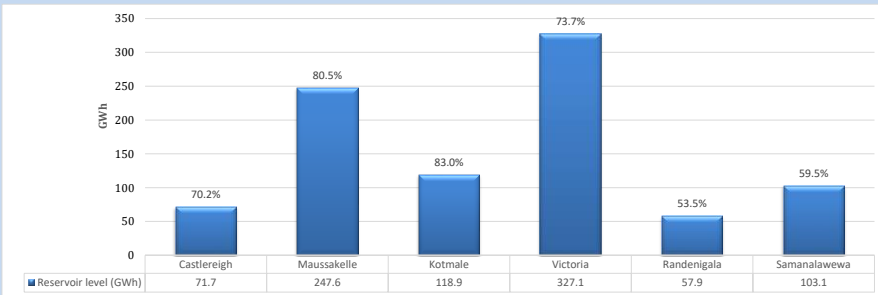
Table 06

Night Peak*	2,471	MW
Day Peak Maximum Demand	2,235	MW
Day Peak Minimum Demand	1,651	MW
Off Peak Minimum Demand	1,496	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 8, 2024



Total Reservoir Level 926.3 GWh  
% of Total capacity 72.5%

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

August 7, 2024

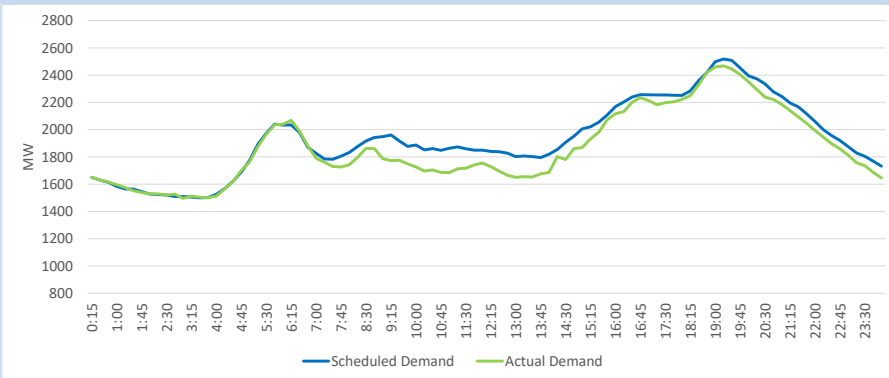
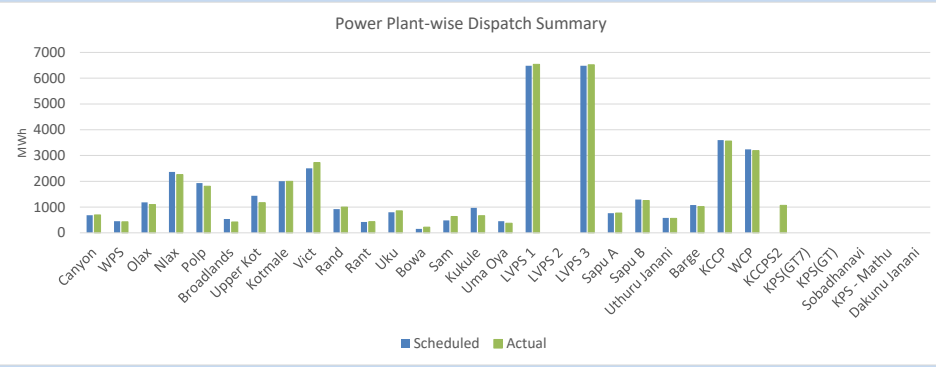


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,266	16,773	-493
CEB Coal	12,960	13,056	96
CEB Thermal Oil	7,309	8,229	920
IPP Thermal Oil	3,240	3,191	-49
NCRE (Telemetered)	5,512	2,982	-2530
<b>Total</b>	<b>46,287</b>	<b>44,233</b>	<b>-2054</b>

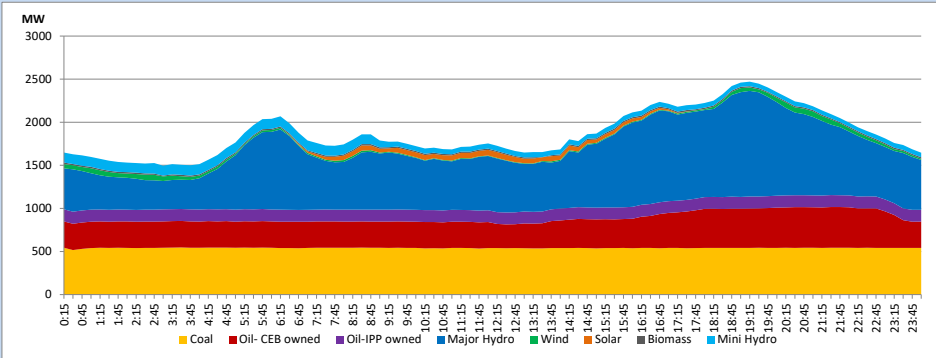
1.12 Power Plant-wise Dispatch Summary

August 7, 2024



1.13 Daily Load Curve

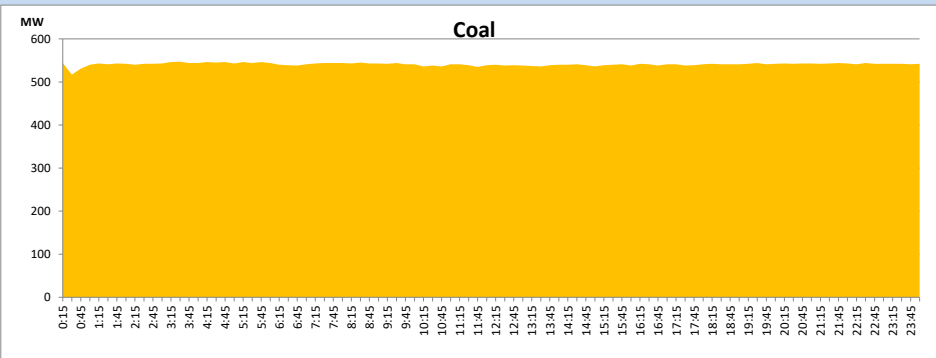
August 7, 2024



Solar and wind data is based on Telemetered Power Stations only

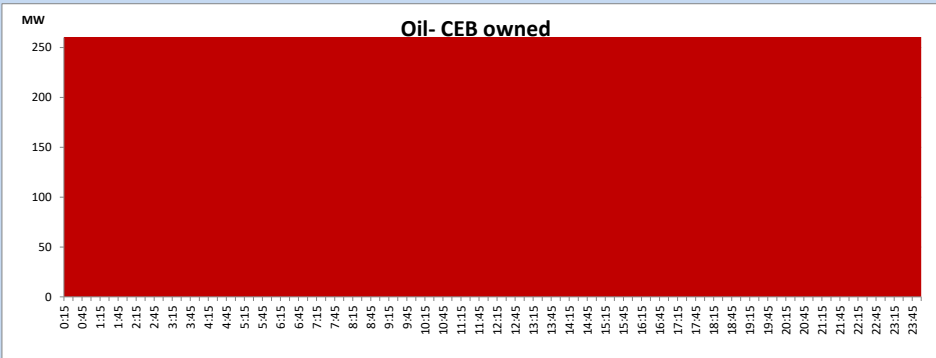
Coal Generation during

August 7, 2024



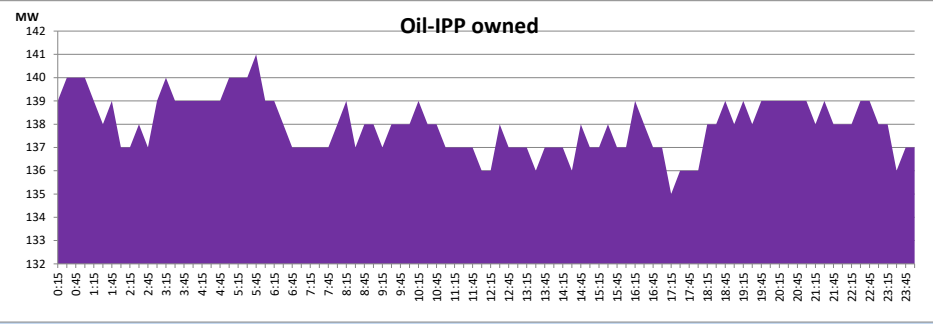
CEB Oil Plant Generation during

August 7, 2024



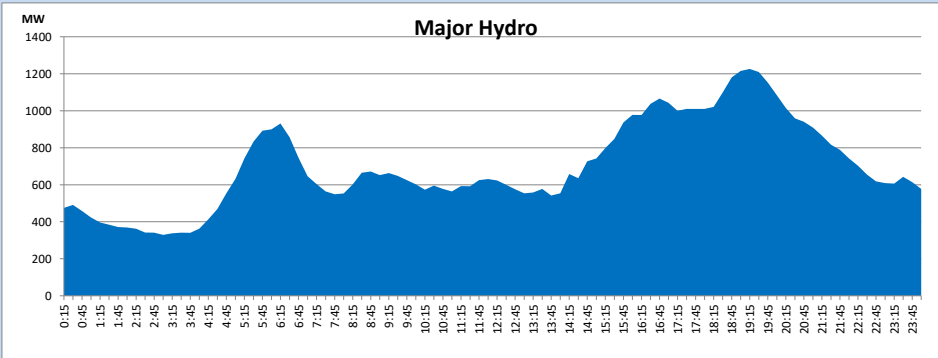
IPP Oil Plant Generation during

August 7, 2024



Major Hydro Generation during

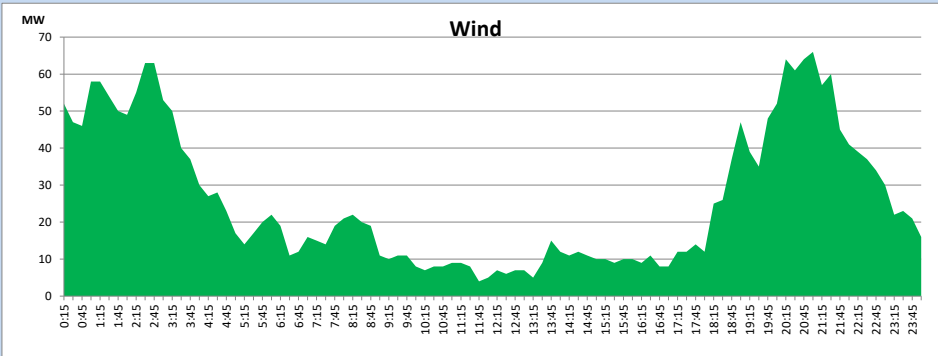
August 7, 2024



Wind Generation during

August 7, 2024

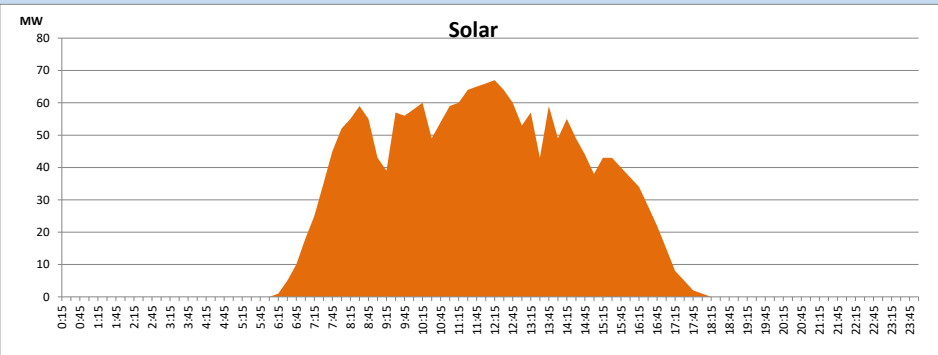
Based on Telemetered Power Stations only



Solar Generation during

August 7, 2024

Based on Telemetered Power Stations only

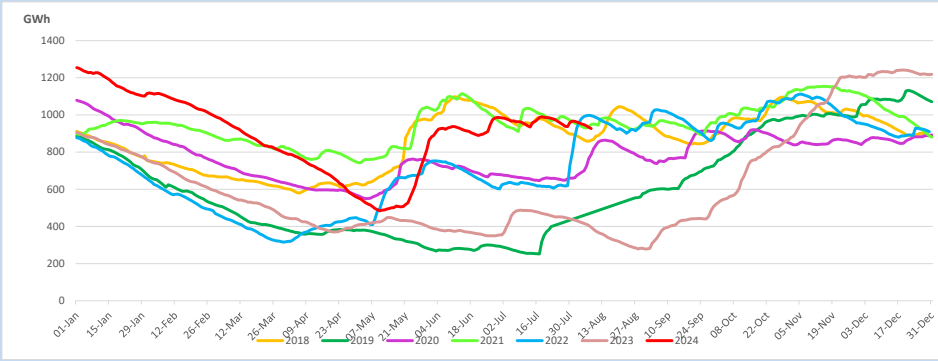


1.14 Major Incidents reported during the day

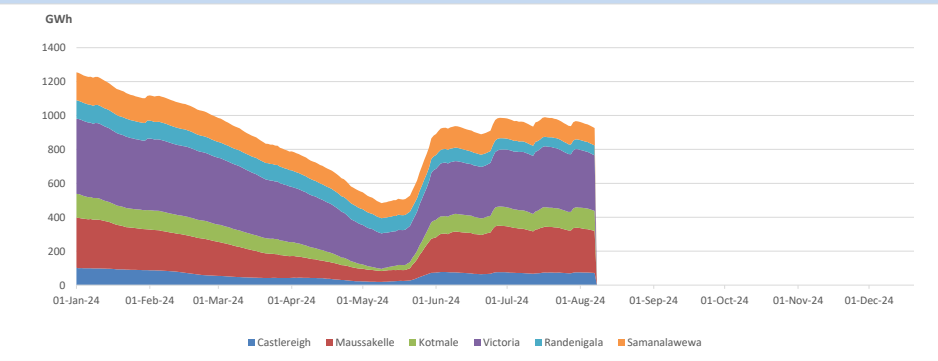
August 7, 2024

1) Nil

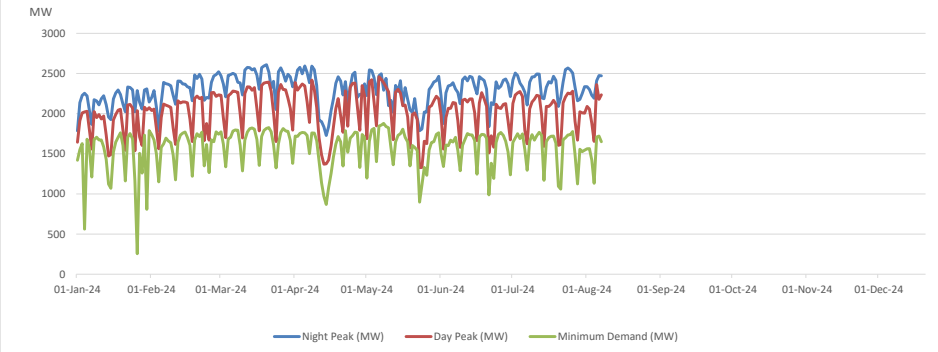
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



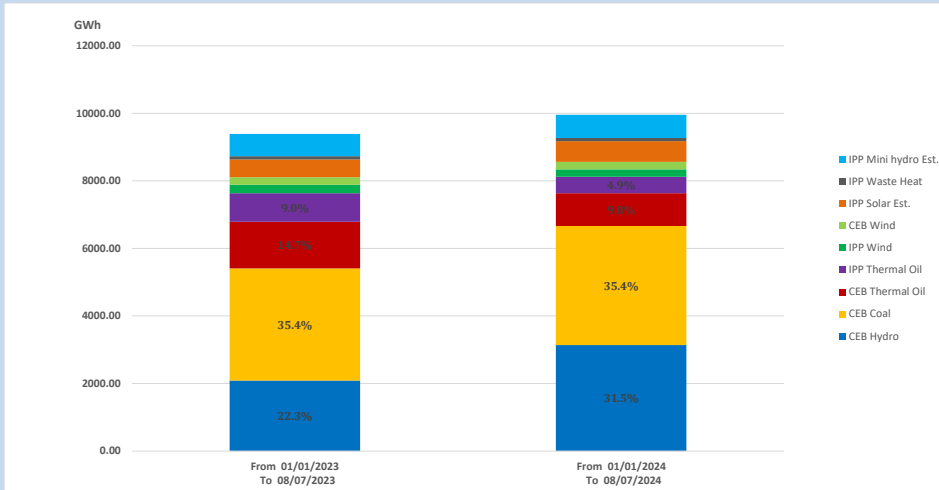
## 4. Variation of Demand during the current year



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 08/07/2023

9388 GWh

From 01/01/2024 To 08/07/2024

9956 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]