

# Generation and Reservoirs Statistics

July 29, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

July 29, 2024

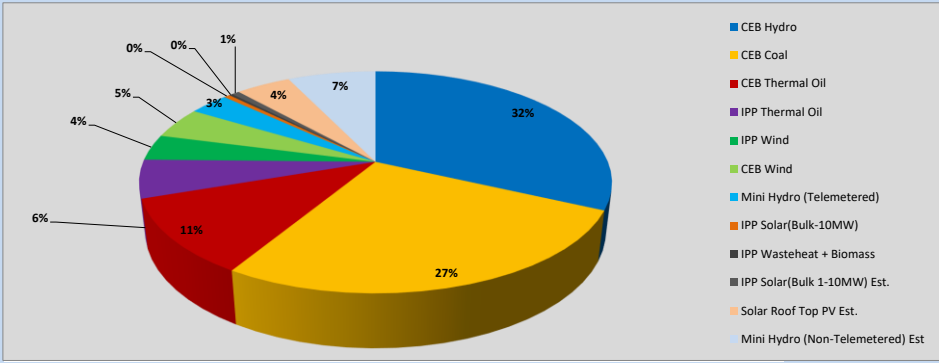


Table 01

	Generation (MWh)
CEB Hydro	15367
CEB Coal	12938
CEB Thermal Oil	5329
IPP Thermal Oil	2684
IPP Wind	1810
CEB Wind	2199
Mini Hydro (Telemetered)	1569
IPP Solar (Bulk)	238
IPP Waste heat + Biomass	132
<b>Total Generation (Excluding estimated figures)</b>	<b>42,266</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3472
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
<b>Total Generation (Including estimated figures)</b>	<b>48,212</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	452	35.21%
CEB Coal	391	30.46%
CEB Thermal Oil	101	7.90%
IPP Thermal	37	2.89%
SPP Wind	56	4.40%
CEB Wind	55	4.32%
Mini Hydro *	101	7.88%
IPP Solar *	80	6.27%
IPP Waste heat + BMP	9	0.67%
<b>Total</b>	<b>1,283</b>	

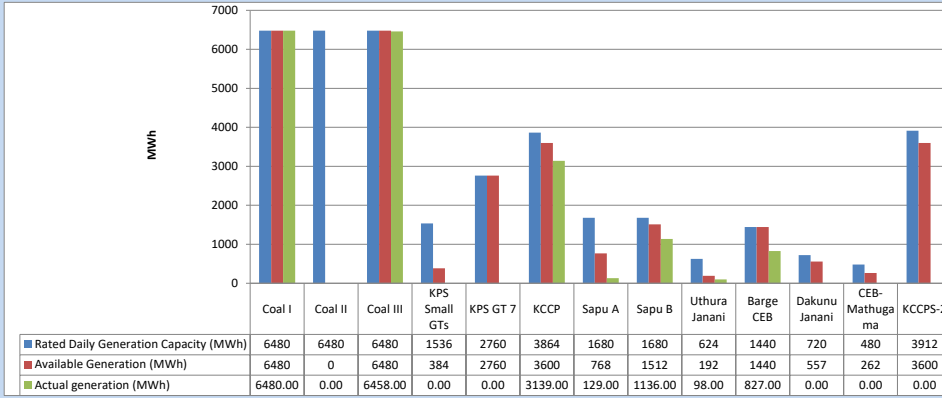
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,977	31.22%
CEB Coal	3,409	35.75%
CEB Thermal Oil	924	9.69%
IPP Thermal	475	4.98%
SPP Wind	210	2.20%
CEB Wind	213	2.23%
Mini Hydro *	653	6.85%
IPP Solar *	590	6.18%
IPP Waste heat	86	0.90%
<b>Total</b>	<b>9,536</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 29, 2024

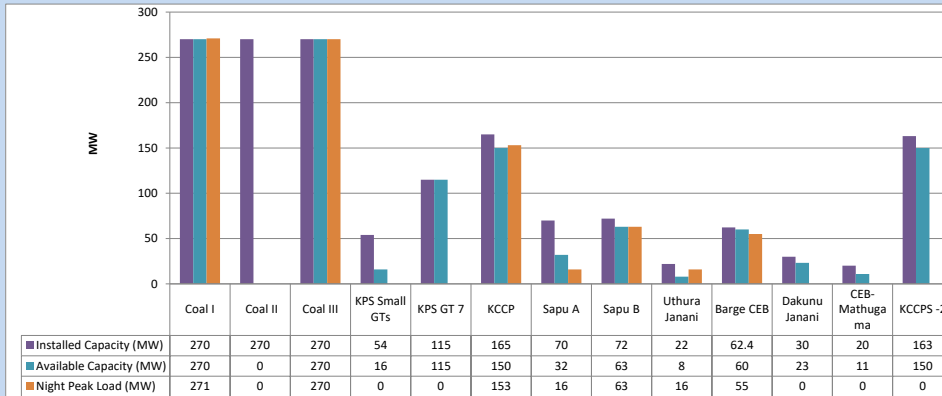


Available Generation is estimated based on plant availability at 6.00am on

July 30, 2024

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

July 29, 2024

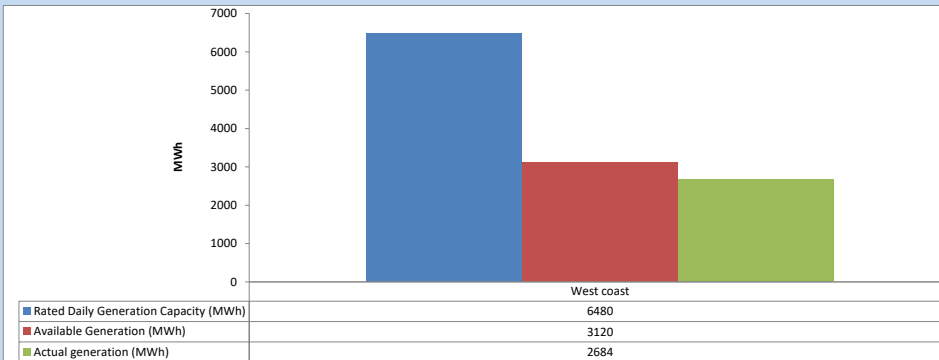


Plant availability is recorded at 6.00 am on

July 30, 2024

### 1.4 IPP owned Thermal Plant Dispatch

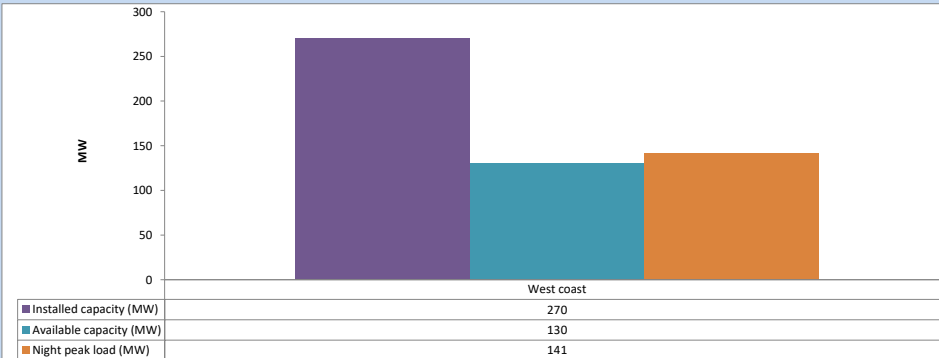
July 29, 2024



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

July 30, 2024

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

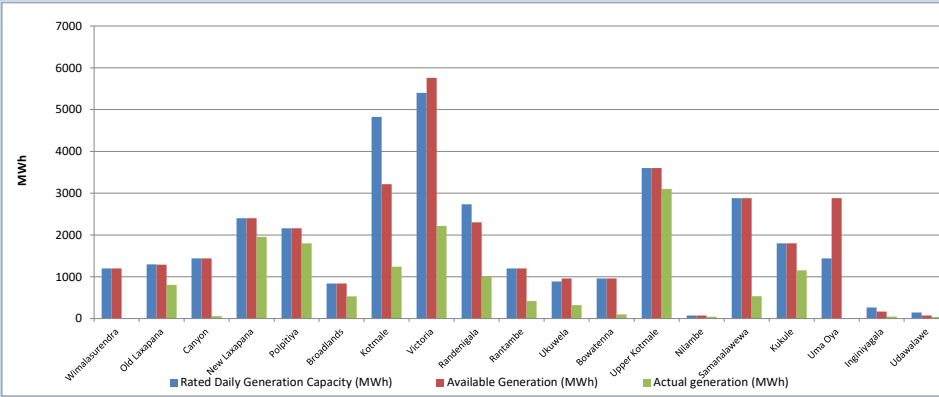


Plant availability is recorded at 6.00 am on

July 30, 2024

1.6 Major Hydro Plant Dispatch

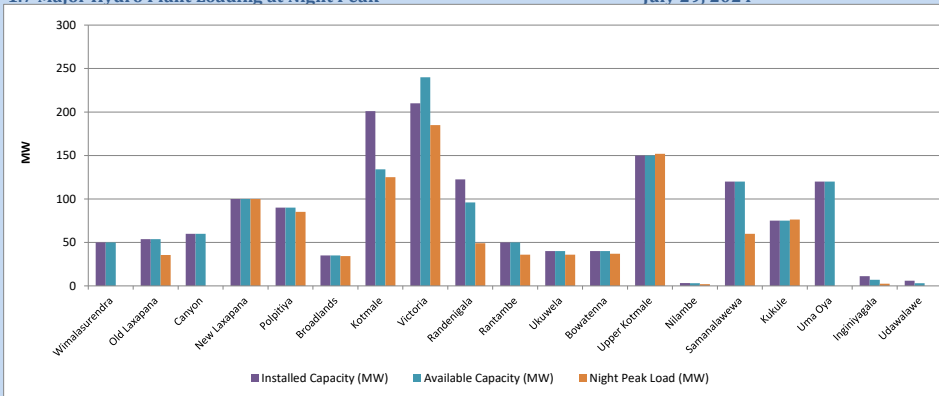
July 29, 2024



Available Generation is estimated based on plant availability at 6.00am on July 30, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 29, 2024



Plant availability is recorded at 6.00 am on July 30, 2024

1.8 Summary of Major Plant performance

July 29, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	0	4
Old Laxapana	54	54	36	807
Canyon	60	60	0	58
New Laxapana	100	100	100	1,952
Polpitiya	90	90	85	1,800
Broadlands	35	35	34	530
Kotmale	201	134	125	1,240
Victoria	210	240	185	2,216
Randenigala	123	96	49	1,000
Rantambe	50	50	36	420
Ukuwela	40	40	36	322
Bowatenna	40	40	37	101
Upper Kotmale	150	150	152	3,102
Nilambe	3	3	2	43
Samanalawewa	120	120	60	536
Kukule	75	75	76	1,153
Uma Oya	120	120	0	0
Inginipigala	11	7	3	48
Udawalawe	6	3	0	36
Puttalam Coal I	270	270	271	6,480
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,458
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	153	3,139
Sapugaskanda A	70	32	16	129
Sapugaskanda B	72	63	63	1,136
Uthura Janani	22	8	16	98
Barge CEB	62	60	55	827
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	141	2,684
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,765	2,164	42,267

Note- Plant availability is the availability recorded at 6 am on July 30, 2024

1.9 Contribution to the Night Peak in MW

July 29, 2024

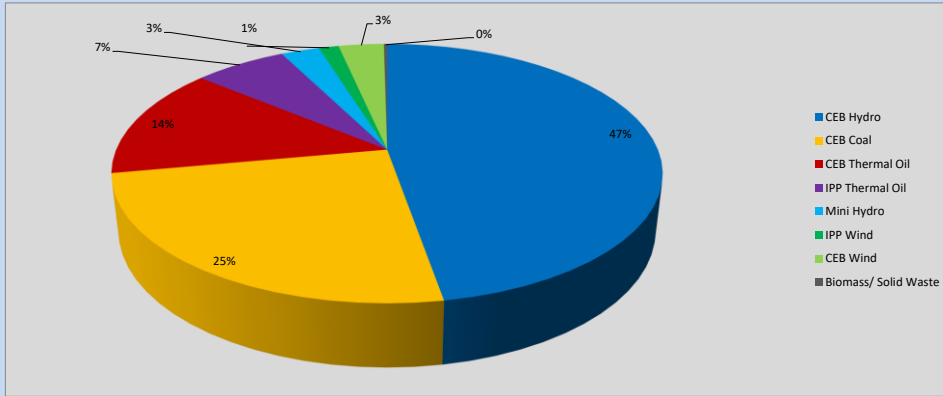


Table 05

CEB Hydro	1029	MW
CEB Coal	541	MW
CEB Thermal Oil	303	MW
IPP Thermal Oil	141	MW
Mini Hydro (Telemetered)	59	MW
IPP Wind	30.3	MW
CEB Wind	69.2	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

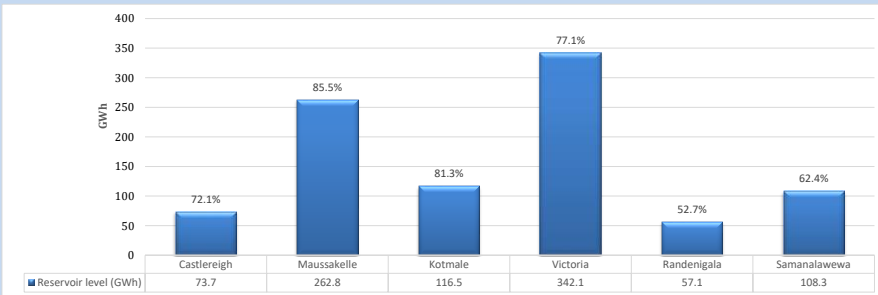
Table 06

Night Peak*	2,177	MW
Day Peak Maximum Demand	2,023	MW
Day Peak Minimum Demand	1,556	MW
Off Peak Minimum Demand	1,282	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 30, 2024



Total Reservoir Level 960.5 GWh  
% of Total capacity 75.1%

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

July 29, 2024

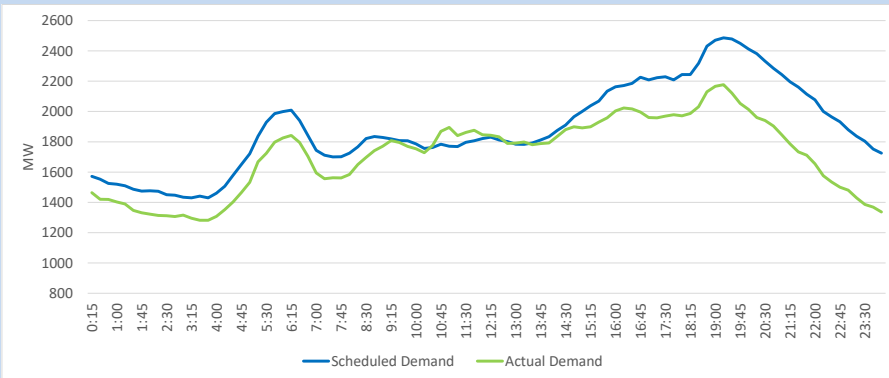
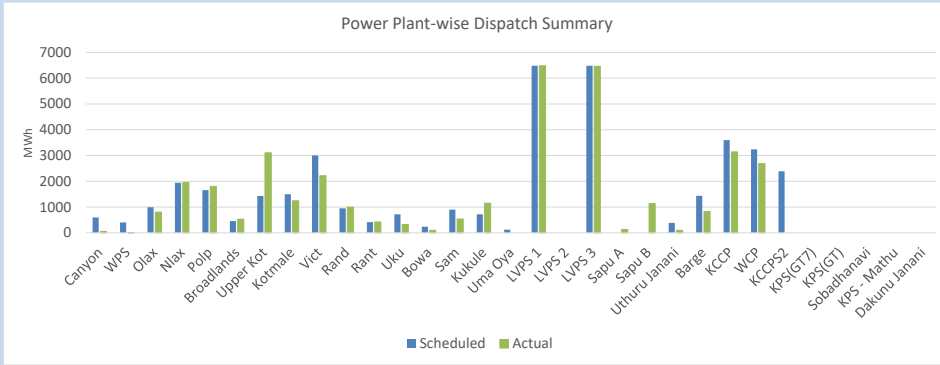


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,042	15,240	-802
CEB Coal	12,960	12,938	-22
CEB Thermal Oil	7,812	5,327	-2485
IPP Thermal Oil	3,240	2,684	-556
NCRE (Telemetered)	3,382	4,741	1358
<b>Total</b>	<b>43,437</b>	<b>40,929</b>	<b>-2508</b>

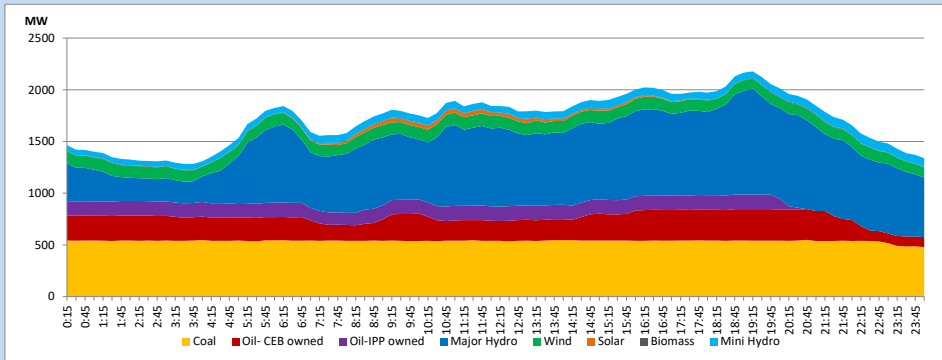
1.12 Power Plant-wise Dispatch Summary

July 29, 2024



1.13 Daily Load Curve

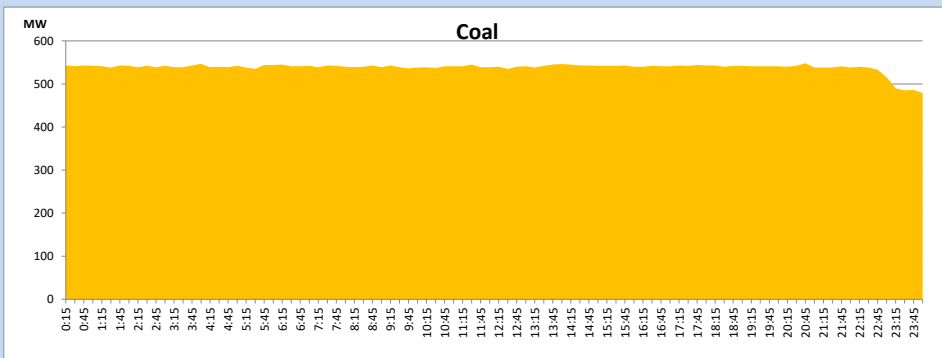
July 29, 2024



Solar and wind data is based on Telemetered Power Stations only

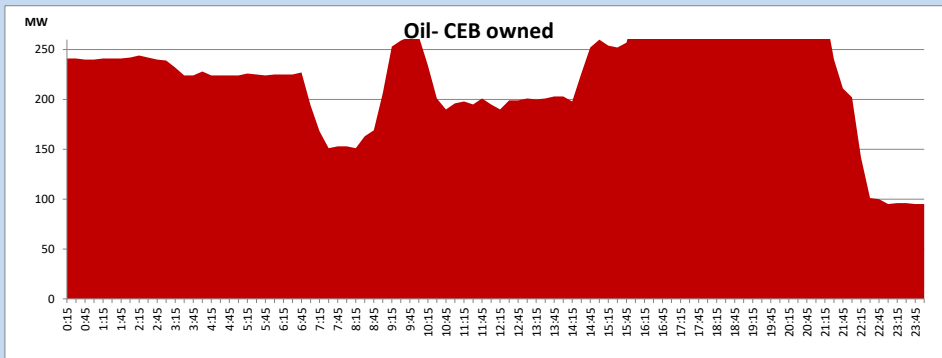
Coal Generation during

July 29, 2024

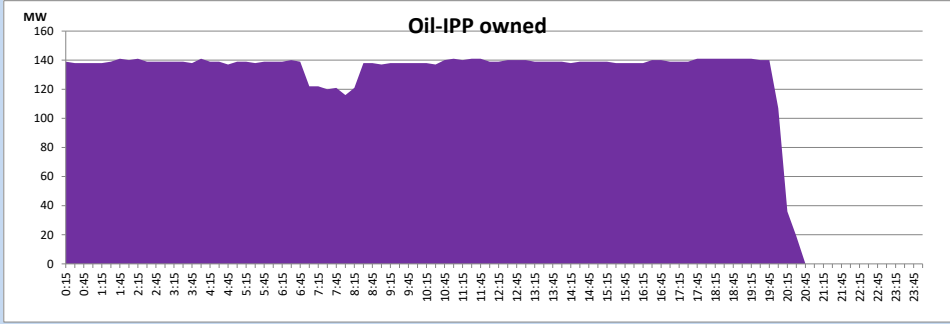


CEB Oil Plant Generation during

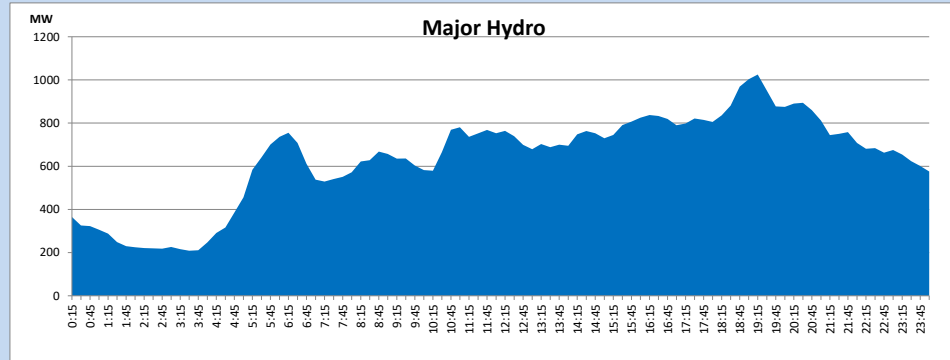
July 29, 2024



**IPP Oil Plant Generation during July 29, 2024**

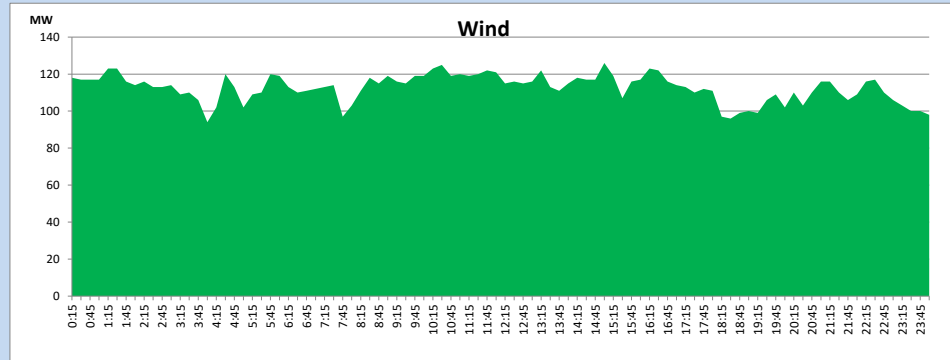


**Major Hydro Generation during July 29, 2024**



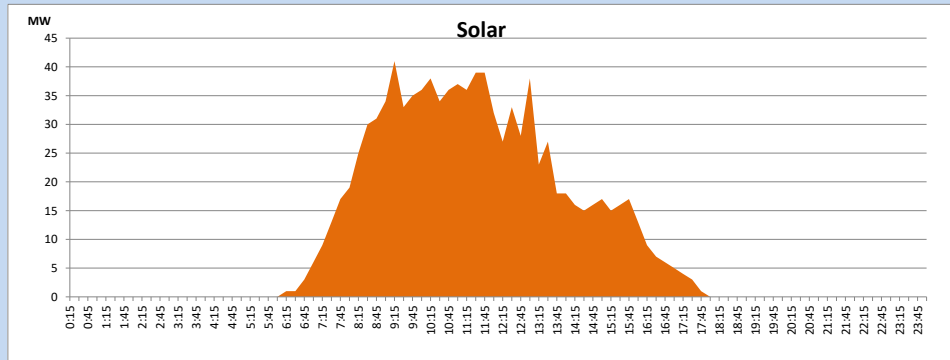
**Wind Generation during July 29, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 29, 2024**

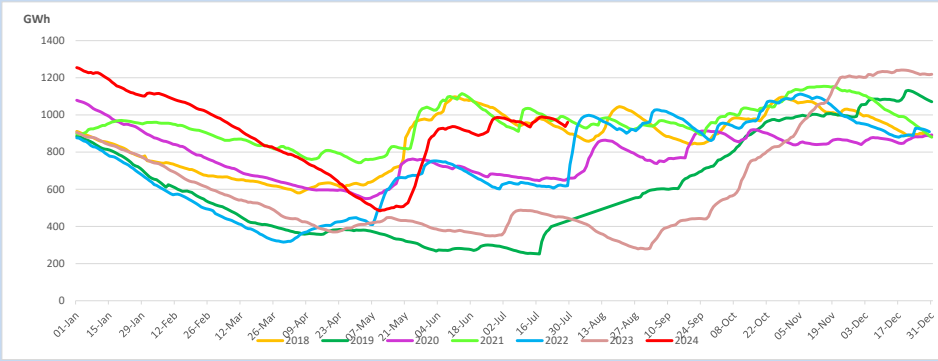
Based on Telemetered Power Stations only



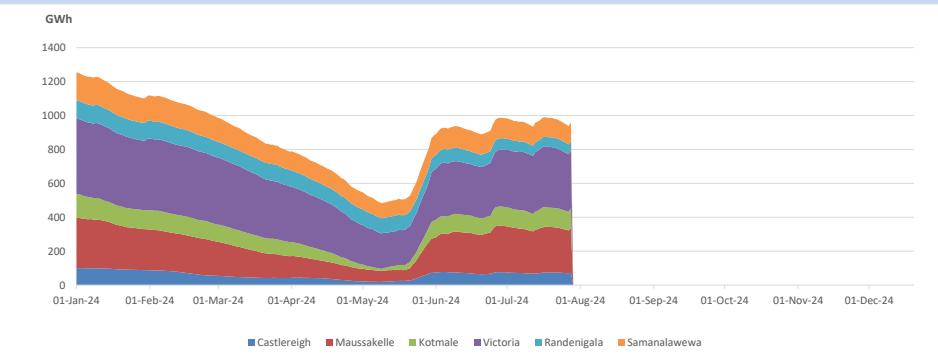
**1.14 Major Incidents reported during the day July 29, 2024**

- 1). Wimalasurendra GSS 132/33kV T/F 03 tripped at 15:15hrs from both sides due to the operation of LVREF protection. Wimalasurendra T/F 03 is yet to be restored.
- 2). Upper Kotmale pond spilling started at 4:58hrs (30/07/2024), and continues to present hour.

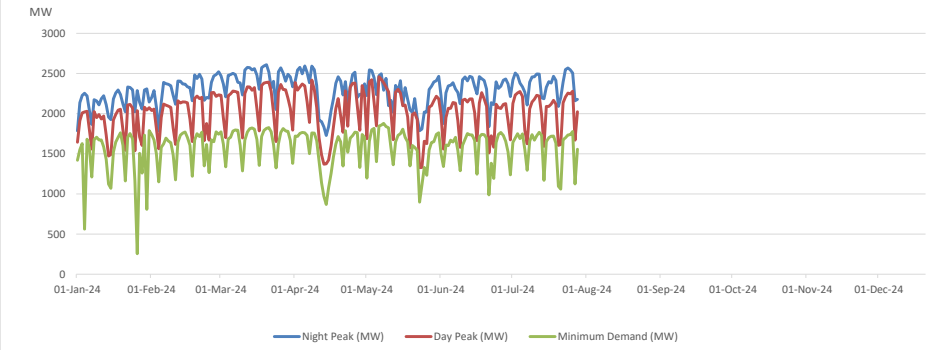
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



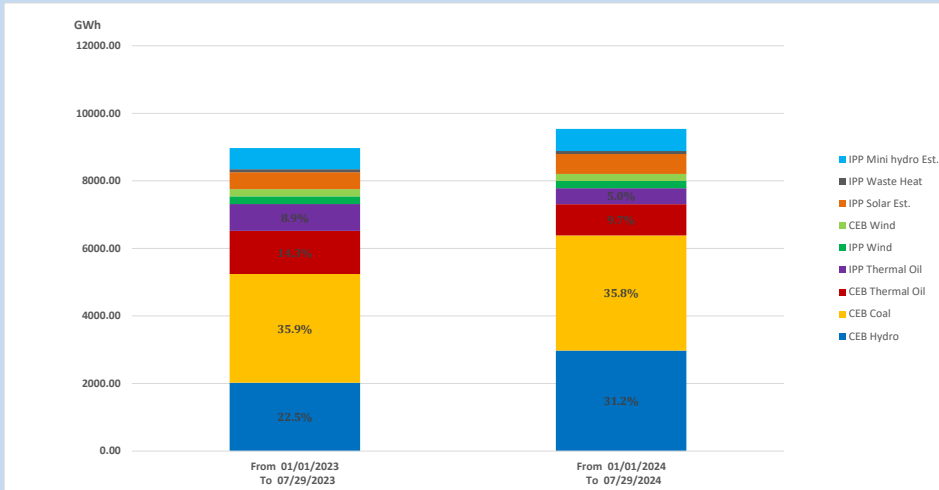
## 4. Variation of Demand during the current year



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 07/29/2023

8974 GWh

From 01/01/2024 To 07/29/2024

9536 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]