

# Generation and Reservoirs Statistics

July 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 19, 2024

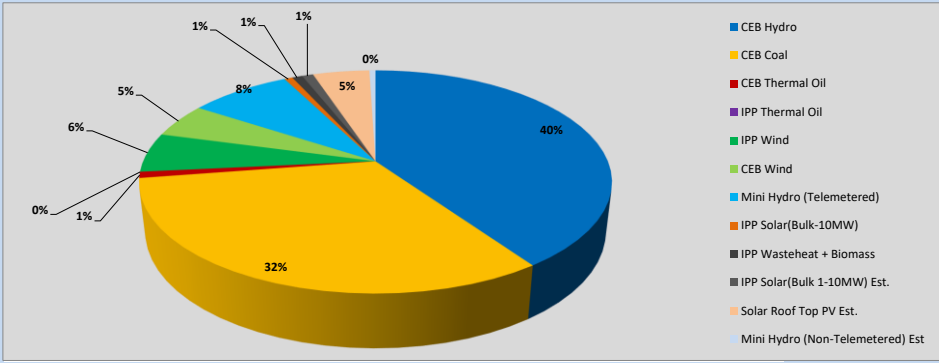


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	18871
CEB Coal	CEB Coal	15138
CEB Thermal Oil	CEB Thermal Oil	420
IPP Thermal Oil	IPP Thermal Oil	0
IPP Wind	IPP Wind	2675
CEB Wind	CEB Wind	2332
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	3882
IPP Solar (Bulk)	IPP Solar (Bulk)	311
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	393
<b>Total Generation (Excluding estimated figures)</b>		<b>44,022</b>
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		234
* Estimated IPP Solar PV (Bulk 1-10MW)		428
* Estimated Solar Roof Top PV		2170
<b>Total Generation (Including estimated figures)</b>		<b>46,854</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 06 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	311	35.37%
CEB Coal	280	31.83%
CEB Thermal Oil	61	6.99%
IPP Thermal	18	2.07%
SPP Wind	38	4.30%
CEB Wind	37	4.21%
Mini Hydro *	73	8.32%
IPP Solar *	55	6.22%
IPP Waste heat + BMP	6	0.69%
<b>Total</b>	<b>878</b>	

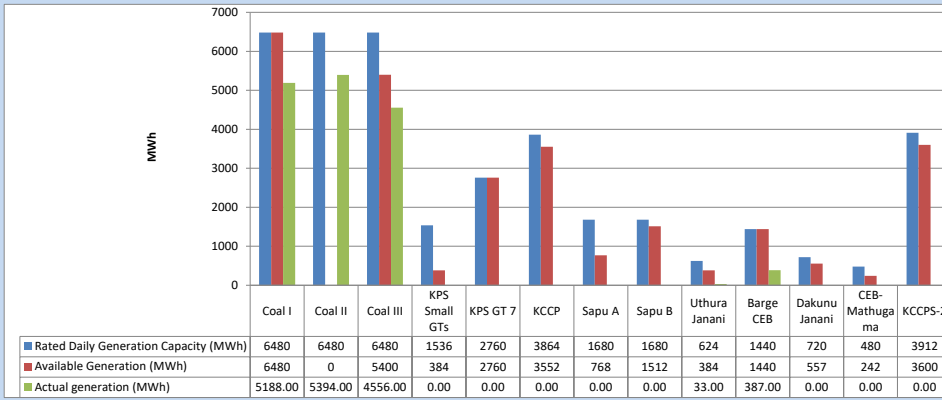
Table 07 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,818	31.03%
CEB Coal	3,284	36.16%
CEB Thermal Oil	878	9.67%
IPP Thermal	452	4.98%
SPP Wind	190	2.09%
CEB Wind	193	2.13%
Mini Hydro *	622	6.85%
IPP Solar *	561	6.18%
IPP Waste heat	83	0.92%
<b>Total</b>	<b>9,081</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 19, 2024

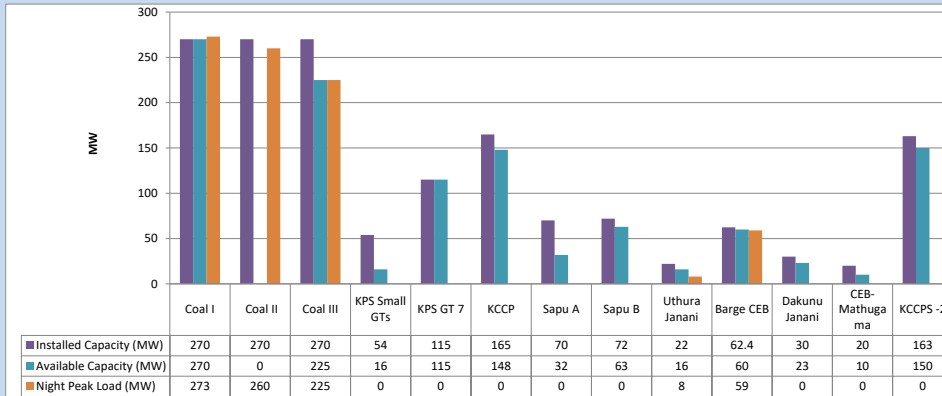


Available Generation is estimated based on plant availability at 6.00am on

July 20, 2024

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

July 19, 2024

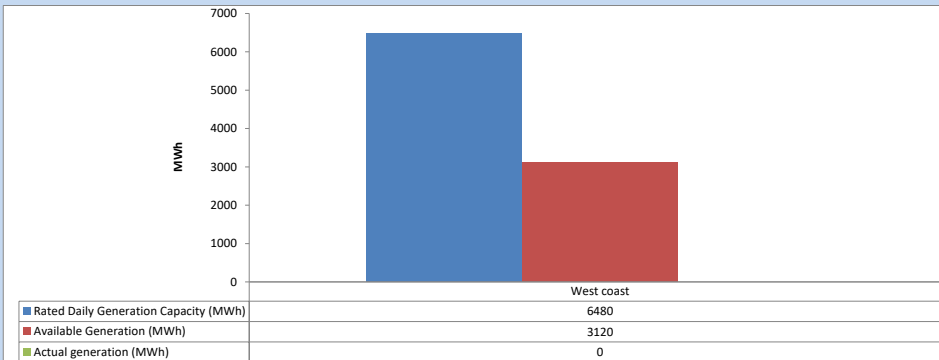


Plant availability is recorded at 6.00 am on

July 20, 2024

### 1.4 IPP owned Thermal Plant Dispatch

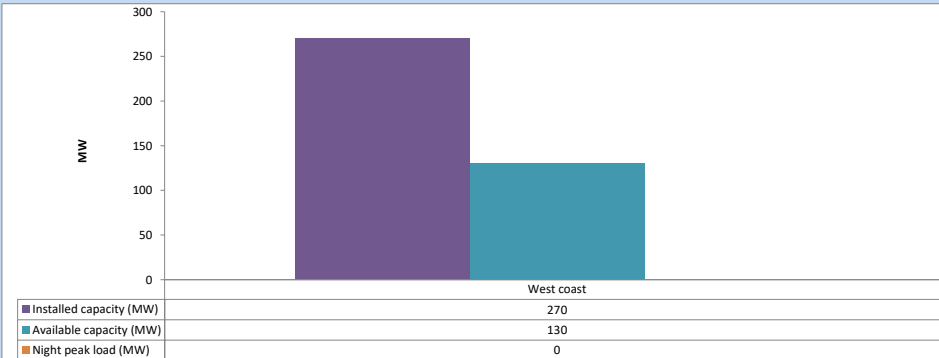
July 19, 2024



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

July 20, 2024

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

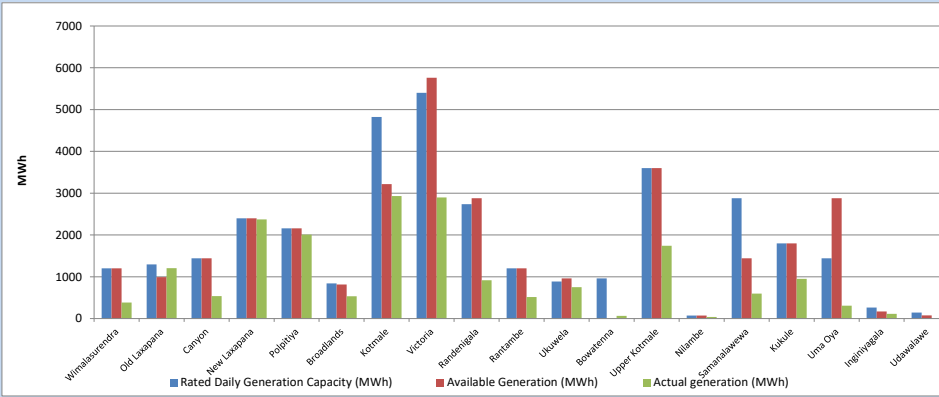


Plant availability is recorded at 6.00 am on

July 20, 2024

1.6 Major Hydro Plant Dispatch

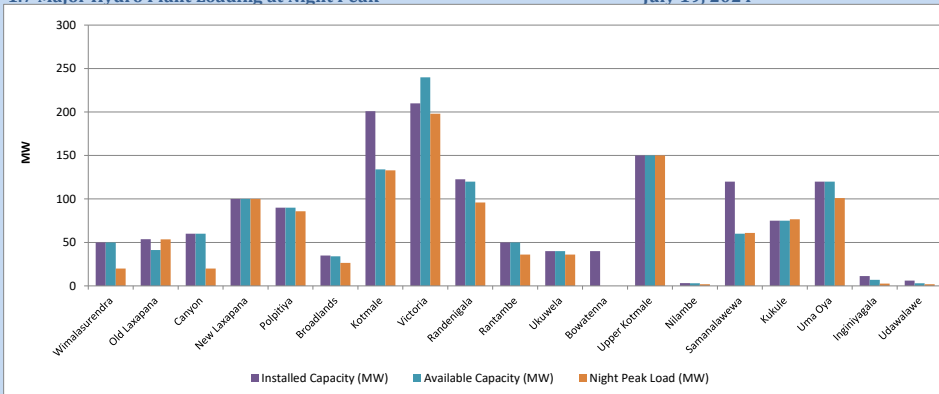
July 19, 2024



Available Generation is estimated based on plant availability at 6.00am on July 20, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 19, 2024



Plant availability is recorded at 6.00 am on July 20, 2024

1.8 Summary of Major Plant performance

July 19, 2024

Table 03

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	383
Old Laxapana	54	41	54	1,206
Canyon	60	60	20	537
New Laxapana	100	100	100	2,373
Polpitiya	90	90	86	2,010
Broadlands	35	34	27	533
Kotmale	201	134	133	2,930
Victoria	210	240	198	2,897
Randenigala	123	120	96	918
Rantambe	50	50	36	515
Ukuwela	40	40	36	753
Bowatenna	40	0	0	64
Upper Kotmale	150	150	150	1,743
Nilambe	3	3	2	40
Samanalawewa	120	60	61	599
Kukule	75	75	77	951
Uma Oya	120	120	101	307
Inginiyagala	11	7	3	113
Udawalawe	6	3	2	0
Puttalam Coal I	270	270	273	5,188
Puttalam Coal II	270	0	260	5,394
Puttalam Coal III	270	225	225	4,556
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	0	0
Uthura Janani	22	16	8	33
Barge CEB	62	60	59	387
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	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,636	2,399	44,023

Note- Plant availability is the availability recorded at 6 am on July 20, 2024

1.9 Contribution to the Night Peak in MW

July 19, 2024

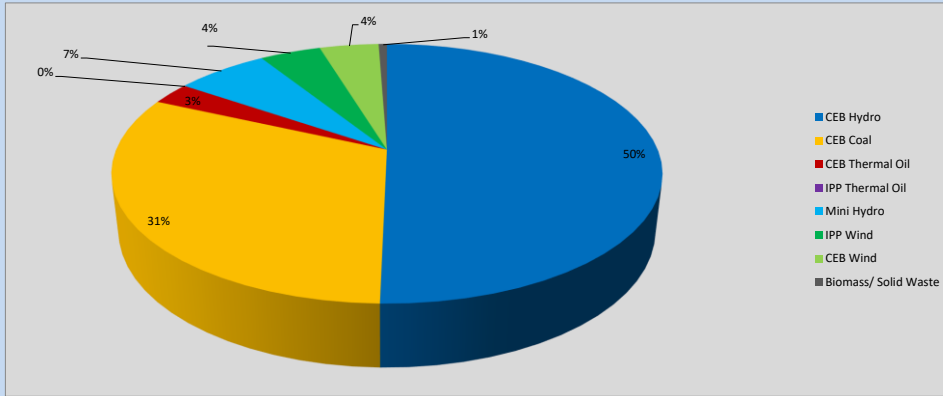


Table 04

CEB Hydro	1215	MW
CEB Coal	758	MW
CEB Thermal Oil	67	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	157	MW
IPP Wind	103.3	MW
CEB Wind	100.2	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

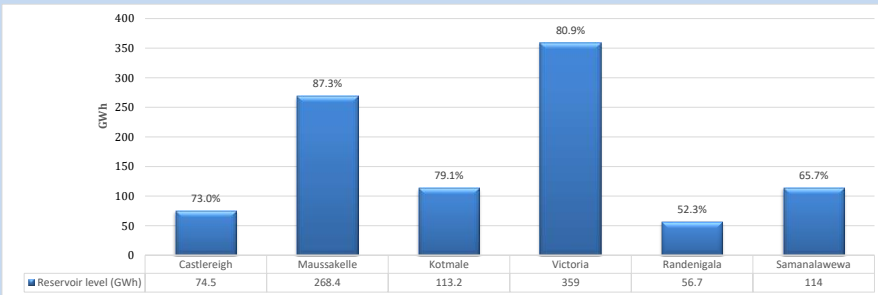
Table 05

Night Peak*	2,414	MW
Day Peak Maximum Demand	2,119	MW
Day Peak Minimum Demand	1,633	MW
Off Peak Minimum Demand	1,459	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 20, 2024



Total Reservoir Level 985.8 GWh  
% of Total capacity 77.1%

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

July 19, 2024

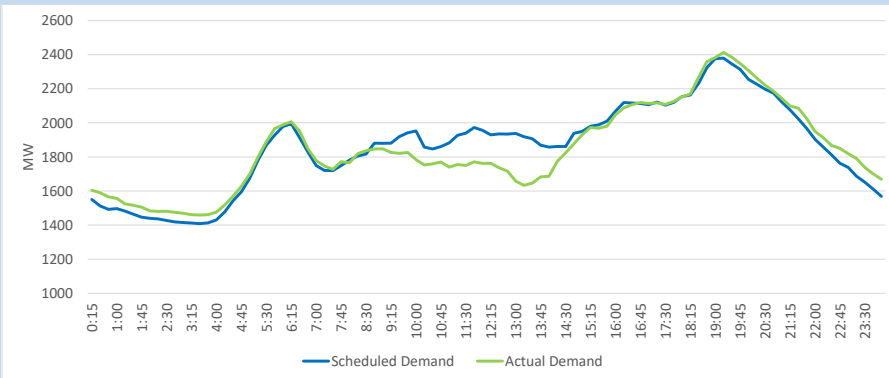
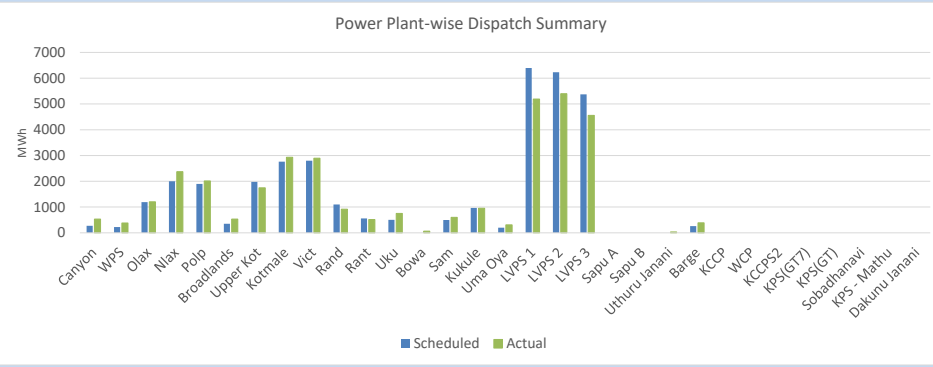


Table 02

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,295	18,718	1423
CEB Coal	17,996	15,139	-2858
CEB Thermal Oil	262	420	158
IPP Thermal Oil	-	-	0
NCRE (Telemetered)	9,081	9,999	917
<b>Total</b>	<b>44,635</b>	<b>44,275</b>	<b>-360</b>

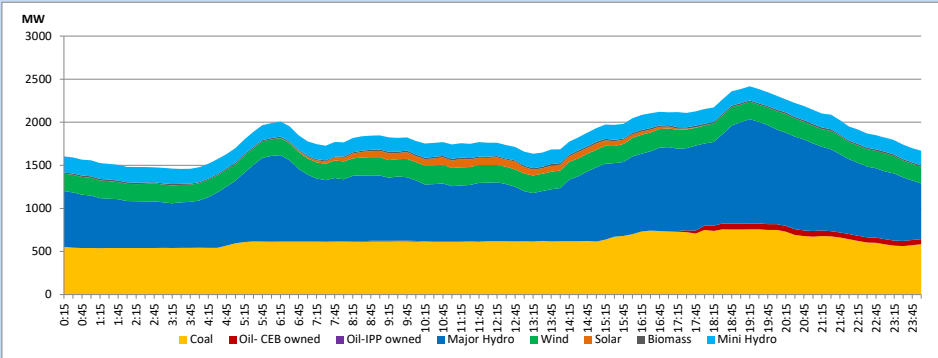
### 1.12 Power Plant-wise Dispatch Summary

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### 1.13 Daily Load Curve

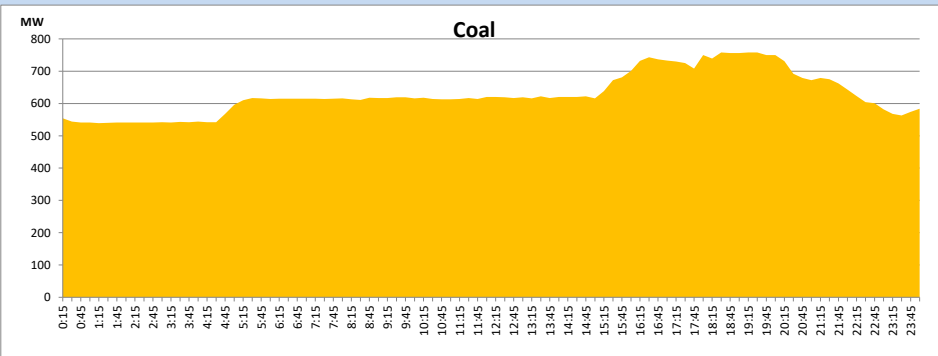
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Solar and wind data is based on Telemetered Power Stations only

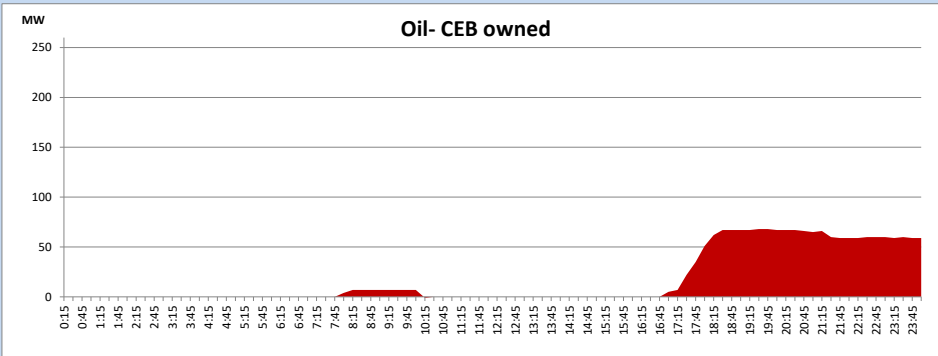
### Coal Generation during

July 19, 2024



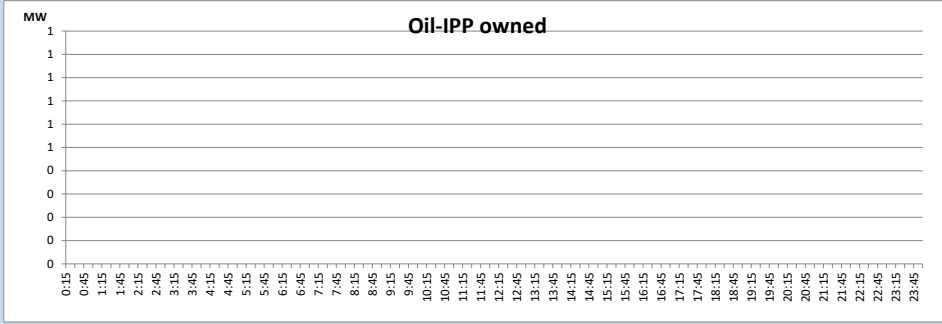
### CEB Oil Plant Generation during

July 19, 2024



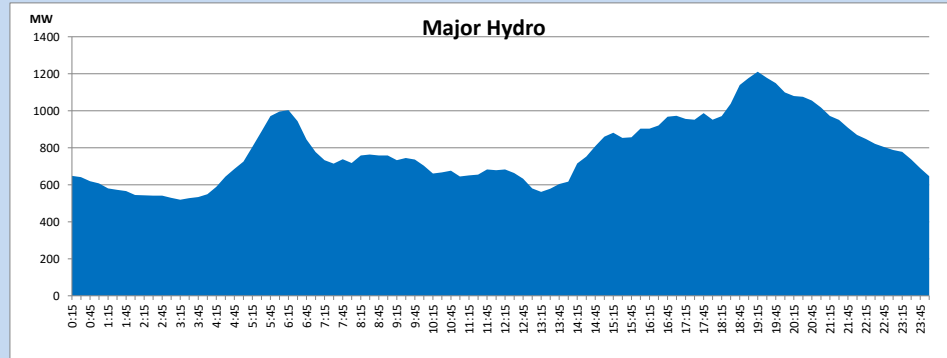
IPP Oil Plant Generation during

July 19, 2024



Major Hydro Generation during

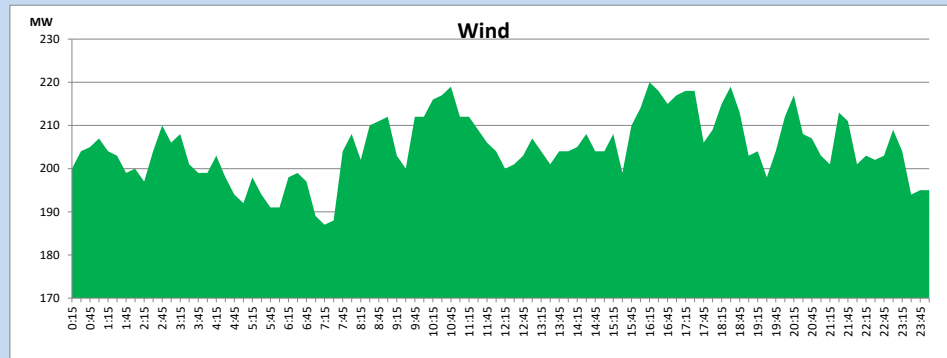
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Wind Generation during

July 19, 2024

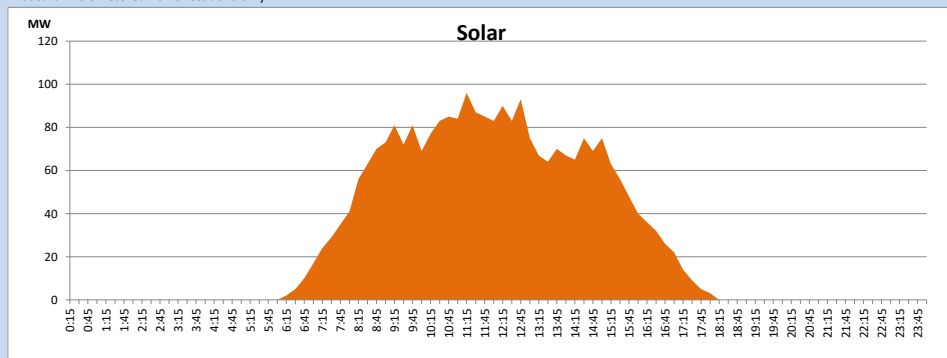
Based on Telemetered Power Stations only



Solar Generation during

July 19, 2024

Based on Telemetered Power Stations only

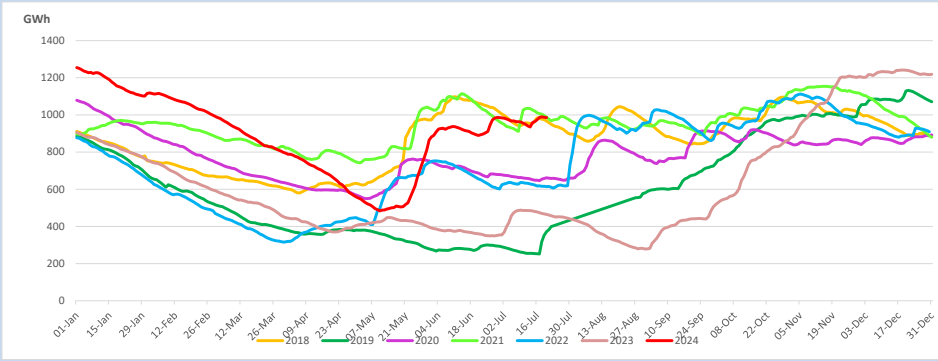


1.14 Major Incidents reported during the day

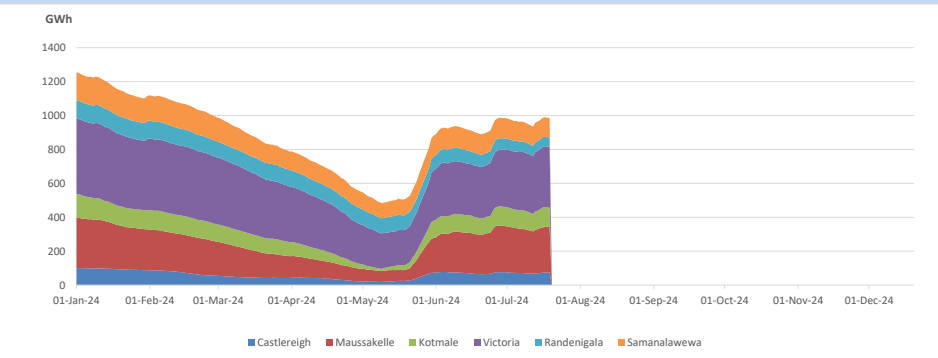
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Nil

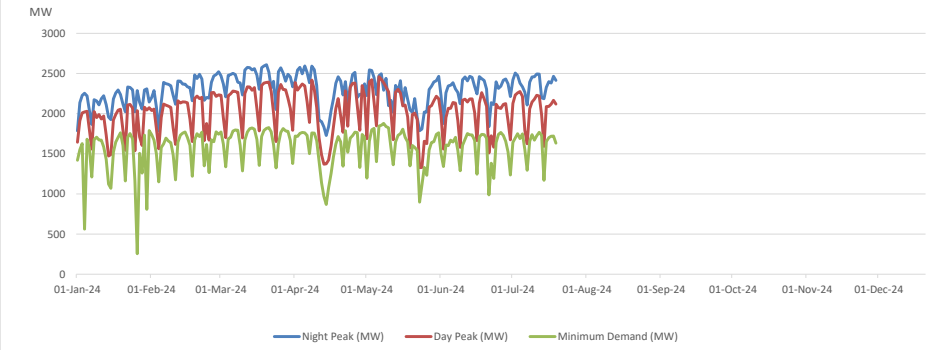
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



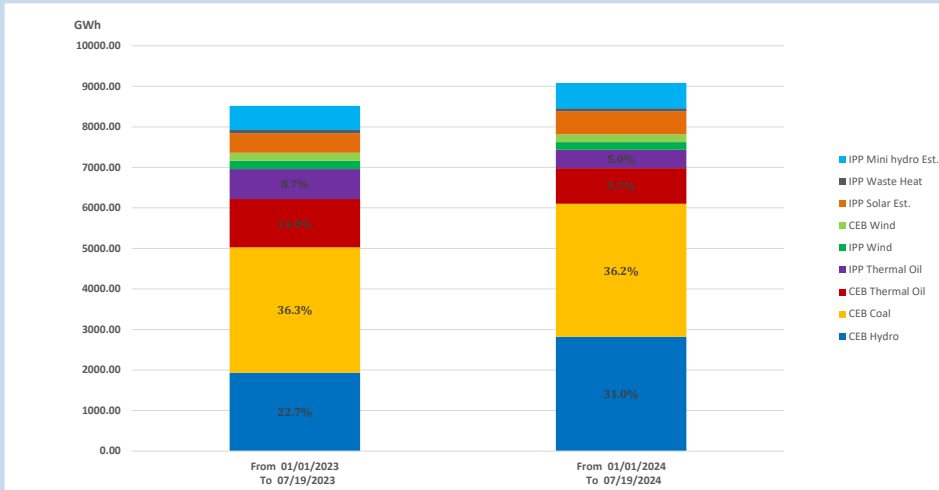
## 4. Variation of Demand during the current year



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 07/19/2023

8516 GWh

From 01/01/2024 To 07/19/2024

9081 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