

# Generation and Reservoirs Statistics

July 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 20, 2024

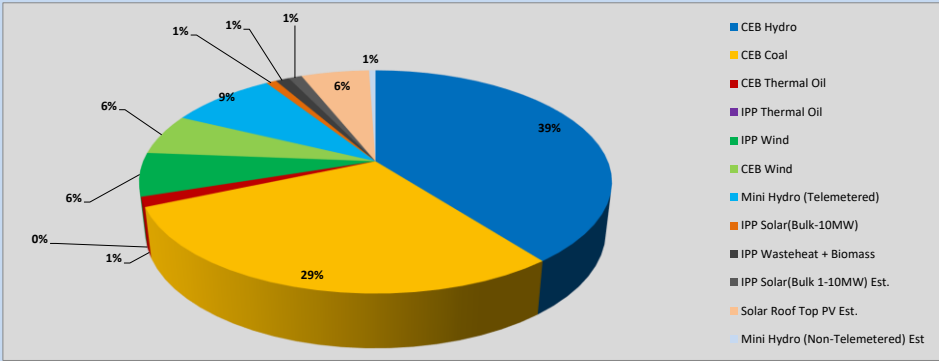


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	15377
CEB Coal	CEB Coal	11315
CEB Thermal Oil	CEB Thermal Oil	552
IPP Thermal Oil	IPP Thermal Oil	0
IPP Wind	IPP Wind	2445
CEB Wind	CEB Wind	2308
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	3383
IPP Solar (Bulk)	IPP Solar (Bulk)	323
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	435
<b>Total Generation (Excluding estimated figures)</b>		<b>36,138</b>
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		204
* Estimated IPP Solar PV (Bulk 1-10MW)		424
* Estimated Solar Roof Top PV		2170
<b>Total Generation (Including estimated figures)</b>		<b>38,936</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 06 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	326	35.54%
CEB Coal	291	31.72%
CEB Thermal Oil	62	6.76%
IPP Thermal	18	1.98%
SPP Wind	40	4.39%
CEB Wind	39	4.29%
Mini Hydro *	77	8.35%
IPP Solar *	58	6.27%
IPP Waste heat + BMP	6	0.71%
<b>Total</b>	<b>917</b>	

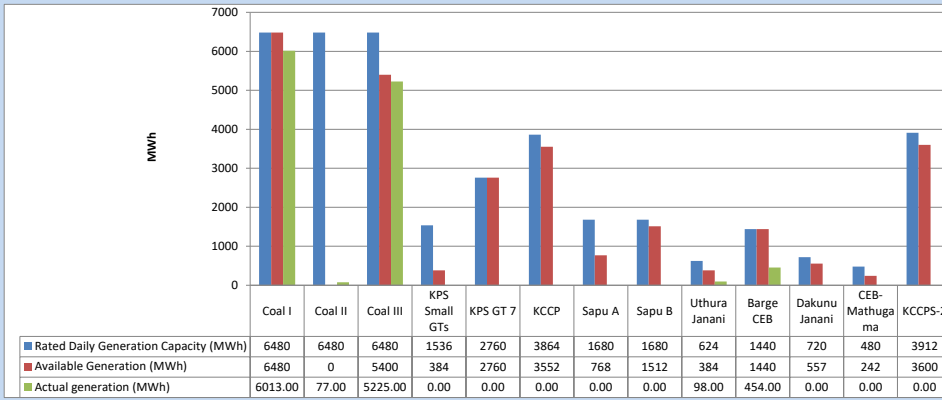
Table 07 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,834	31.07%
CEB Coal	3,295	36.13%
CEB Thermal Oil	879	9.63%
IPP Thermal	452	4.95%
SPP Wind	192	2.11%
CEB Wind	195	2.14%
Mini Hydro *	626	6.86%
IPP Solar *	564	6.18%
IPP Waste heat	84	0.92%
<b>Total</b>	<b>9,120</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 20, 2024

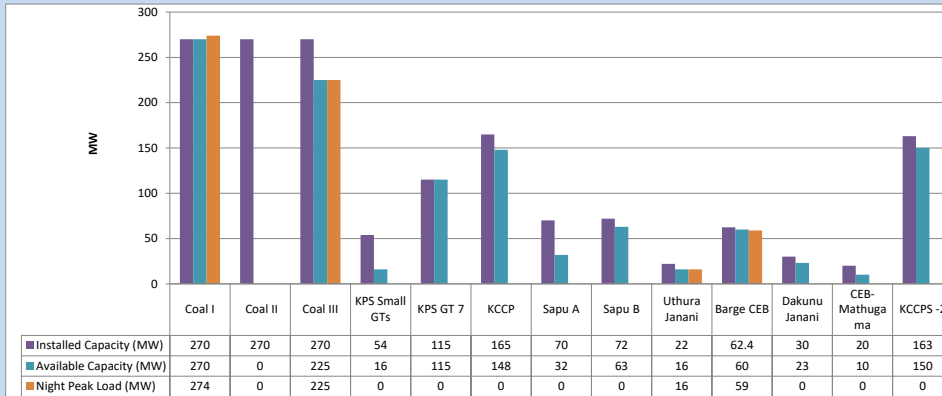


Available Generation is estimated based on plant availability at 6.00am on

July 21, 2024

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

July 20, 2024

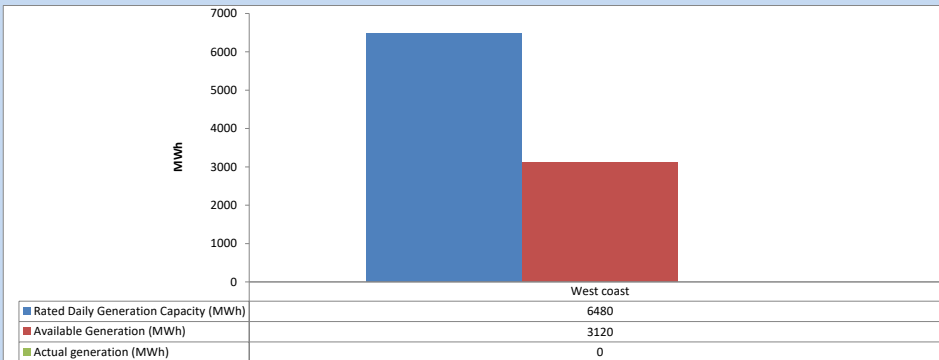


Plant availability is recorded at 6.00 am on

July 21, 2024

### 1.4 IPP owned Thermal Plant Dispatch

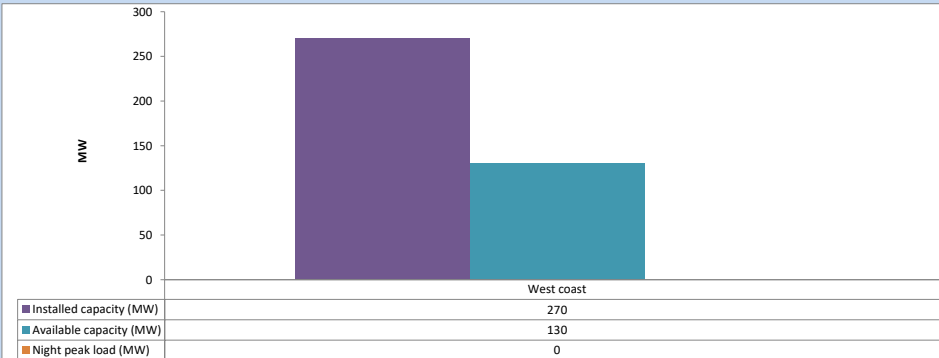
July 20, 2024



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

July 21, 2024

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

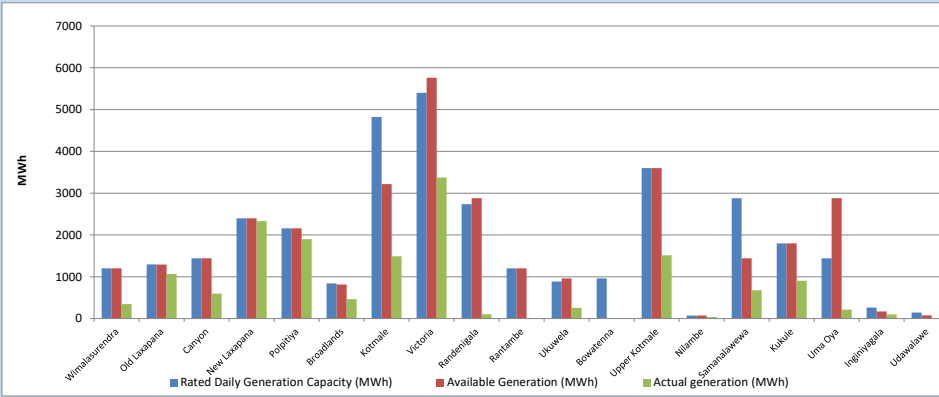


Plant availability is recorded at 6.00 am on

July 21, 2024

1.6 Major Hydro Plant Dispatch

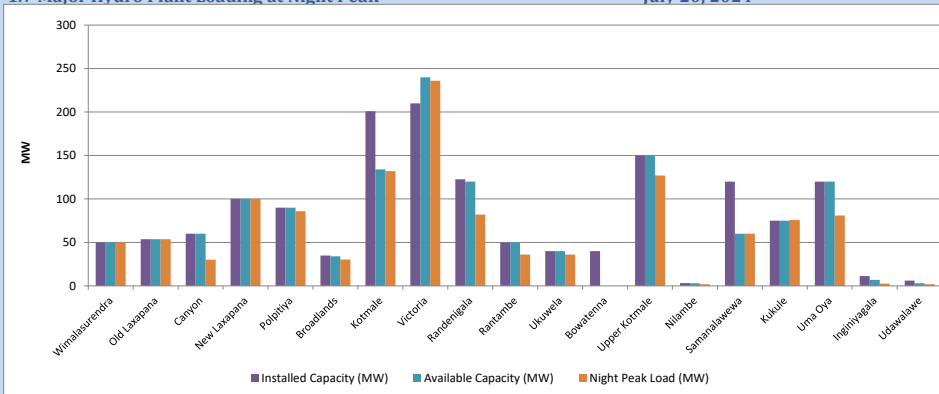
July 20, 2024



Available Generation is estimated based on plant availability at 6.00am on July 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 20, 2024



Plant availability is recorded at 6.00 am on July 21, 2024

1.8 Summary of Major Plant performance

July 20, 2024

Table 03

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	345
Old Laxapana	54	54	54	1,065
Canyon	60	60	30	596
New Laxapana	100	100	100	2,330
Polpitiya	90	90	86	1,900
Broadlands	35	34	30	467
Kotmale	201	134	132	1,490
Victoria	210	240	236	3,376
Randenigala	123	120	82	102
Rantambe	50	50	36	0
Ukuwela	40	40	36	257
Bowatenna	40	0	0	0
Upper Kotmale	150	150	127	1,512
Nilambe	3	3	2	40
Samanalawewa	120	60	60	678
Kukule	75	75	76	905
Uma Oya	120	120	81	214
Inginipigala	11	7	3	99
Udawalawe	6	3	2	0
Puttalam Coal I	270	270	274	6,013
Puttalam Coal II	270	0	0	77
Puttalam Coal III	270	225	225	5,225
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	16	98
Barge CEB	62	60	59	454
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	2,648	2,125	36,137

Note- Plant availability is the availability recorded at 6 am on July 21, 2024

1.9 Contribution to the Night Peak in MW

July 20, 2024

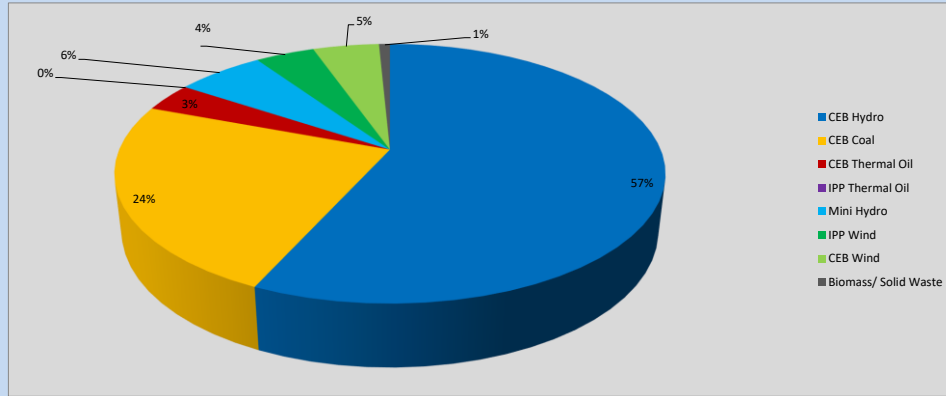


Table 04

CEB Hydro	1188	MW
CEB Coal	499	MW
CEB Thermal Oil	75	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	129	MW
IPP Wind	86.8	MW
CEB Wind	97.1	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

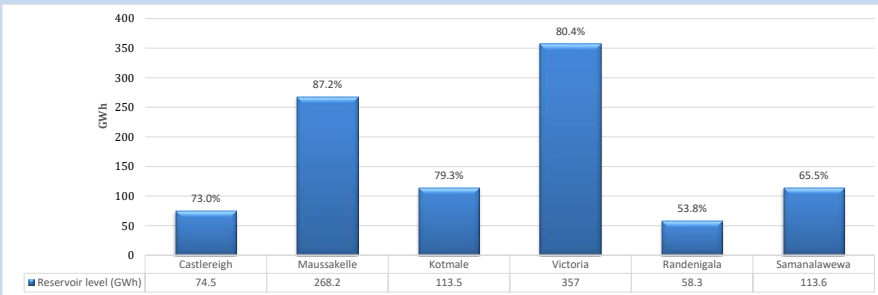
Table 05

Night Peak*	2,090	MW
Day Peak Maximum Demand	1,606	MW
Day Peak Minimum Demand	1,096	MW
Off Peak Minimum Demand	1,476	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 21, 2024



Total Reservoir Level  
985.1 GWh  
% of Total capacity  
77.0%

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

July 20, 2024

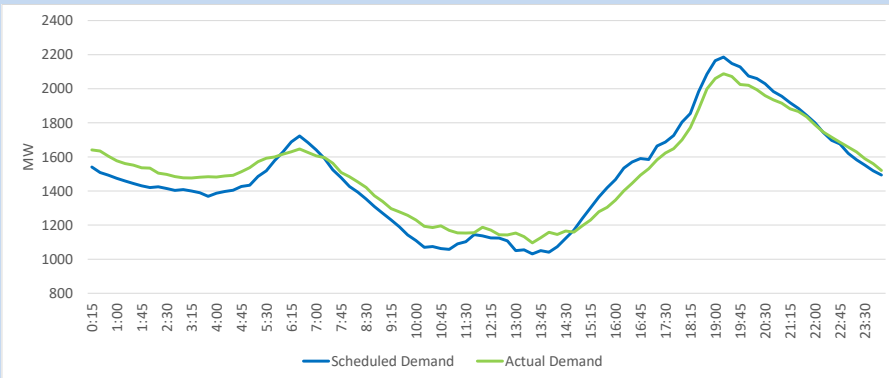
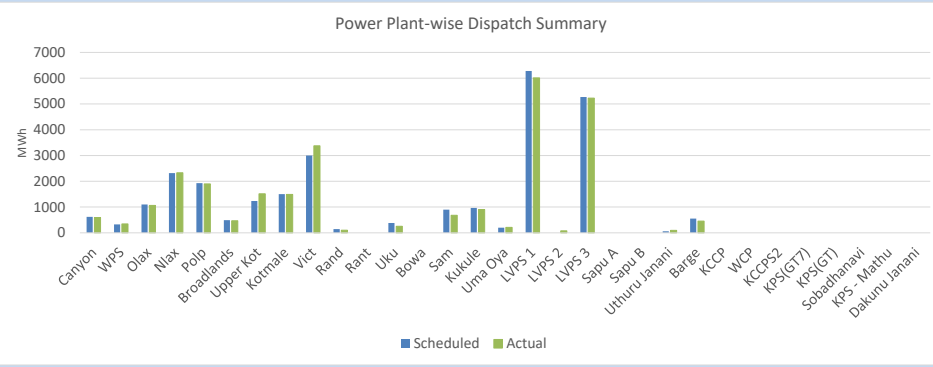


Table 02

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,109	15,238	128
CEB Coal	11,550	11,316	-234
CEB Thermal Oil	610	552	-58
IPP Thermal Oil	-	-	0
NCRE (Telemetered)	8,537	9,147	610
<b>Total</b>	<b>35,806</b>	<b>36,252</b>	<b>446</b>

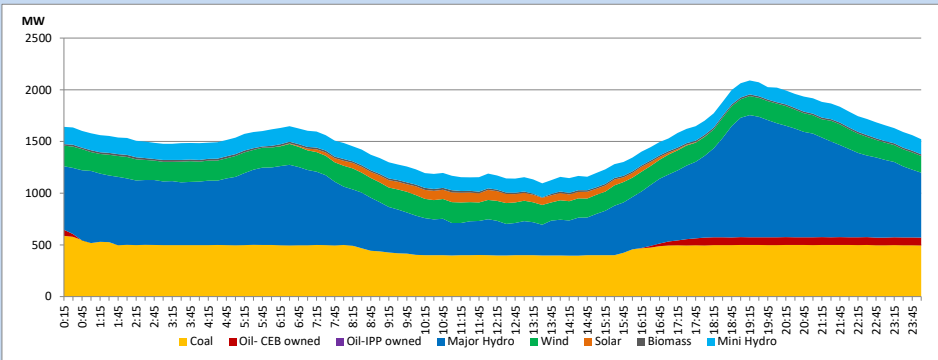
### 1.12 Power Plant-wise Dispatch Summary

July 20, 2024



### 1.13 Daily Load Curve

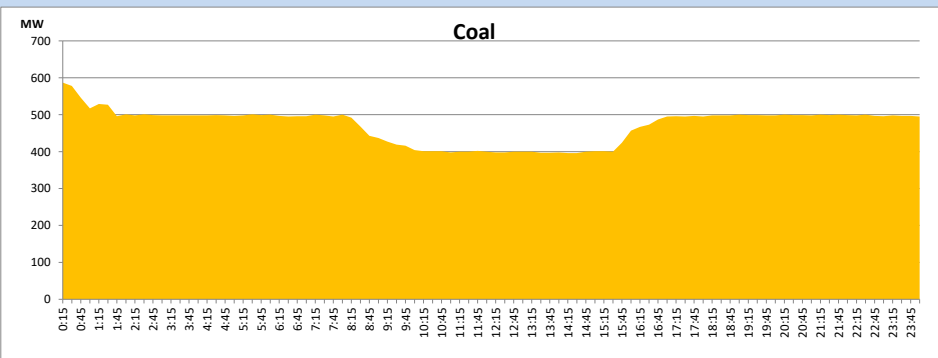
July 20, 2024



Solar and wind data is based on Telemetered Power Stations only

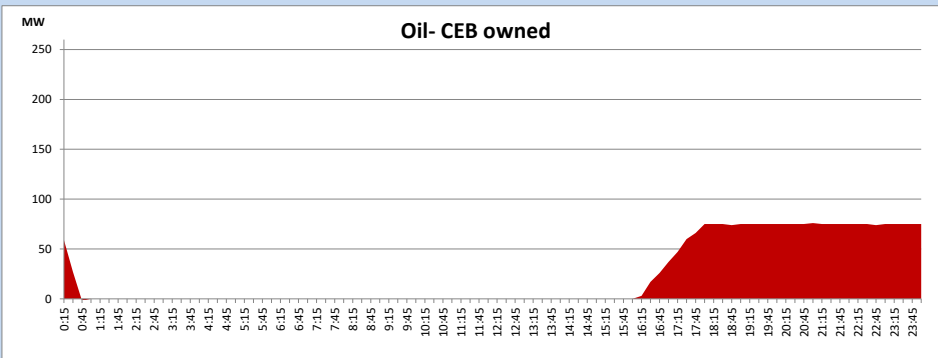
### Coal Generation during

July 20, 2024



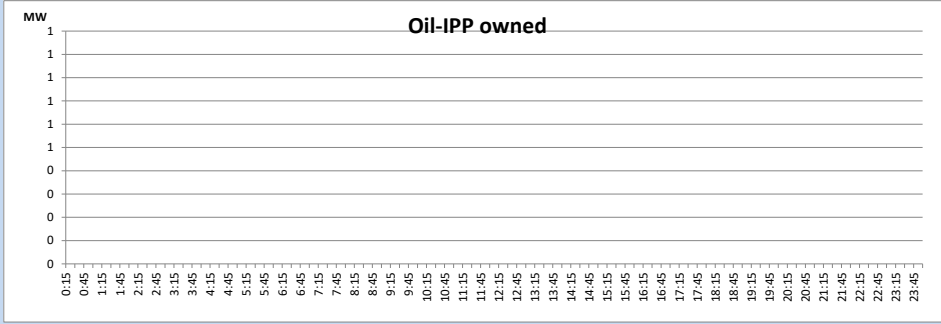
### CEB Oil Plant Generation during

July 20, 2024



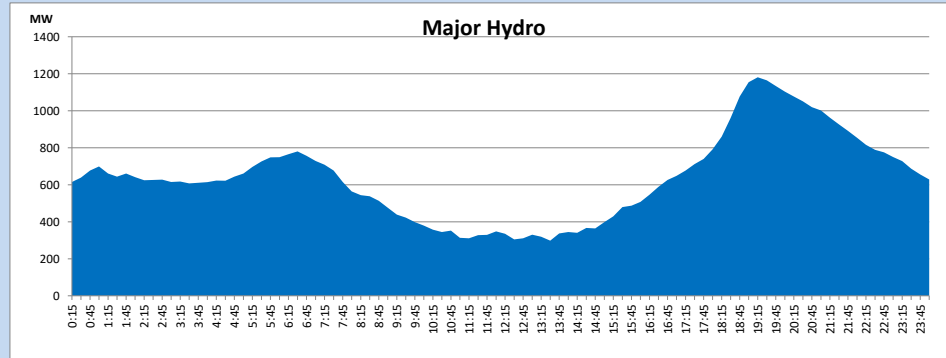
IPP Oil Plant Generation during

July 20, 2024



Major Hydro Generation during

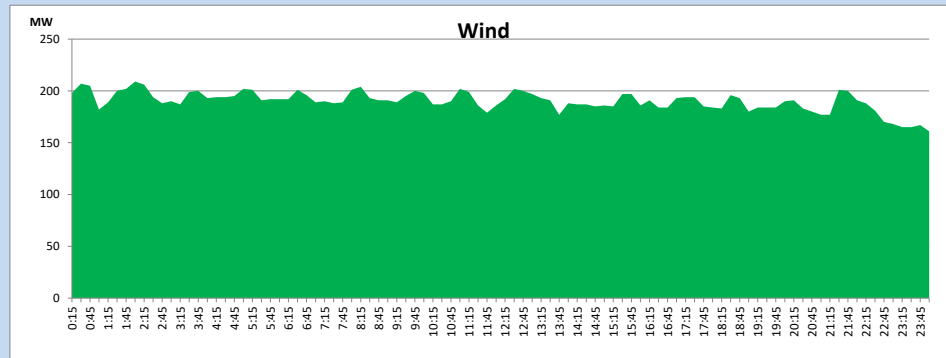
July 20, 2024



Wind Generation during

July 20, 2024

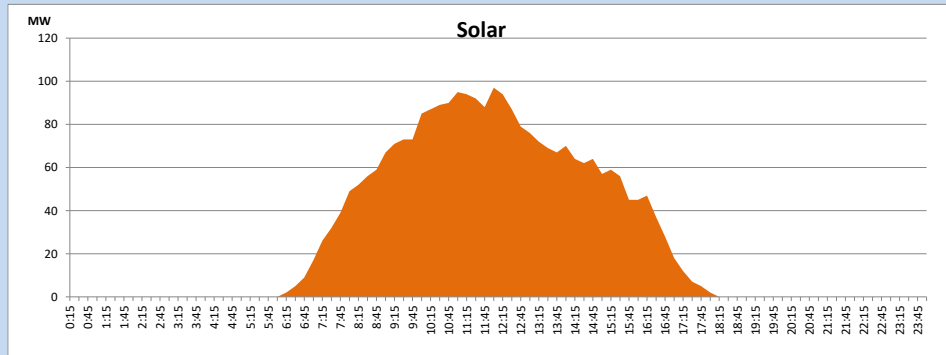
Based on Telemetered Power Stations only



Solar Generation during

July 20, 2024

Based on Telemetered Power Stations only

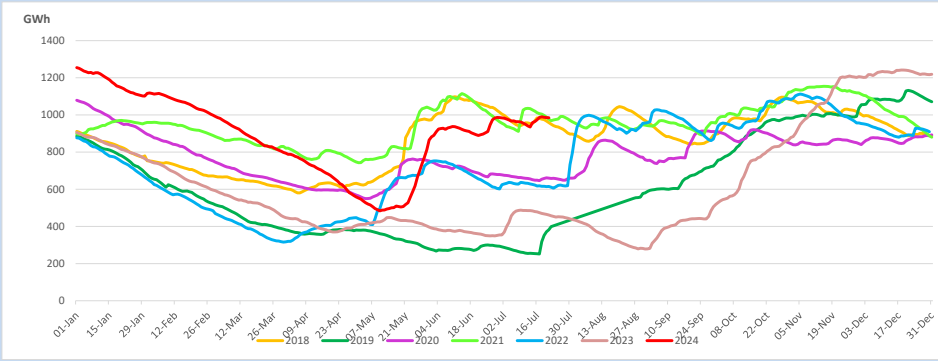


1.14 Major Incidents reported during the day

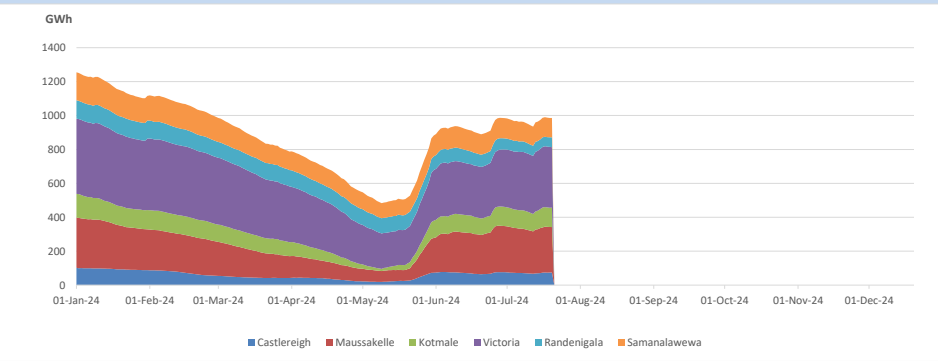
July 20, 2024

1) Nil.

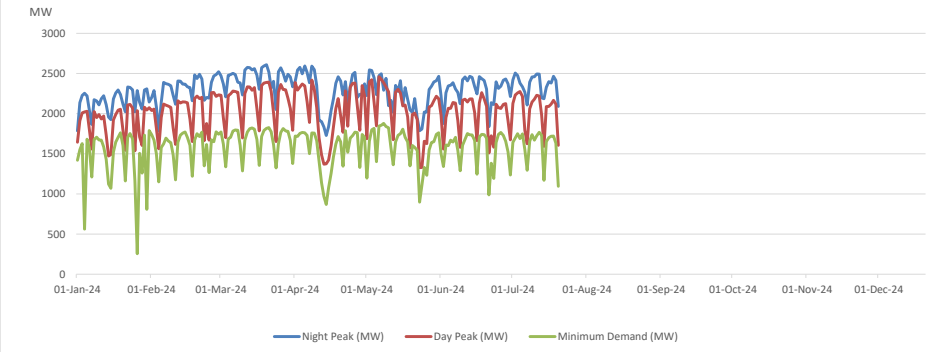
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



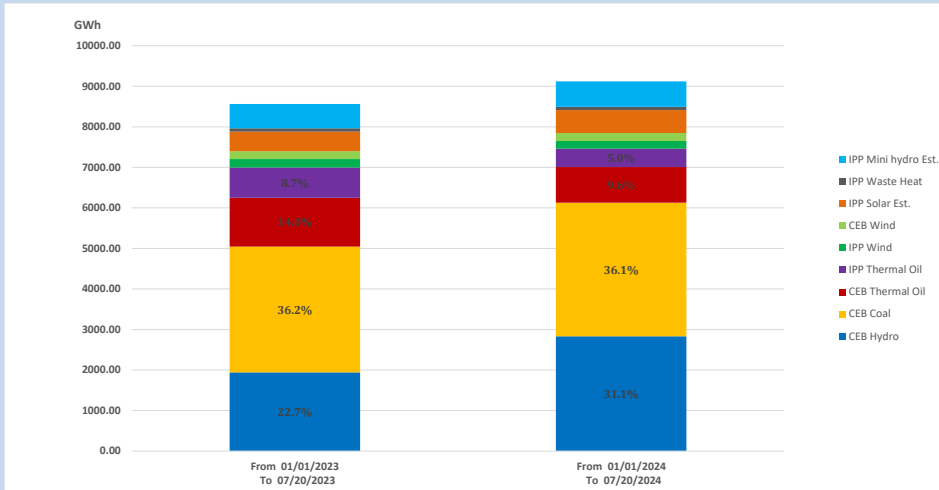
## 4. Variation of Demand during the current year



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 07/20/2023

8563 GWh

From 01/01/2024 To 07/20/2024

9120 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