

Generation and Reservoirs Statistics

July 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 18, 2024

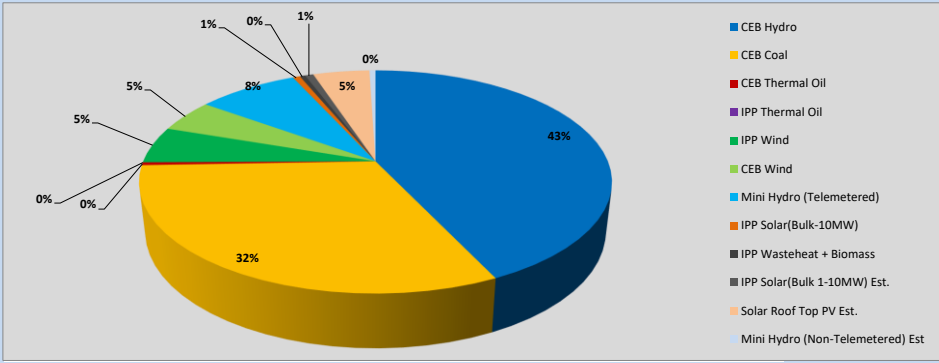


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	20179
CEB Coal	CEB Coal	14811
CEB Thermal Oil	CEB Thermal Oil	199
IPP Thermal Oil	IPP Thermal Oil	0
IPP Wind	IPP Wind	2507
CEB Wind	CEB Wind	2241
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	3865
IPP Solar (Bulk)	IPP Solar (Bulk)	278
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	205
Total Generation (Excluding estimated figures)		44,285
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		233
* Estimated IPP Solar PV (Bulk 1-10MW)		325
* Estimated Solar Roof Top PV		2170
Total Generation (Including estimated figures)		47,013

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 06 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	292	35.09%
CEB Coal	264	31.81%
CEB Thermal Oil	61	7.34%
IPP Thermal	18	2.19%
SPP Wind	35	4.22%
CEB Wind	35	4.17%
Mini Hydro *	69	8.29%
IPP Solar *	52	6.22%
IPP Waste heat + BMP	6	0.68%
Total	831	

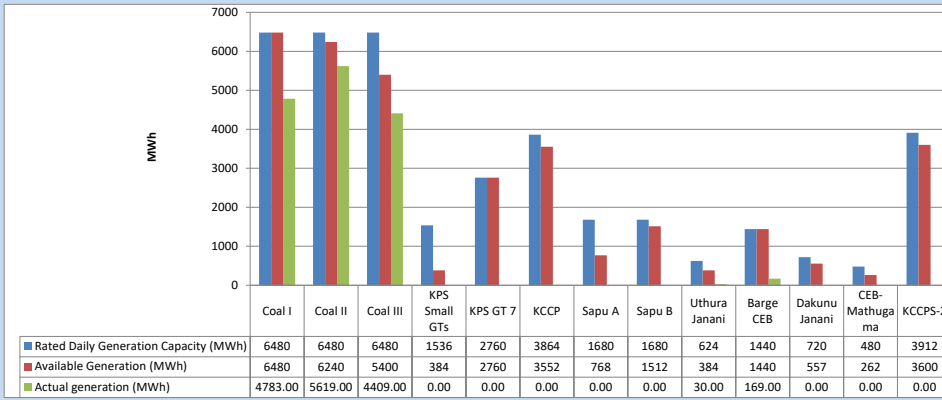
Table 07 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,799	30.98%
CEB Coal	3,269	36.18%
CEB Thermal Oil	878	9.71%
IPP Thermal	452	5.00%
SPP Wind	187	2.07%
CEB Wind	191	2.11%
Mini Hydro *	618	6.84%
IPP Solar *	558	6.18%
IPP Waste heat	83	0.92%
Total	9,035	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

July 18, 2024

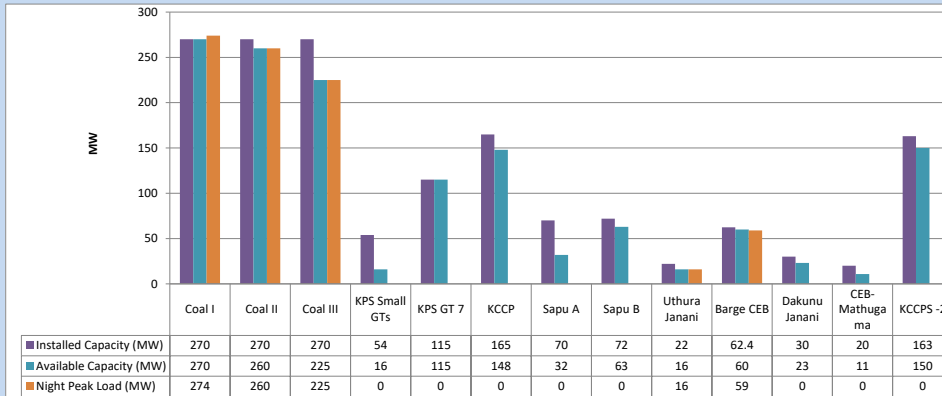


Available Generation is estimated based on plant availability at 6.00am on

July 19, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

July 18, 2024

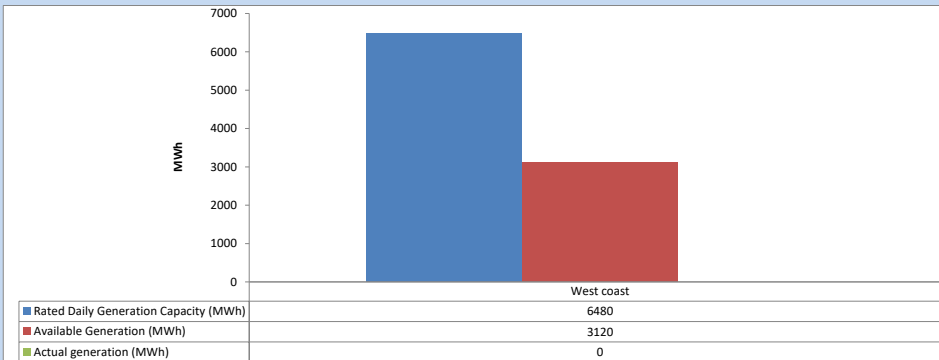


Plant availability is recorded at 6.00 am on

July 19, 2024

1.4 IPP owned Thermal Plant Dispatch

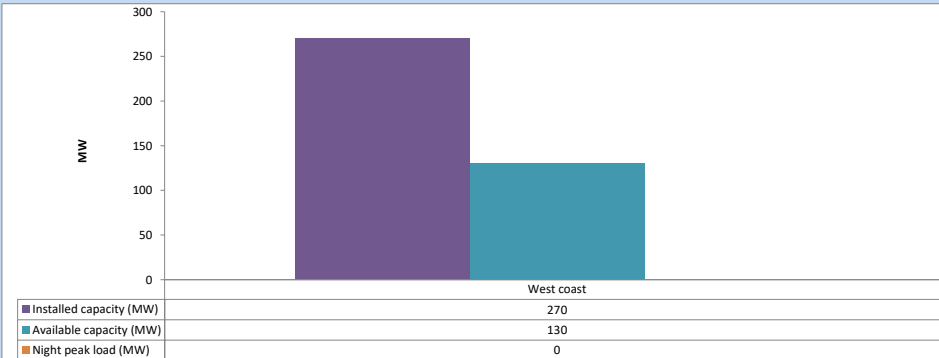
July 18, 2024



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

July 19, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

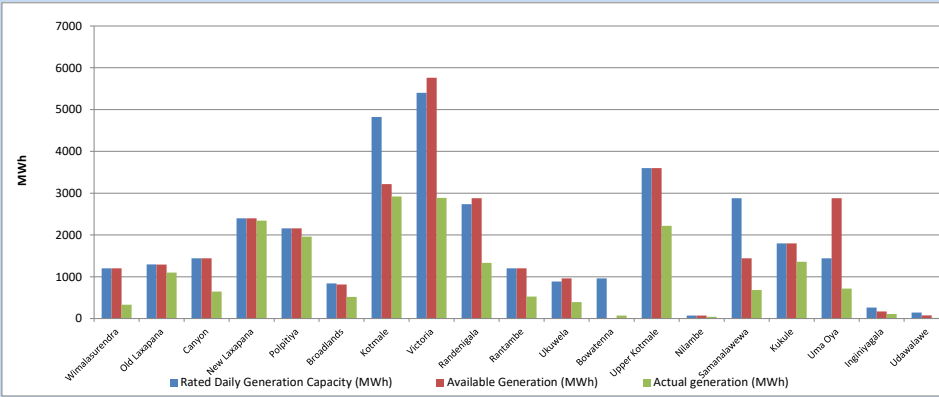


Plant availability is recorded at 6.00 am on

July 19, 2024

1.6 Major Hydro Plant Dispatch

July 18, 2024

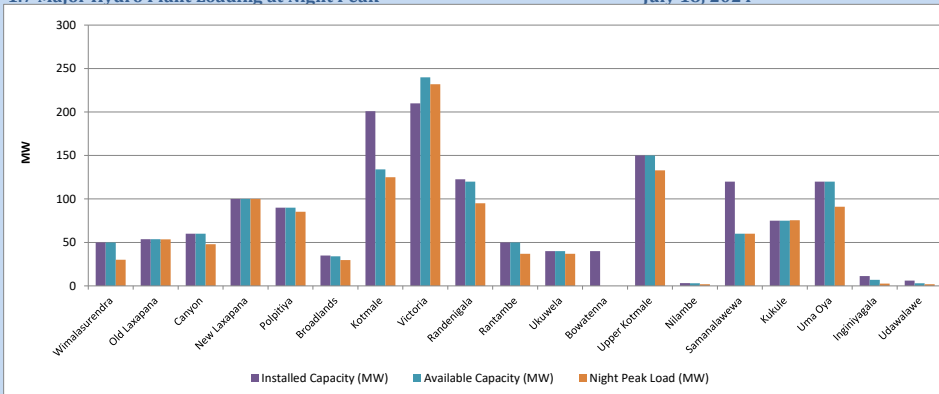


Available Generation is estimated based on plant availability at 6.00am on

July 19, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 18, 2024



Plant availability is recorded at 6.00 am on

July 19, 2024

1.8 Summary of Major Plant performance

July 18, 2024

Table 03

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	332
Old Laxapana	54	54	54	1,101
Canyon	60	60	48	648
New Laxapana	100	100	100	2,341
Polpitiya	90	90	85	1,960
Broadlands	35	34	30	519
Kotmale	201	134	125	2,920
Victoria	210	240	232	2,888
Randenigala	123	120	95	1,333
Rantambe	50	50	37	527
Ukuwela	40	40	37	394
Bowatenna	40	0	0	72
Upper Kotmale	150	150	133	2,217
Nilambe	3	3	2	41
Samanalawewa	120	60	60	684
Kukule	75	75	76	1,360
Uma Oya	120	120	91	718
Inginipigala	11	7	3	110
Udawalawe	6	3	2	16
Puttalam Coal I	270	270	274	4,783
Puttalam Coal II	270	260	260	5,619
Puttalam Coal III	270	225	225	4,409
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	30
Barge CEB	62	60	59	169
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	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,909	2,451	44,287

Note-

Plant availability is the availability recorded at 6 am on

July 19, 2024

1.9 Contribution to the Night Peak in MW

July 18, 2024

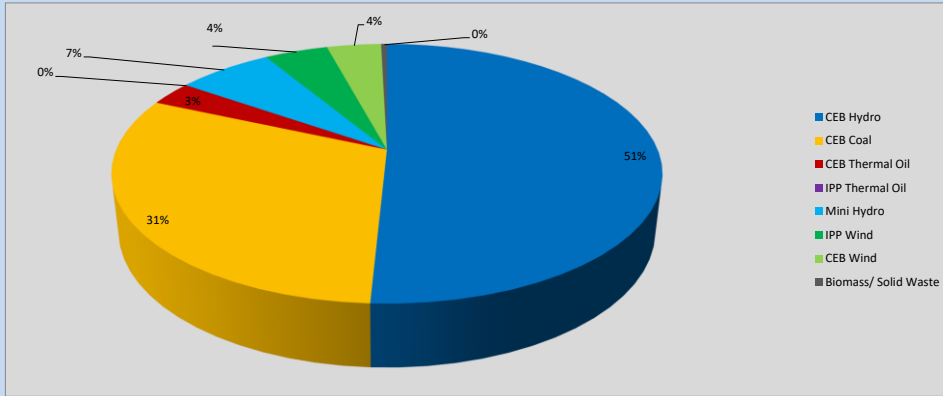


Table 04

CEB Hydro	1252	MW
CEB Coal	759	MW
CEB Thermal Oil	75	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	165	MW
IPP Wind	109.7	MW
CEB Wind	93.9	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

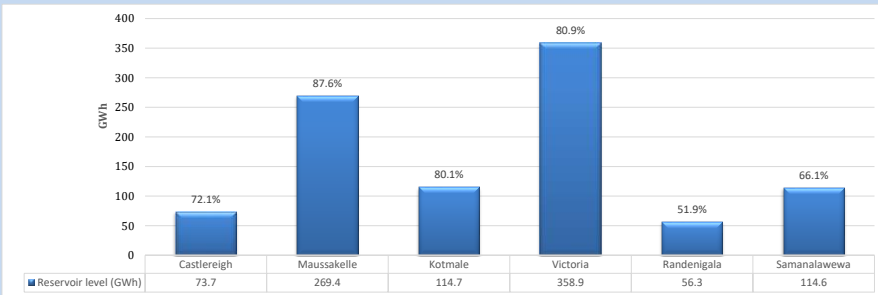
Table 05

Night Peak*	2,465	MW
Day Peak Maximum Demand	2,166	MW
Day Peak Minimum Demand	1,720	MW
Off Peak Minimum Demand	1,206	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 19, 2024



Total Reservoir Level 987.6 GWh
% of Total capacity 77.3%

1.11 Scheduled Dispatch (Day Ahead) Vs Actual Dispatch (Excluding non telemetered data)

July 18, 2024

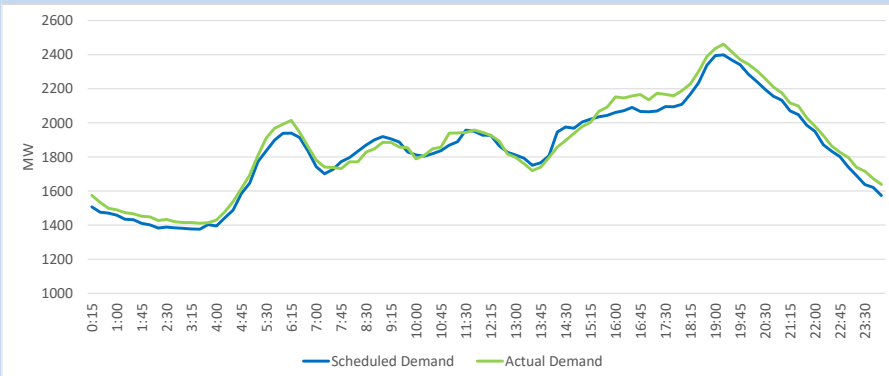
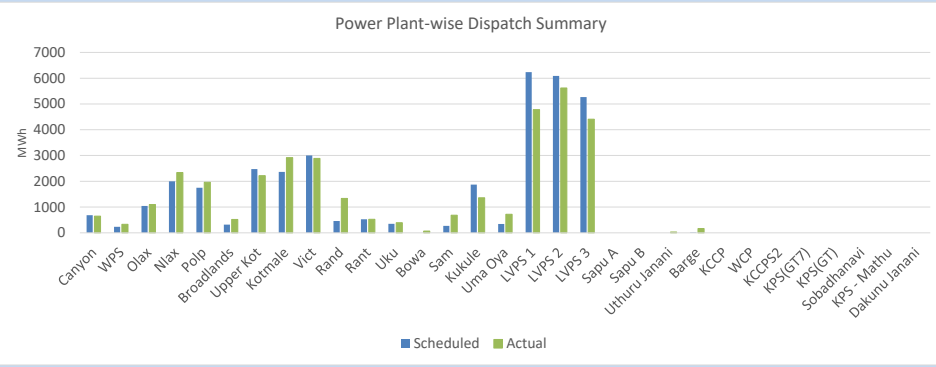


Table 02

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation	
Major Hydro	17,694	20,012	2318	12%
CEB Coal	17,589	14,810	-2779	-19%
CEB Thermal Oil	17	199	182	92%
IPP Thermal Oil	-	-	0	0%
NCRE (Telemetered)	8,968	9,897	930	9%
Total	44,267	44,919	651	1%

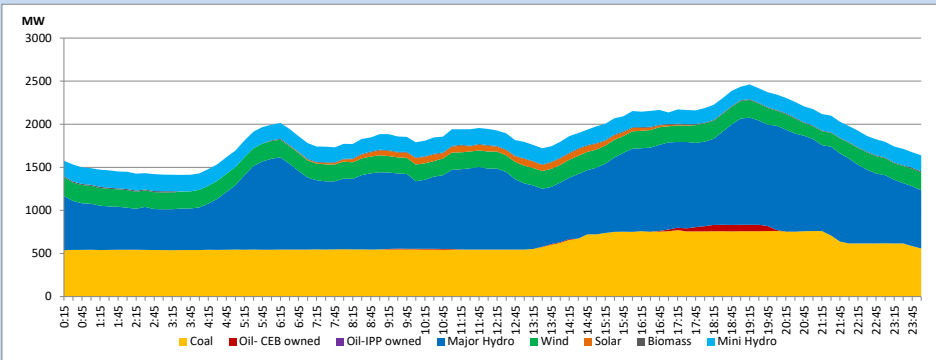
1.12 Power Plant-wise Dispatch Summary

July 18, 2024



1.13 Daily Load Curve

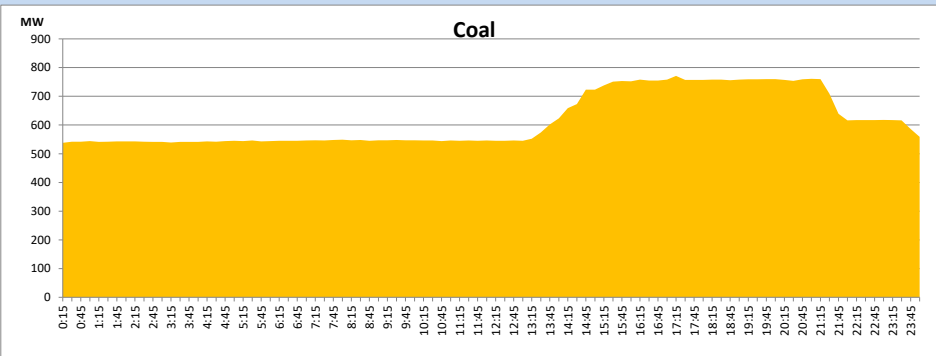
July 18, 2024



Solar and wind data is based on Telemetered Power Stations only

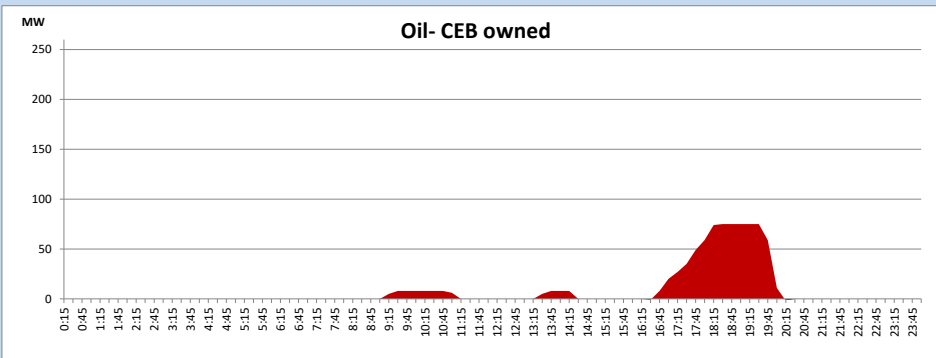
Coal Generation during

July 18, 2024

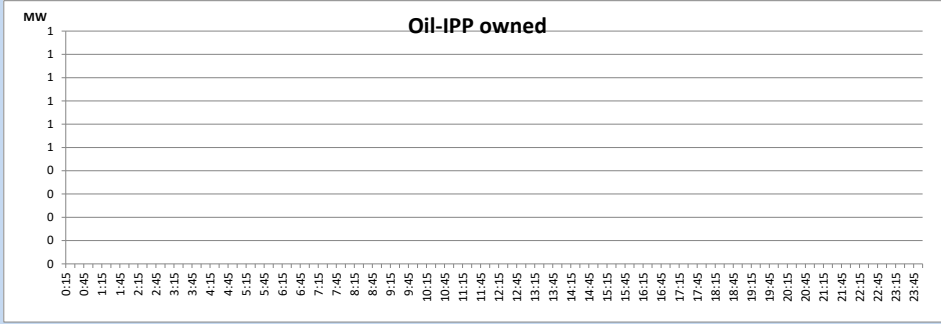


CEB Oil Plant Generation during

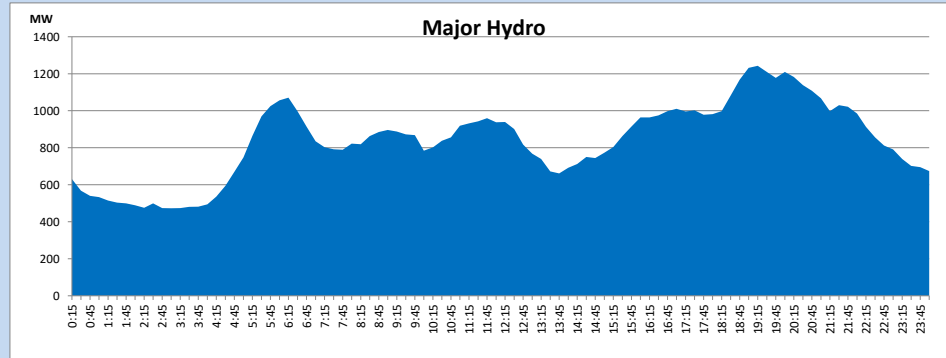
July 18, 2024



IPP Oil Plant Generation during July 18, 2024

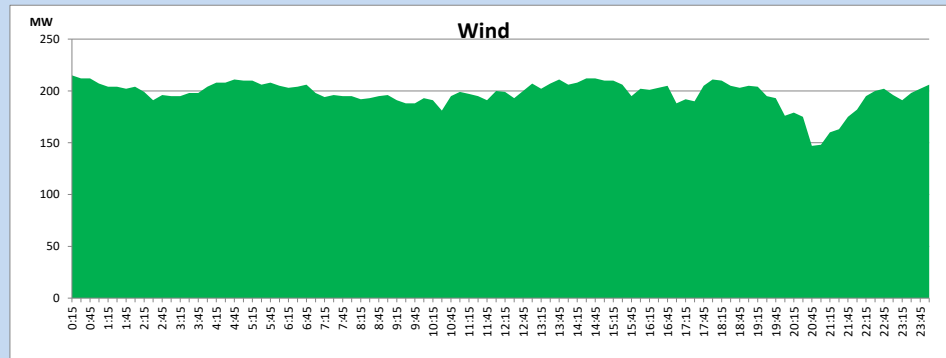


Major Hydro Generation during July 18, 2024



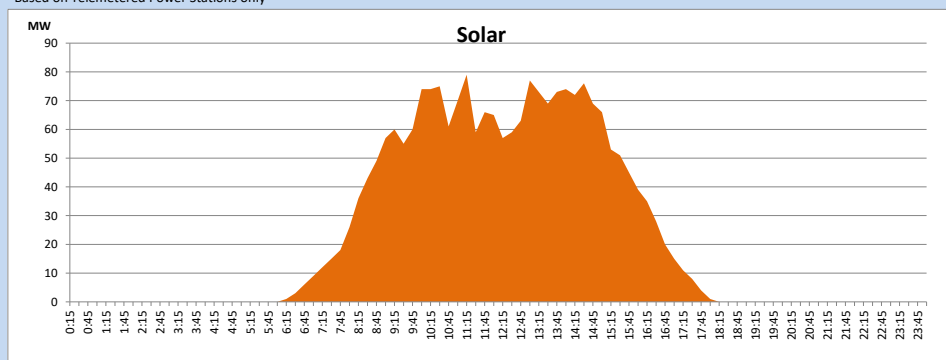
Wind Generation during July 18, 2024

Based on Telemetered Power Stations only



Solar Generation during July 18, 2024

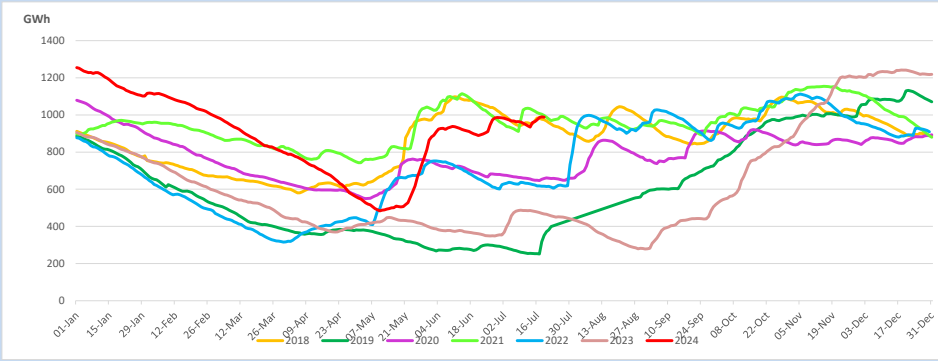
Based on Telemetered Power Stations only



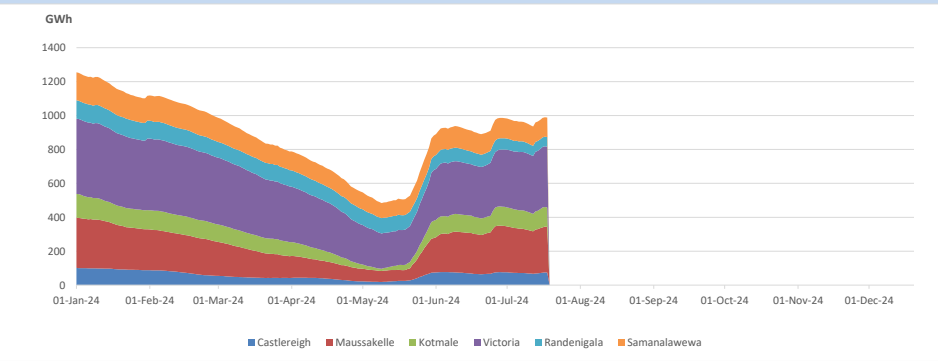
1.14 Major Incidents reported during the day July 18, 2024

- 1) Sapugaskanda 132/33kV T/F 02, 03 and 04 tripped from both ends at 09:50hrs due to the operation of backup and O/C protection causing all 33kV feeders to be dead. 132/33kV T/F 02, 03 & 04 were normalized at 09:58hrs, 10:10hrs and 10:06hrs respectively. All affected feeders were normalized at 10:25hrs.
- 2) Biyagama STATCOM which tripped on 28.06.2024 was normalized at 15:57hrs.
- 3) Kotugoda - New Kerawalapitiya 220kV cct was energized for first time at 23:54hrs.

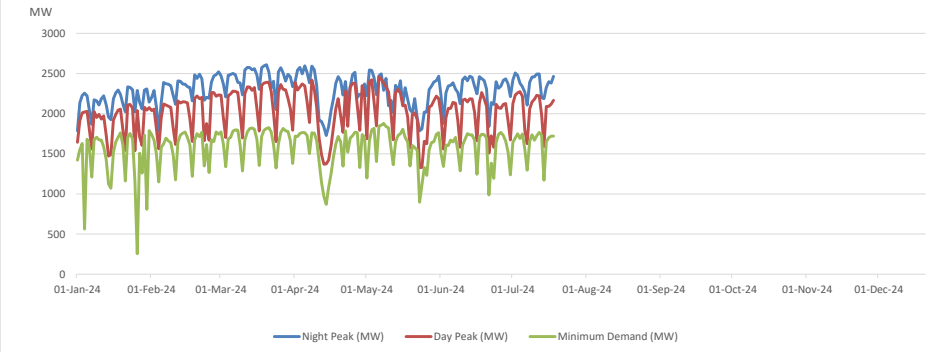
2. Comparison of Total Reservoir Storage Levels with Past Years



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

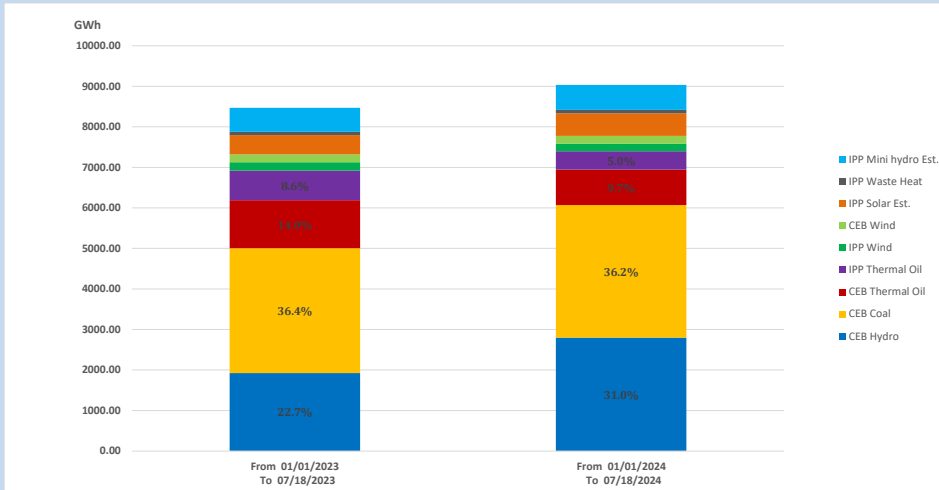


4. Variation of Demand during the current year



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 07/18/2023

8468 GWh

From 01/01/2024 To 07/18/2024

9035 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