

Generation and Reservoirs Statistics

July 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 23, 2024

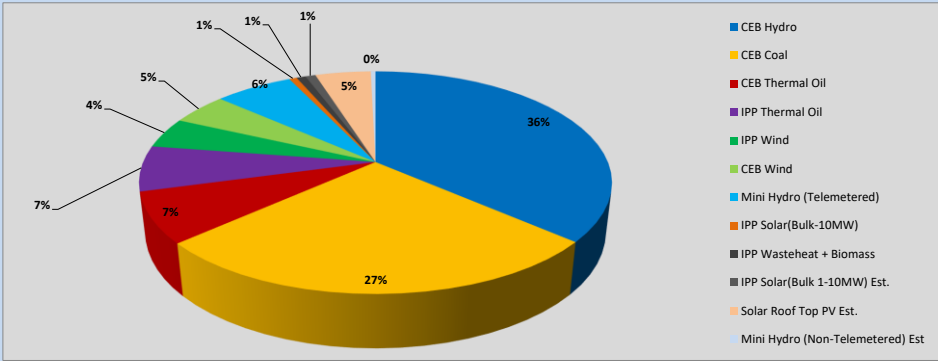


Table 01

		Generation (MWh)
CEB Hydro	CEB Hydro	17343
CEB Coal	CEB Coal	12923
CEB Thermal Oil	CEB Thermal Oil	3504
IPP Thermal Oil	IPP Thermal Oil	3152
IPP Wind	IPP Wind	2119
CEB Wind	CEB Wind	2214
Mini Hydro (Telemetered)	Mini Hydro (Telemetered)	3051
IPP Solar (Bulk)	IPP Solar (Bulk)	296
IPP Waste heat + Biomass	IPP Wasteheat + Biomass	357
Total Generation (Excluding estimated figures)		44,959
* Estimated unserved energy		0
* Estimated Mini Hydro (Non telemetered)		184
* Estimated IPP Solar PV (Bulk 1-10MW)		397
* Estimated Solar Roof Top PV		2170
Total Generation (Including estimated figures)		47,710

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	375	35.65%
CEB Coal	328	31.23%
CEB Thermal Oil	72	6.81%
IPP Thermal	24	2.27%
SPP Wind	47	4.43%
CEB Wind	46	4.34%
Mini Hydro *	87	8.24%
IPP Solar *	66	6.30%
IPP Waste heat + BMP	8	0.73%
Total	1,051	

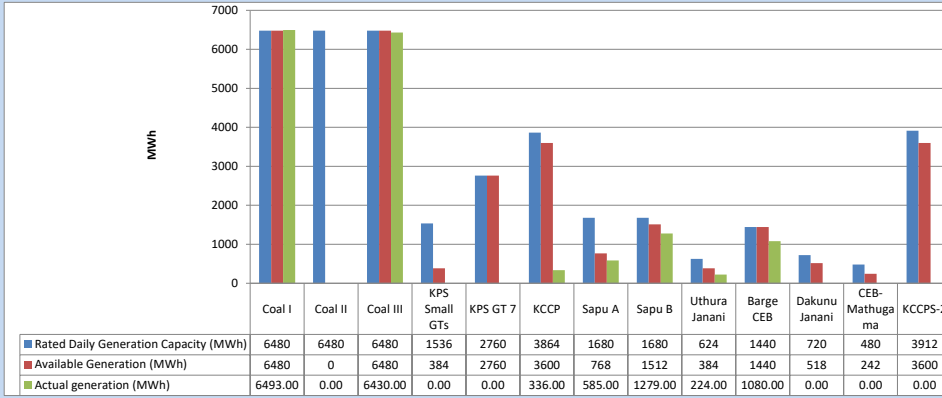
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,882	31.15%
CEB Coal	3,333	36.01%
CEB Thermal Oil	888	9.60%
IPP Thermal	457	4.94%
SPP Wind	199	2.15%
CEB Wind	202	2.18%
Mini Hydro *	636	6.87%
IPP Solar *	573	6.19%
IPP Waste heat	85	0.92%
Total	9,254	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

July 23, 2024

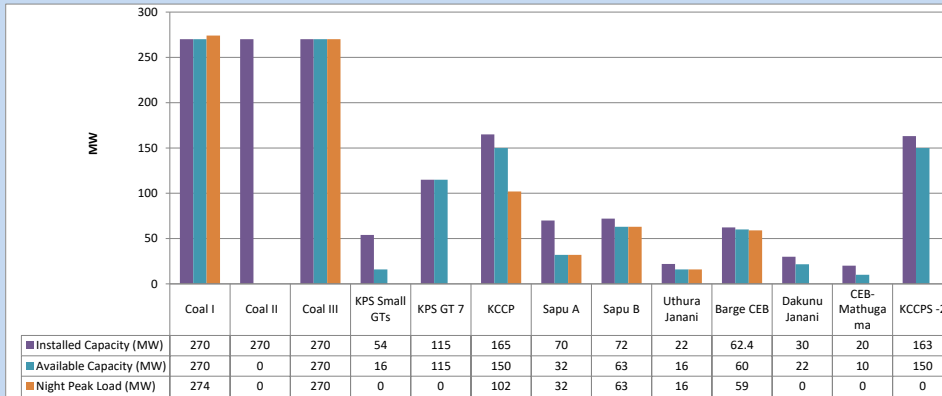


Available Generation is estimated based on plant availability at 6.00am on

July 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

July 23, 2024

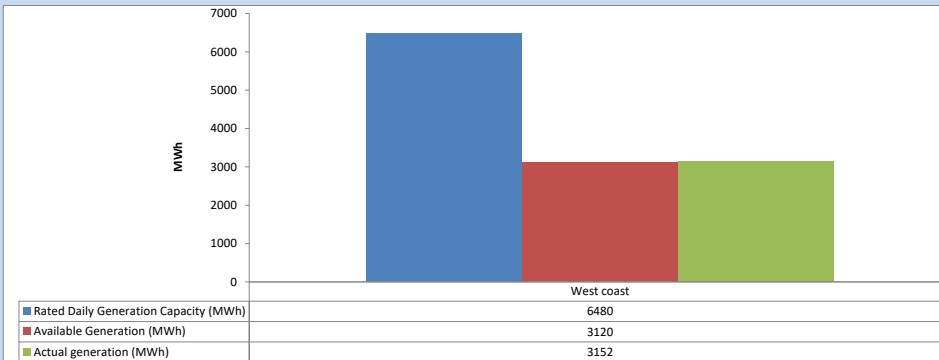


Plant availability is recorded at 6.00 am on

July 24, 2024

1.4 IPP owned Thermal Plant Dispatch

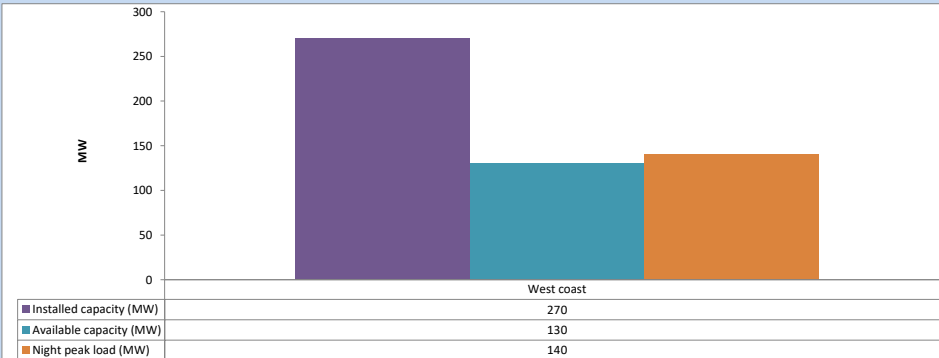
July 23, 2024



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

July 24, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

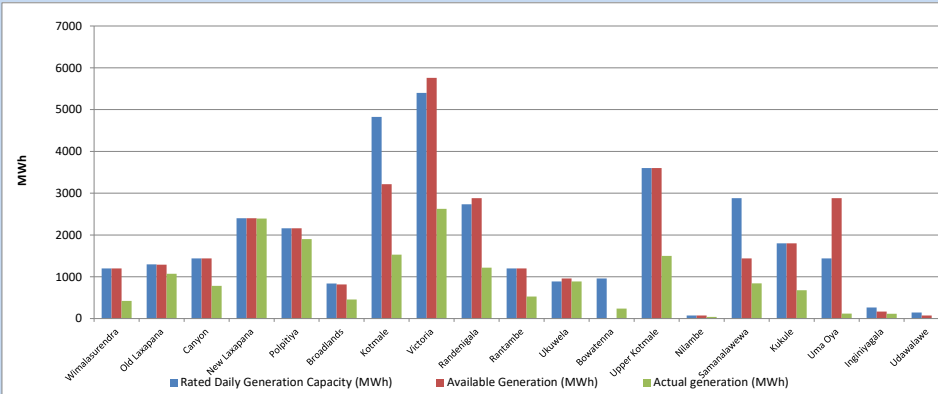


Plant availability is recorded at 6.00 am on

July 24, 2024

1.6 Major Hydro Plant Dispatch

July 23, 2024

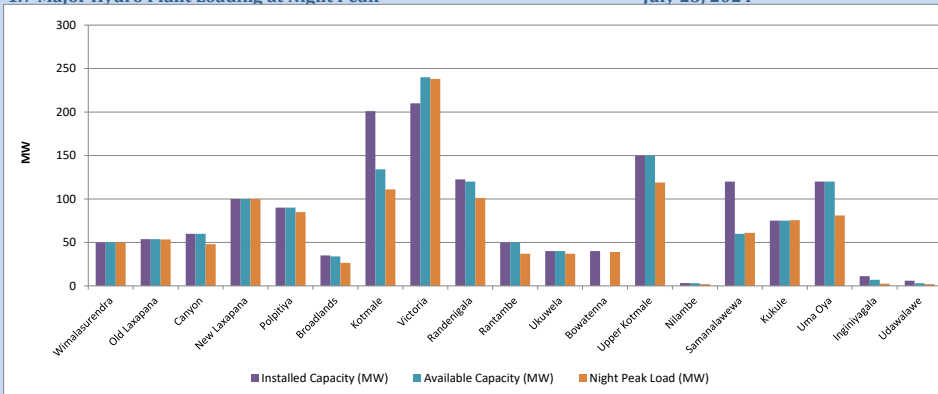


Available Generation is estimated based on plant availability at 6.00am on

July 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 23, 2024



Plant availability is recorded at 6.00 am on

July 24, 2024

1.8 Summary of Major Plant performance

July 23, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	422
Old Laxapana	54	54	53	1,072
Canyon	60	60	48	781
New Laxapana	100	100	100	2,393
Polpitiya	90	90	85	1,900
Broadlands	35	34	27	455
Kotmale	201	134	111	1,530
Victoria	210	240	238	2,625
Randenigala	123	120	101	1,218
Rantambe	50	50	37	529
Ukuwela	40	40	37	886
Bowatenna	40	0	39	238
Upper Kotmale	150	150	119	1,498
Nilambe	3	3	2	39
Samanalawewa	120	60	61	843
Kukule	75	75	76	677
Uma Oya	120	120	81	120
Inginipigala	11	7	3	115
Udawalawe	6	3	2	3
Puttalam Coal I	270	270	274	6,493
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,430
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	102	336
Sapugaskanda A	70	32	32	585
Sapugaskanda B	72	63	63	1,279
Uthura Janani	22	16	16	224
Barge CEB	62	60	59	1,080
CEB-Hambantota	30	22	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	140	3,152
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,694	2,535	44,960

Note-

Plant availability is the availability recorded at 6 am on

July 24, 2024

1.9 Contribution to the Night Peak in MW

July 23, 2024

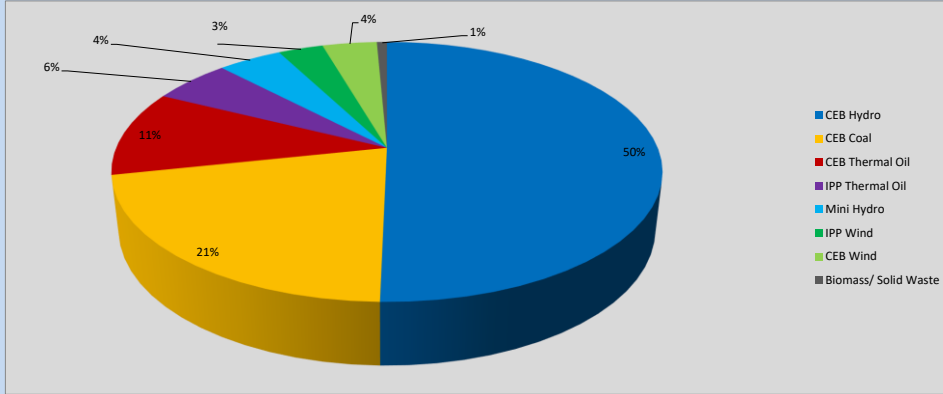


Table 05

CEB Hydro	1283	MW
CEB Coal	544	MW
CEB Thermal Oil	272	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	114	MW
IPP Wind	80.5	MW
CEB Wind	97.5	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

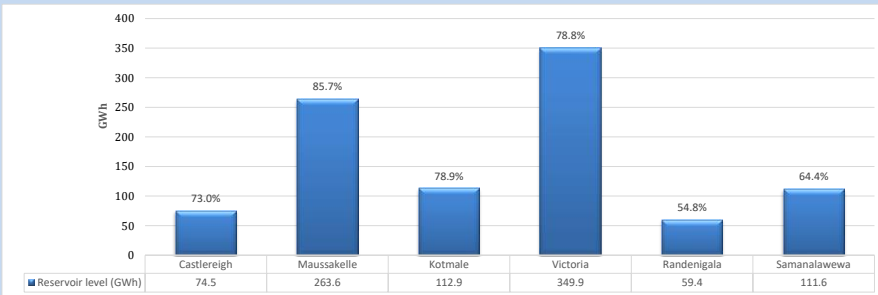
Table 06

Night Peak*	2,549	MW
Day Peak Maximum Demand	2,208	MW
Day Peak Minimum Demand	1,700	MW
Off Peak Minimum Demand	1,430	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 24, 2024



Total Reservoir Level 971.9 GWh
% of Total capacity 76.0%

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

July 23, 2024

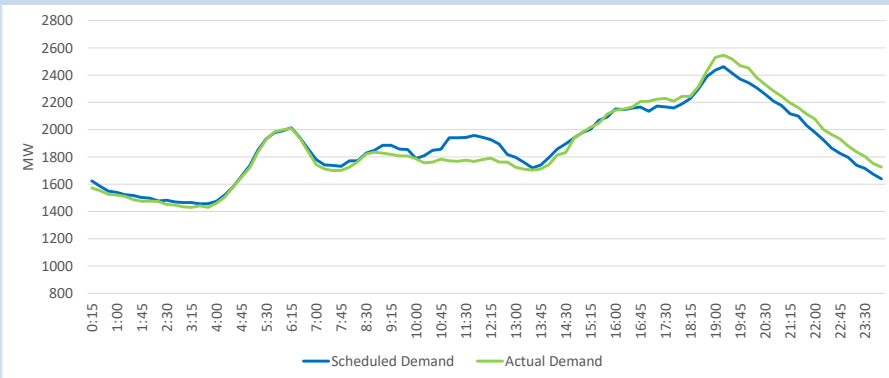
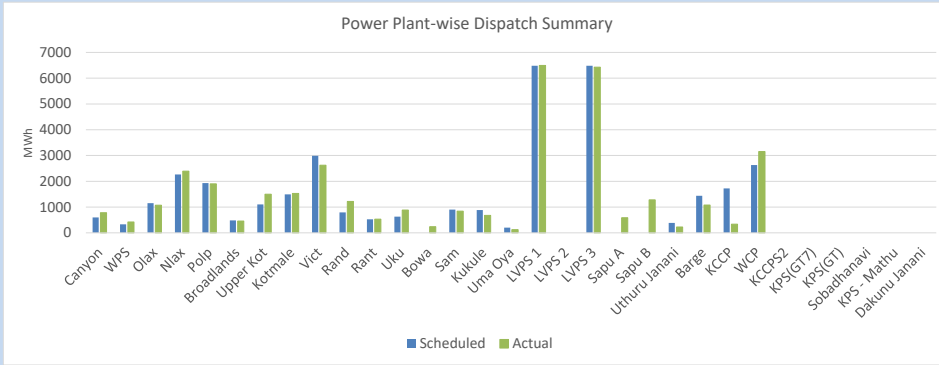


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,262	17,185	924
CEB Coal	12,960	12,923	-37
CEB Thermal Oil	3,545	3,504	-41
IPP Thermal Oil	2,631	3,152	522
NCRE (Telemetered)	7,606	8,149	543
Total	43,003	44,914	1910

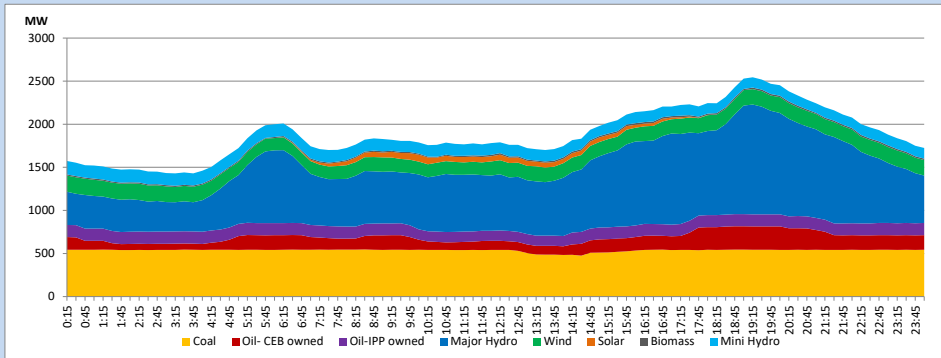
1.12 Power Plant-wise Dispatch Summary

July 23, 2024



1.13 Daily Load Curve

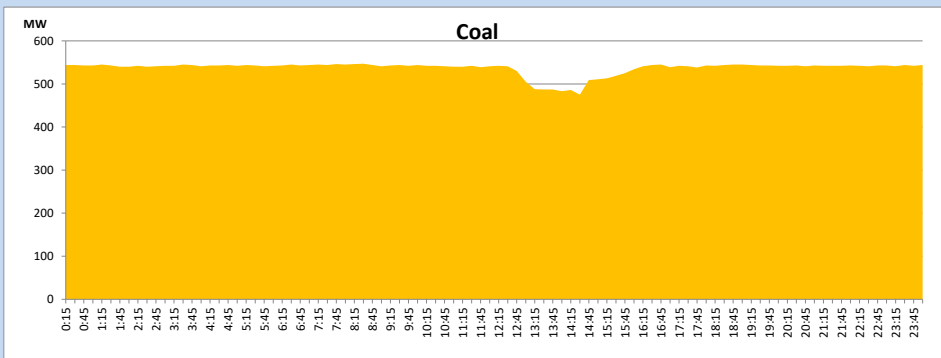
July 23, 2024



Solar and wind data is based on Telemetered Power Stations only

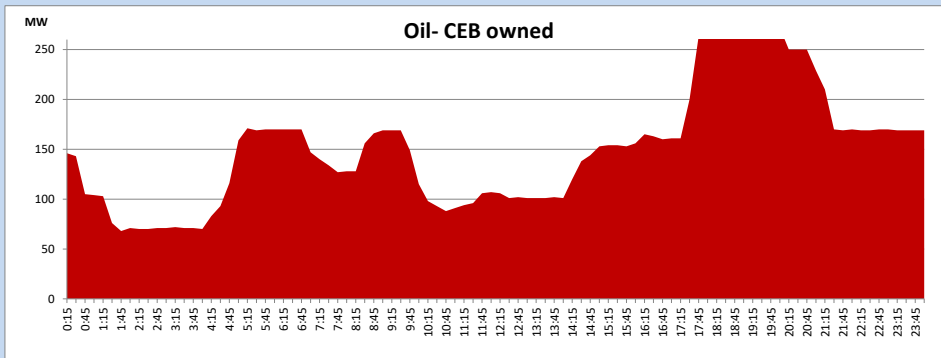
Coal Generation during

July 23, 2024

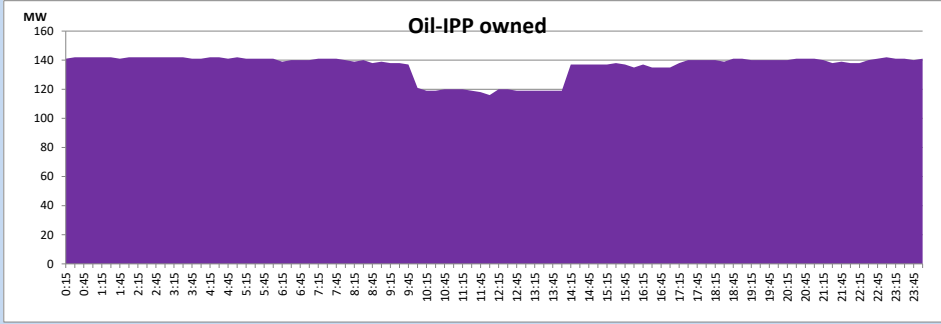


CEB Oil Plant Generation during

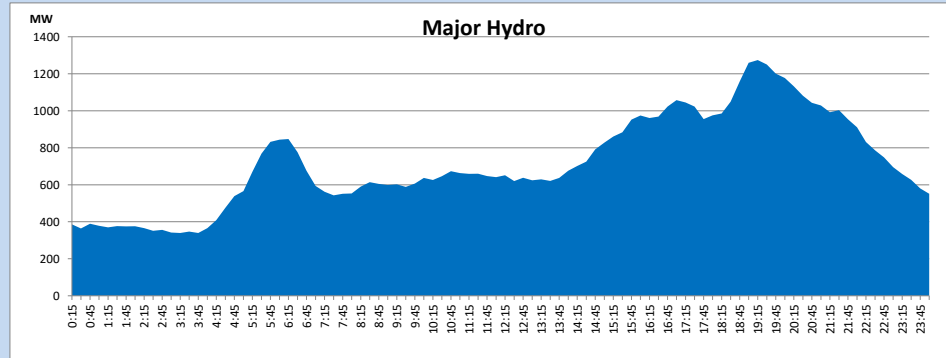
July 23, 2024



IPP Oil Plant Generation during July 23, 2024

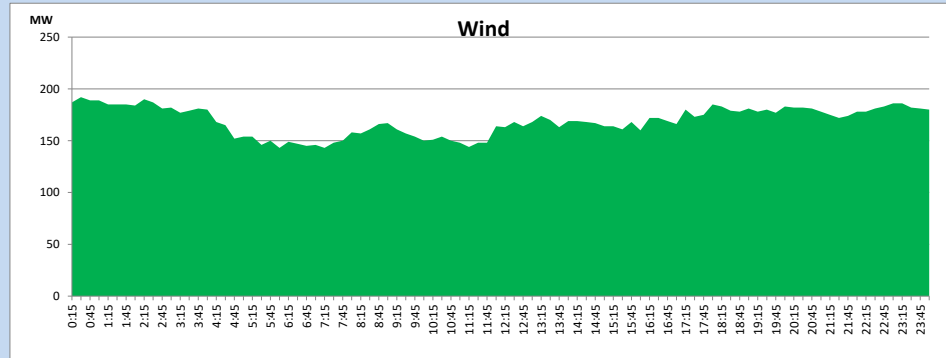


Major Hydro Generation during July 23, 2024



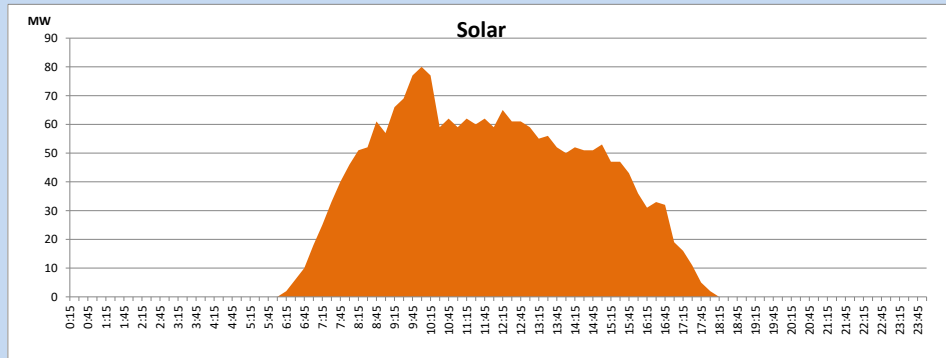
Wind Generation during July 23, 2024

Based on Telemetered Power Stations only



Solar Generation during July 23, 2024

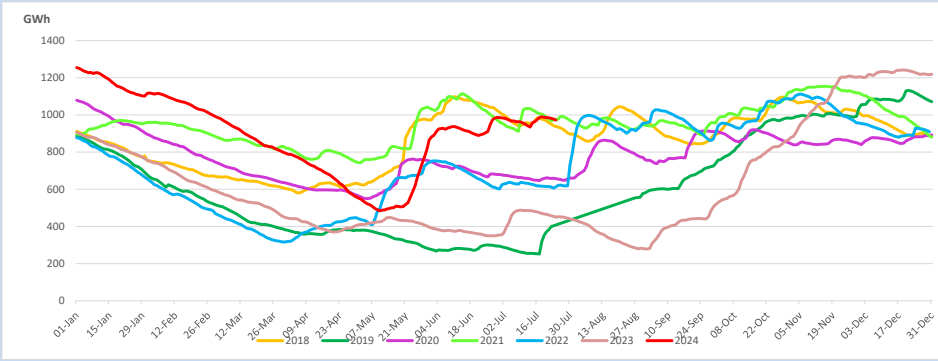
Based on Telemetered Power Stations only



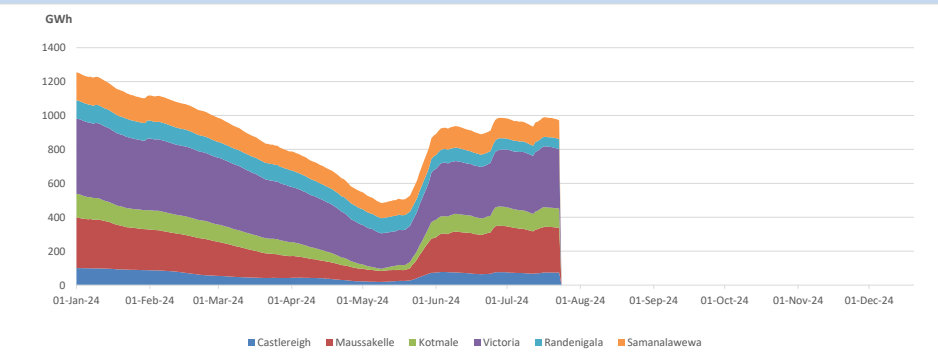
1.14 Major Incidents reported during the day July 23, 2024

- 1) KCCP GT was made available for generation at 06:58hrs.
- 2) Kosgama - Polpitiya 132KV cct which was tripped on 22.07.2024 was normalized at 19:40hrs.

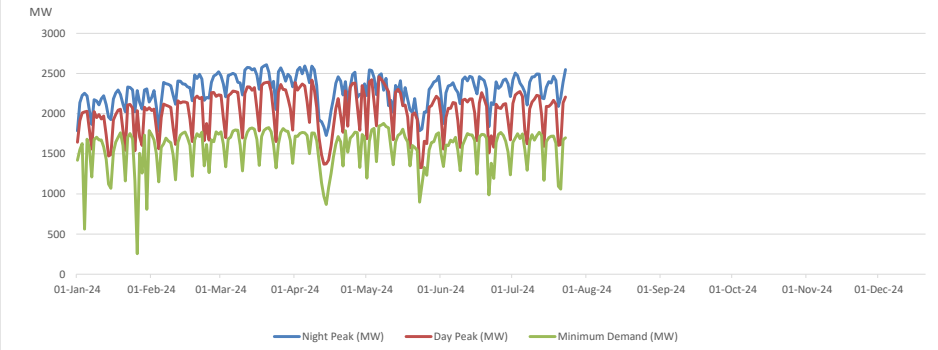
2. Comparison of Total Reservoir Storage Levels with Past Years



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

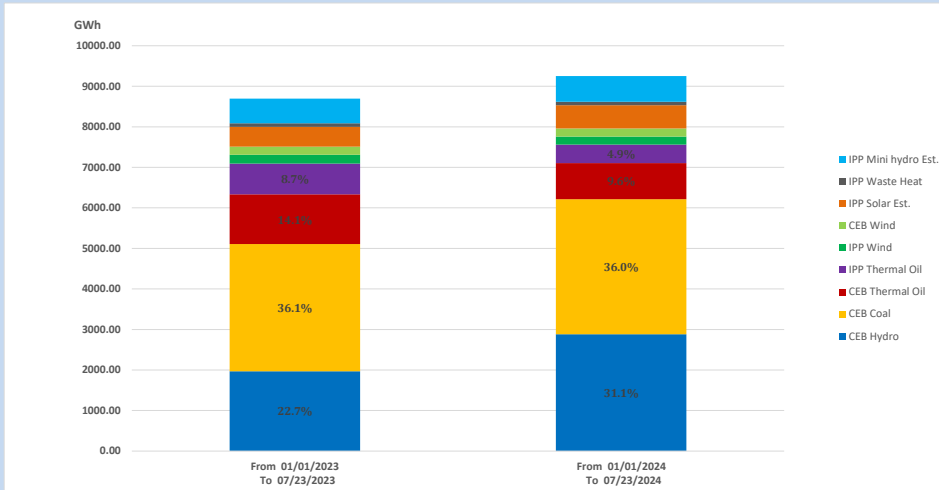


4. Variation of Demand during the current year



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 07/23/2023

8695 GWh

From 01/01/2024 To 07/23/2024

9254 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	IPP Wasteheat + Biomass
IPP Solar	137
Rooftop Solar (Ordinary)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

Data Source - Monthly Review Report [Mar-2024]