

Generation and Reservoirs Statistics

July 26, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 26, 2024

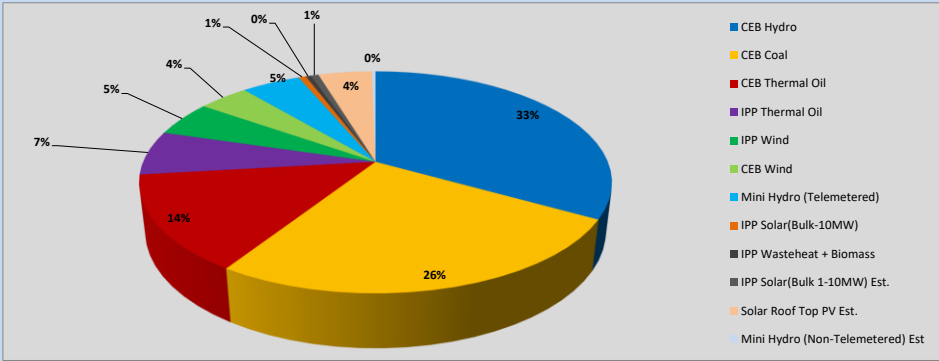


Table 01

	Generation (MWh)
CEB Hydro	16385
CEB Coal	12841
CEB Thermal Oil	6938
IPP Thermal Oil	3188
IPP Wind	2530
CEB Wind	2033
Mini Hydro (Telemetered)	2385
IPP Solar (Bulk)	298
IPP Waste heat + Biomass	202
Total Generation (Excluding estimated figures)	46,800
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	144
* Estimated IPP Solar PV (Bulk 1-10MW)	322
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	49,436

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	424	35.40%
CEB Coal	367	30.63%
CEB Thermal Oil	91	7.58%
IPP Thermal	33	2.79%
SPP Wind	53	4.44%
CEB Wind	52	4.30%
Mini Hydro *	95	7.91%
IPP Solar *	75	6.25%
IPP Waste heat + BMP	8	0.70%
Total	1,198	

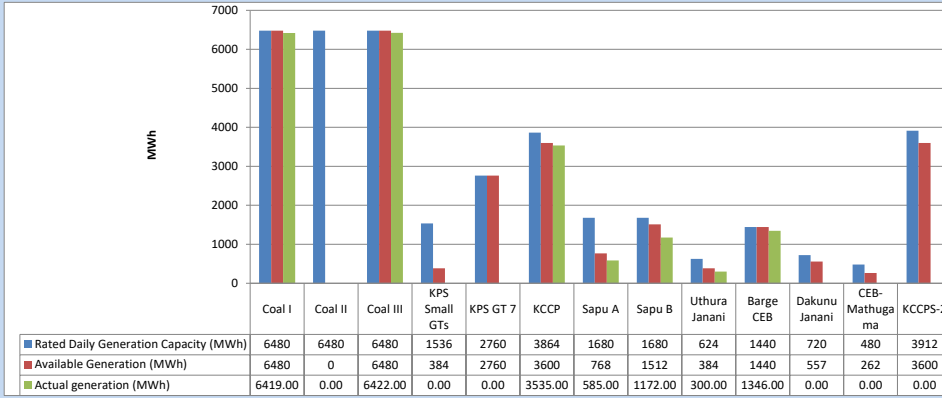
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,932	31.18%
CEB Coal	3,371	35.86%
CEB Thermal Oil	907	9.65%
IPP Thermal	467	4.97%
SPP Wind	205	2.18%
CEB Wind	208	2.21%
Mini Hydro *	644	6.85%
IPP Solar *	581	6.18%
IPP Waste heat	86	0.91%
Total	9,402	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

July 26, 2024

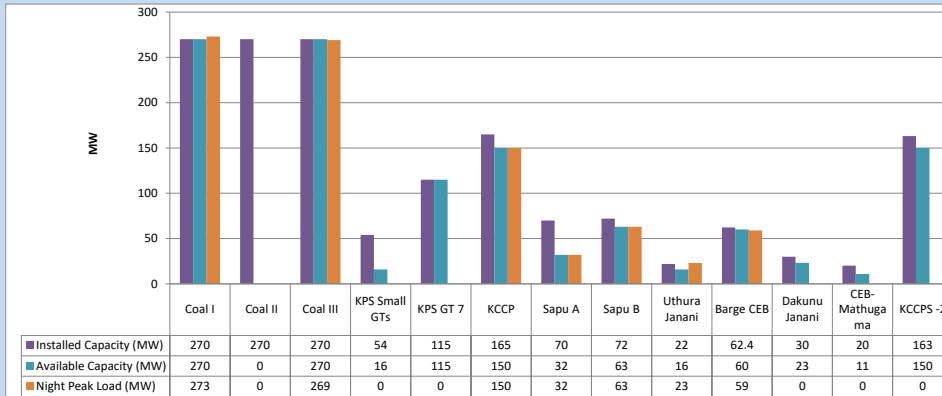


Available Generation is estimated based on plant availability at 6.00am on

July 27, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

July 26, 2024

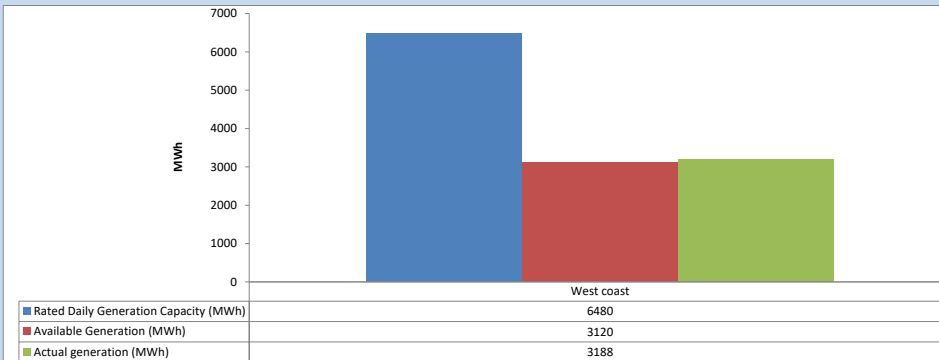


Plant availability is recorded at 6.00 am on

July 27, 2024

1.4 IPP owned Thermal Plant Dispatch

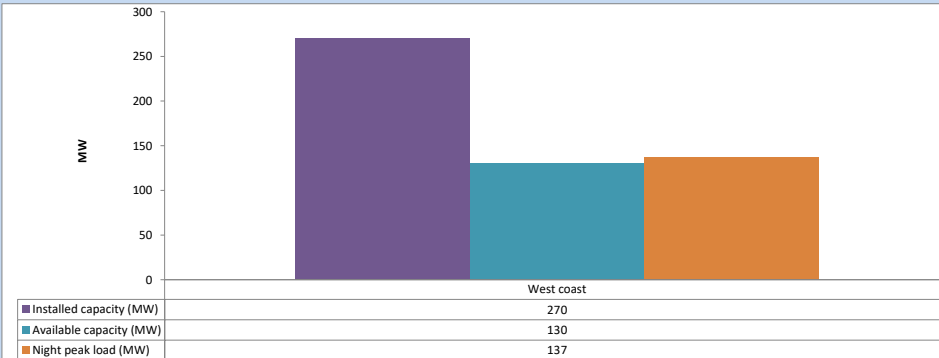
July 26, 2024



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

July 27, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

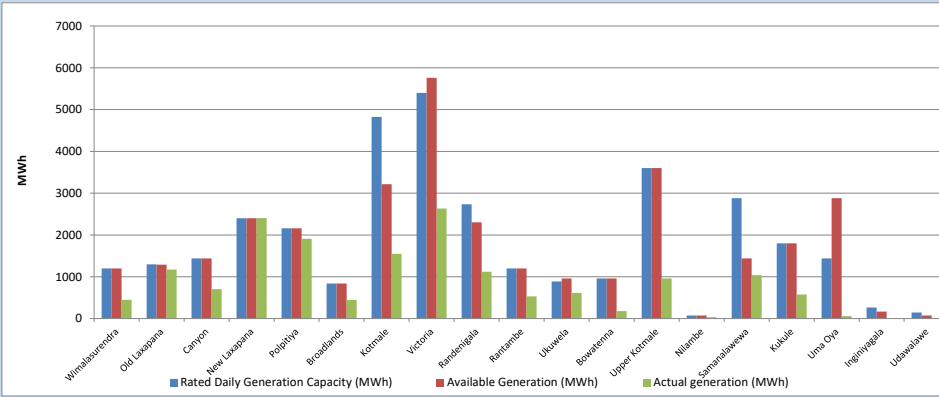


Plant availability is recorded at 6.00 am on

July 27, 2024

1.6 Major Hydro Plant Dispatch

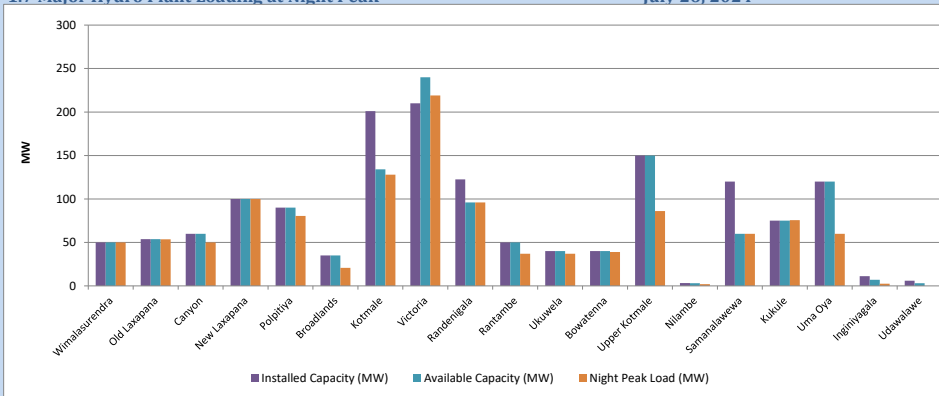
July 26, 2024



Available Generation is estimated based on plant availability at 6.00am on July 27, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 26, 2024



Plant availability is recorded at 6.00 am on July 27, 2024

1.8 Summary of Major Plant performance

July 26, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	449
Old Laxapana	54	54	54	1,174
Canyon	60	60	50	702
New Laxapana	100	100	100	2,403
Polpitiya	90	90	81	1,910
Broadlands	35	35	21	446
Kotmale	201	134	128	1,550
Victoria	210	240	219	2,634
Randenigala	123	96	96	1,119
Rantambe	50	50	37	530
Ukuwela	40	40	37	615
Bowatenna	40	40	39	177
Upper Kotmale	150	150	86	960
Nilambe	3	3	2	33
Samanalawewa	120	60	60	1,038
Kukule	75	75	76	577
Uma Oya	120	120	60	58
Inginipigala	11	7	3	0
Udawalawe	6	3	0	11
Puttalam Coal I	270	270	273	6,419
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	269	6,422
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	150	3,535
Sapugaskanda A	70	32	32	585
Sapugaskanda B	72	63	63	1,172
Uthura Janani	22	16	23	300
Barge CEB	62	60	59	1,346
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	137	3,188
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,713	2,496	46,801

Note- Plant availability is the availability recorded at 6 am on July 27, 2024

1.9 Contribution to the Night Peak in MW

July 26, 2024

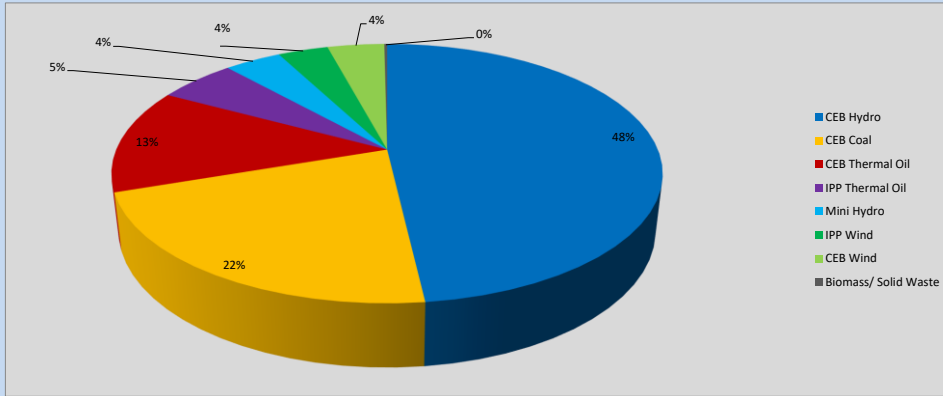


Table 05

CEB Hydro	1207	MW
CEB Coal	542	MW
CEB Thermal Oil	327	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	100	MW
IPP Wind	88.4	MW
CEB Wind	100	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

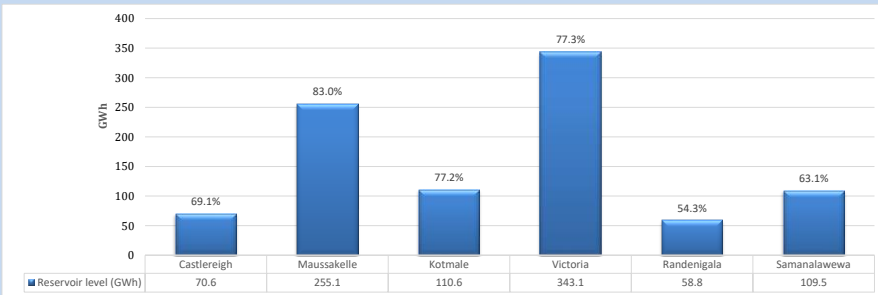
Table 06

Night Peak*	2,506	MW
Day Peak Maximum Demand	2,279	MW
Day Peak Minimum Demand	1,777	MW
Off Peak Minimum Demand	1,556	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 27, 2024



Total Reservoir Level 947.7 GWh
% of Total capacity 74.1%

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

July 26, 2024

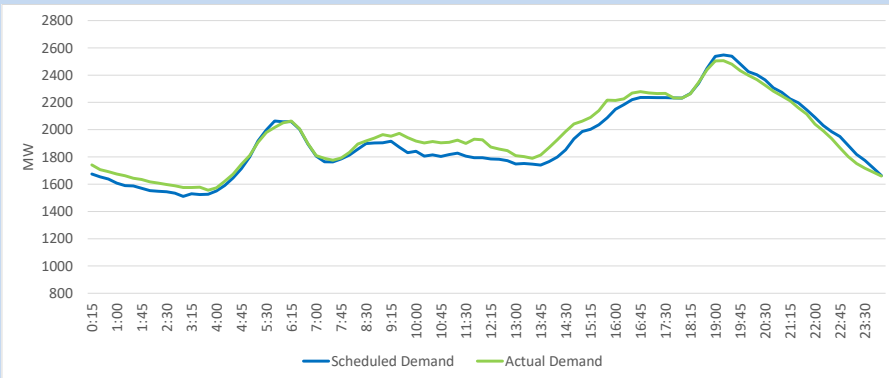
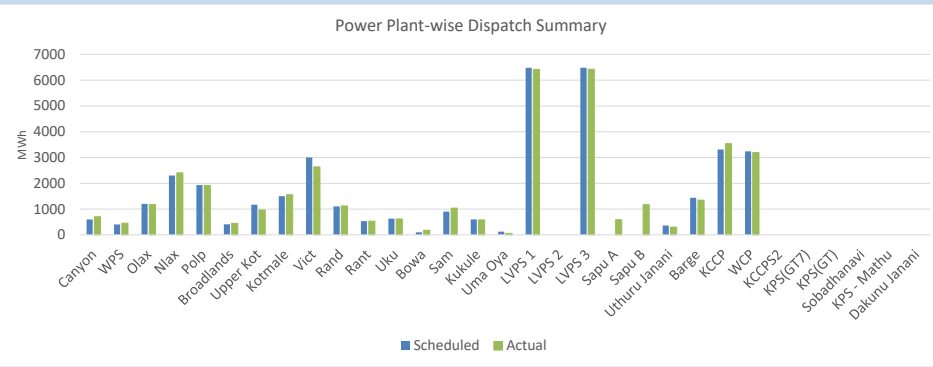


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,481	16,341	-141
CEB Coal	12,960	12,840	-120
CEB Thermal Oil	5,111	6,937	1826
IPP Thermal Oil	3,240	3,188	-52
NCRE (Telemetered)	6,617	7,292	675
Total	44,410	46,597	2187

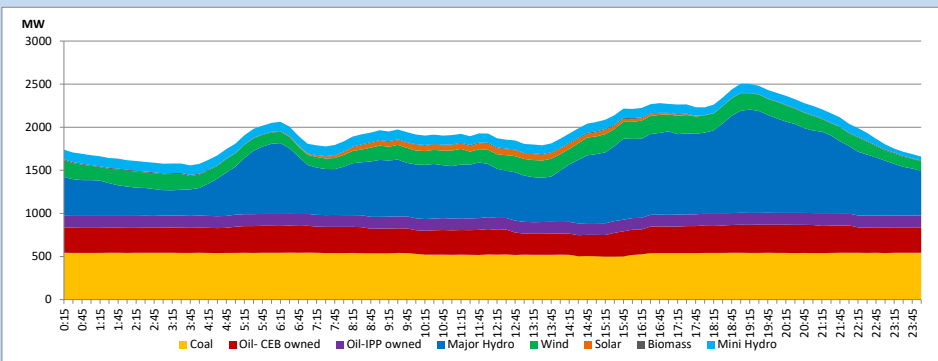
1.12 Power Plant-wise Dispatch Summary

July 26, 2024



1.13 Daily Load Curve

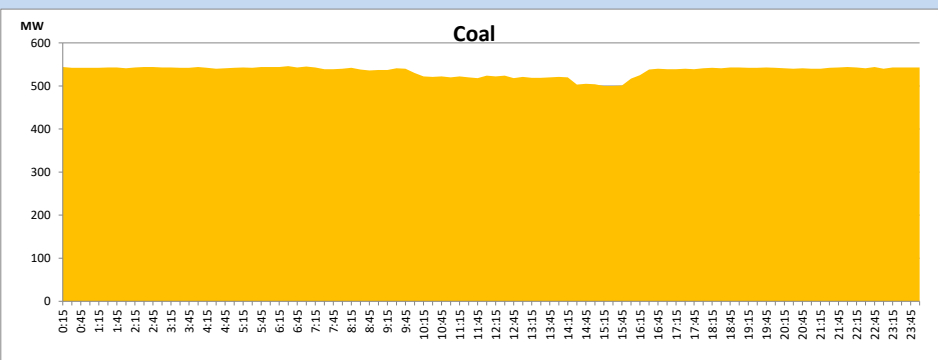
July 26, 2024



Solar and wind data is based on Telemetered Power Stations only

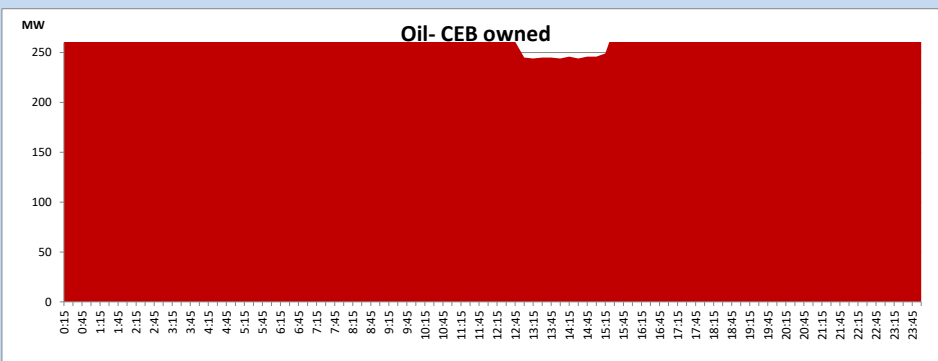
Coal Generation during

July 26, 2024

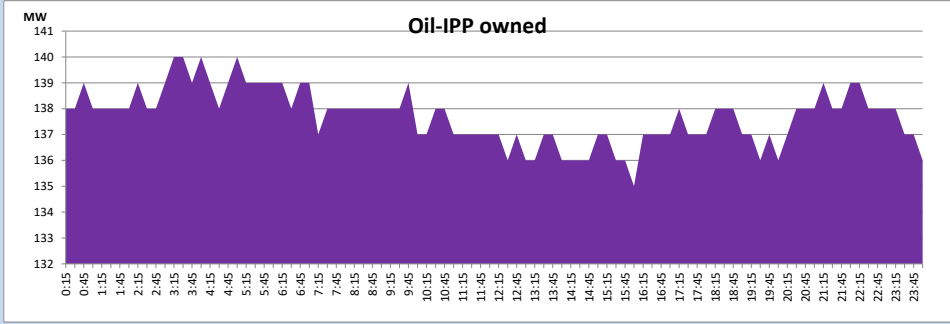


CEB Oil Plant Generation during

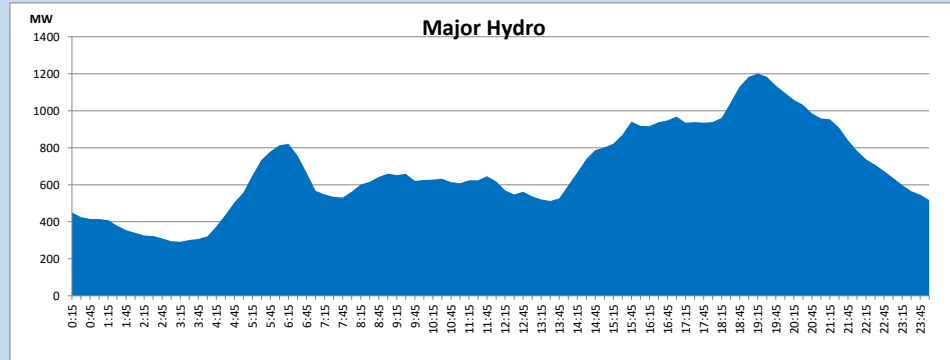
July 26, 2024



IPP Oil Plant Generation during July 26, 2024

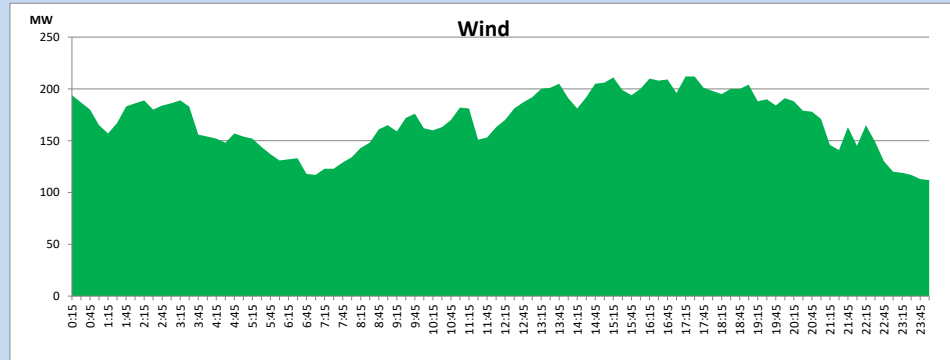


Major Hydro Generation during July 26, 2024



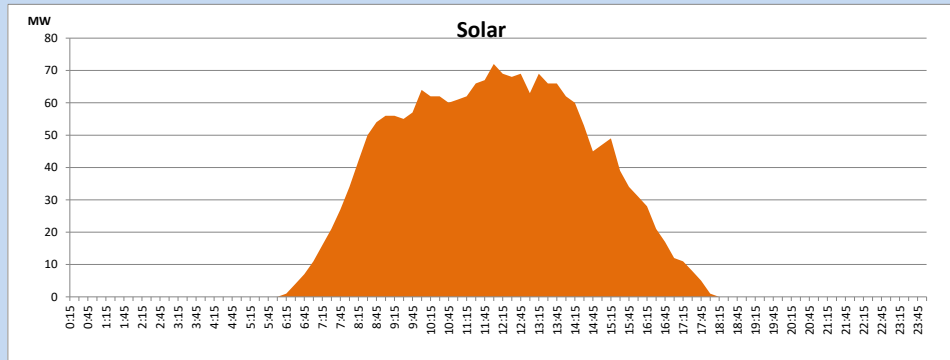
Wind Generation during July 26, 2024

Based on Telemetered Power Stations only



Solar Generation during July 26, 2024

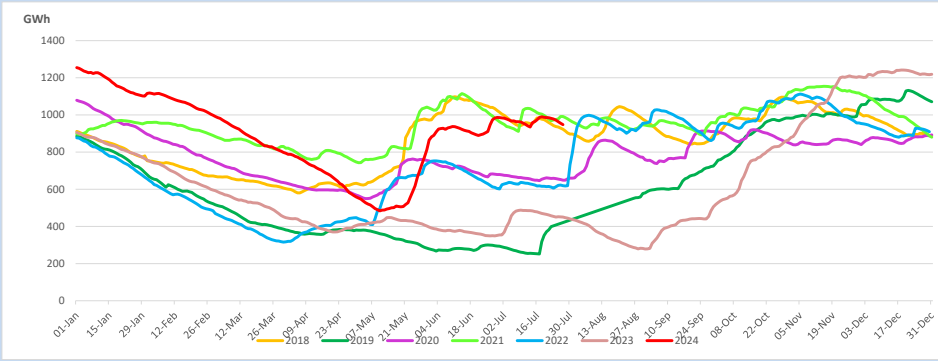
Based on Telemetered Power Stations only



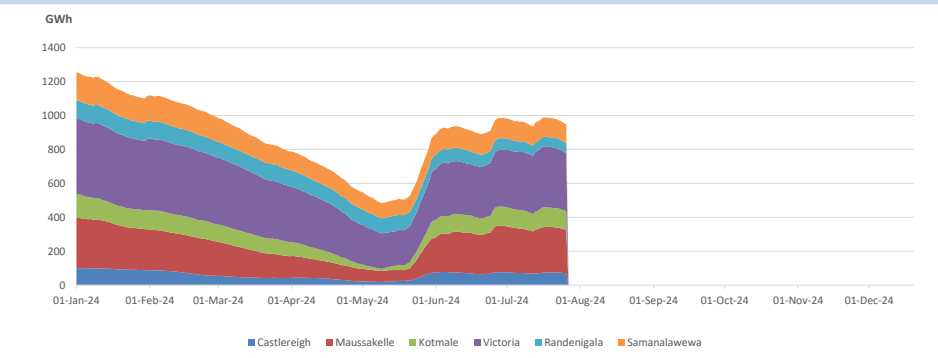
1.14 Major Incidents reported during the day July 26, 2024

- 1). Seethawaka 132/33kV T/F 02 tripped at 15:39hrs from both ends due to the operation of Differential protection. Seethawaka 132/33kV T/F 02 normalized at 2:18hrs (27/07/2024).

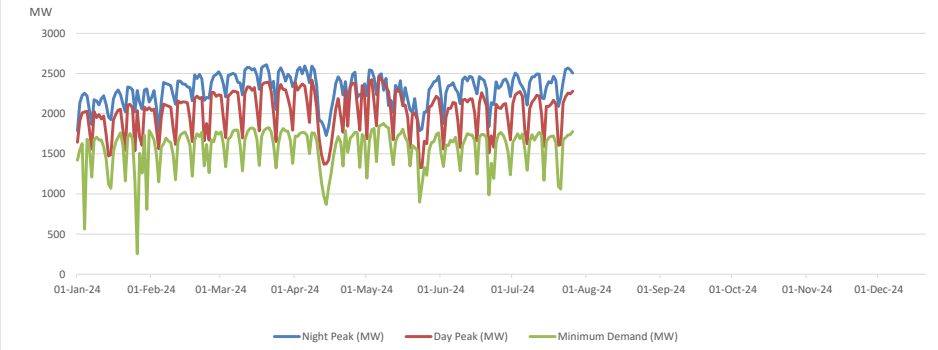
2. Comparison of Total Reservoir Storage Levels with Past Years



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

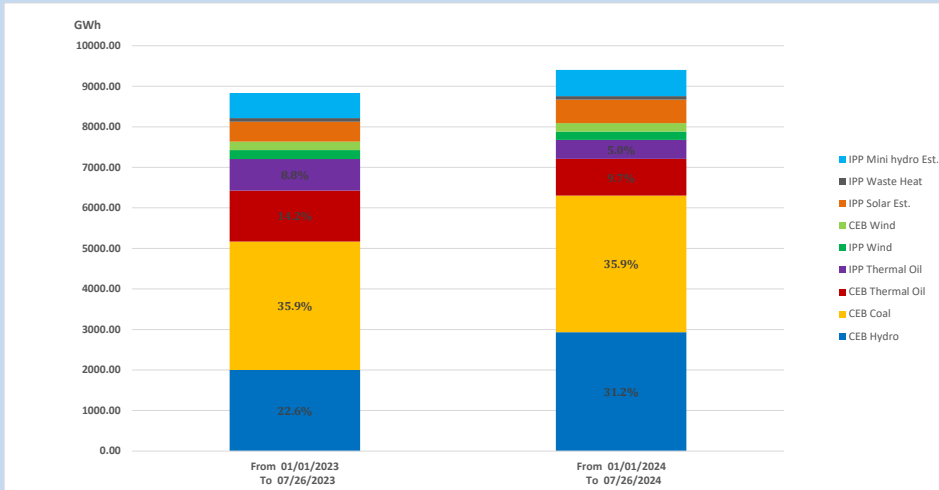


4. Variation of Demand during the current year



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 07/26/2023

8834 GWh

From 01/01/2024 To 07/26/2024

9402 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]