

Generation and Reservoirs Statistics

August 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 4, 2024

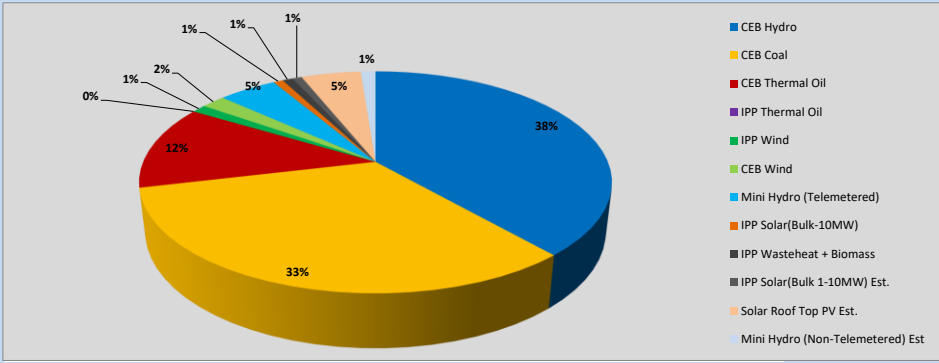


Table 01

	Generation (MWh)
CEB Hydro	15107
CEB Coal	12856
CEB Thermal Oil	4824
IPP Thermal Oil	0
IPP Wind	464
CEB Wind	767
Mini Hydro (Telemetered)	1873
IPP Solar (Bulk)	308
IPP Waste heat + Biomass	330
Total Generation (Excluding estimated figures)	36,529
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	472
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	39,225

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	69	38.06%
CEB Coal	52	28.47%
CEB Thermal Oil	20	11.25%
IPP Thermal	1	0.81%
SPP Wind	5	2.84%
CEB Wind	6	3.34%
Mini Hydro *	16	8.83%
IPP Solar *	10	5.71%
IPP Waste heat + BMP	1	0.69%
Total	181	

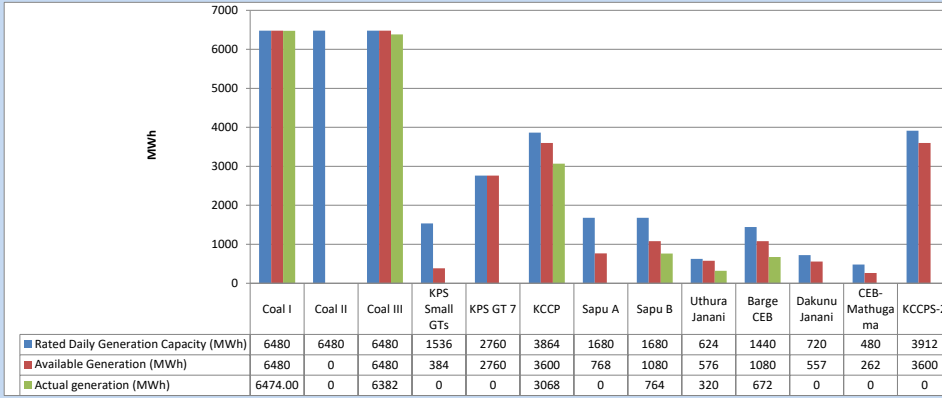
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,086	31.44%
CEB Coal	3,486	35.52%
CEB Thermal Oil	951	9.69%
IPP Thermal	477	4.86%
SPP Wind	218	2.22%
CEB Wind	222	2.26%
Mini Hydro *	681	6.94%
IPP Solar *	606	6.17%
IPP Waste heat	88	0.90%
Total	9,814	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 4, 2024

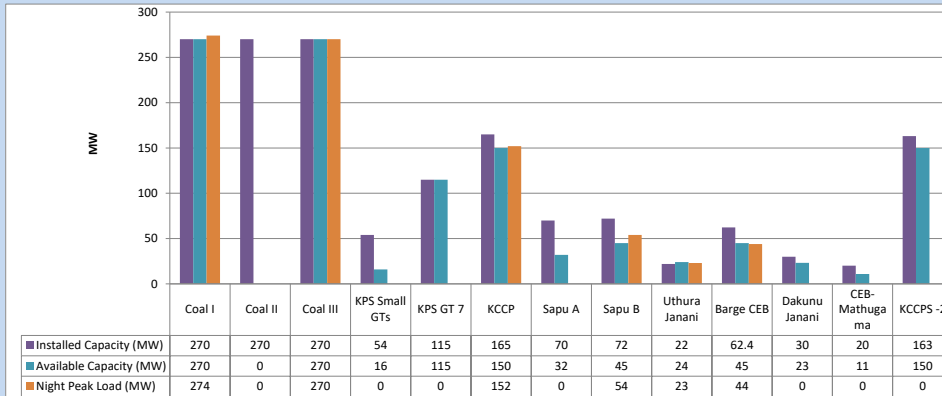


Available Generation is estimated based on plant availability at 6.00am on

August 5, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 4, 2024

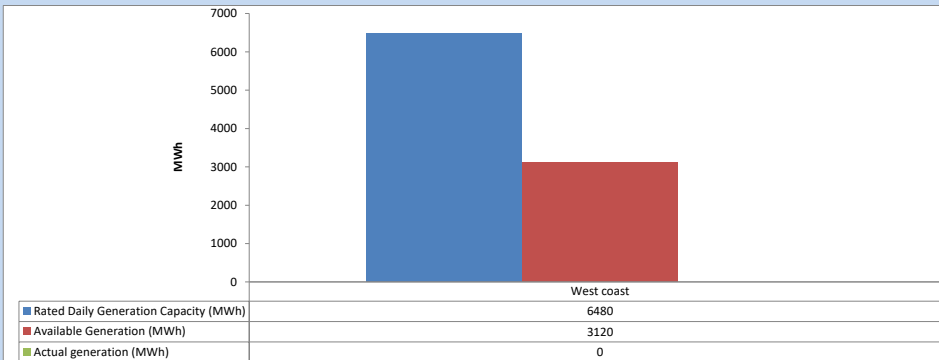


Plant availability is recorded at 6.00 am on

August 5, 2024

1.4 IPP owned Thermal Plant Dispatch

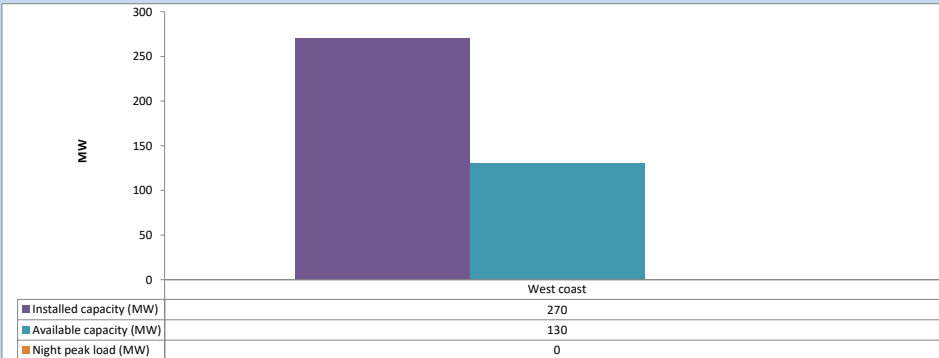
August 4, 2024



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

August 5, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

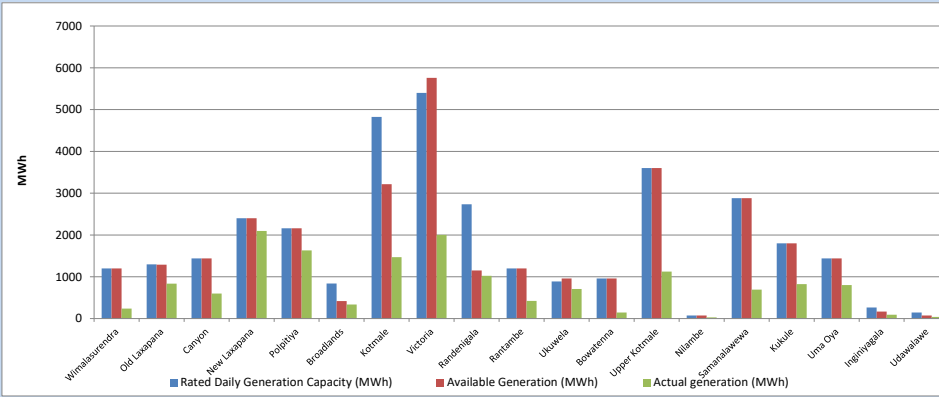


Plant availability is recorded at 6.00 am on

August 5, 2024

1.6 Major Hydro Plant Dispatch

August 4, 2024

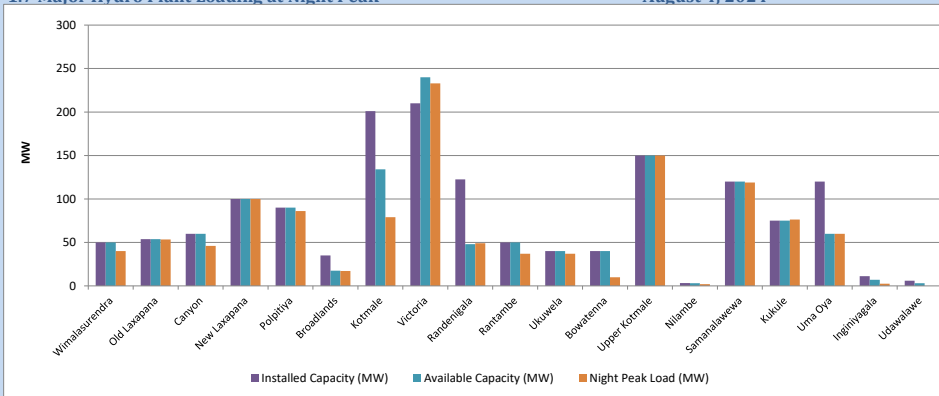


Available Generation is estimated based on plant availability at 6.00am on

August 5, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 4, 2024



Plant availability is recorded at 6.00 am on

August 5, 2024

1.8 Summary of Major Plant performance

August 4, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	240
Old Laxapana	54	54	53	834
Canyon	60	60	46	597
New Laxapana	100	100	100	2,098
Polpitiya	90	90	86	1,630
Broadlands	35	18	17	335
Kotmale	201	134	79	1,470
Victoria	210	240	233	2,002
Randenigala	123	48	49	1,023
Rantambe	50	50	37	422
Ukuwela	40	40	37	709
Bowatenna	40	40	10	145
Upper Kotmale	150	150	150	1,126
Nilambe	3	3	2	29
Samanalawewa	120	120	119	693
Kukule	75	75	76	823
Uma Oya	120	60	60	803
Inginiyagala	11	7	3	91
Udawalawe	6	3	0	38
Puttalam Coal I	270	270	274	6,474
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,382
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	152	3,068
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	45	54	764
Uthura Janani	22	24	23	320
Barge CEB	62	45	44	672
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	2,623	2,178	36,530

Note-

Plant availability is the availability recorded at 6 am on

August 5, 2024

1.9 Contribution to the Night Peak in MW

August 4, 2024

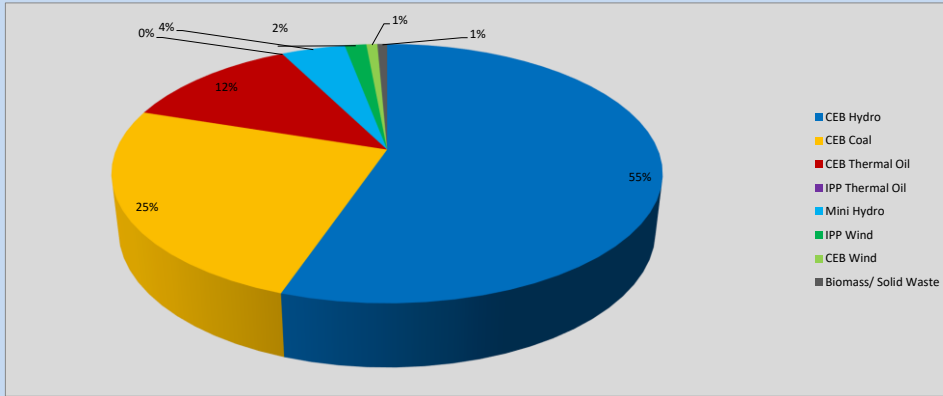


Table 05

CEB Hydro	1210	MW
CEB Coal	544	MW
CEB Thermal Oil	273	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	99	MW
IPP Wind	33.2	MW
CEB Wind	16.9	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

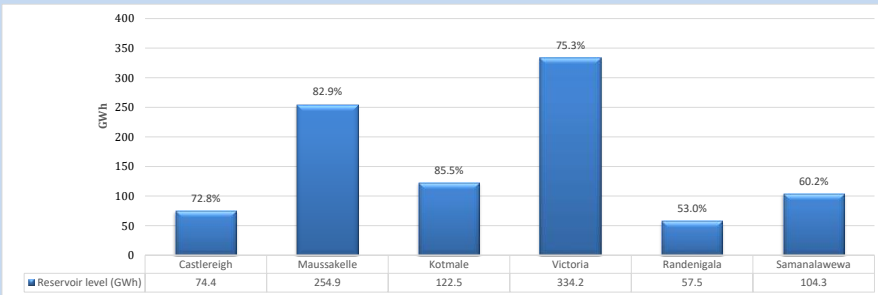
Table 06

Night Peak*	2,191	MW
Day Peak Maximum Demand	1,654	MW
Day Peak Minimum Demand	1,132	MW
Off Peak Minimum Demand	1,342	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 August 5, 2024



Total Reservoir Level 947.8 GWh
% of Total capacity 74.1%

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

August 4, 2024

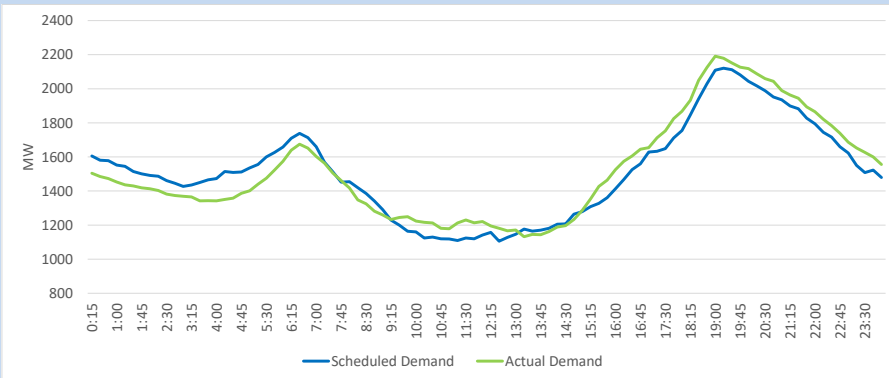
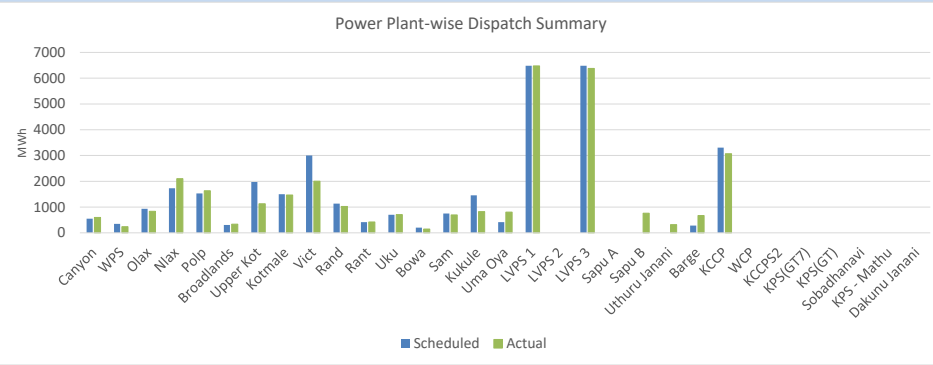


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,934	14,949	-1985
CEB Coal	12,960	12,855	-105
CEB Thermal Oil	3,588	4,824	1236
IPP Thermal Oil	-	-	0
NCRE (Telemetered)	2,873	3,556	683
Total	36,355	36,184	-171

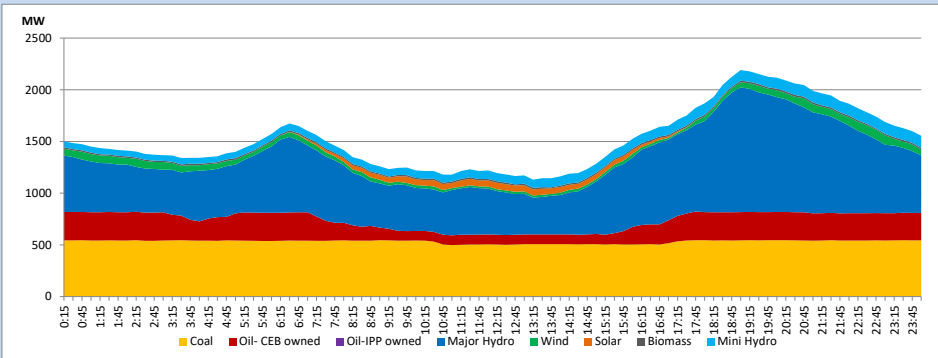
1.12 Power Plant-wise Dispatch Summary

August 4, 2024



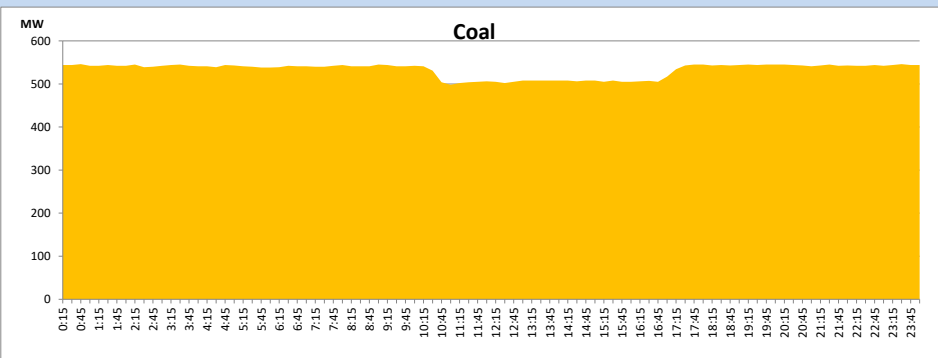
1.13 Daily Load Curve

August 4, 2024



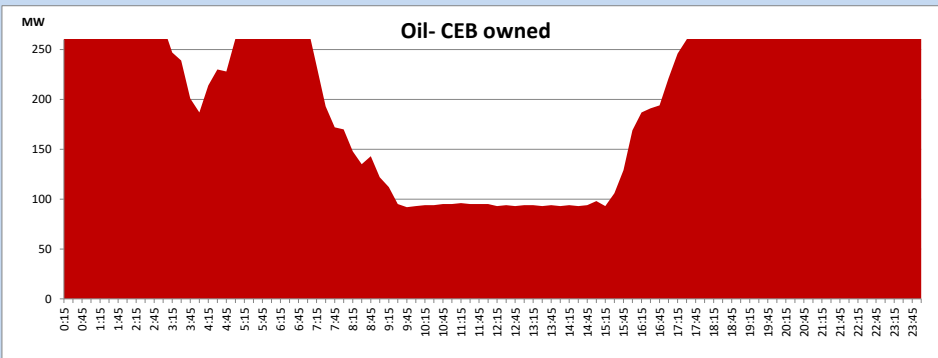
Coal Generation during

August 4, 2024



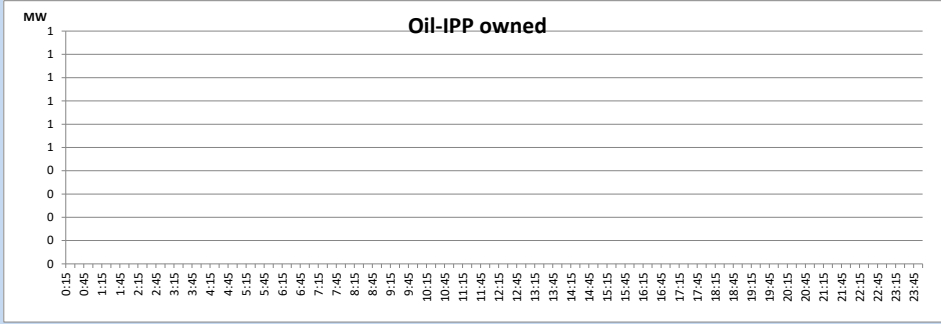
CEB Oil Plant Generation during

August 4, 2024



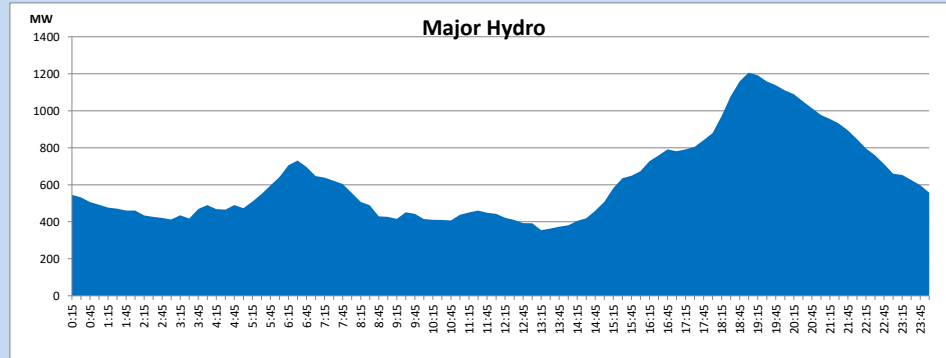
IPP Oil Plant Generation during

August 4, 2024



Major Hydro Generation during

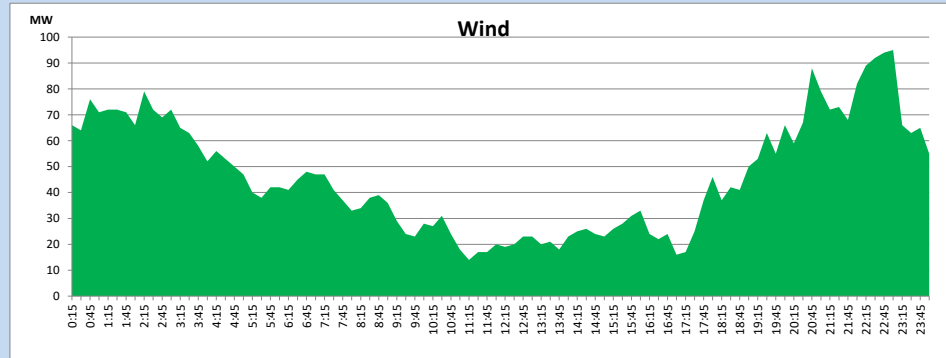
August 4, 2024



Wind Generation during

August 4, 2024

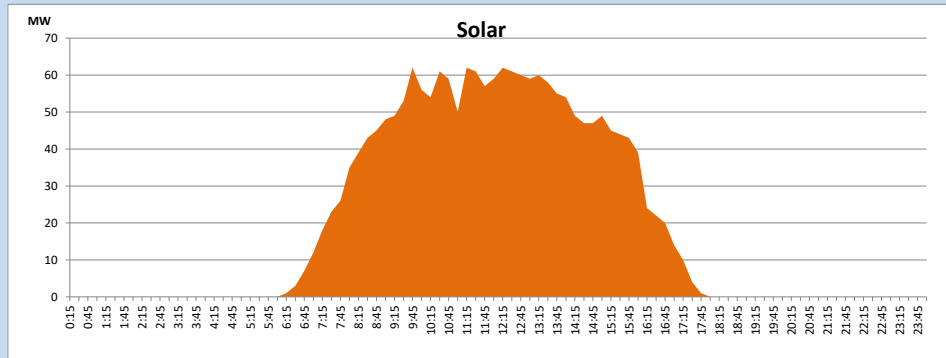
Based on Telemetered Power Stations only



Solar Generation during

August 4, 2024

Based on Telemetered Power Stations only

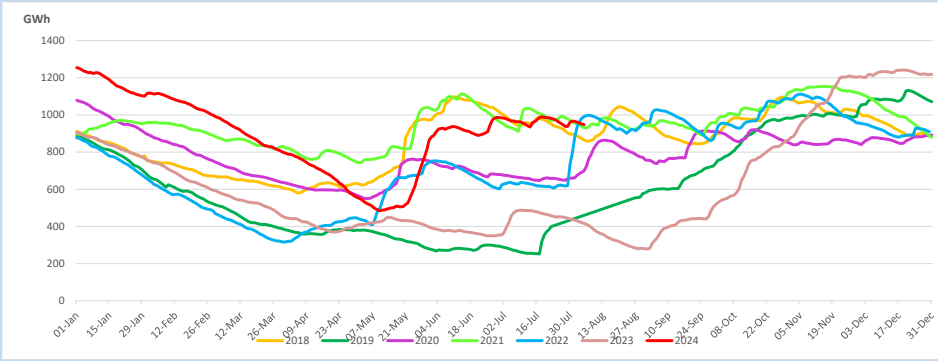


1.14 Major Incidents reported during the day

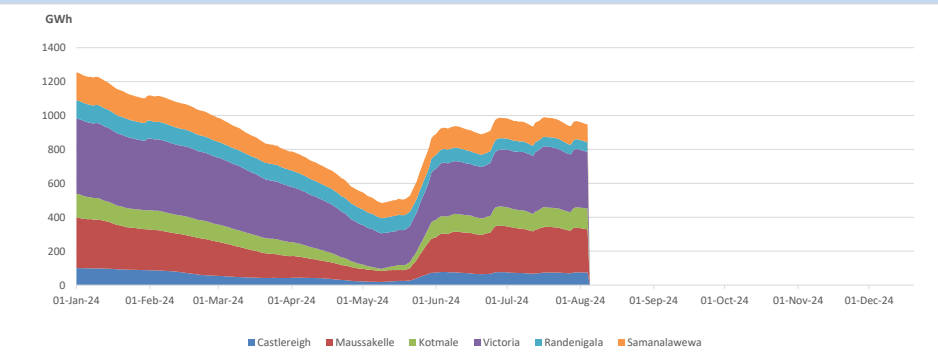
August 4, 2024

- Polpitiya unit 01 tripped at 15:09hrs, rejecting 10MW from the system due to the operation of the combined bearing oil level low alarm. Polpitiya unit 01 resumed generation at 16:01hrs.
- Uma Oya (Dyraaba) pond spilling started at 21:38hrs and stopped at 23:45hrs.
- Matara - N'Galle 132kV cct 02 tripped & A/R from both ends at 5:46hrs (05/08/2024) due to the operation of Differential protection.

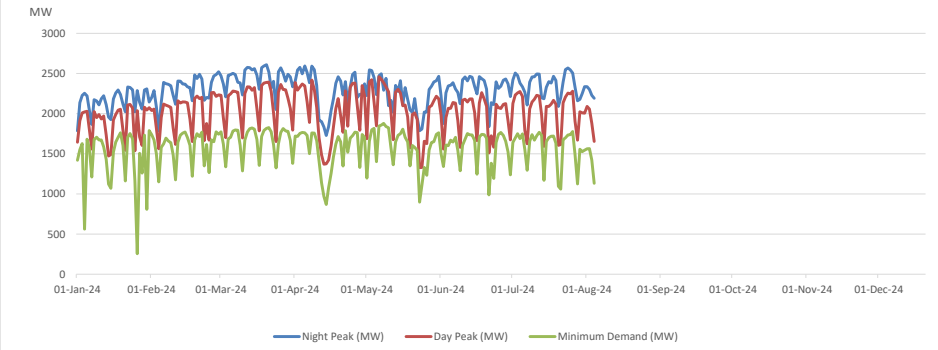
2. Comparison of Total Reservoir Storage Levels with Past Years



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

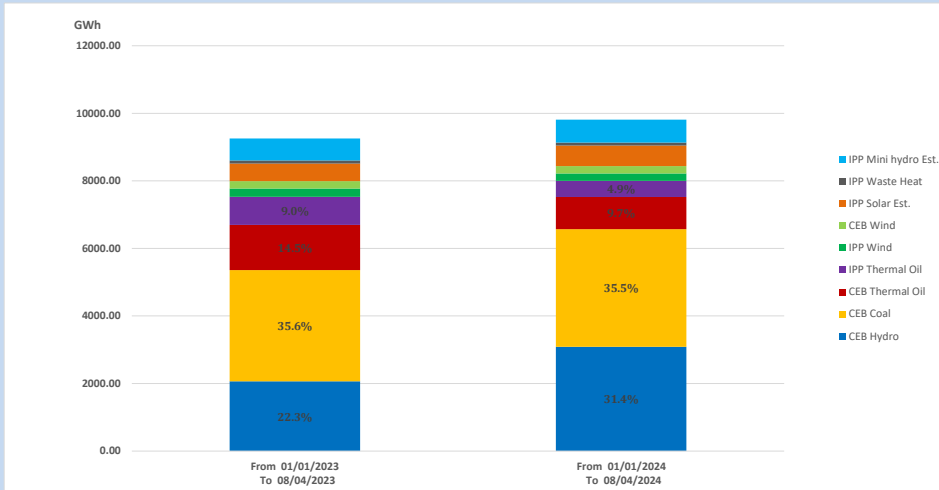


4. Variation of Demand during the current year



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 08/04/2023

9254 GWh

From 01/01/2024 To 08/04/2024

9814 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]