

Generation and Reservoirs Statistics

August 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 11, 2024

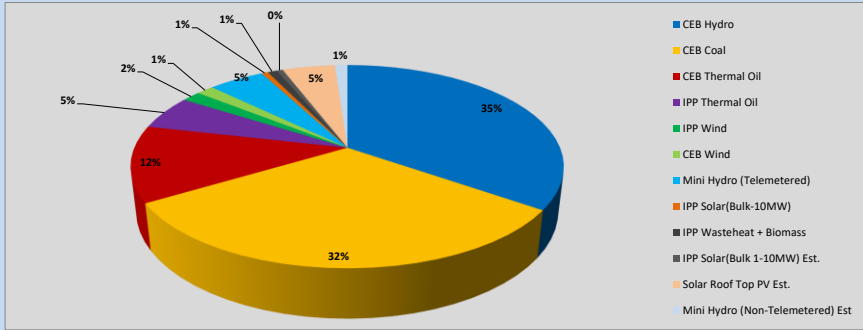


Table 01

	Generation (MWh)
CEB Hydro	14174
CEB Coal	12988
CEB Thermal Oil	4975
IPP Thermal Oil	2226
IPP Wind	686
CEB Wind	634
Mini Hydro (Telemetered)	2036
IPP Solar (Bulk)	235
IPP Waste heat + Biomass	339
Total Generation (Excluding estimated figures)	38,293
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	457
* Estimated IPP Solar PV (Bulk 1-10MW)	226
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	40,896

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	185	36.55%
CEB Coal	143	28.19%
CEB Thermal Oil	69	13.69%
IPP Thermal	19	3.68%
SPP Wind	11	2.18%
CEB Wind	12	2.32%
Mini Hydro *	36	7.10%
IPP Solar *	28	5.55%
IPP Waste heat + BMP	4	0.74%
Total	506	

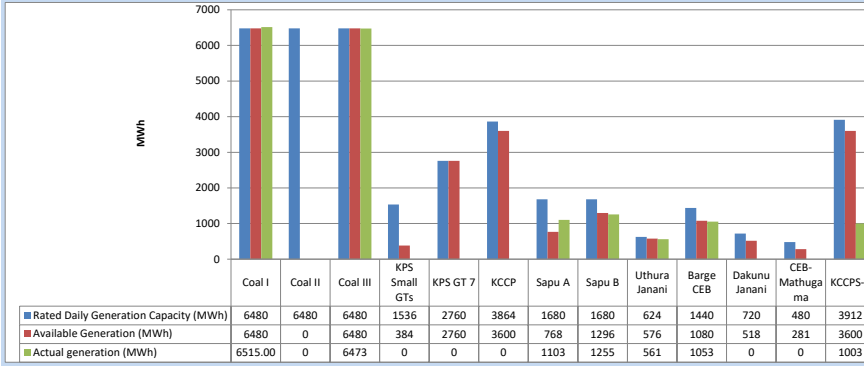
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,202	31.58%
CEB Coal	3,577	35.28%
CEB Thermal Oil	1,000	9.86%
IPP Thermal	494	4.88%
SPP Wind	224	2.21%
CEB Wind	228	2.25%
Mini Hydro *	701	6.91%
IPP Solar *	623	6.15%
IPP Waste heat	91	0.89%
Total	10,138	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 11, 2024

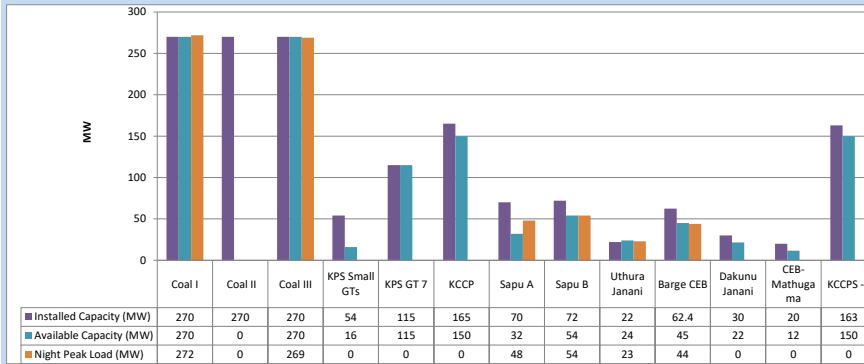


Available Generation is estimated based on plant availability at 6.00am on

August 12, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 11, 2024

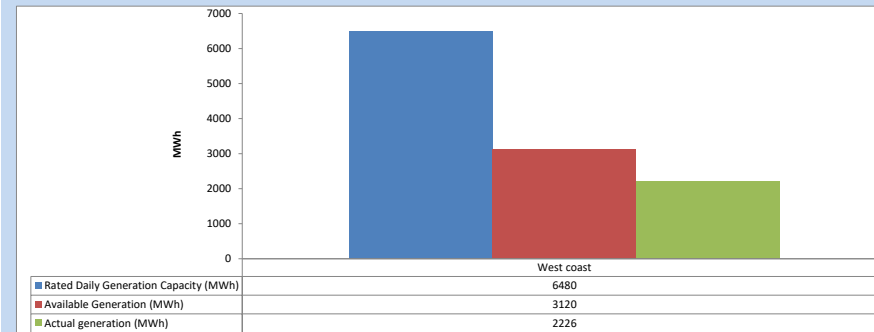


Plant availability is recorded at 6.00 am on

August 12, 2024

1.4 IPP owned Thermal Plant Dispatch

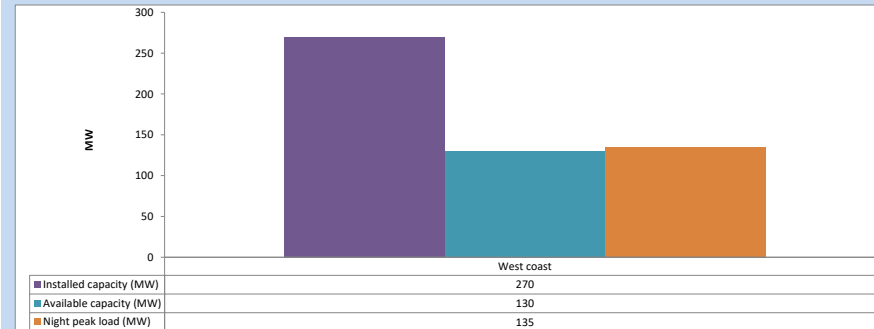
August 11, 2024



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

August 12, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

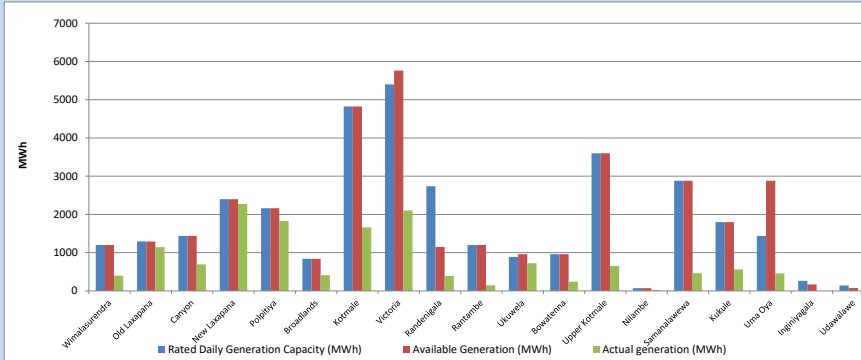


Plant availability is recorded at 6.00 am on

August 12, 2024

1.6 Major Hydro Plant Dispatch

August 11, 2024

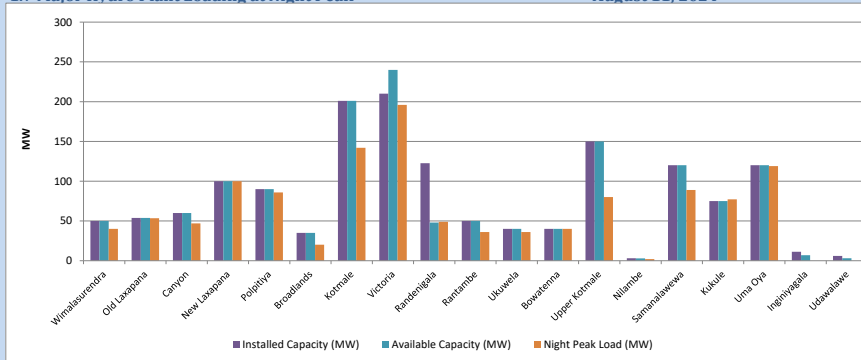


Available Generation is estimated based on plant availability at 6.00am on

August 12, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 11, 2024



Plant availability is recorded at 6.00 am on

August 12, 2024

1.8 Summary of Major Plant performance

August 11, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	401
Old Laxapana	54	54	53	1,145
Canyon	60	60	47	693
New Laxapana	100	100	100	2,273
Polpitiya	90	90	86	1,830
Broadlands	35	35	20	412
Kotmale	201	201	142	1,660
Victoria	210	240	196	2,105
Randenigala	123	48	49	388
Rantambe	50	50	36	147
Ukuwela	40	40	36	722
Bowatenna	40	40	40	241
Upper Kotmale	150	150	80	652
Nilambe	3	3	2	21
Samanalawewa	120	120	89	465
Kukule	75	75	77	563
Uma Oya	120	120	119	458
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	272	6,515
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	269	6,473
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	48	1,103
Sapugaskanda B	72	54	54	1,255
Uthura Janani	22	24	23	561
Barge CEB	62	45	44	1,053
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	1,003
West Coast	270	130	135	2,226
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,775	2,209	38,295

Note-

Plant availability is the availability recorded at 6 am on

August 12, 2024

1.9 Contribution to the Night Peak in MW

August 11, 2024

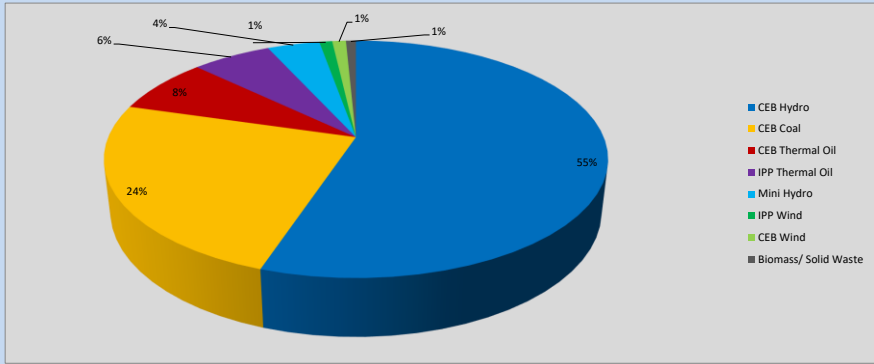


Table 05

CEB Hydro	1225 MW
CEB Coal	541 MW
CEB Thermal Oil	169 MW
IPP Thermal Oil	135 MW
Mini Hydro (Telemetered)	89 MW
IPP Wind	22 MW
CEB Wind	23.3 MW
Biomass/ Solid Waste	17 MW

Recorded Peak Demand Data

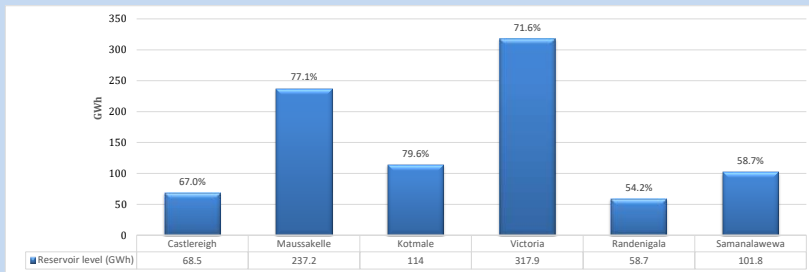
Table 06

Night Peak*	2,221 MW
Day Peak Maximum Demand	1,809 MW
Day Peak Minimum Demand	1,185 MW
Off Peak Minimum Demand	1,488 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 12, 2024



Total Reservoir Level 898.1 GWh
% of Total capacity 70.2%

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

August 11, 2024

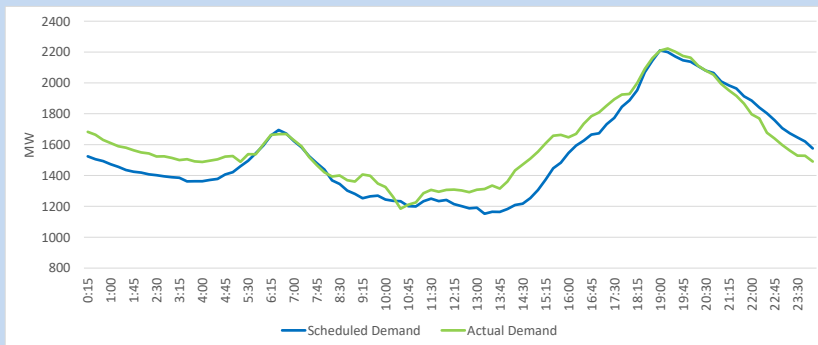
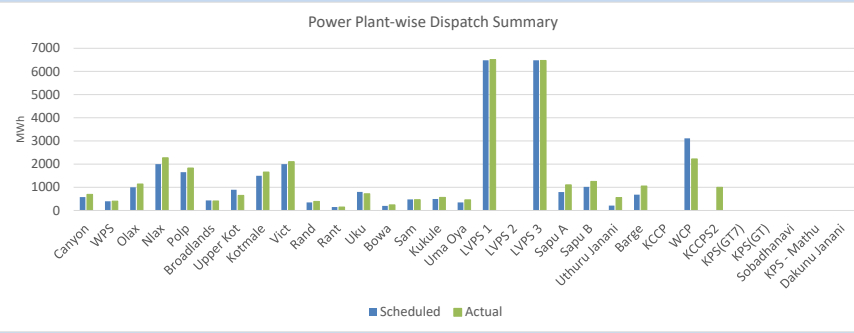


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,288	14,154	866
CEB Coal	12,960	12,988	28
CEB Thermal Oil	2,701	4,974	2273
IPP Thermal Oil	3,112	2,226	-886
NCRE (Telemetered)	4,953	3,713	-1240
Total	37,012	38,054	1041

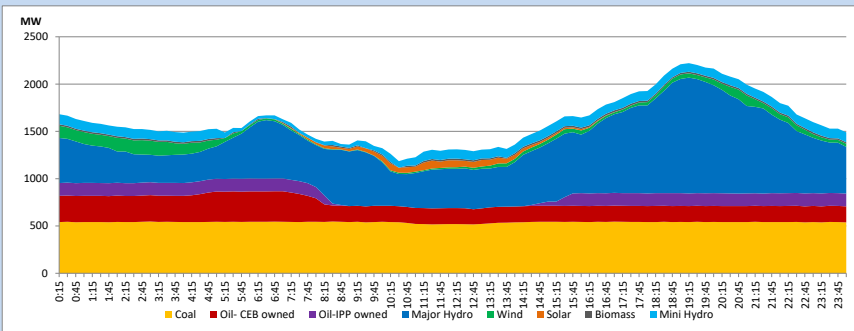
1.12 Power Plant-wise Dispatch Summary

August 11, 2024



1.13 Daily Load Curve

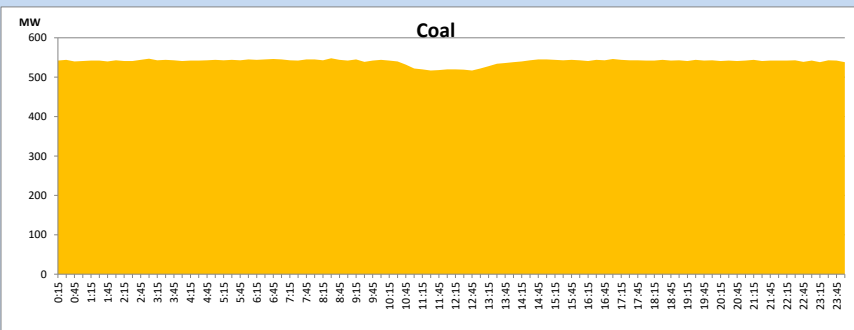
August 11, 2024



Solar and wind data is based on Telemetered Power Stations only

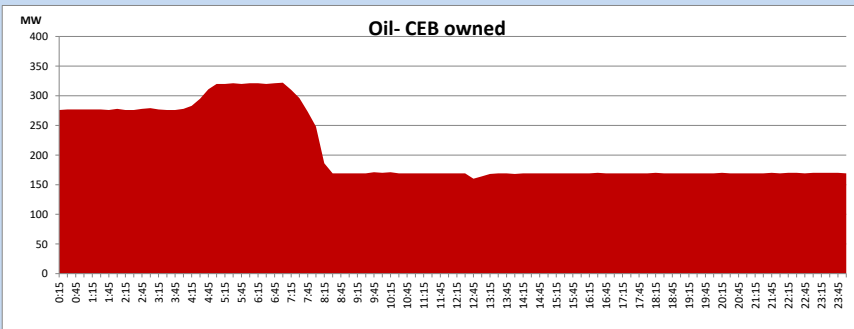
Coal Generation during

August 11, 2024

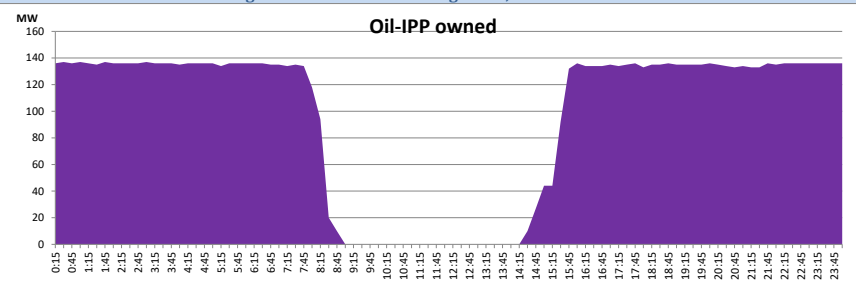


CEB Oil Plant Generation during

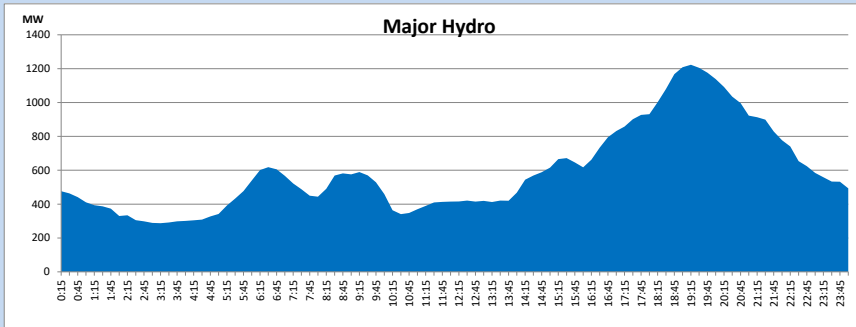
August 11, 2024



IPP Oil Plant Generation during August 11, 2024

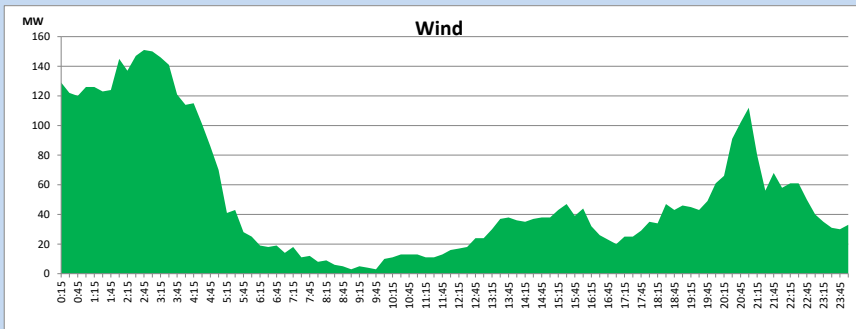


Major Hydro Generation during August 11, 2024



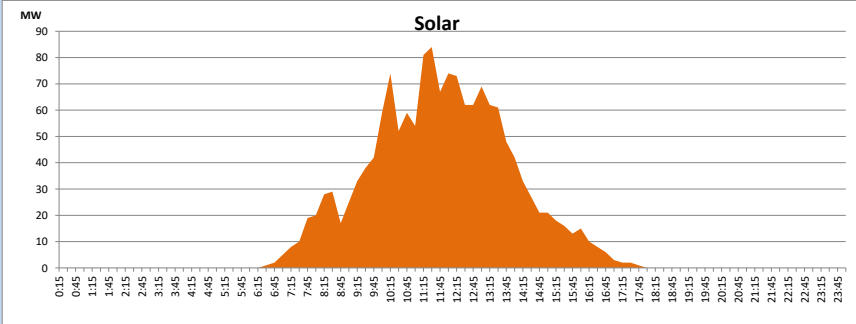
Wind Generation during August 11, 2024

Based on Telemetered Power Stations only



Solar Generation during August 11, 2024

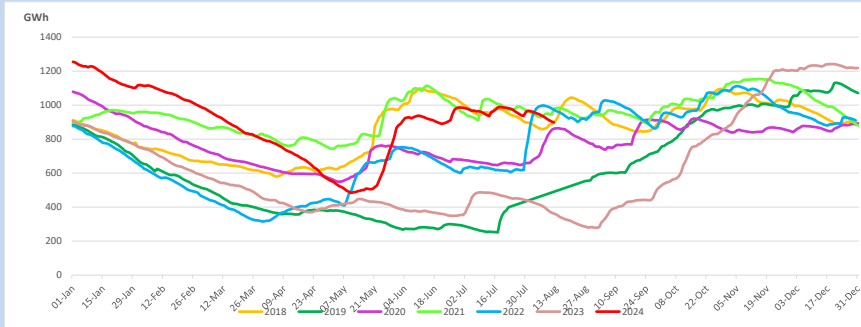
Based on Telemetered Power Stations only



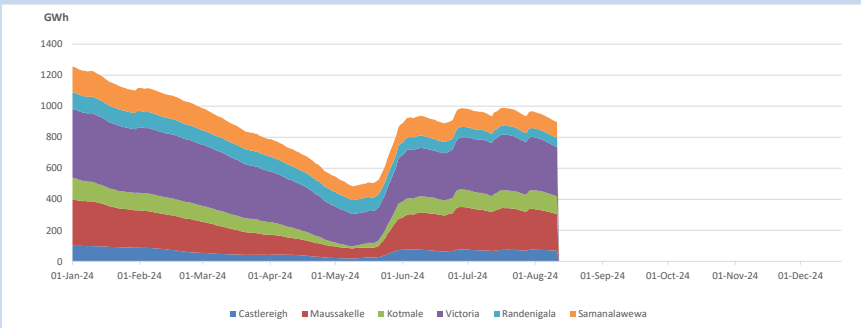
1.14 Major Incidents reported during the day August 11, 2024

- 1) Uma Oya both units made unavailable for generation at 04:30hrs due to the start sequence failure. Uma Oya unit 02 resumed generation at 09:42hrs and tripped at 13:52hrs rejecting 10MW from the system due to the governor sump tank oil level low alarm. Uma Oya unit 02 resumed generation at 18:17hrs and unit 01 made available for generation at 10:16hrs.
- 2) Habarana - Ukuwela 132kV cct tripped from both ends at 13:06hrs due to the operation of distance protection. The cct is yet to be normalized.
- 3) N/Polpitiya - Padukka 220kV cct 01 tripped and A/R from both ends at 22:28hrs due to the operation of distance protection. At the same time, N/Polpitiya - Padukka 220kV cct 02 tripped and A/R from both ends due to the operation of differential protection.
- 4) Kolonnawa - Seethakawa 132kV cct tripped and A/R from both ends at 22:31hrs due to the operation of distance protection.
- 5) KCCPS ST which made forced shutdown on 09.08.2024, resumed generation at 05:12hrs (12.08.2024).

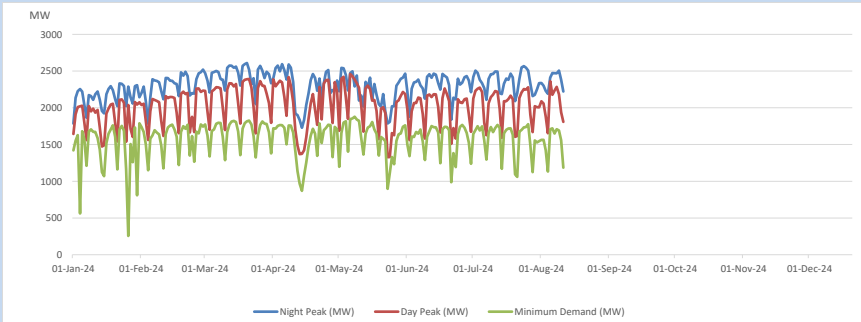
2. Comparison of Total Reservoir Storage Levels with Past Years



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

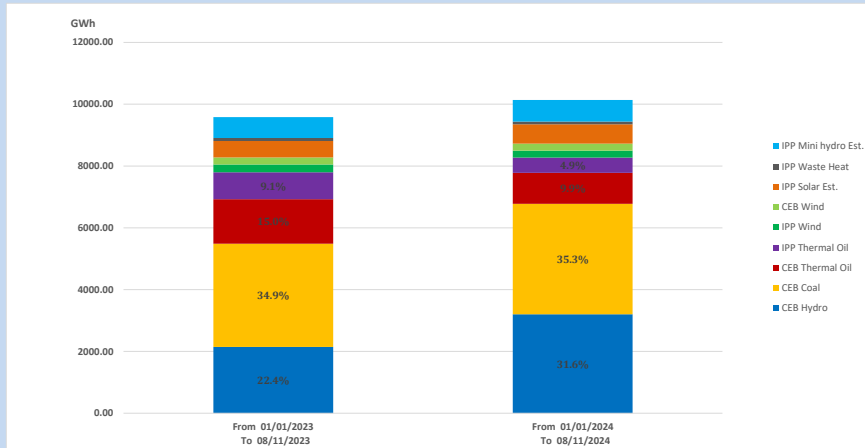


4. Variation of Demand during the current year



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 08/11/2023

9583 GWh

From 01/01/2024 To 08/07/2024

10138 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]