

Generation and Reservoirs Statistics

August 8, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 8, 2024

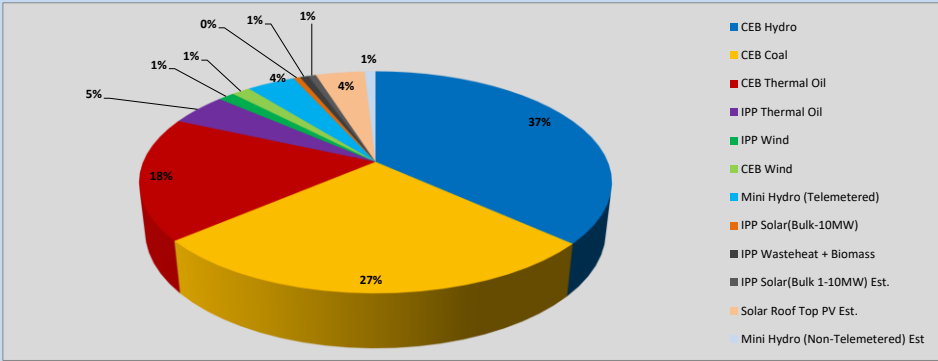


Table 01

	Generation (MWh)
CEB Hydro	17558
CEB Coal	12964
CEB Thermal Oil	8580
IPP Thermal Oil	2263
IPP Wind	638
CEB Wind	731
Mini Hydro (Telemetered)	1897
IPP Solar (Bulk)	260
IPP Waste heat + Biomass	332
Total Generation (Excluding estimated figures)	45,223
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	425
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	47,872

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	139	37.49%
CEB Coal	104	27.88%
CEB Thermal Oil	51	13.63%
IPP Thermal	11	2.96%
SPP Wind	8	2.11%
CEB Wind	9	2.38%
Mini Hydro *	27	7.28%
IPP Solar *	21	5.54%
IPP Waste heat + BMP	3	0.72%
Total	372	

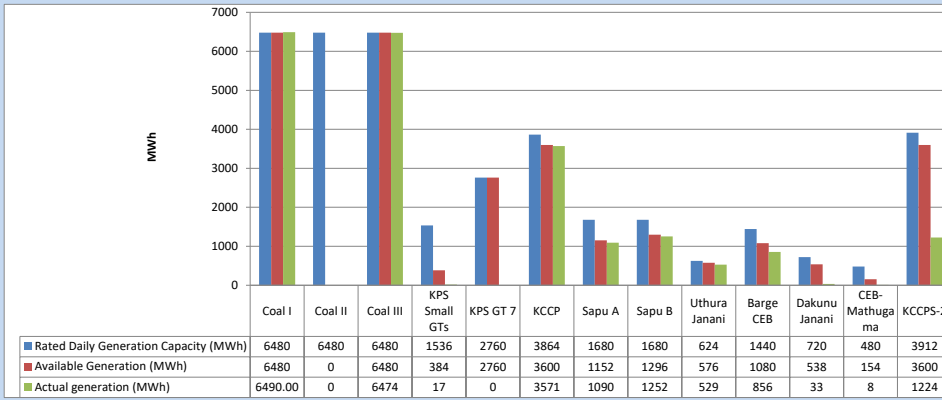
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,156	31.55%
CEB Coal	3,538	35.36%
CEB Thermal Oil	981	9.81%
IPP Thermal	487	4.87%
SPP Wind	221	2.21%
CEB Wind	225	2.25%
Mini Hydro *	692	6.91%
IPP Solar *	616	6.16%
IPP Waste heat	89	0.89%
Total	10,004	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 8, 2024

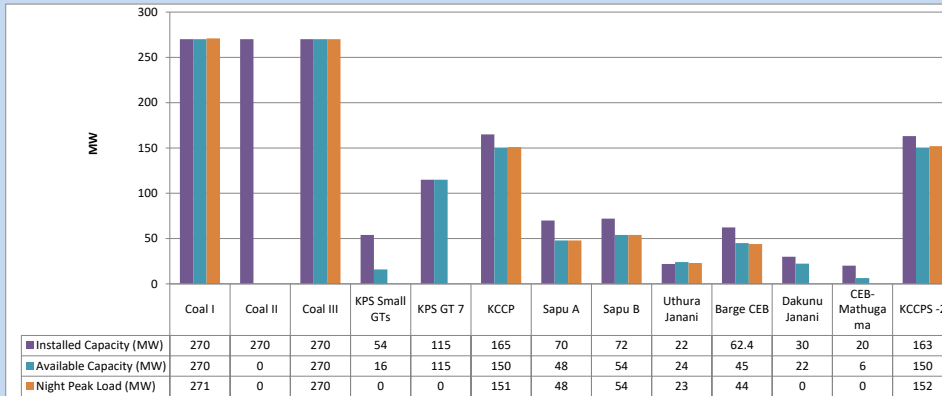


Available Generation is estimated based on plant availability at 6.00am on

August 9, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 8, 2024

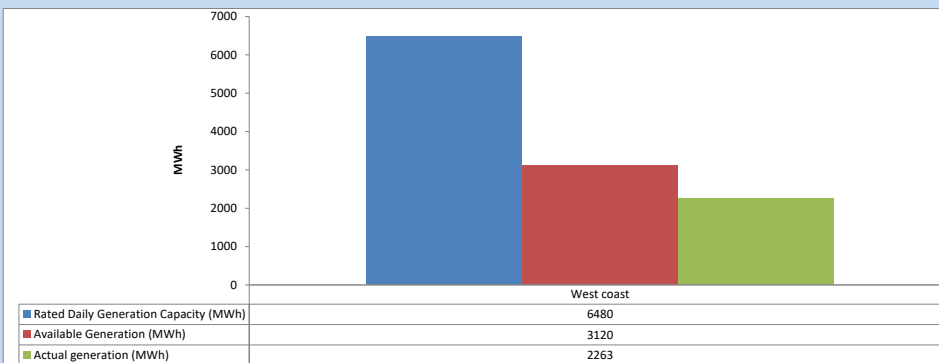


Plant availability is recorded at 6.00 am on

August 9, 2024

1.4 IPP owned Thermal Plant Dispatch

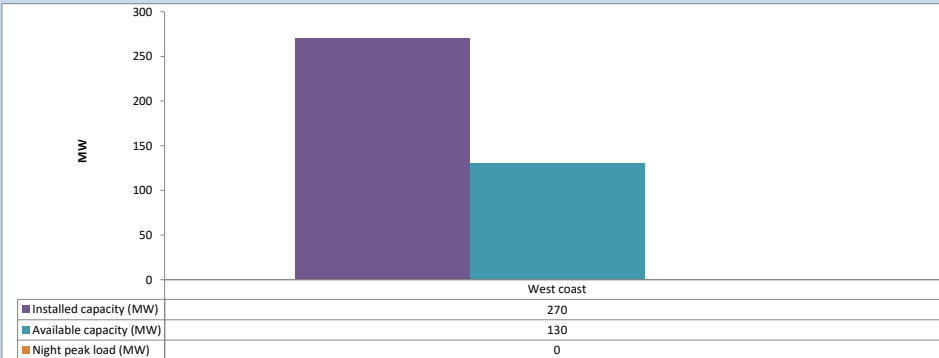
August 8, 2024



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

August 9, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

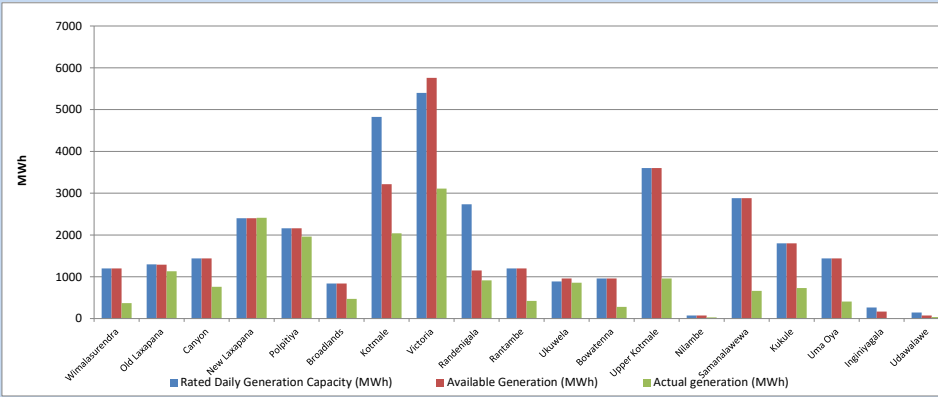


Plant availability is recorded at 6.00 am on

August 9, 2024

1.6 Major Hydro Plant Dispatch

August 8, 2024

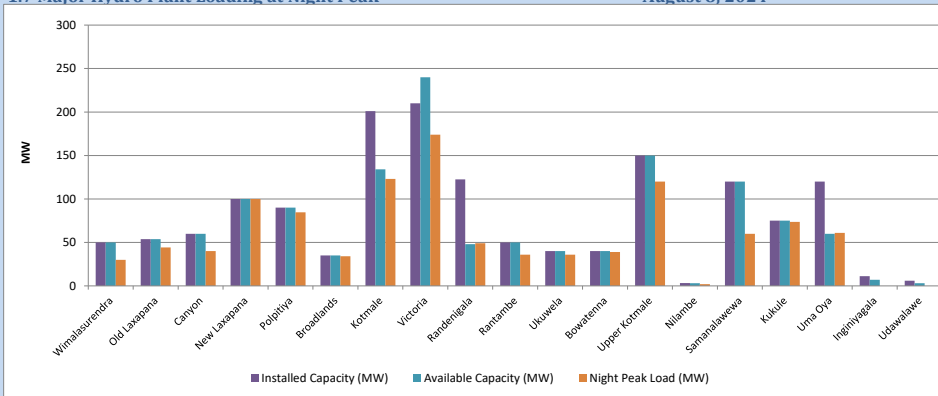


Available Generation is estimated based on plant availability at 6.00am on

August 9, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 8, 2024



Plant availability is recorded at 6.00 am on

August 9, 2024

1.8 Summary of Major Plant performance

August 8, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	371
Old Laxapana	54	54	44	1,130
Canyon	60	60	40	761
New Laxapana	100	100	100	2,412
Polpitiya	90	90	85	1,960
Broadlands	35	35	34	473
Kotmale	201	134	123	2,040
Victoria	210	240	174	3,109
Randenigala	123	48	49	914
Rantambe	50	50	36	424
Ukuwela	40	40	36	859
Bowatenna	40	40	39	281
Upper Kotmale	150	150	120	959
Nilambe	3	3	2	28
Samanalawewa	120	120	60	664
Kukule	75	75	74	730
Uma Oya	120	60	61	406
Inginipigala	11	7	0	0
Udawalawe	6	3	0	37
Puttalam Coal I	270	270	271	6,490
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,474
KPS Small GTs	54	16	0	17
KPS GT 7	115	115	0	0
KCCP	165	150	151	3,571
Sapugaskanda A	70	48	48	1,090
Sapugaskanda B	72	54	54	1,252
Uthura Janani	22	24	23	529
Barge CEB	62	45	44	856
CEB-Hambantota	30	22	0	33
CEB-Mathugama	20	6	0	8
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	152	1,224
West Coast	270	130	0	2,263
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,660	2,454	45,223

Note-

Plant availability is the availability recorded at 6 am on

August 9, 2024

1.9 Contribution to the Night Peak in MW

August 8, 2024

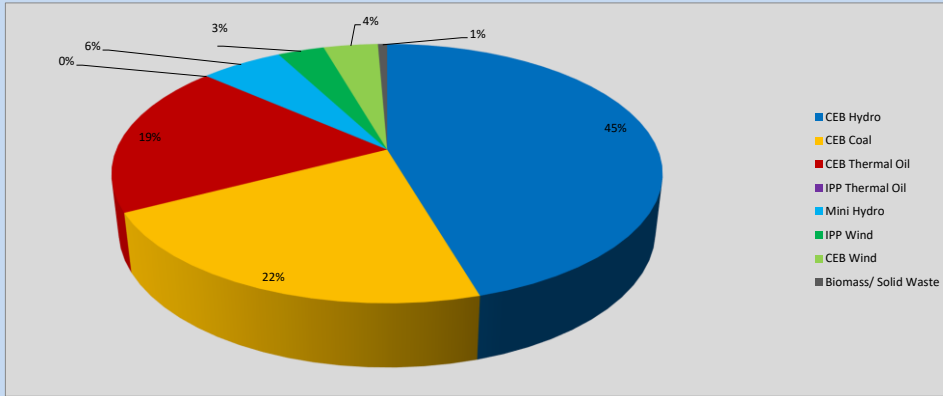


Table 05

CEB Hydro	1123	MW
CEB Coal	541	MW
CEB Thermal Oil	472	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	143	MW
IPP Wind	80.8	MW
CEB Wind	94.3	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

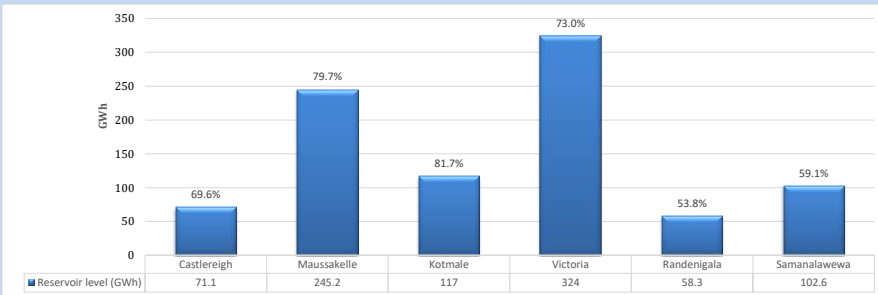
Table 06

Night Peak*	2,470	MW
Day Peak Maximum Demand	2,285	MW
Day Peak Minimum Demand	1,708	MW
Off Peak Minimum Demand	1,479	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 9, 2024



Total Reservoir Level
% of Total capacity

918.2 GWh
71.8%

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

August 8, 2024

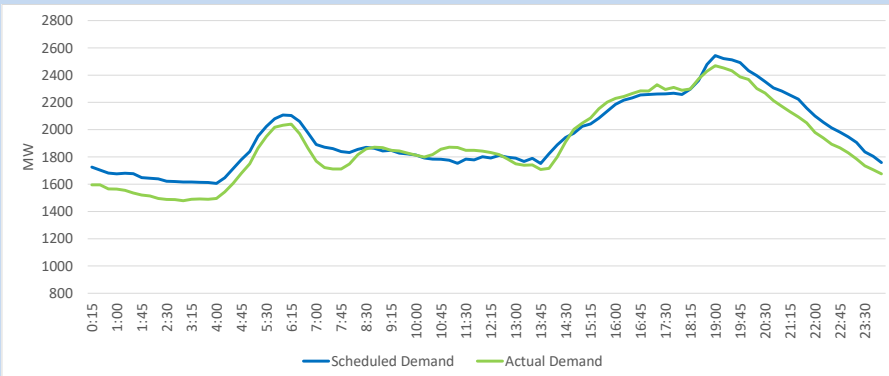
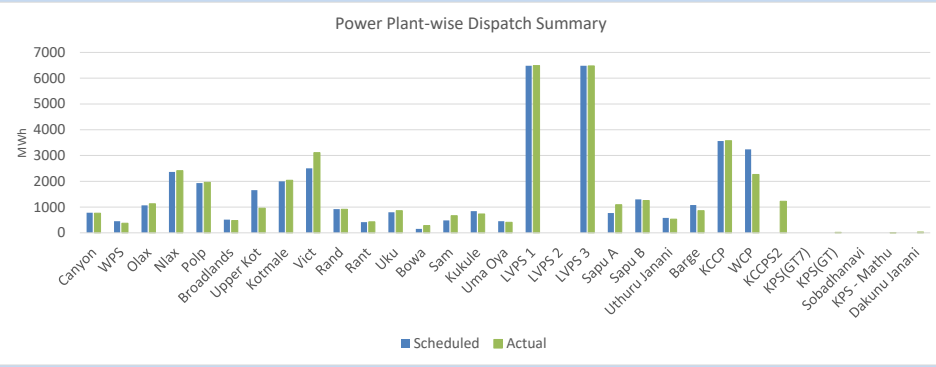


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,310	17,492	182
CEB Coal	12,960	12,964	4
CEB Thermal Oil	7,279	8,580	1301
IPP Thermal Oil	3,240	2,263	-977
NCRE (Telemetered)	6,107	3,708	-2400
Total	46,896	45,007	-1889

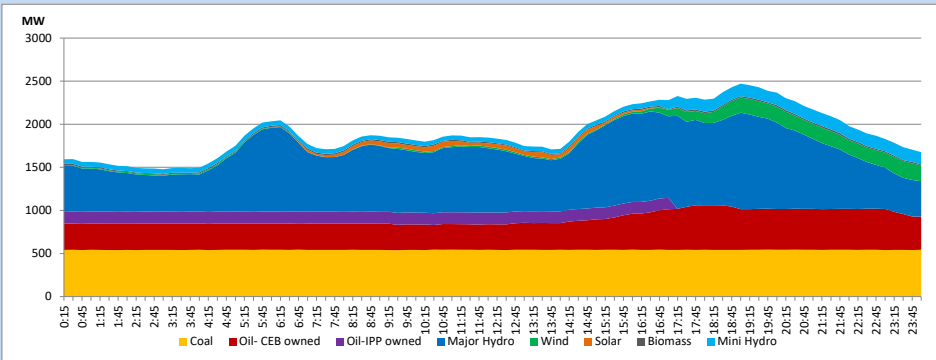
1.12 Power Plant-wise Dispatch Summary

August 8, 2024



1.13 Daily Load Curve

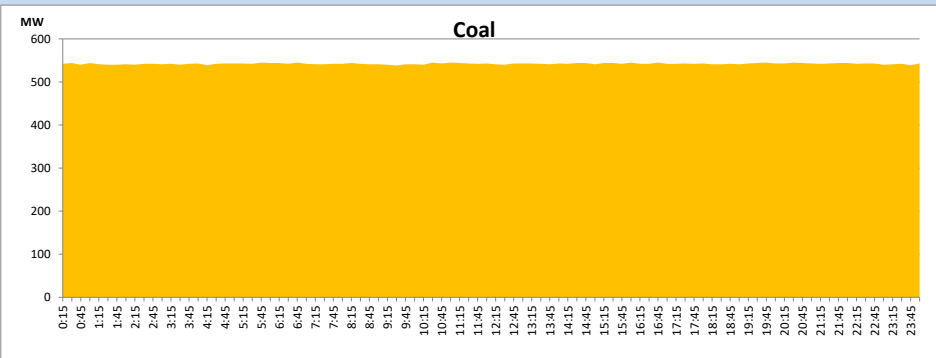
August 8, 2024



Solar and wind data is based on Telemetered Power Stations only

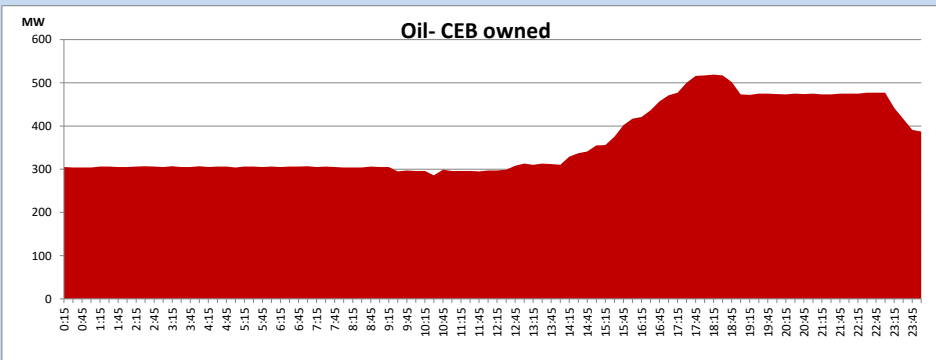
Coal Generation during

August 8, 2024

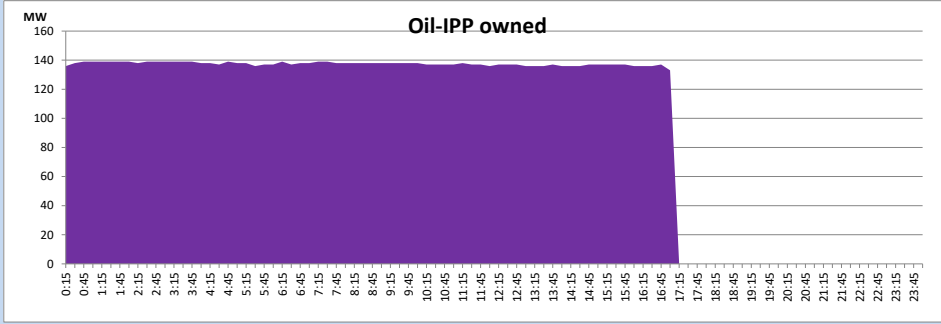


CEB Oil Plant Generation during

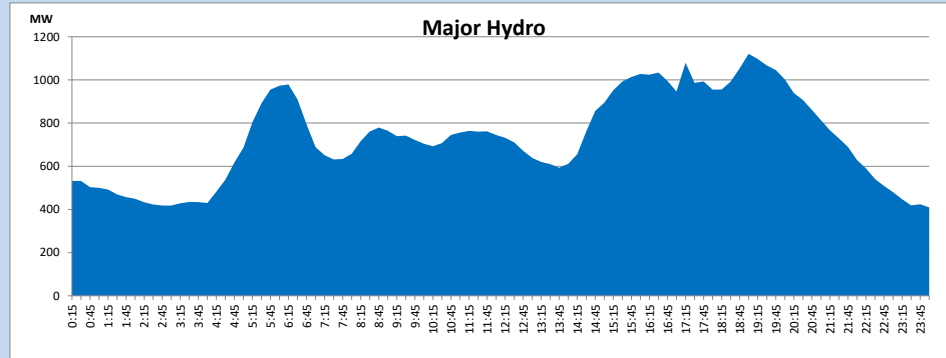
August 8, 2024



IPP Oil Plant Generation during August 8, 2024

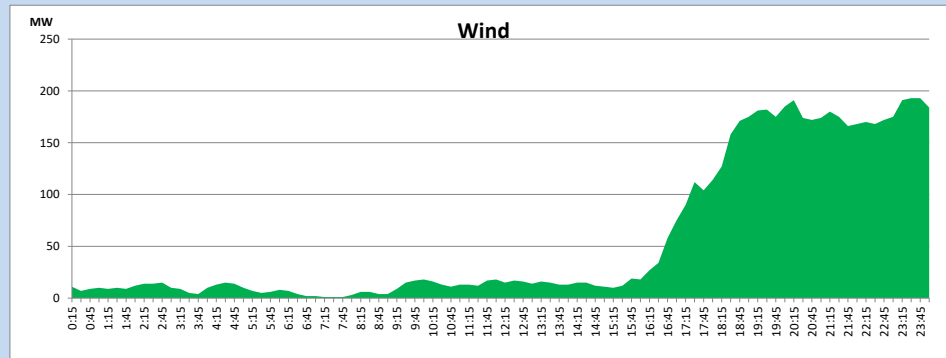


Major Hydro Generation during August 8, 2024



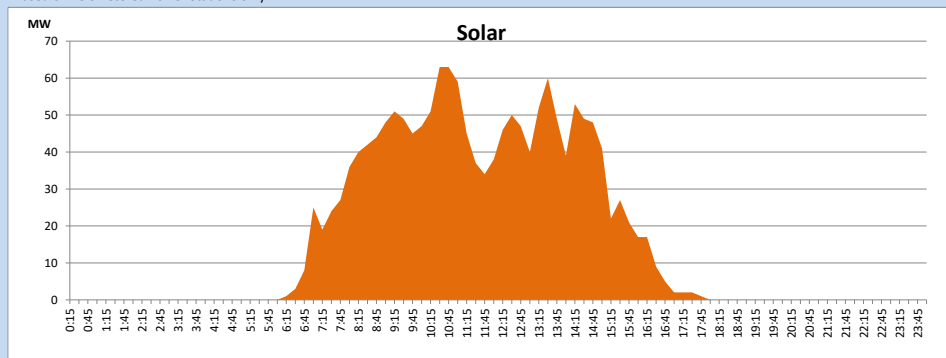
Wind Generation during August 8, 2024

Based on Telemetered Power Stations only



Solar Generation during August 8, 2024

Based on Telemetered Power Stations only

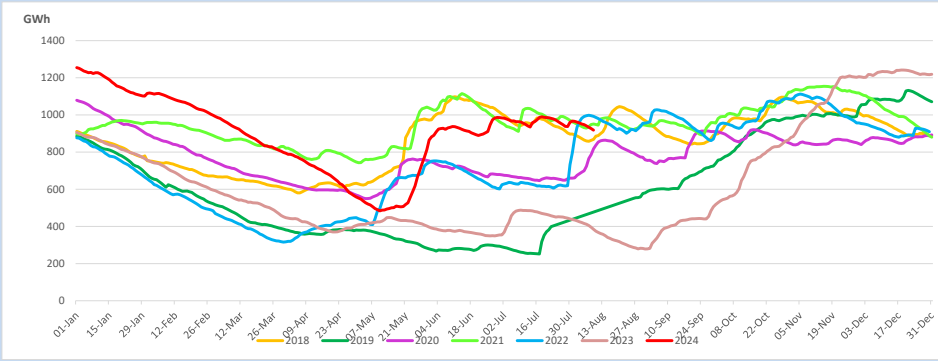


1.14 Major Incidents reported during the day August 8, 2024

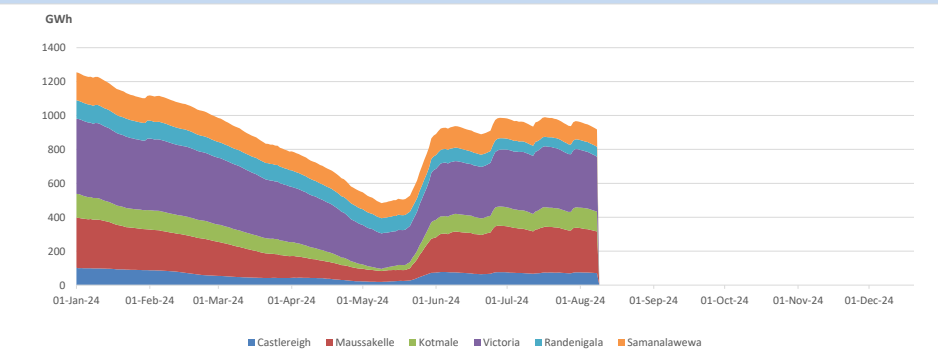
1) At 13:42hrs, all three 132/33kV transformers at Sapugaskanda GSS tripped due to overcurrent protection causing Sapugaskanda GSS all 33kV feeders to be dead. Subsequent inspections revealed a DDLO (Drop Down Link Out) blast in 33kV Feeder 11. The transformers were energized by 14:07hrs, and all 33kV feeders were energized by 16:01hrs.

2) WCP GT 01 and ST performed a forced shutdown at 17:02hrs, rejecting 130MW from the system. WCP resumed generation at 05:32hrs (09.08.2024).

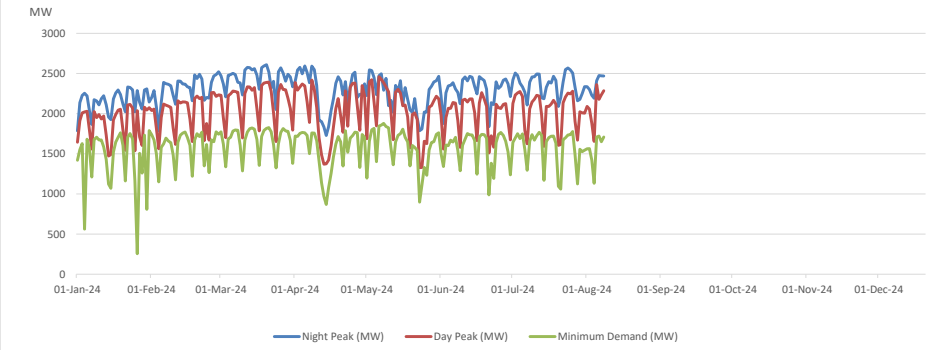
2. Comparison of Total Reservoir Storage Levels with Past Years



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

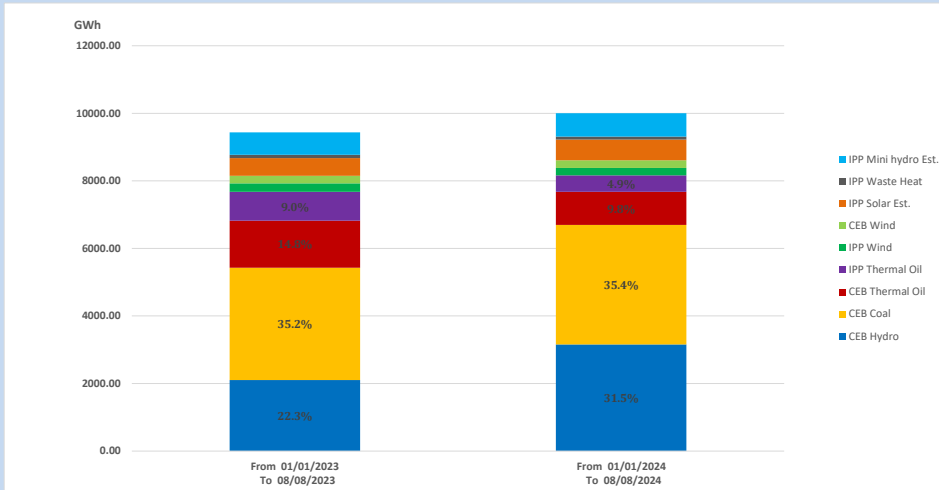


4. Variation of Demand during the current year



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 08/08/2023

9437 GWh

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

10004 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]