

Generation and Reservoirs Statistics

August 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 20, 2024

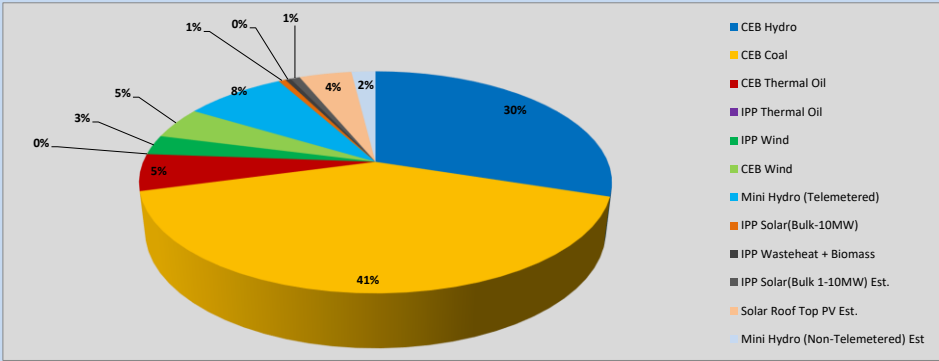


Table 01

	Generation (MWh)
CEB Hydro	13402
CEB Coal	18275
CEB Thermal Oil	2396
IPP Thermal Oil	0
IPP Wind	1283
CEB Wind	2070
Mini Hydro (Telemetered)	3705
IPP Solar (Bulk)	264
IPP Waste heat + Biomass	199
Total Generation (Excluding estimated figures)	41,594
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	879
* Estimated IPP Solar PV (Bulk 1-10MW)	344
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	44,737

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	303	33.33%
CEB Coal	294	32.34%
CEB Thermal Oil	110	12.11%
IPP Thermal	27	2.92%
SPP Wind	22	2.43%
CEB Wind	26	2.81%
Mini Hydro *	71	7.79%
IPP Solar *	51	5.61%
IPP Waste heat + BMP	6	0.66%
Total	909	

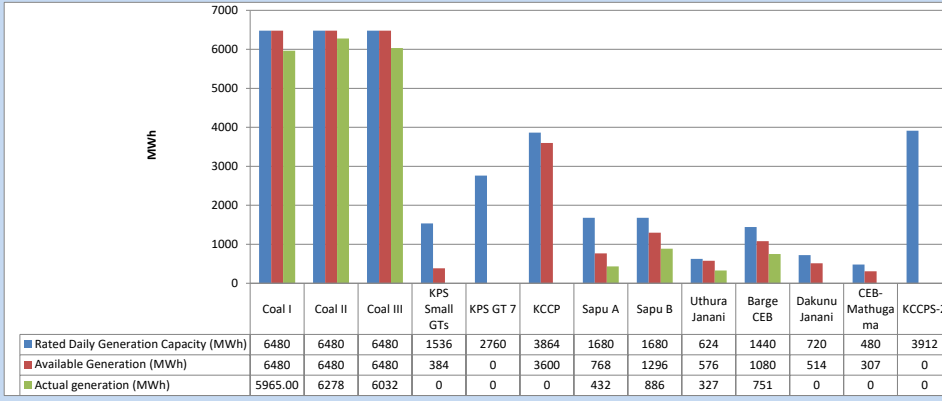
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,317	31.41%
CEB Coal	3,669	34.74%
CEB Thermal Oil	1,094	10.36%
IPP Thermal	502	4.76%
SPP Wind	240	2.27%
CEB Wind	240	2.28%
Mini Hydro *	758	7.17%
IPP Solar *	646	6.12%
IPP Waste heat	95	0.90%
Total	10,560	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 20, 2024

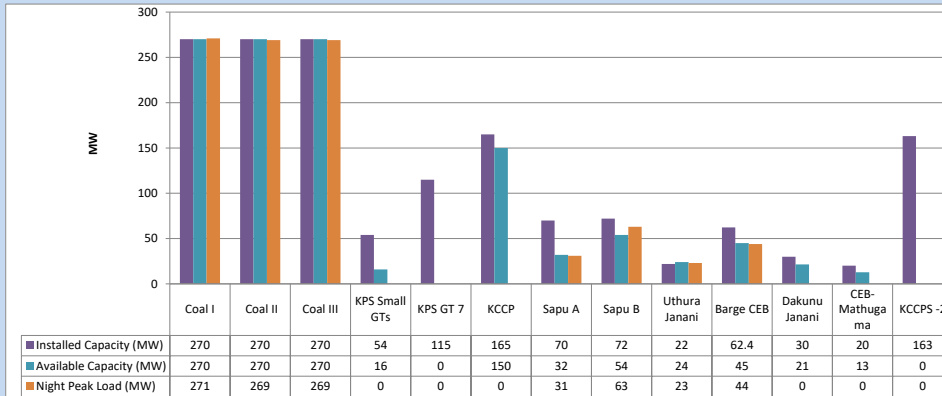


Available Generation is estimated based on plant availability at 6.00am on

August 21, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 20, 2024

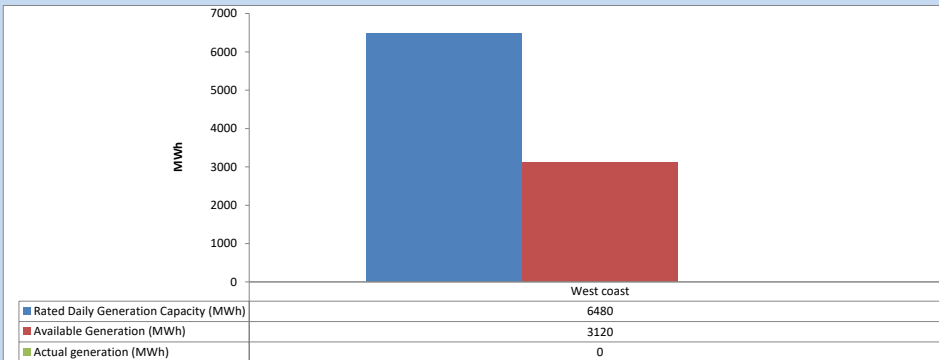


Plant availability is recorded at 6.00 am on

August 21, 2024

1.4 IPP owned Thermal Plant Dispatch

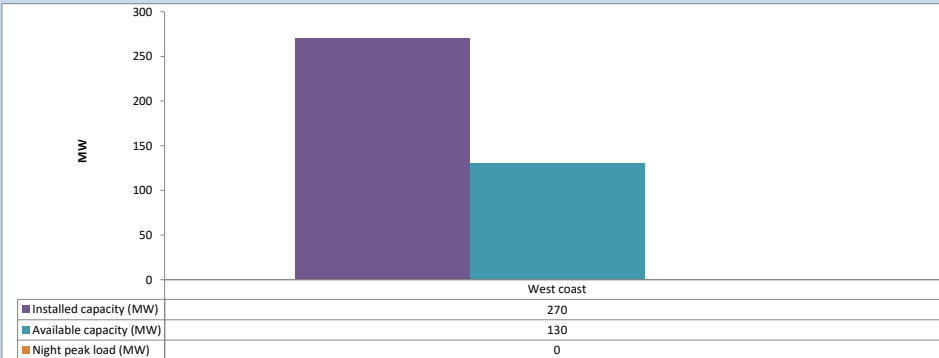
August 20, 2024



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

August 21, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

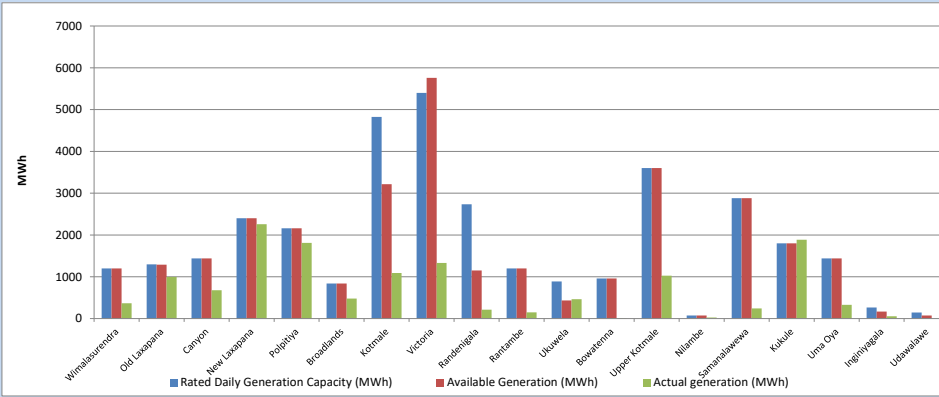


Plant availability is recorded at 6.00 am on

August 21, 2024

1.6 Major Hydro Plant Dispatch

August 20, 2024

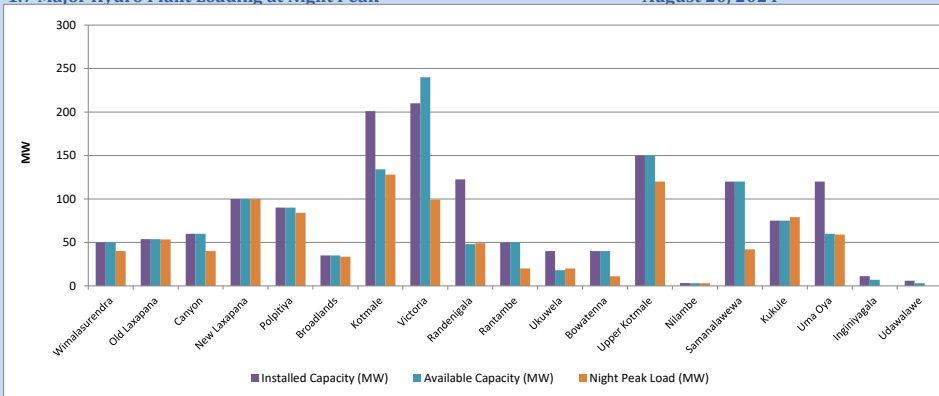


Available Generation is estimated based on plant availability at 6.00am on

August 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 20, 2024



Plant availability is recorded at 6.00 am on

August 21, 2024

1.8 Summary of Major Plant performance

August 20, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	365
Old Laxapana	54	54	54	998
Canyon	60	60	40	676
New Laxapana	100	100	100	2,258
Polpitiya	90	90	84	1,810
Broadlands	35	35	34	477
Kotmale	201	134	128	1,090
Victoria	210	240	99	1,330
Randenigala	123	48	49	214
Rantambe	50	50	20	147
Ukuwela	40	18	20	462
Bowatenna	40	40	11	10
Upper Kotmale	150	150	120	1,028
Nilambe	3	3	3	26
Samanalawewa	120	120	42	243
Kukule	75	75	79	1,885
Uma Oya	120	60	59	327
Inginipigala	11	7	0	56
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	5,965
Puttalam Coal II	270	270	269	6,278
Puttalam Coal III	270	270	269	6,032
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	31	432
Sapugaskanda B	72	54	63	886
Uthura Janani	22	24	23	327
Barge CEB	62	45	44	751
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	130	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,632	2,294	41,594

Note-

Plant availability is the availability recorded at 6 am on

August 21, 2024

1.9 Contribution to the Night Peak in MW

August 20, 2024

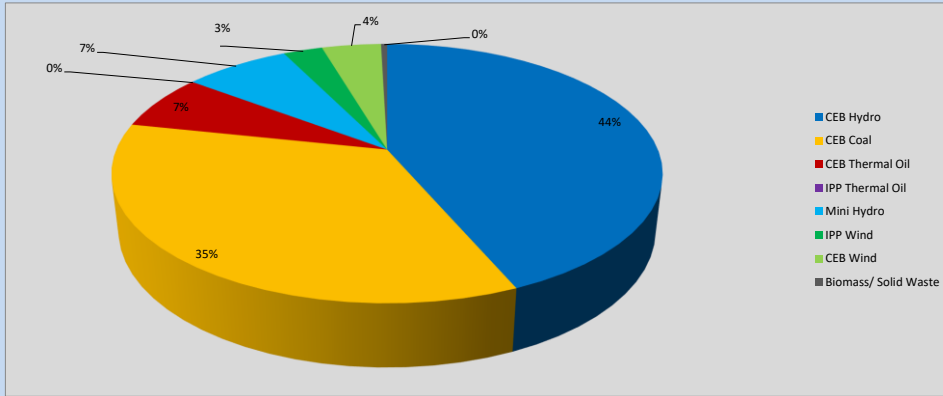


Table 05

CEB Hydro	1012	MW
CEB Coal	809	MW
CEB Thermal Oil	161	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	172	MW
IPP Wind	64.1	MW
CEB Wind	96.6	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

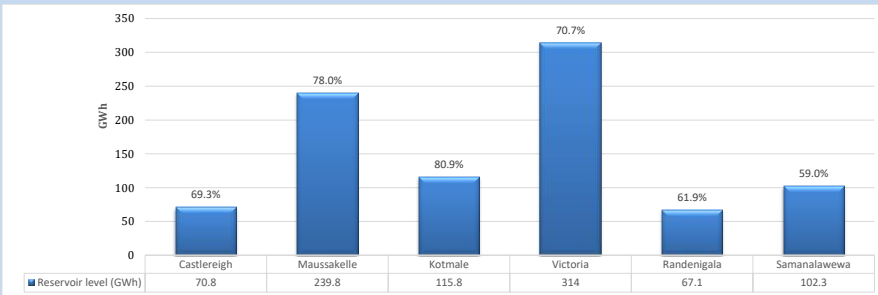
Table 06

Night Peak*	2,325	MW
Day Peak Maximum Demand	2,116	MW
Day Peak Minimum Demand	1,607	MW
Off Peak Minimum Demand	1,211	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 21, 2024



Total Reservoir Level: 909.8 GWh
 % of Total capacity: 71.2%

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

August 20, 2024

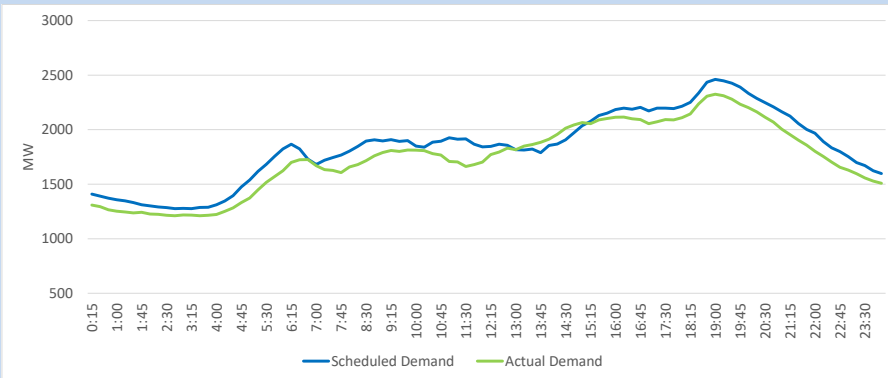
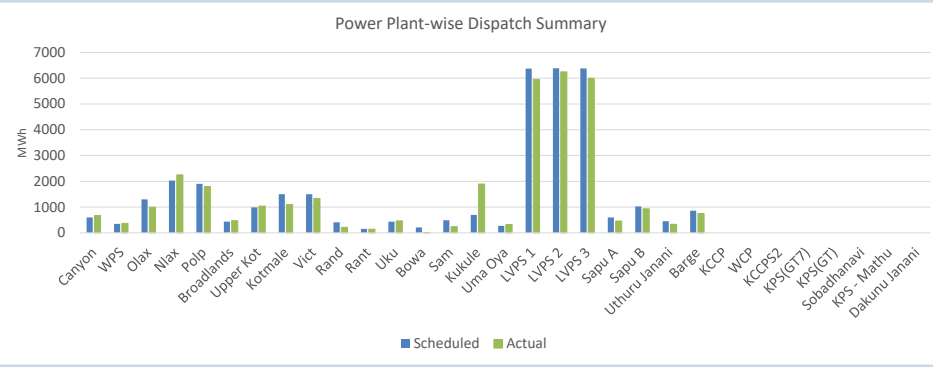


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,245	13,305	60
CEB Coal	19,133	18,199	(934)
CEB Thermal Oil	2,930	2,463	(467)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,848	7,856	(992)
Total	44,156	41,823	-2333

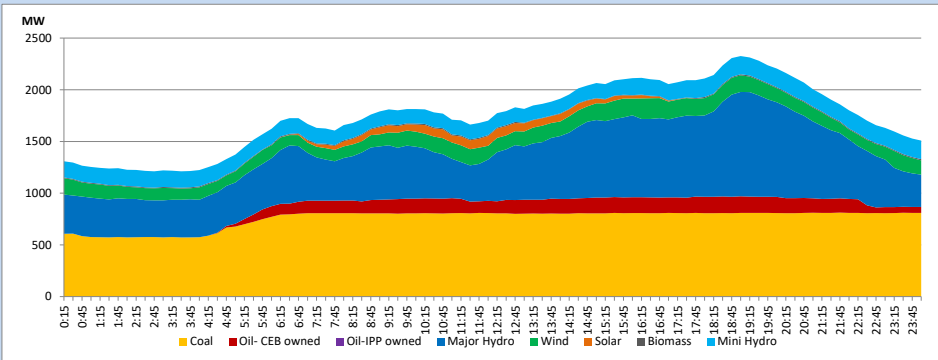
1.12 Power Plant-wise Dispatch Summary

August 20, 2024



1.13 Daily Load Curve

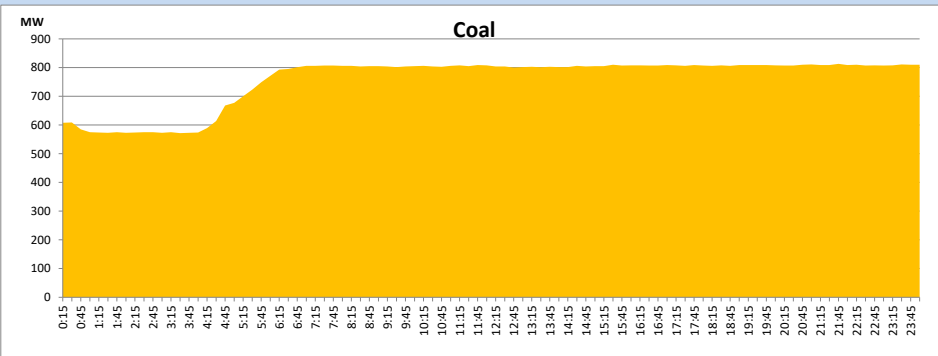
August 20, 2024



Solar and wind data is based on Telemetered Power Stations only

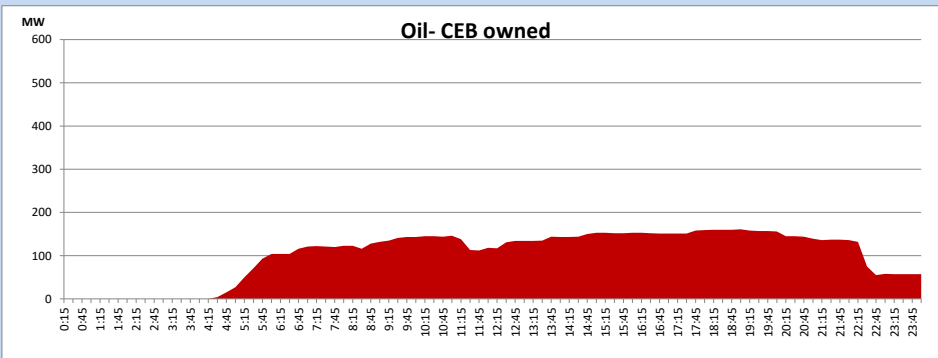
Coal Generation during

August 20, 2024

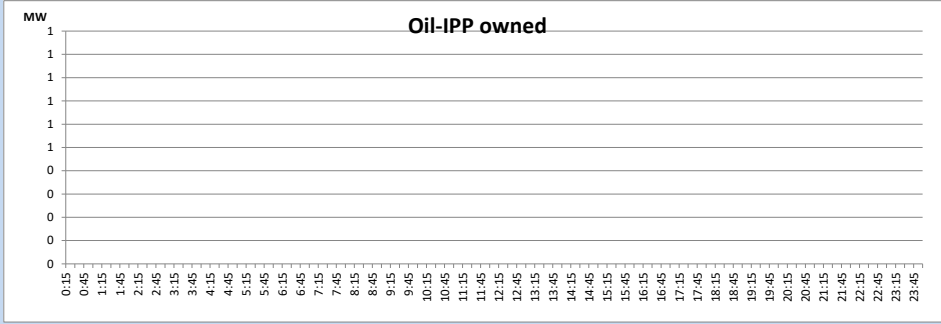


CEB Oil Plant Generation during

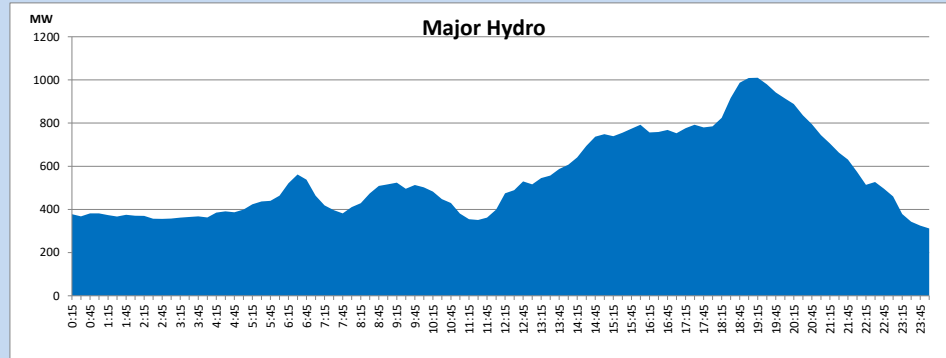
August 20, 2024



IPP Oil Plant Generation during August 20, 2024

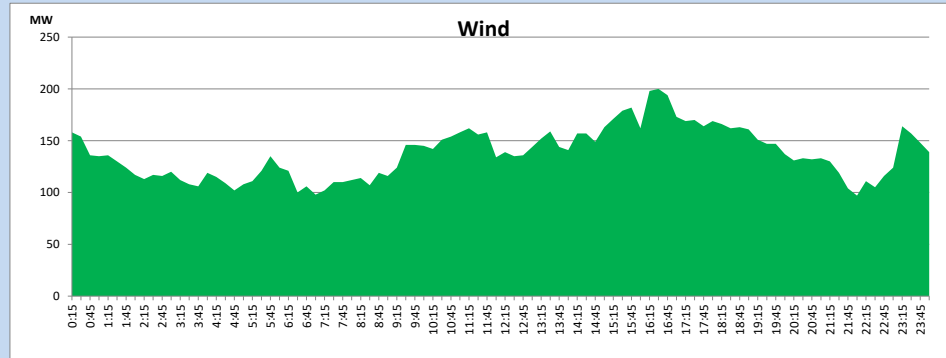


Major Hydro Generation during August 20, 2024



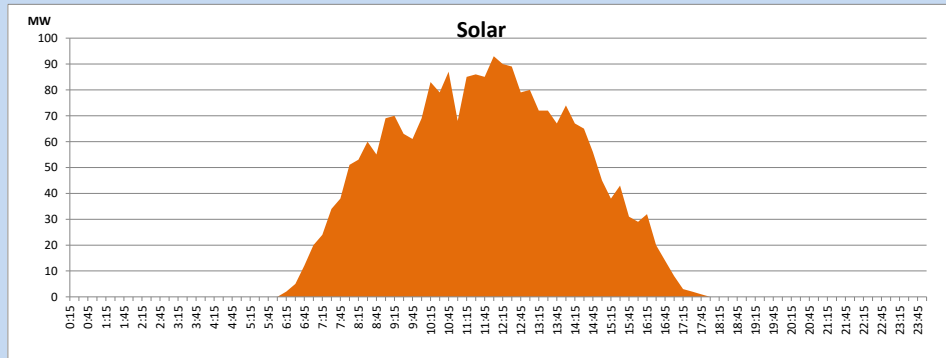
Wind Generation during August 20, 2024

Based on Telemetered Power Stations only



Solar Generation during August 20, 2024

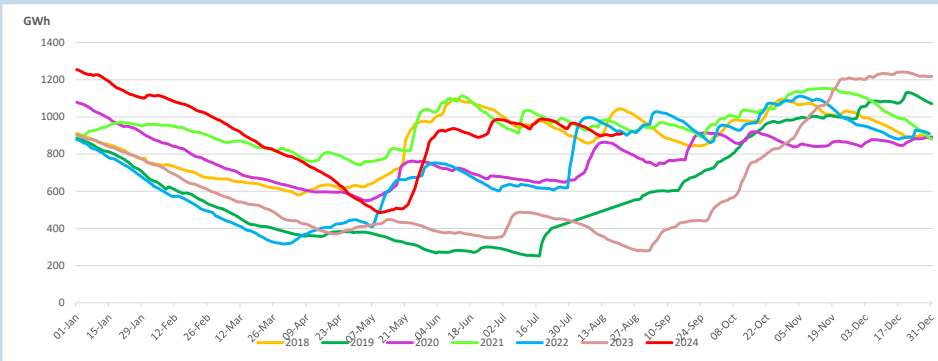
Based on Telemetered Power Stations only



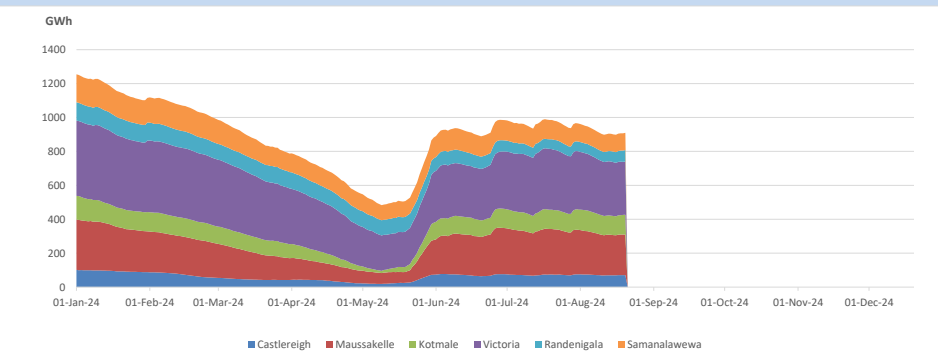
1.14 Major Incidents reported during the day August 20, 2024

- 1) Kukule pond spilling continues to the present hour.

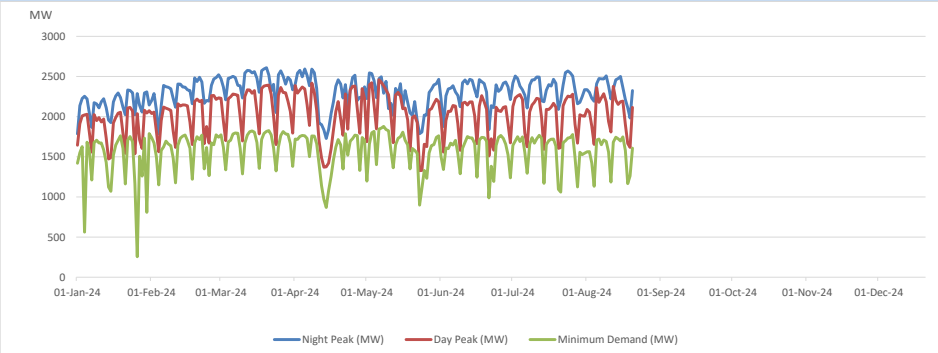
2. Comparison of Total Reservoir Storage Levels with Past Years



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

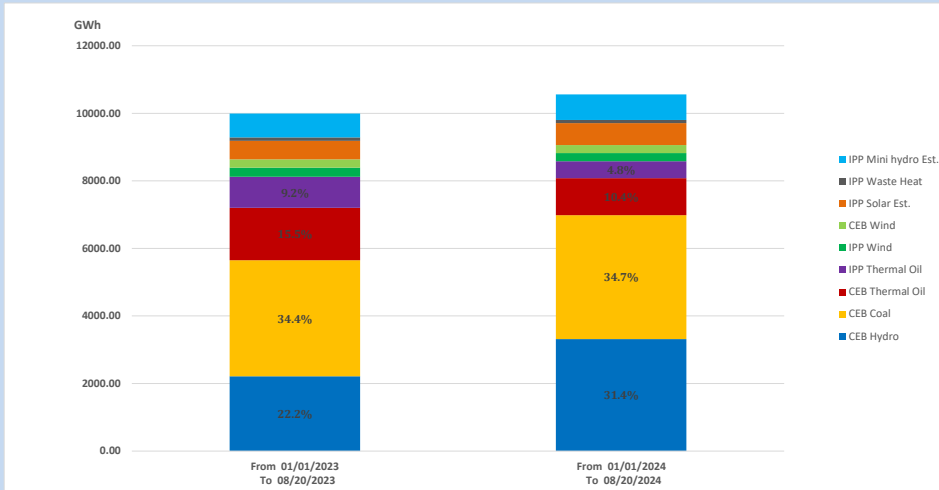


4. Variation of Demand during the current year



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 08/20/2023

9994 GWh

From 01/01/2024 To 08/20/2024

10560 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]