

Generation and Reservoirs Statistics

August 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 19, 2024

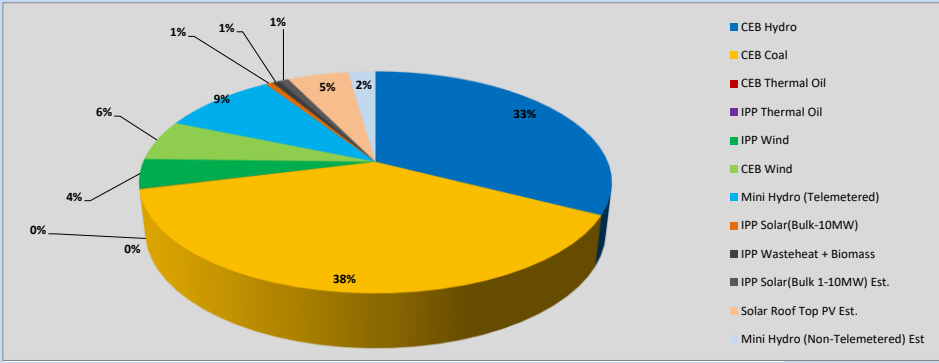


Table 01

	Generation (MWh)
CEB Hydro	12536
CEB Coal	14841
CEB Thermal Oil	12
IPP Thermal Oil	0
IPP Wind	1661
CEB Wind	2271
Mini Hydro (Telemetered)	3653
IPP Solar (Bulk)	226
IPP Waste heat + Biomass	227
Total Generation (Excluding estimated figures)	35,427
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	867
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	38,518

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	290	33.51%
CEB Coal	276	31.90%
CEB Thermal Oil	108	12.46%
IPP Thermal	27	3.07%
SPP Wind	21	2.40%
CEB Wind	23	2.72%
Mini Hydro *	66	7.66%
IPP Solar *	49	5.61%
IPP Waste heat + BMP	6	0.67%
Total	864	

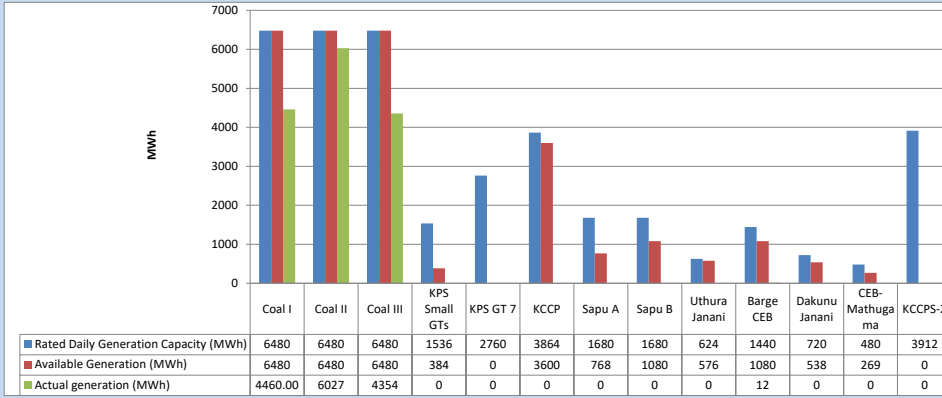
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,303	31.41%
CEB Coal	3,651	34.72%
CEB Thermal Oil	1,091	10.38%
IPP Thermal	502	4.78%
SPP Wind	239	2.27%
CEB Wind	238	2.27%
Mini Hydro *	753	7.16%
IPP Solar *	644	6.12%
IPP Waste heat	95	0.90%
Total	10,515	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 19, 2024

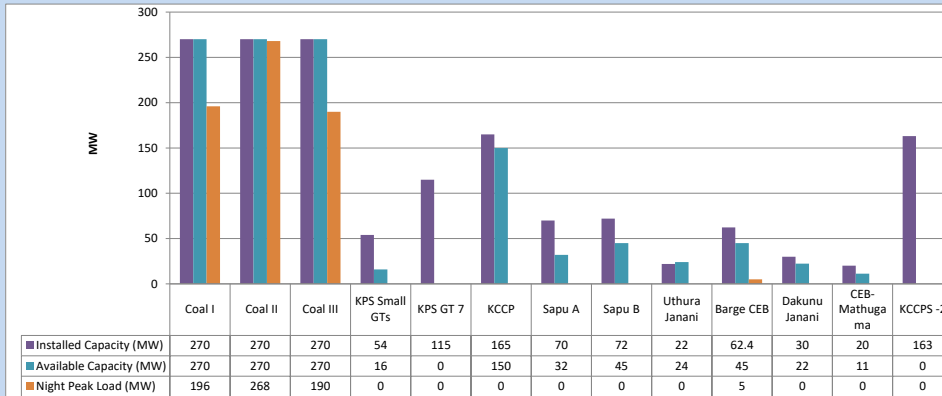


Available Generation is estimated based on plant availability at 6.00am on

August 20, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 19, 2024

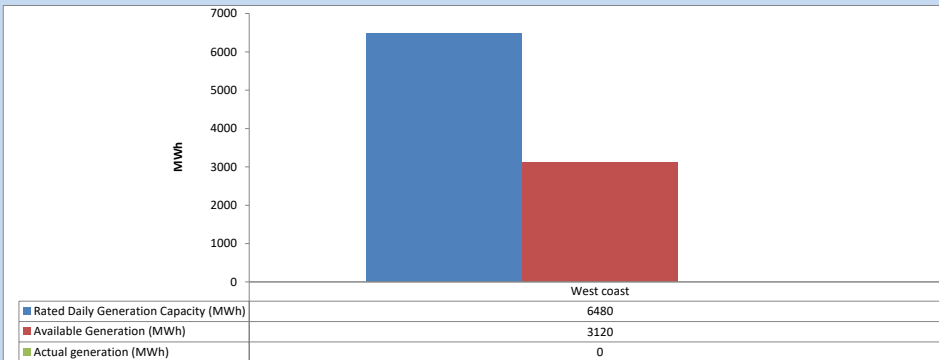


Plant availability is recorded at 6.00 am on

August 20, 2024

1.4 IPP owned Thermal Plant Dispatch

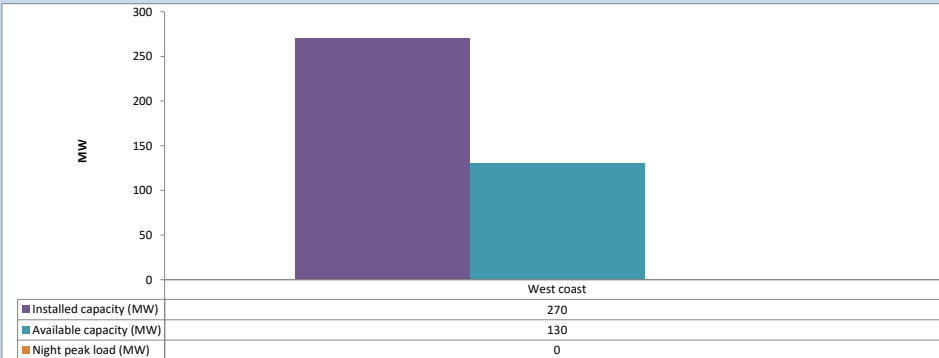
August 19, 2024



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

August 20, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

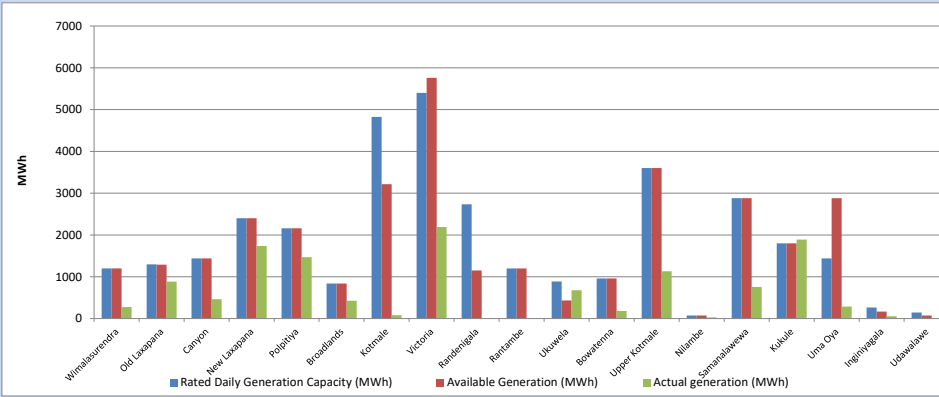


Plant availability is recorded at 6.00 am on

August 20, 2024

1.6 Major Hydro Plant Dispatch

August 19, 2024

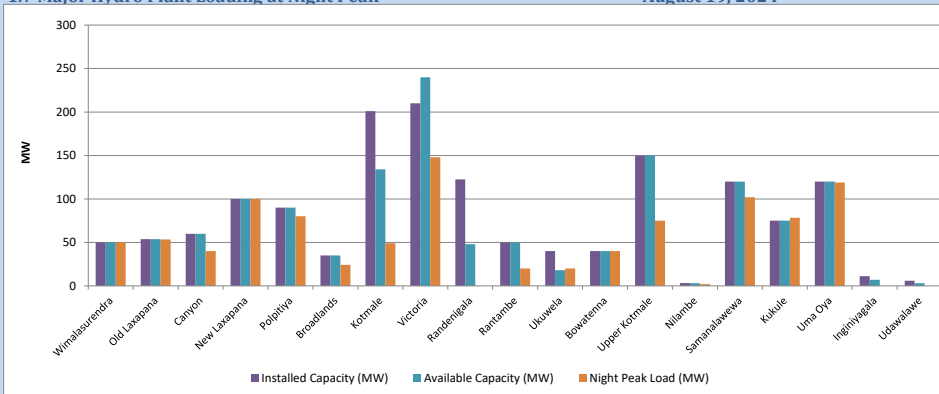


Available Generation is estimated based on plant availability at 6.00am on

August 20, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 19, 2024



Plant availability is recorded at 6.00 am on

August 20, 2024

1.8 Summary of Major Plant performance

August 19, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	276
Old Laxapana	54	54	53	884
Canyon	60	60	40	463
New Laxapana	100	100	100	1,737
Polpitiya	90	90	80	1,470
Broadlands	35	35	24	425
Kotmale	201	134	49	80
Victoria	210	240	148	2,190
Randenigala	123	48	0	0
Rantambe	50	50	20	0
Ukuwela	40	18	20	677
Bowatenna	40	40	40	184
Upper Kotmale	150	150	75	1,130
Nilambe	3	3	2	30
Samanalawewa	120	120	102	756
Kukule	75	75	78	1,891
Uma Oya	120	120	119	288
Inginiyagala	11	7	0	56
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	196	4,460
Puttalam Coal II	270	270	268	6,027
Puttalam Coal III	270	270	190	4,354
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	22	24	0	0
Barge CEB	62	45	5	12
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	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
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,683	2,004	35,428

Note-

Plant availability is the availability recorded at 6 am on

August 20, 2024

1.9 Contribution to the Night Peak in MW

August 19, 2024

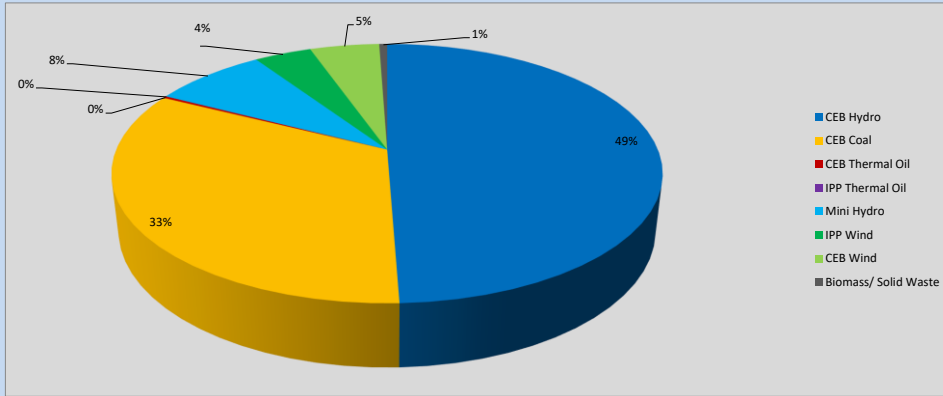


Table 05

CEB Hydro	980 MW
CEB Coal	654 MW
CEB Thermal Oil	5 MW
IPP Thermal Oil	0 MW
Mini Hydro (Telemetered)	157 MW
IPP Wind	79.5 MW
CEB Wind	96.6 MW
Biomass/ Solid Waste	11 MW

Recorded Peak Demand Data

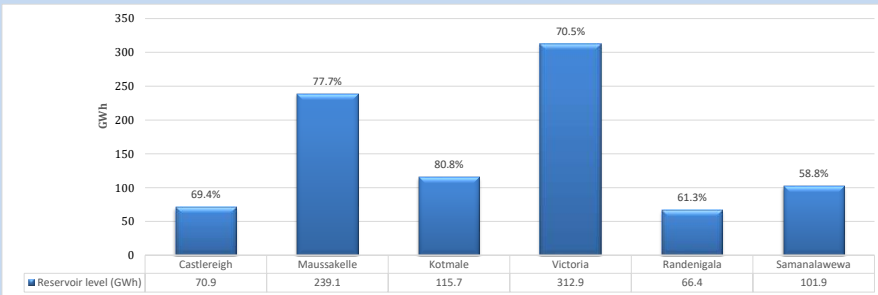
Table 06

Night Peak*	1,984 MW
Day Peak Maximum Demand	1,617 MW
Day Peak Minimum Demand	1,261 MW
Off Peak Minimum Demand	1,299 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 20, 2024



Total Reservoir Level
906.9 GWh
% of Total capacity
70.9%

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

August 19, 2024

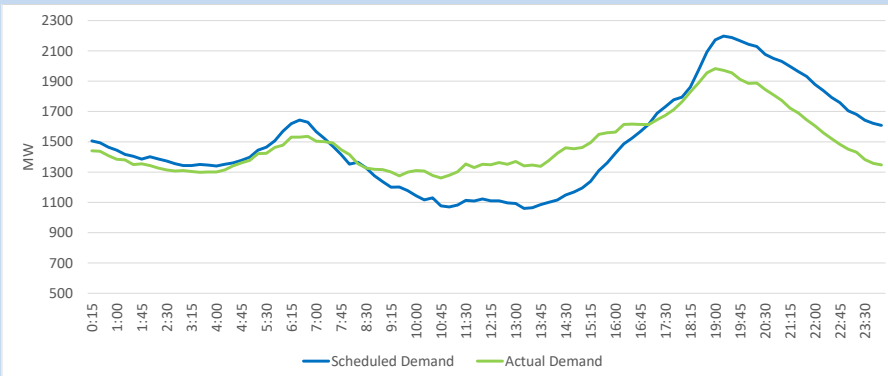
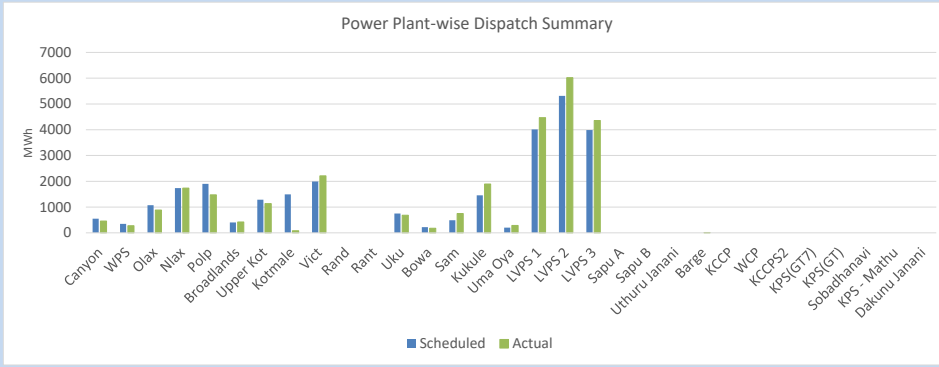


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,892	12,453	(1,439)
CEB Coal	13,316	14,847	1,531
CEB Thermal Oil	-	10	10
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,583	8,342	(241)
Total	35,791	35,652	-139

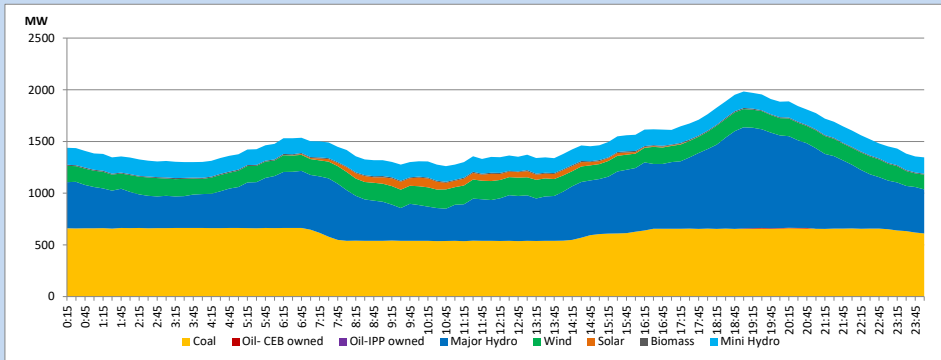
1.12 Power Plant-wise Dispatch Summary

August 19, 2024



1.13 Daily Load Curve

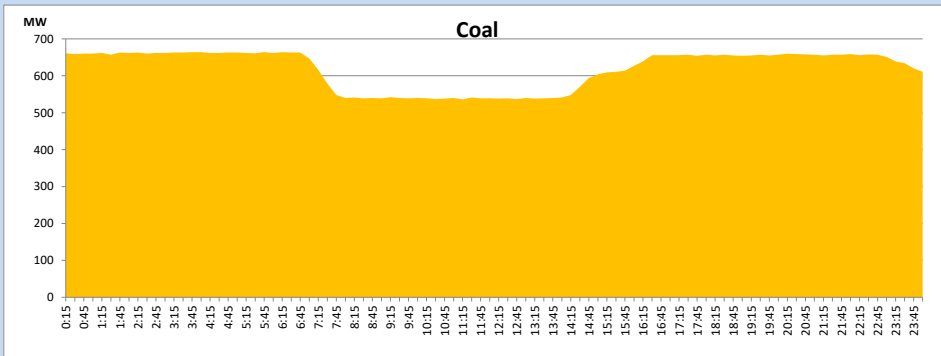
August 19, 2024



Solar and wind data is based on Telemetered Power Stations only

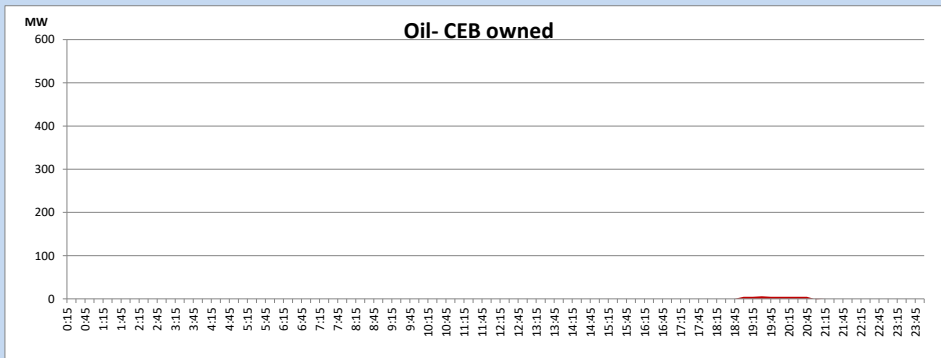
Coal Generation during

August 19, 2024

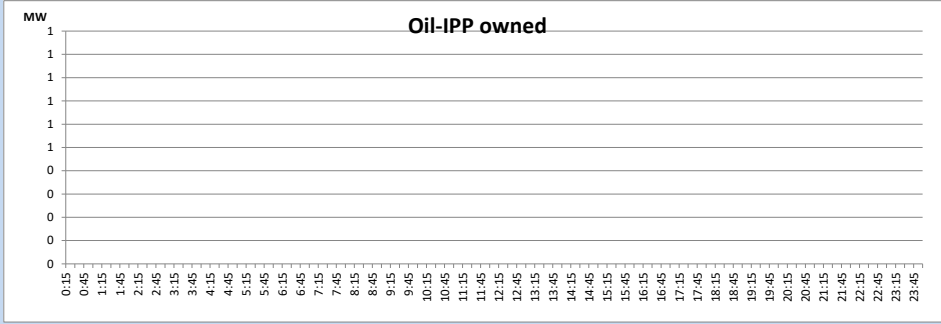


CEB Oil Plant Generation during

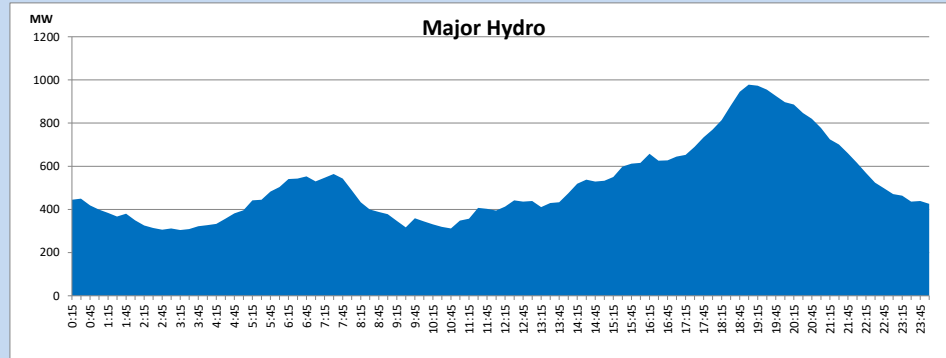
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IPP Oil Plant Generation during August 19, 2024

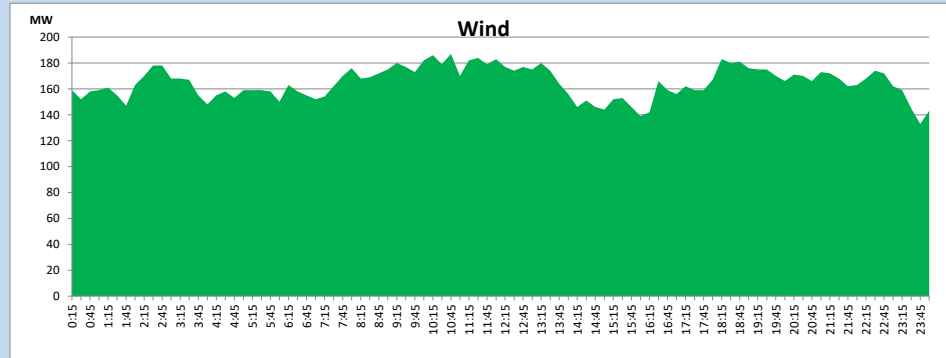


Major Hydro Generation during August 19, 2024



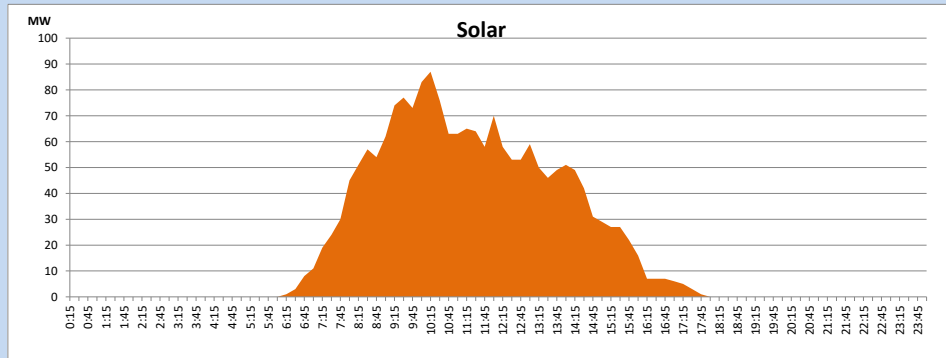
Wind Generation during August 19, 2024

Based on Telemetered Power Stations only



Solar Generation during August 19, 2024

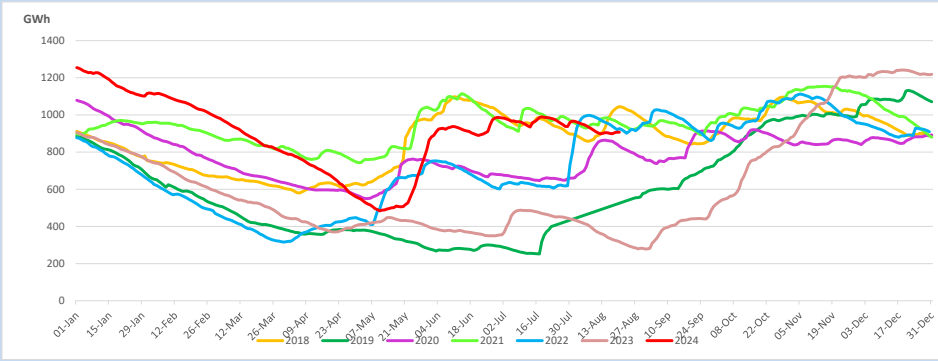
Based on Telemetered Power Stations only



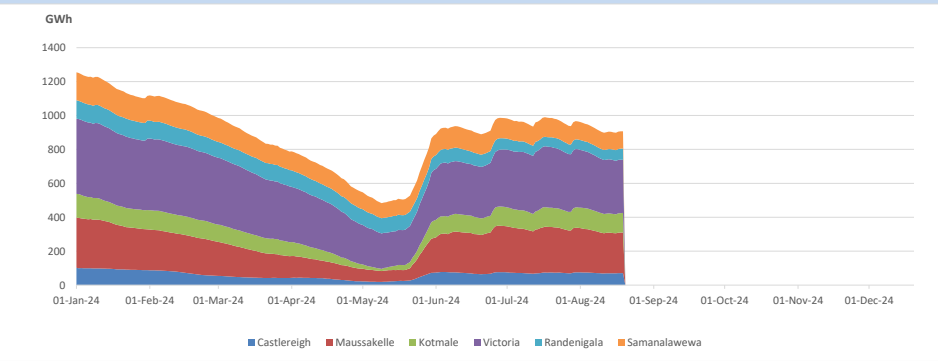
1.14 Major Incidents reported during the day August 19, 2024

- 1) Katunayake - Kotugoda 132kV cct 01 tripped and A/R from Katunayake end at 16:30hrs due to the operation of differential protection (The cct had been manually switched off at Kotugoda end as per the system requirement).
- 2) Kukule pond spilling continues to the present hour.

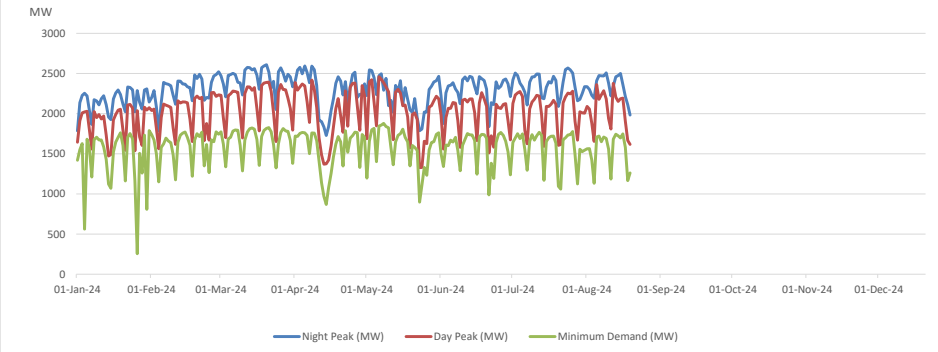
2. Comparison of Total Reservoir Storage Levels with Past Years



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

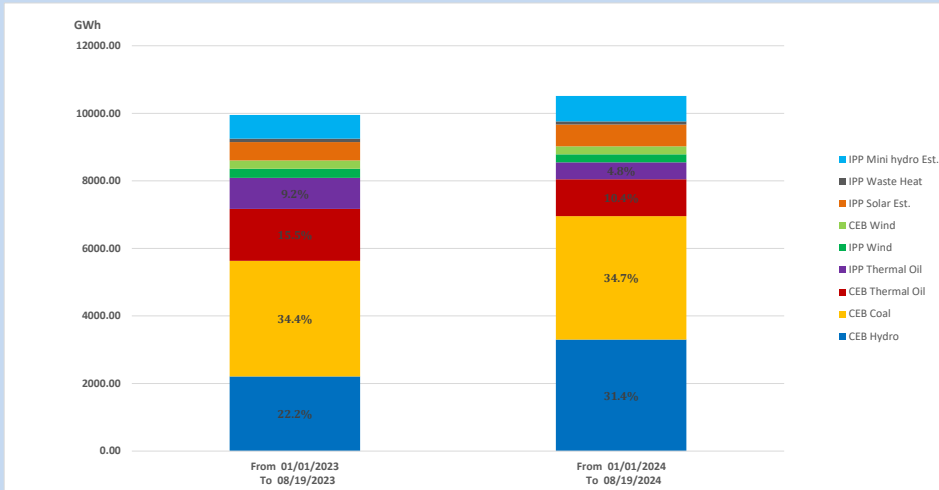


4. Variation of Demand during the current year



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 08/19/2023

9953 GWh

From 01/01/2024 To 08/19/2024

10515 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]