

Generation and Reservoirs Statistics

August 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 21, 2024

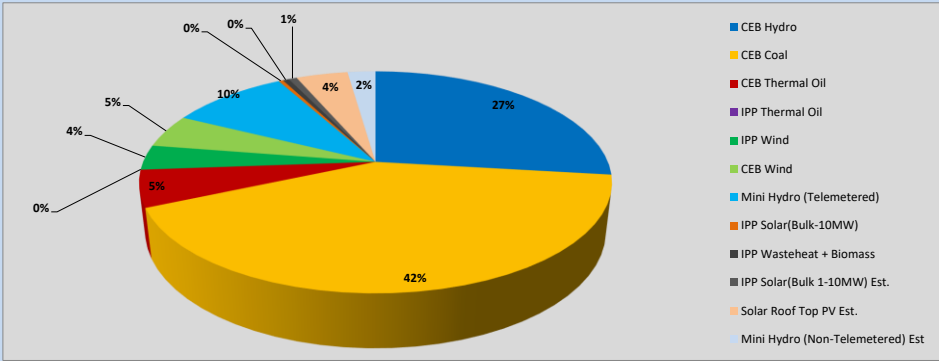


Table 01

	Generation (MWh)
CEB Hydro	12183
CEB Coal	18877
CEB Thermal Oil	2435
IPP Thermal Oil	0
IPP Wind	1646
CEB Wind	2199
Mini Hydro (Telemetered)	4361
IPP Solar (Bulk)	166
IPP Waste heat + Biomass	230
Total Generation (Excluding estimated figures)	42,097
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1035
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	45,356

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	315	33.02%
CEB Coal	313	32.78%
CEB Thermal Oil	113	11.79%
IPP Thermal	27	2.78%
SPP Wind	24	2.48%
CEB Wind	28	2.91%
Mini Hydro *	76	7.98%
IPP Solar *	53	5.60%
IPP Waste heat + BMP	6	0.65%
Total	954	

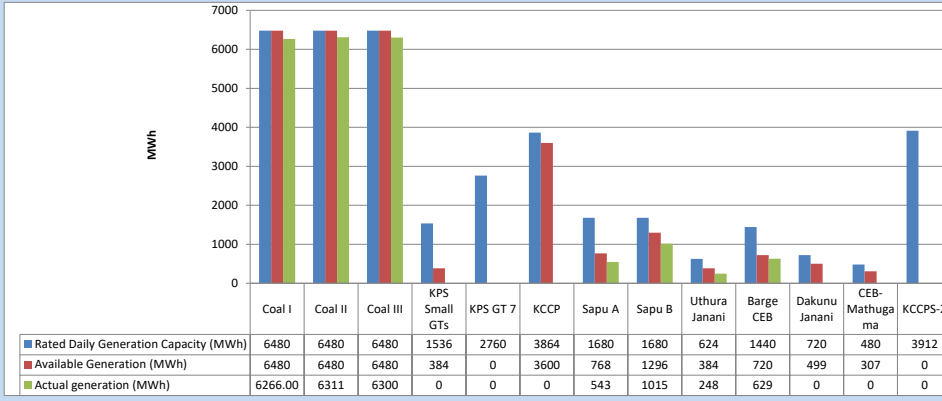
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,329	31.39%
CEB Coal	3,688	34.77%
CEB Thermal Oil	1,096	10.33%
IPP Thermal	502	4.74%
SPP Wind	242	2.28%
CEB Wind	243	2.29%
Mini Hydro *	763	7.19%
IPP Solar *	648	6.11%
IPP Waste heat	95	0.90%
Total	10,606	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 21, 2024

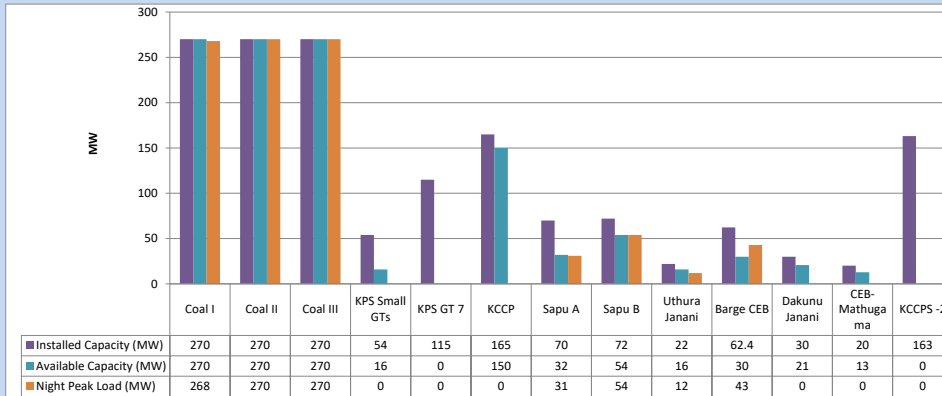


Available Generation is estimated based on plant availability at 6.00am on

August 22, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 21, 2024

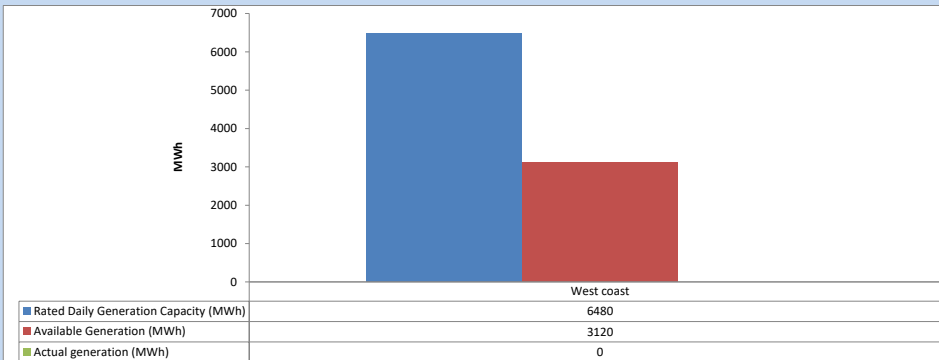


Plant availability is recorded at 6.00 am on

August 22, 2024

1.4 IPP owned Thermal Plant Dispatch

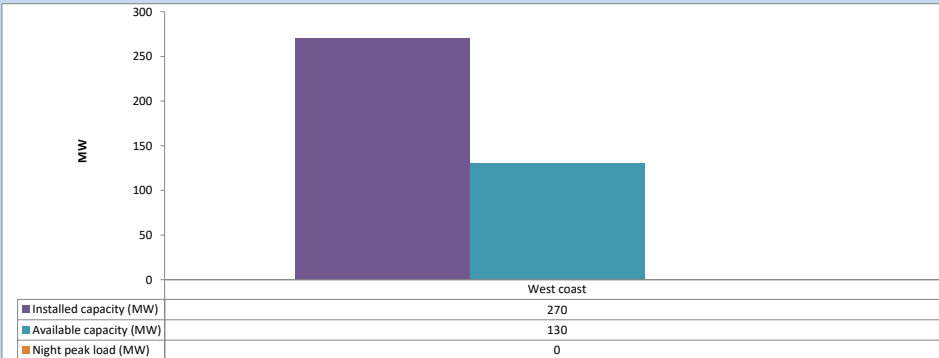
August 21, 2024



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

August 22, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

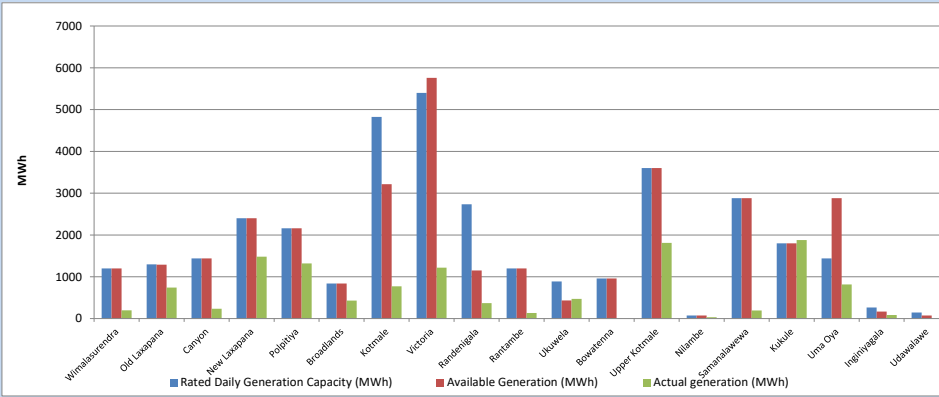


Plant availability is recorded at 6.00 am on

August 22, 2024

1.6 Major Hydro Plant Dispatch

August 21, 2024

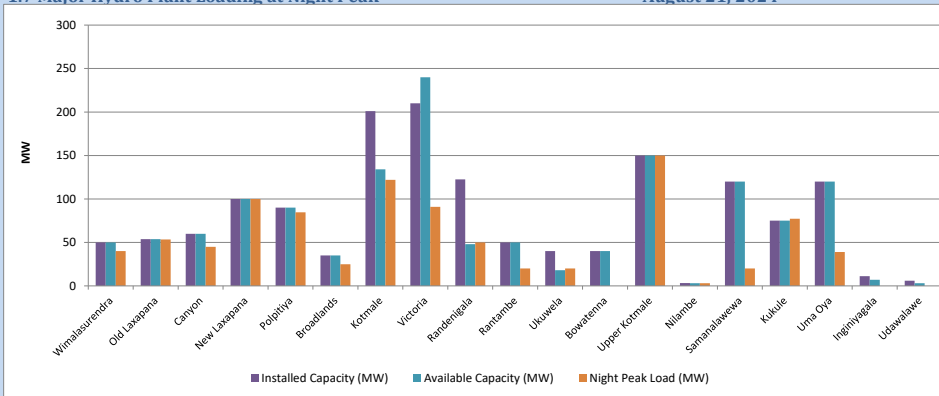


Available Generation is estimated based on plant availability at 6.00am on

August 22, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 21, 2024



Plant availability is recorded at 6.00 am on

August 22, 2024

1.8 Summary of Major Plant performance

August 21, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	198
Old Laxapana	54	54	53	742
Canyon	60	60	45	235
New Laxapana	100	100	100	1,479
Polpitiya	90	90	85	1,320
Broadlands	35	35	25	430
Kotmale	201	134	122	770
Victoria	210	240	91	1,218
Randenigala	123	48	50	369
Rantambe	50	50	20	134
Ukuwela	40	18	20	472
Bowatenna	40	40	0	0
Upper Kotmale	150	150	150	1,812
Nilambe	3	3	3	33
Samanalawewa	120	120	20	194
Kukule	75	75	77	1,877
Uma Oya	120	120	39	816
Inginipagala	11	7	0	85
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	268	6,266
Puttalam Coal II	270	270	270	6,311
Puttalam Coal III	270	270	270	6,300
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	31	543
Sapugaskanda B	72	54	54	1,015
Uthura Janani	22	16	12	248
Barge CEB	62	30	43	629
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	2,669	2,258	42,098

Note-

Plant availability is the availability recorded at 6 am on

August 22, 2024

1.9 Contribution to the Night Peak in MW

August 21, 2024

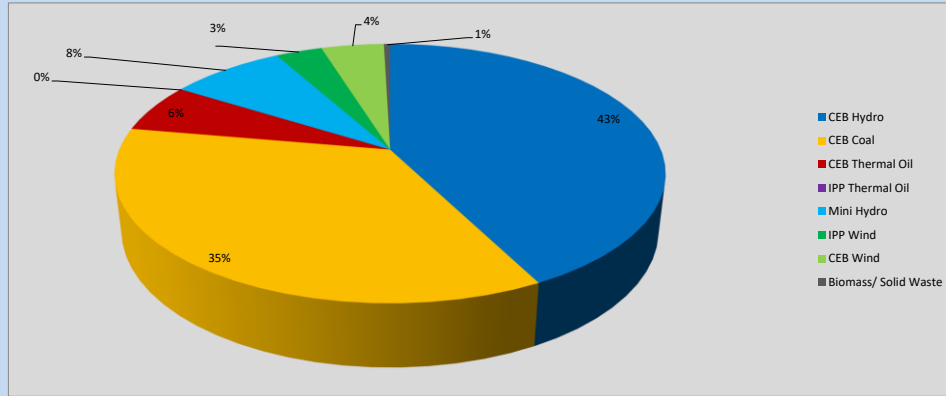


Table 05

CEB Hydro	971	MW
CEB Coal	808	MW
CEB Thermal Oil	140	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	184	MW
IPP Wind	74.8	MW
CEB Wind	100.7	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

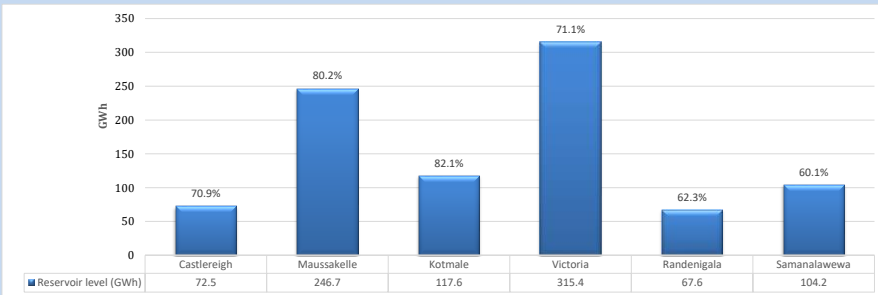
Table 06

Night Peak*	2,289	MW
Day Peak Maximum Demand	2,025	MW
Day Peak Minimum Demand	1,721	MW
Off Peak Minimum Demand	1,343	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 22, 2024



Total Reservoir Level
924 GWh
% of Total capacity
72.3%

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

August 21, 2024

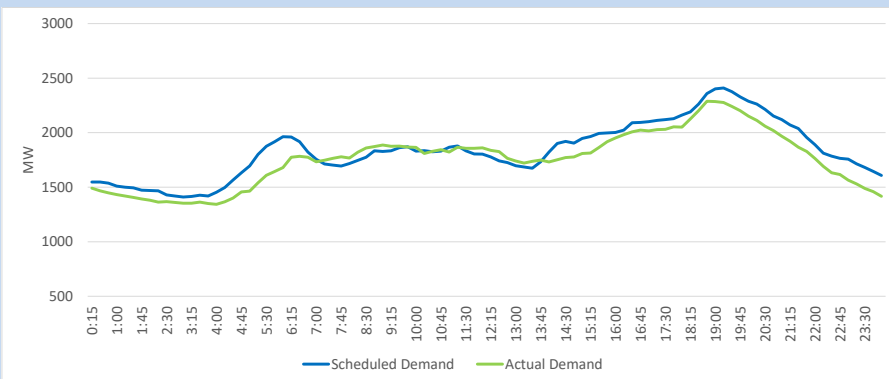
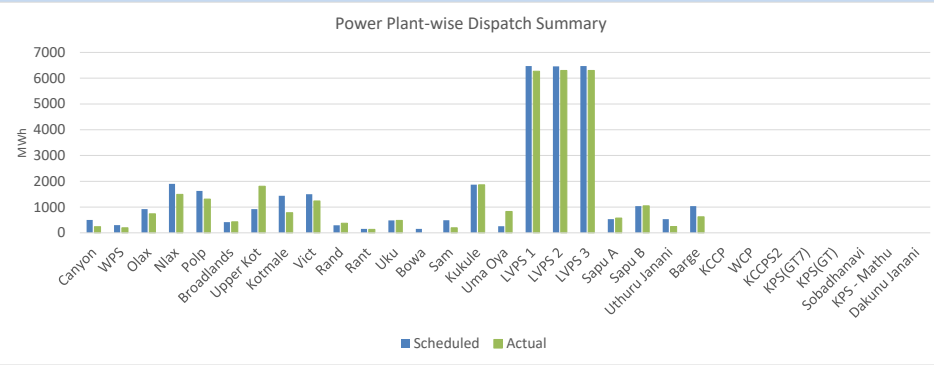


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,210	12,104	(1,106)
CEB Coal	19,400	18,868	(532)
CEB Thermal Oil	3,127	2,492	(635)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,363	8,757	394
Total	44,100	42,221	-1879

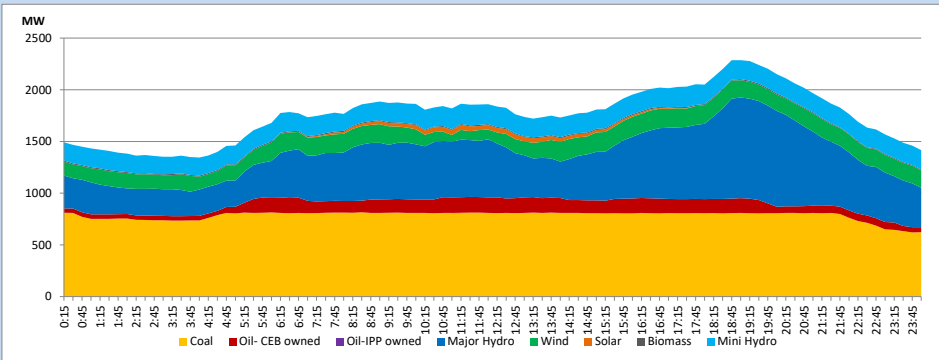
1.12 Power Plant-wise Dispatch Summary

August 21, 2024



1.13 Daily Load Curve

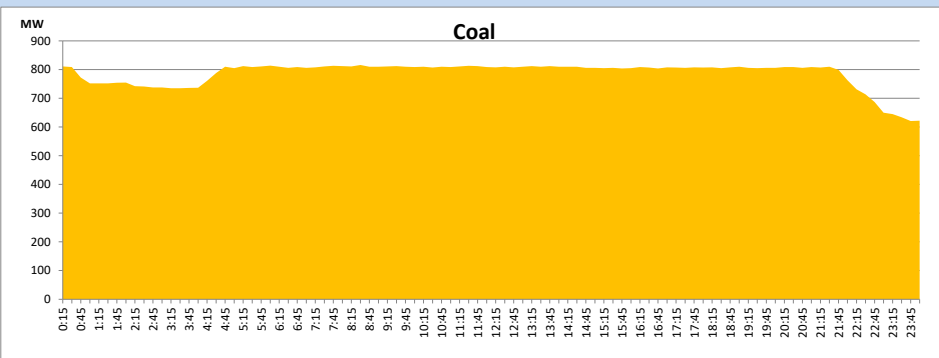
August 21, 2024



Solar and wind data is based on Telemetered Power Stations only

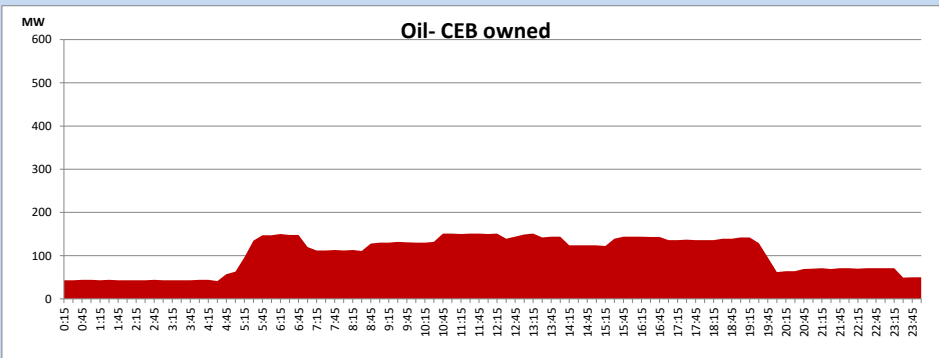
Coal Generation during

August 21, 2024



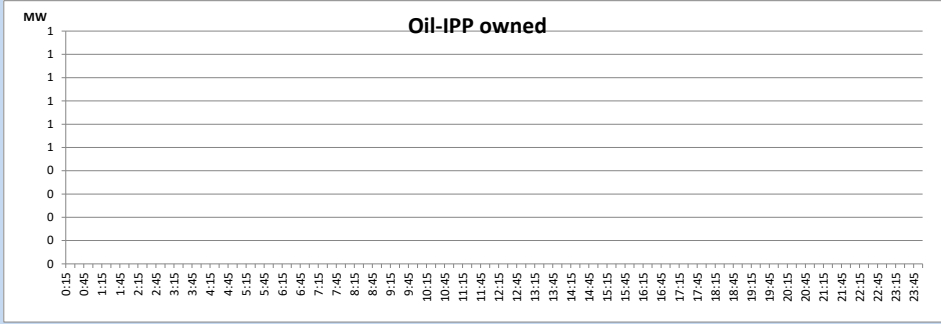
CEB Oil Plant Generation during

August 21, 2024



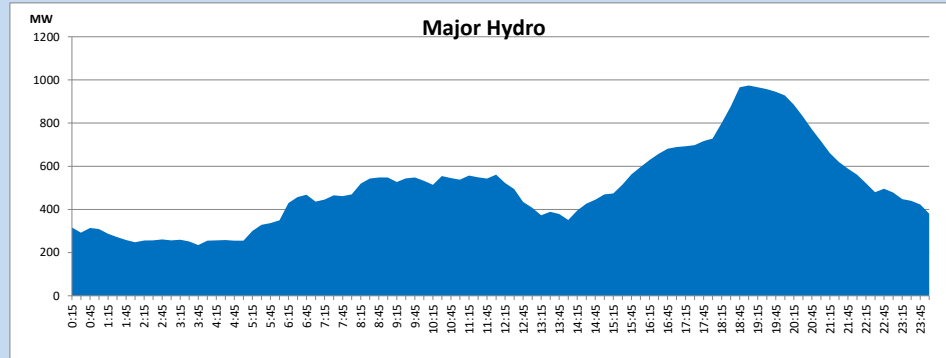
IPP Oil Plant Generation during

August 21, 2024



Major Hydro Generation during

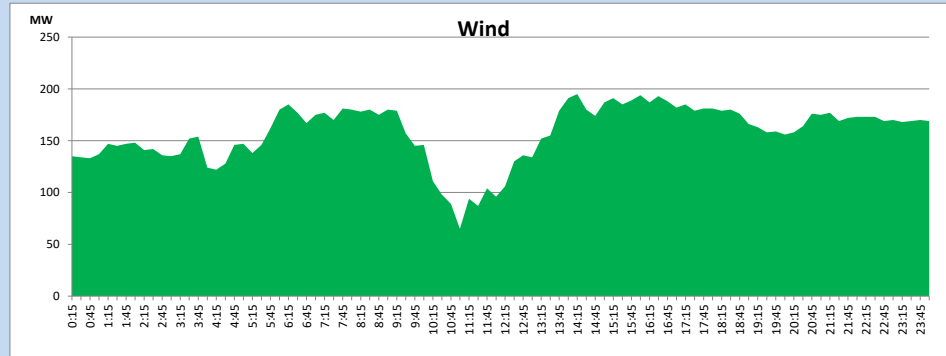
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Wind Generation during

August 21, 2024

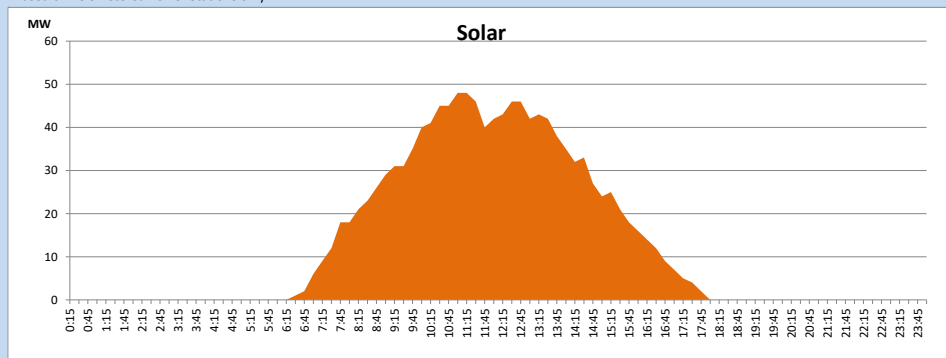
Based on Telemetered Power Stations only



Solar Generation during

August 21, 2024

Based on Telemetered Power Stations only

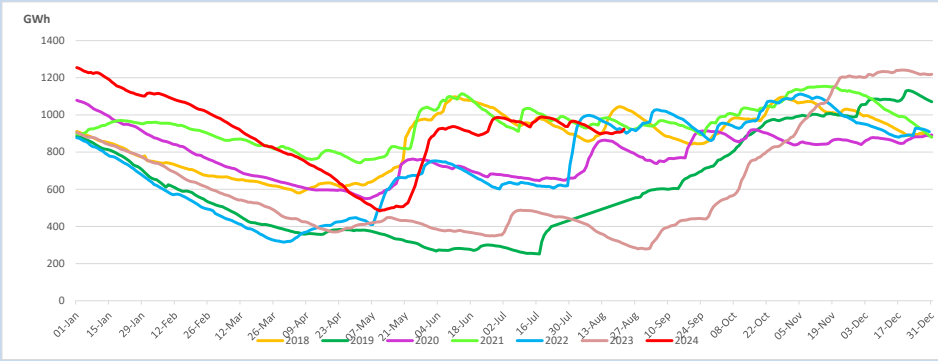


1.14 Major Incidents reported during the day

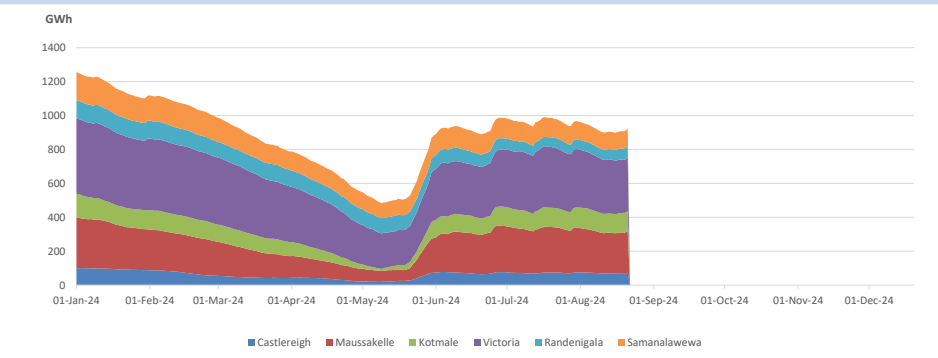
August 21, 2024

- 1) Polonnaruwa 132/33kV T/F 01 tripped from both ends at 15:52hrs , the T/F is normalized at 17:35hrs.
- 2) Kukule pond spilling continues to the present hour.

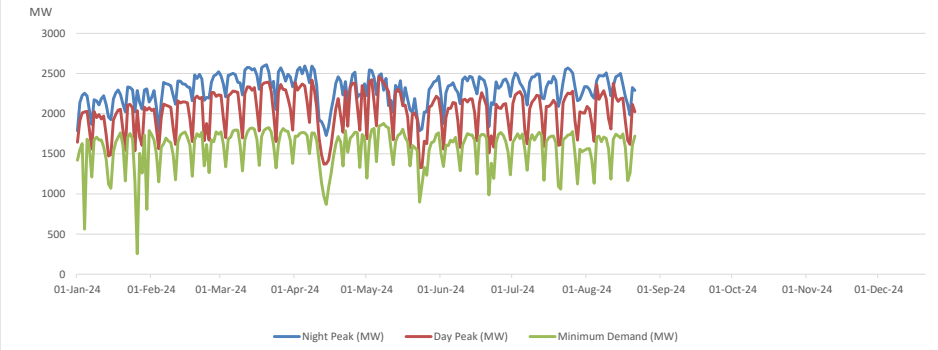
2. Comparison of Total Reservoir Storage Levels with Past Years



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

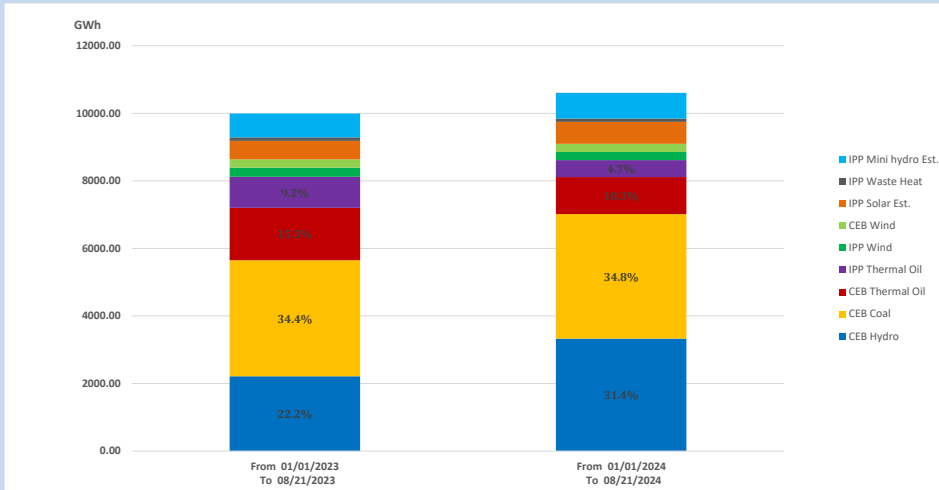


4. Variation of Demand during the current year



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 08/21/2023

9994 GWh

From 01/01/2024 To 08/21/2024

10606 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]