

Generation and Reservoirs Statistics

August 24, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 24, 2024

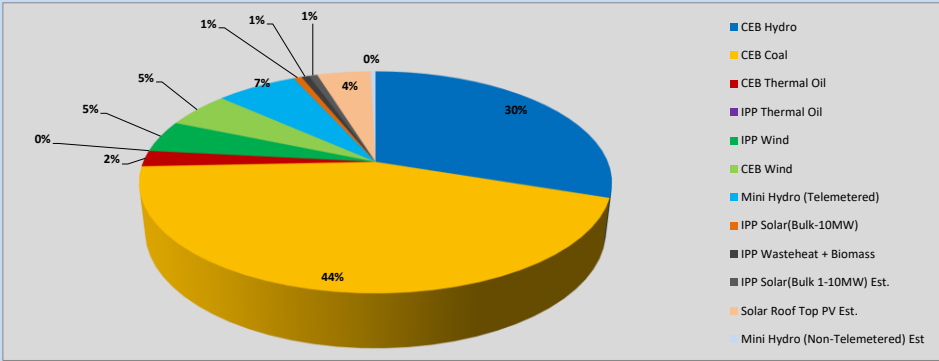


Table 01

	Generation (MWh)
CEB Hydro	13195
CEB Coal	19361
CEB Thermal Oil	1016
IPP Thermal Oil	0
IPP Wind	2046
CEB Wind	2311
Mini Hydro (Telemetered)	2902
IPP Solar (Bulk)	288
IPP Waste heat + Biomass	274
Total Generation (Excluding estimated figures)	41,393
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	175
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	43,792

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	356	32.66%
CEB Coal	370	33.94%
CEB Thermal Oil	119	10.95%
IPP Thermal	27	2.44%
SPP Wind	29	2.63%
CEB Wind	34	3.15%
Mini Hydro *	87	7.99%
IPP Solar *	61	5.59%
IPP Waste heat + BMP	7	0.65%
Total	1,089	

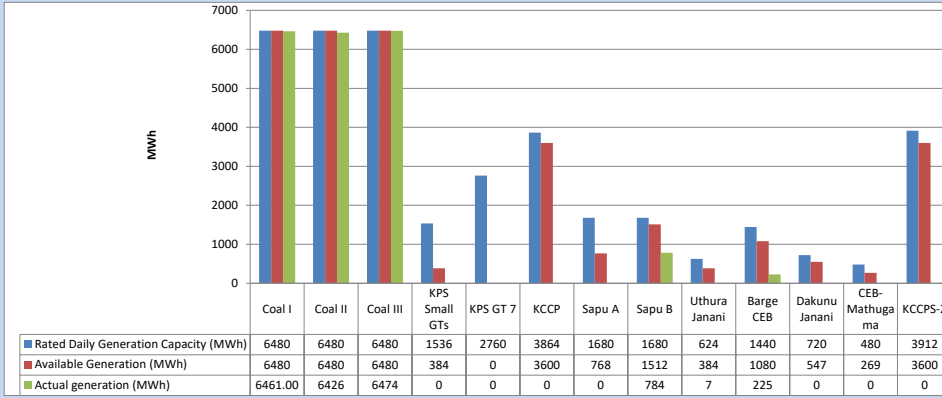
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,369	31.37%
CEB Coal	3,745	34.87%
CEB Thermal Oil	1,103	10.27%
IPP Thermal	502	4.68%
SPP Wind	246	2.29%
CEB Wind	249	2.32%
Mini Hydro *	774	7.21%
IPP Solar *	656	6.11%
IPP Waste heat	96	0.89%
Total	10,740	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 24, 2024

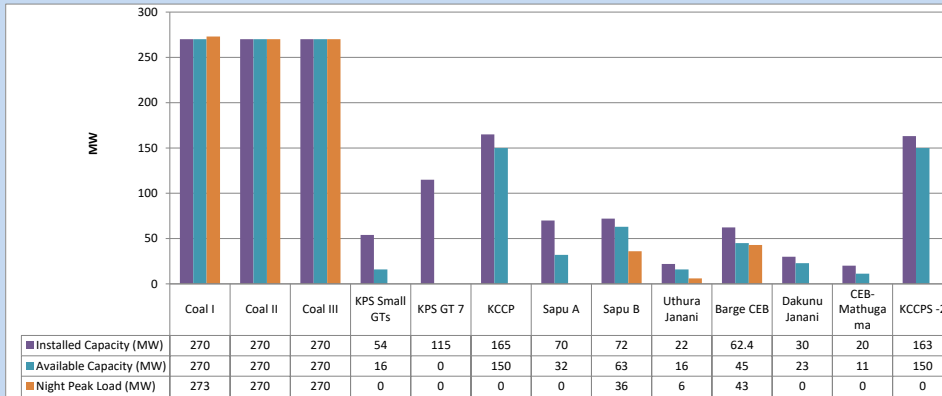


Available Generation is estimated based on plant availability at 6.00am on

August 25, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 24, 2024

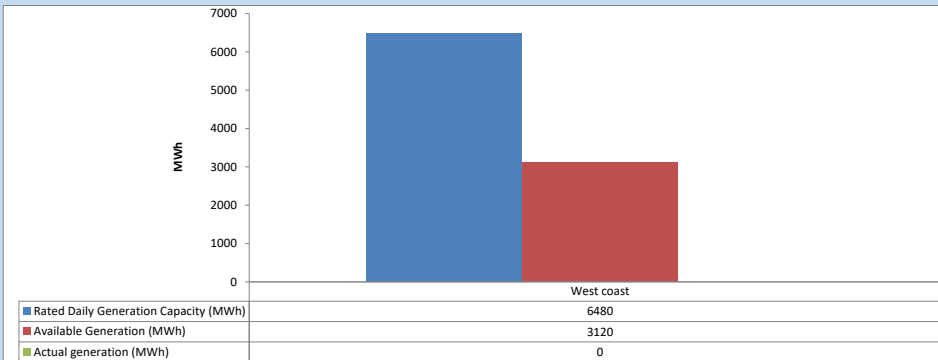


Plant availability is recorded at 6.00 am on

August 25, 2024

1.4 IPP owned Thermal Plant Dispatch

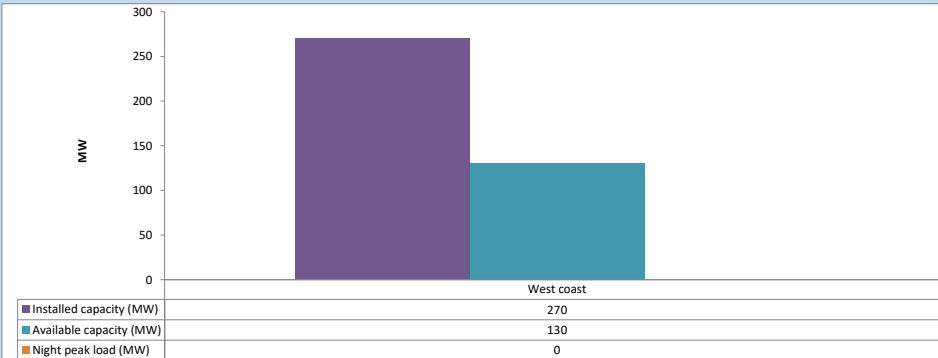
August 24, 2024



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

August 25, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

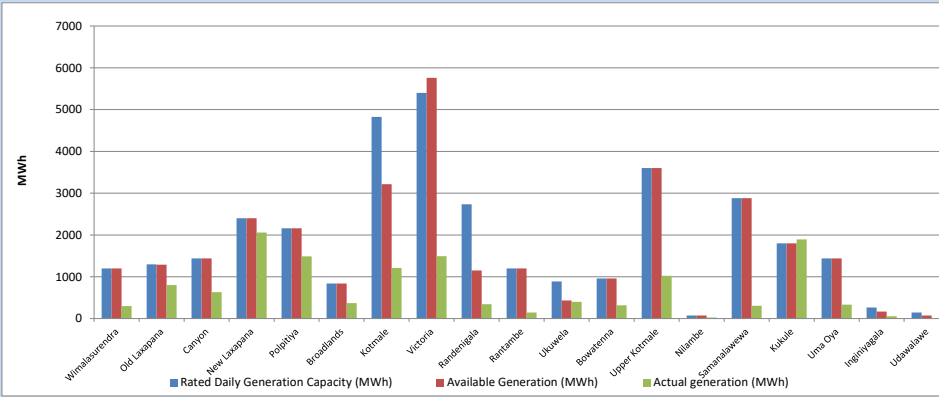


Plant availability is recorded at 6.00 am on

August 25, 2024

1.6 Major Hydro Plant Dispatch

August 24, 2024

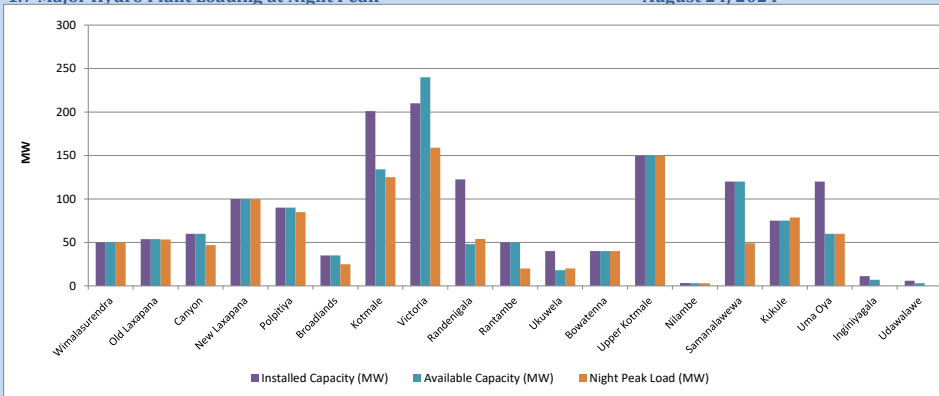


Available Generation is estimated based on plant availability at 6.00am on

August 25, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 24, 2024



Plant availability is recorded at 6.00 am on

August 25, 2024

1.8 Summary of Major Plant performance

August 24, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	299
Old Laxapana	54	54	53	800
Canyon	60	60	47	634
New Laxapana	100	100	100	2,060
Polpitiya	90	90	85	1,490
Broadlands	35	35	25	371
Kotmale	201	134	125	1,210
Victoria	210	240	159	1,493
Randenigala	123	48	54	343
Rantambe	50	50	20	144
Ukuwela	40	18	20	398
Bowatenna	40	40	40	319
Upper Kotmale	150	150	150	1,023
Nilambe	3	3	3	23
Samanalawewa	120	120	49	307
Kukule	75	75	79	1,893
Uma Oya	120	60	60	333
Inginipigala	11	7	0	55
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	273	6,461
Puttalam Coal II	270	270	270	6,426
Puttalam Coal III	270	270	270	6,474
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	63	36	784
Uthura Janani	22	16	6	7
Barge CEB	62	45	43	225
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	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	2,783	2,316	41,393

Note-

Plant availability is the availability recorded at 6 am on

August 25, 2024

1.9 Contribution to the Night Peak in MW

August 24, 2024

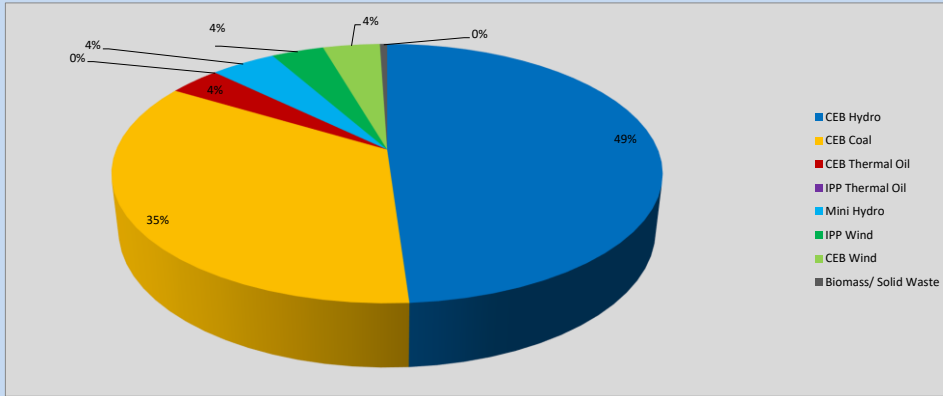


Table 05

CEB Hydro	1148	MW
CEB Coal	813	MW
CEB Thermal Oil	85	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	108	MW
IPP Wind	86.3	MW
CEB Wind	93.7	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

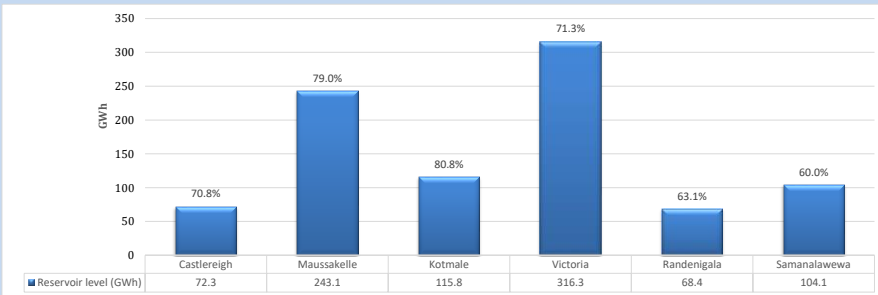
Table 06

Night Peak*	2,345	MW
Day Peak Maximum Demand	1,925	MW
Day Peak Minimum Demand	1,472	MW
Off Peak Minimum Demand	1,459	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 25, 2024



Total Reservoir Level: 920 GWh
% of Total capacity: 71.9%

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

August 24, 2024

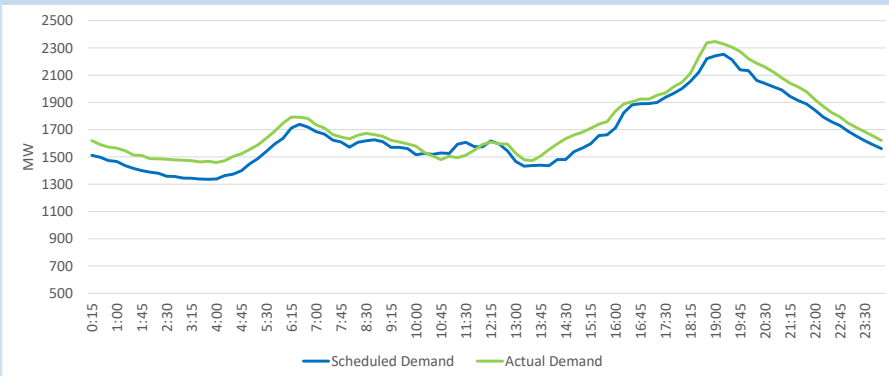
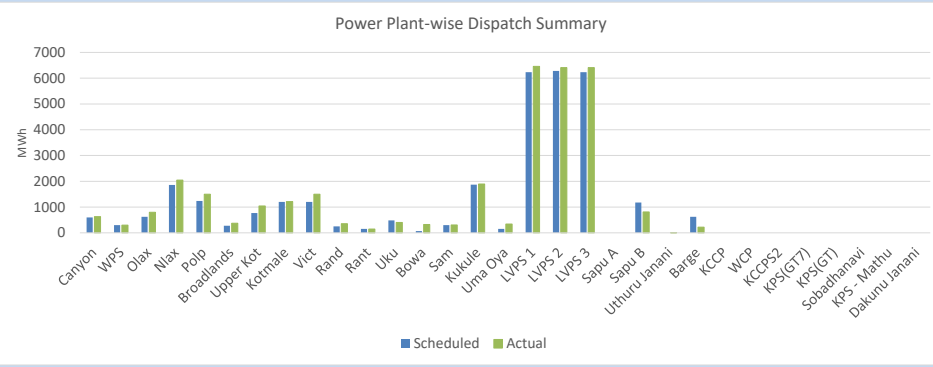


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,320	13,148	1,828
CEB Coal	18,751	19,280	529
CEB Thermal Oil	1,795	1,038	(758)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,909	8,041	132
Total	39,774	41,506	1732

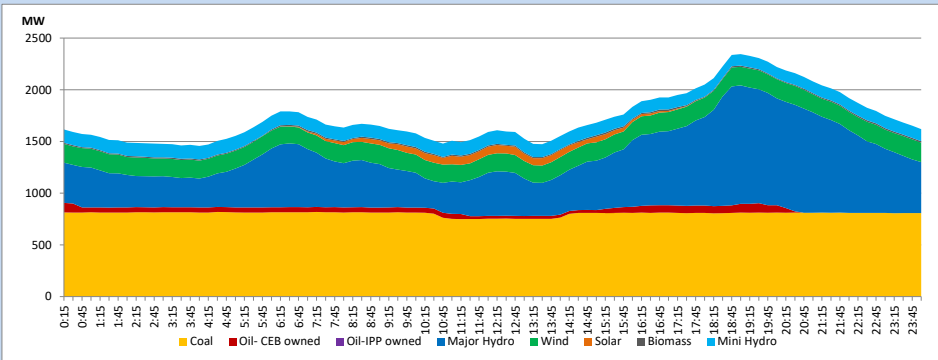
1.12 Power Plant-wise Dispatch Summary

August 24, 2024



1.13 Daily Load Curve

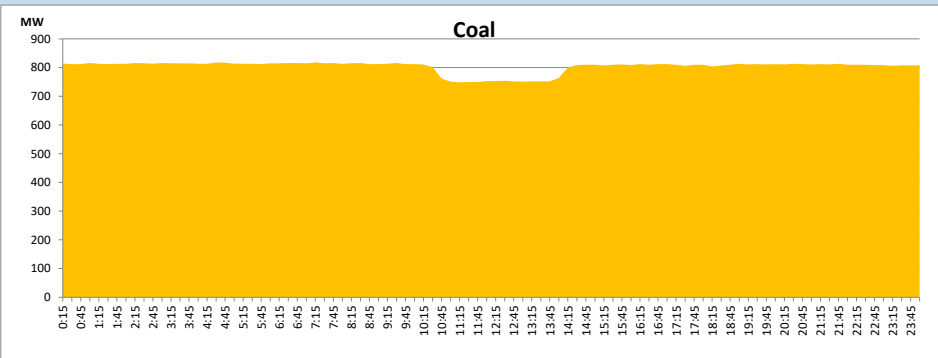
August 24, 2024



Solar and wind data is based on Telemetered Power Stations only

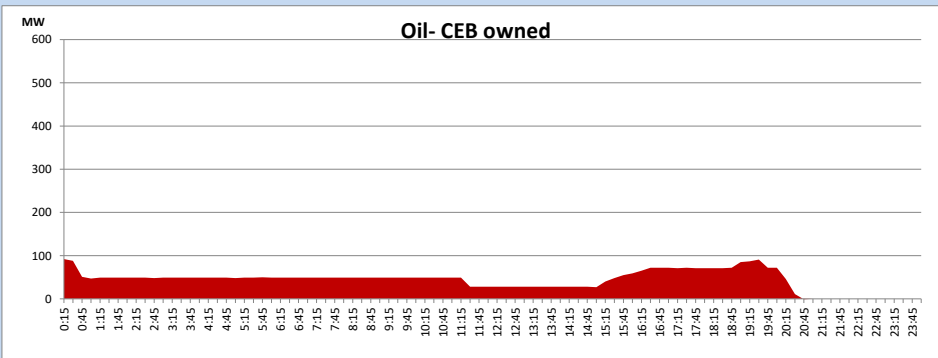
Coal Generation during

August 24, 2024



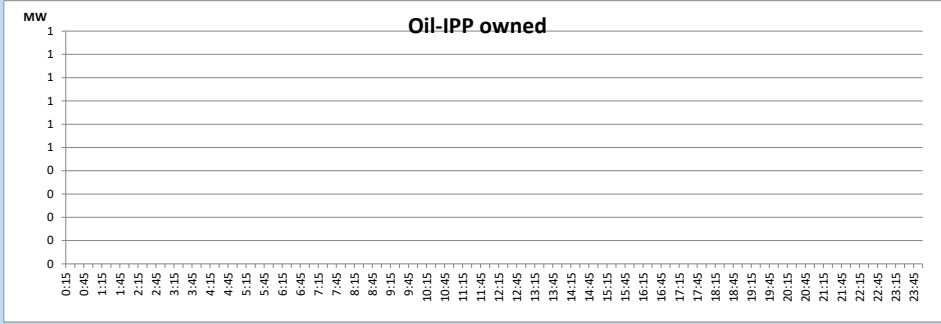
CEB Oil Plant Generation during

August 24, 2024



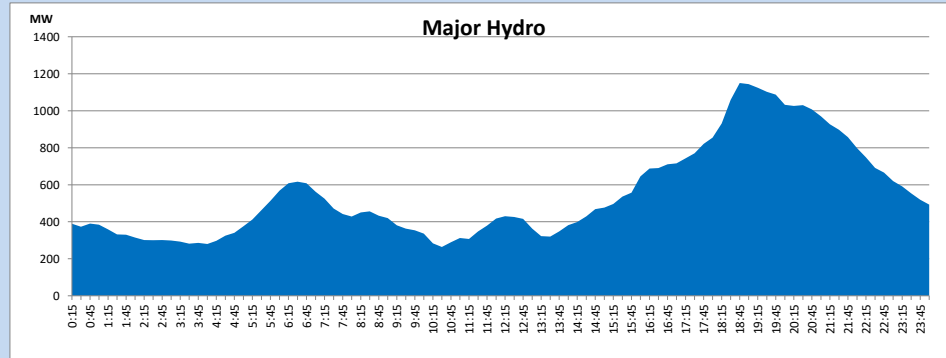
IPP Oil Plant Generation during

August 24, 2024



Major Hydro Generation during

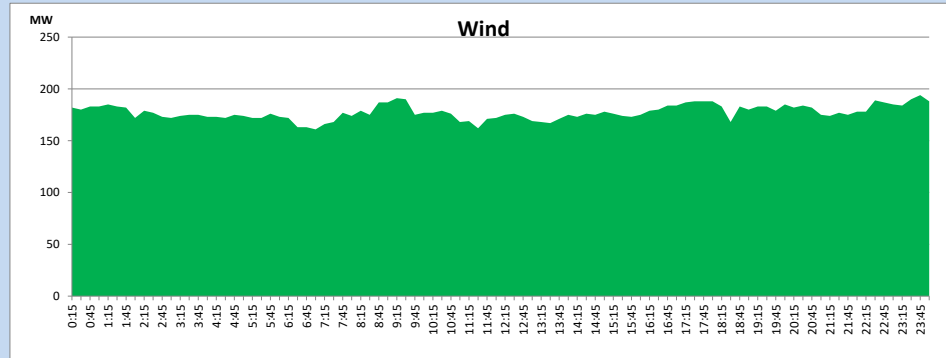
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Wind Generation during

August 24, 2024

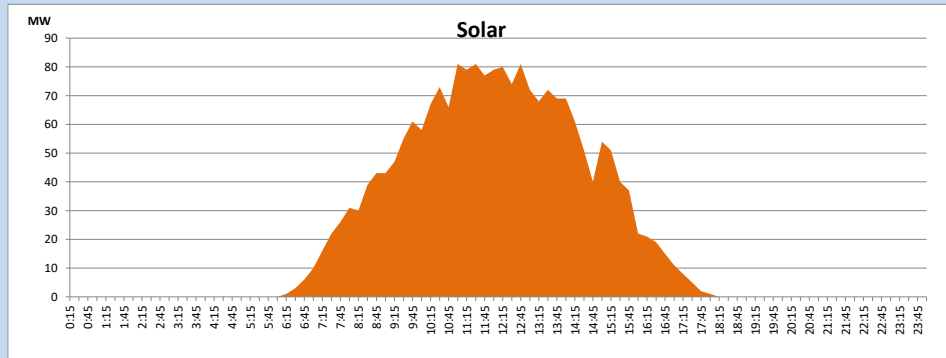
Based on Telemetered Power Stations only



Solar Generation during

August 24, 2024

Based on Telemetered Power Stations only

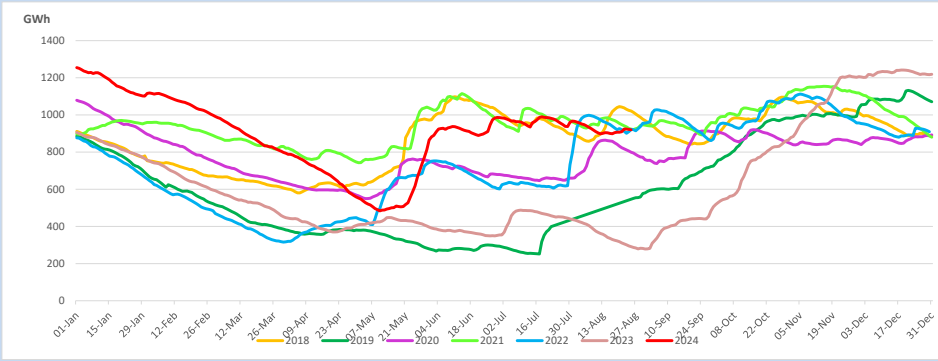


1.14 Major Incidents reported during the day

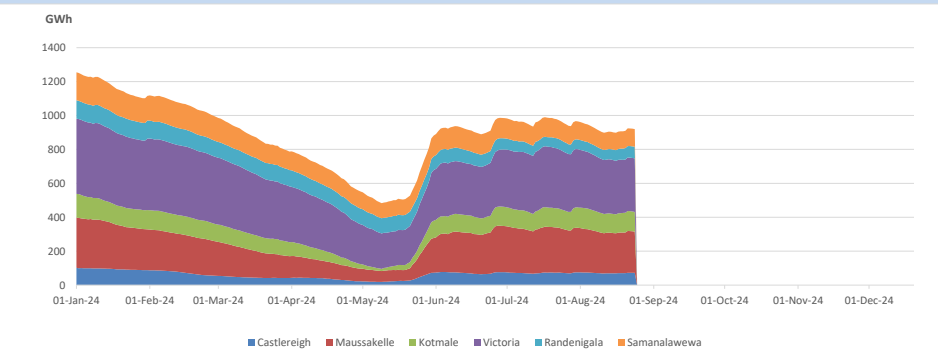
August 24, 2024

- 1) N'Polpitiya - Padukka 220kV cct 02 tripped & A/R from both ends at 5:49hrs (25/08/2024) due to the operation of Differential protection.

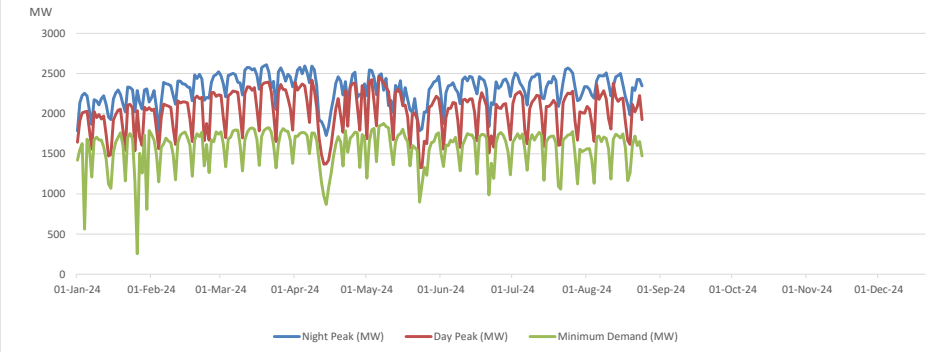
2. Comparison of Total Reservoir Storage Levels with Past Years



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

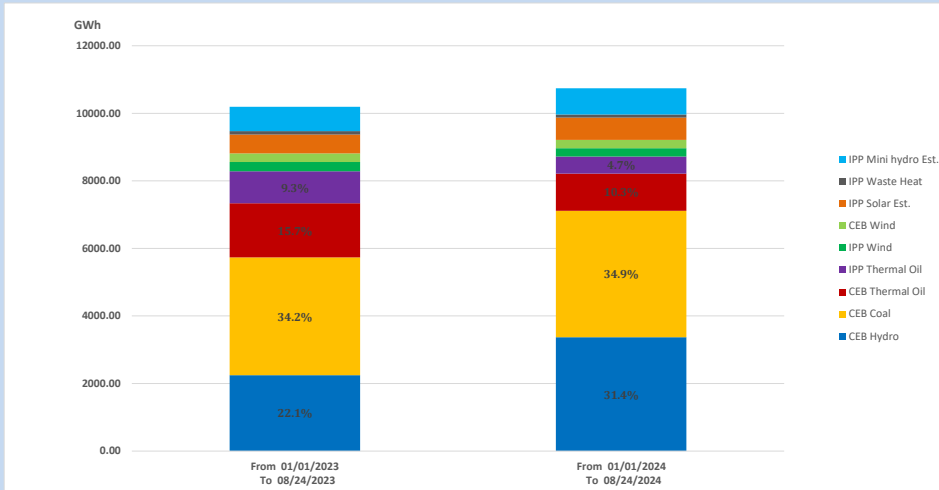


4. Variation of Demand during the current year



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 08/24/2023

10192 GWh

From 01/01/2024 To 08/24/2024

10740 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]