

Generation and Reservoirs Statistics

August 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 27, 2024

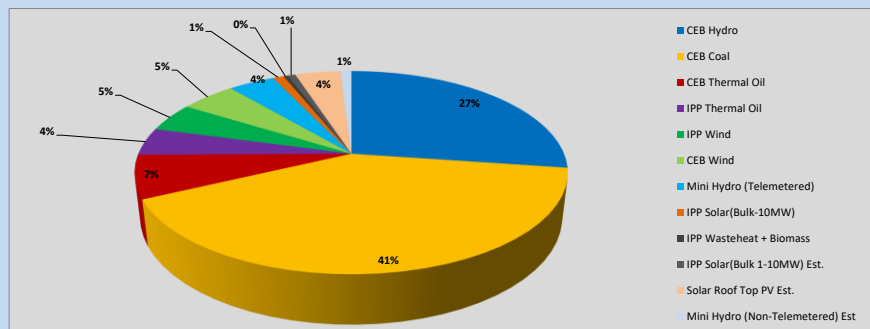


Table 01

	Generation (MWh)
CEB Hydro	12962
CEB Coal	19388
CEB Thermal Oil	3292
IPP Thermal Oil	2094
IPP Wind	2188
CEB Wind	2356
Mini Hydro (Telemetered)	1966
IPP Solar (Bulk)	469
IPP Waste heat + Biomass	177
Total Generation (Excluding estimated figures)	44,892
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	474
* Estimated IPP Solar PV (Bulk 1-10MW)	336
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	47,622

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	393	32.14%
CEB Coal	427	34.90%
CEB Thermal Oil	125	10.24%
IPP Thermal	29	2.41%
SPP Wind	36	2.91%
CEB Wind	41	3.39%
Mini Hydro *	95	7.74%
IPP Solar *	69	5.62%
IPP Waste heat + BMP	8	0.64%
Total	1,222	

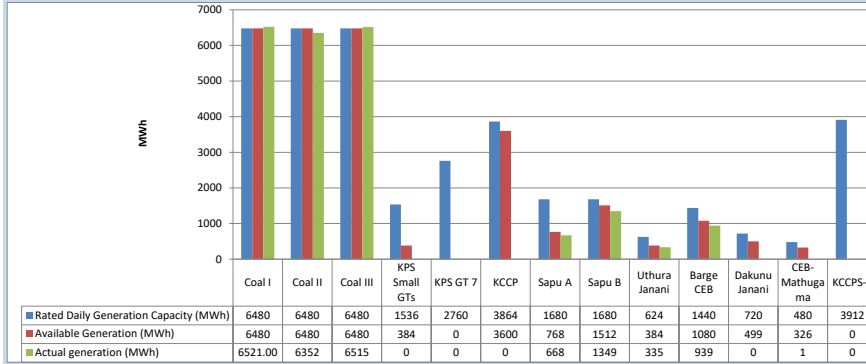
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,406	31.33%
CEB Coal	3,802	34.96%
CEB Thermal Oil	1,109	10.20%
IPP Thermal	505	4.65%
SPP Wind	253	2.33%
CEB Wind	256	2.36%
Mini Hydro *	781	7.19%
IPP Solar *	664	6.10%
IPP Waste heat	97	0.89%
Total	10,873	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 27, 2024

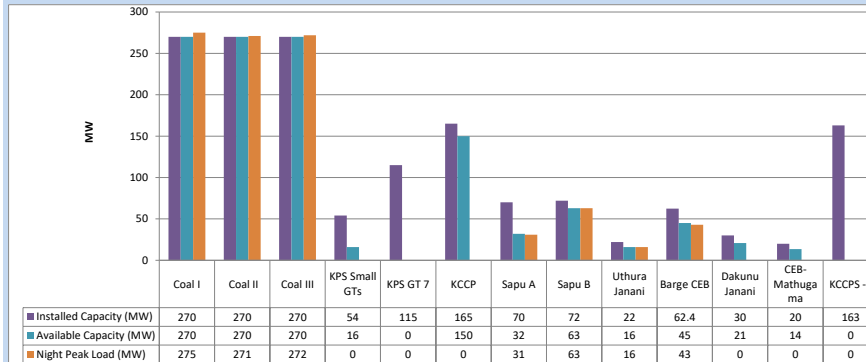


Available Generation is estimated based on plant availability at 6.00am on

August 28, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 27, 2024

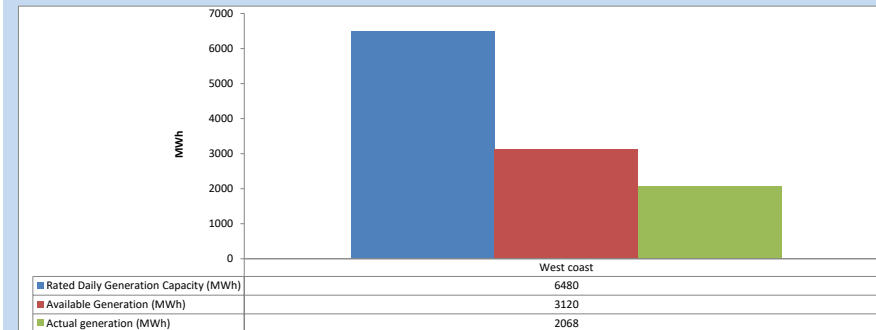


Plant availability is recorded at 6.00 am on

August 28, 2024

1.4 IPP owned Thermal Plant Dispatch

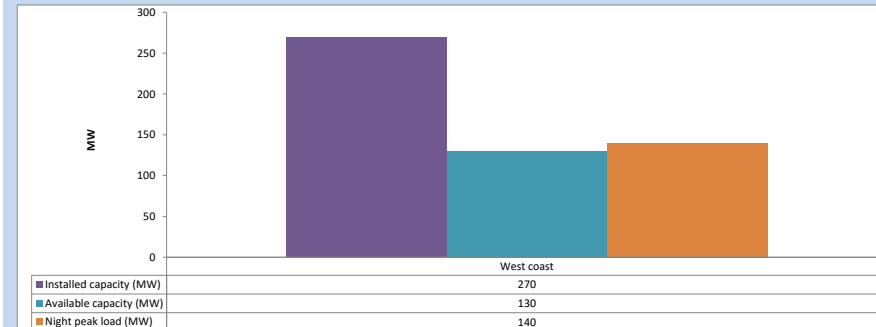
August 27, 2024



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

August 28, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

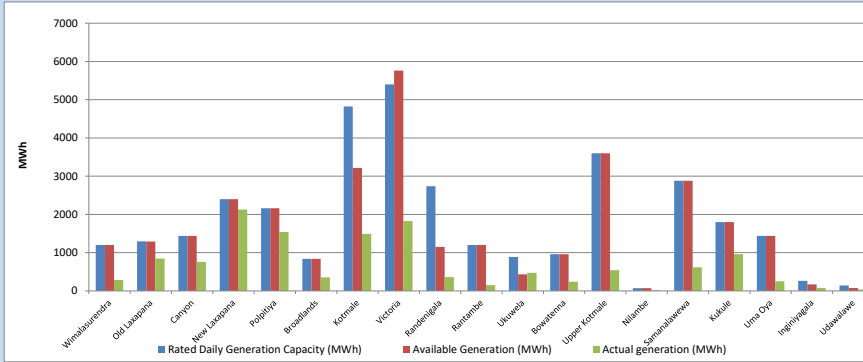


Plant availability is recorded at 6.00 am on

August 28, 2024

1.6 Major Hydro Plant Dispatch

August 27, 2024

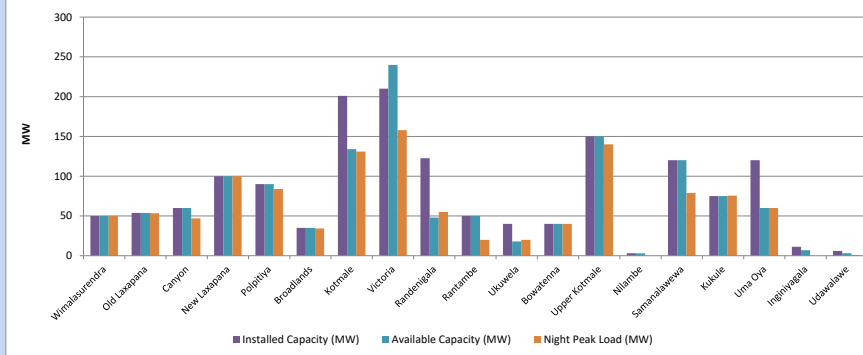


Available Generation is estimated based on plant availability at 6.00am on

August 28, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 27, 2024



Plant availability is recorded at 6.00 am on

August 28, 2024

1.8 Summary of Major Plant performance

August 27, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	285
Old Laxapana	54	54	54	848
Canyon	60	60	47	759
New Laxapana	100	100	100	2,127
Polpitiya	90	90	84	1,540
Broadlands	35	35	34	355
Kotmale	201	134	131	1,490
Victoria	210	240	158	1,826
Randenigala	123	48	55	362
Rantambe	50	50	20	149
Ukuwela	40	18	20	473
Bowatenna	40	40	40	241
Upper Kotmale	150	150	140	544
Nilambe	3	3	0	19
Samanalawewa	120	120	79	618
Kukule	75	75	76	962
Uma Oya	120	60	60	252
Inginigala	11	7	0	77
Udawalawe	6	3	1	36
Puttalam Coal I	270	270	275	6,521
Puttalam Coal II	270	270	271	6,352
Puttalam Coal III	270	270	272	6,515
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	31	668
Sapugaskanda B	72	63	63	1,349
Uthura Janani	22	16	16	335
Barge CEB	62	45	43	939
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	1
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	130	140	2,068
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	26
Total	3,594	2,633	2,525	44,893

Note-

Plant availability is the availability recorded at 6 am on

August 28, 2024

1.9 Contribution to the Night Peak in MW

August 27, 2024

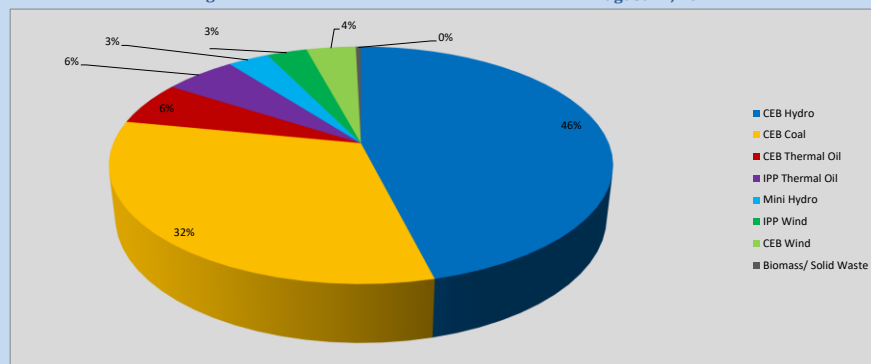


Table 05

CEB Hydro	1177	MW
CEB Coal	818	MW
CEB Thermal Oil	153	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	81	MW
IPP Wind	78.5	MW
CEB Wind	96.9	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

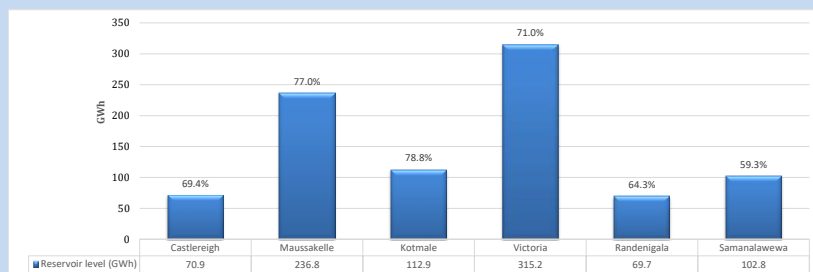
Table 06

Night Peak*	2,554	MW
Day Peak Maximum Demand	2,209	MW
Day Peak Minimum Demand	1,637	MW
Off Peak Minimum Demand	1,490	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 28, 2024



Total Reservoir Level
% of Total capacity

908.3 GWh
71.0%

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

August 27, 2024

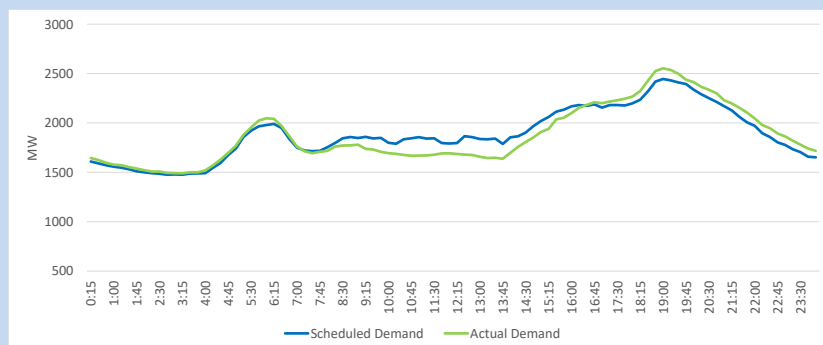
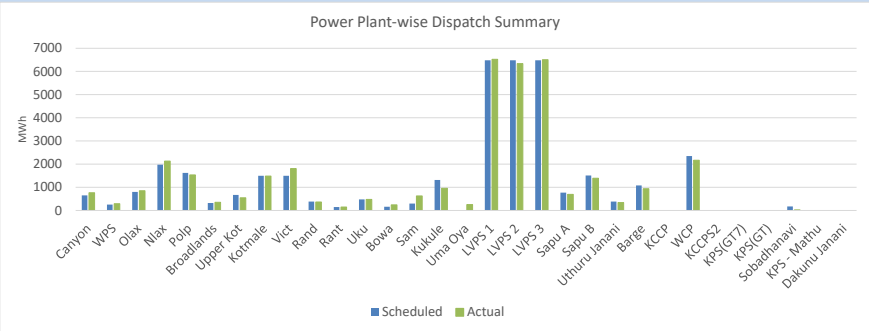


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,088	12,831	743
CEB Coal	19,440	19,374	(66)
CEB Thermal Oil	3,744	3,369	(375)
IPP Thermal Oil	2,520	2,194	(326)
NCRE (Telemetered)	7,410	7,190	(221)
Total	45,203	44,957	-246

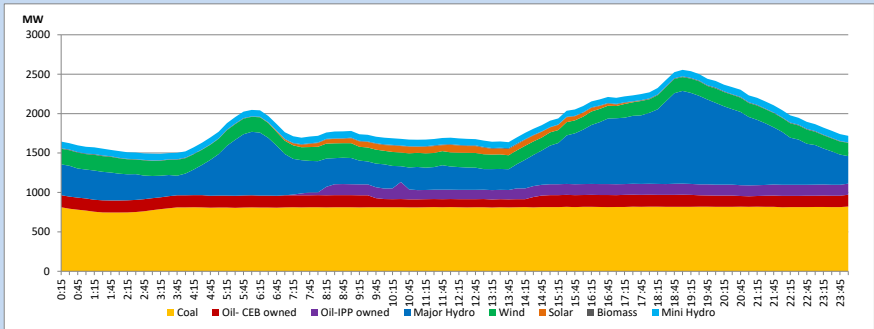
1.12 Power Plant-wise Dispatch Summary

August 27, 2024



1.13 Daily Load Curve

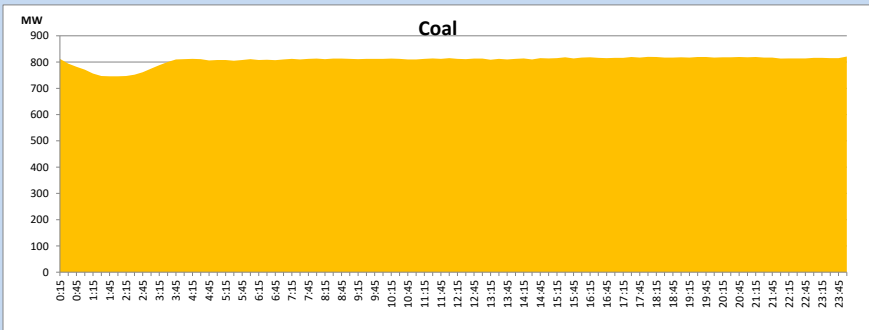
August 27, 2024



Solar and wind data is based on Telemetered Power Stations only

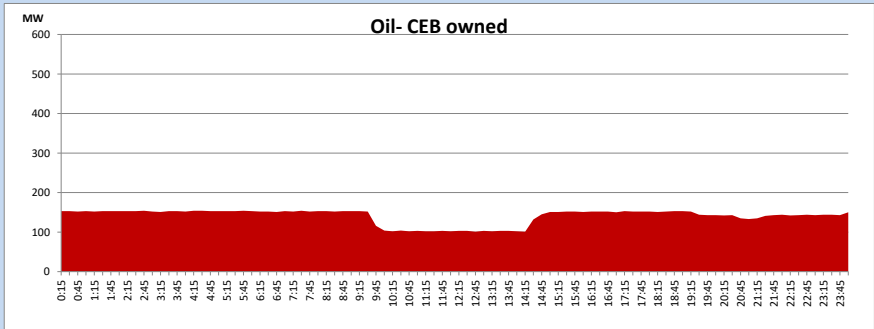
Coal Generation during

August 27, 2024



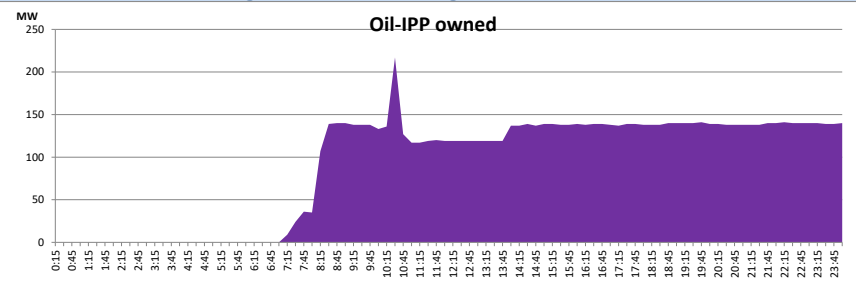
CEB Oil Plant Generation during

August 27, 2024



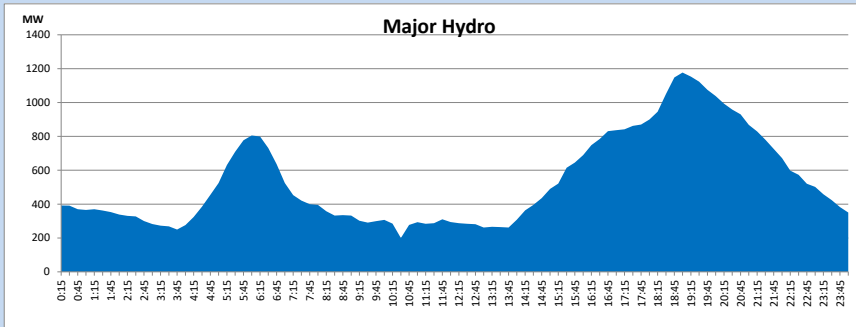
IPP Oil Plant Generation during

August 27, 2024



Major Hydro Generation during

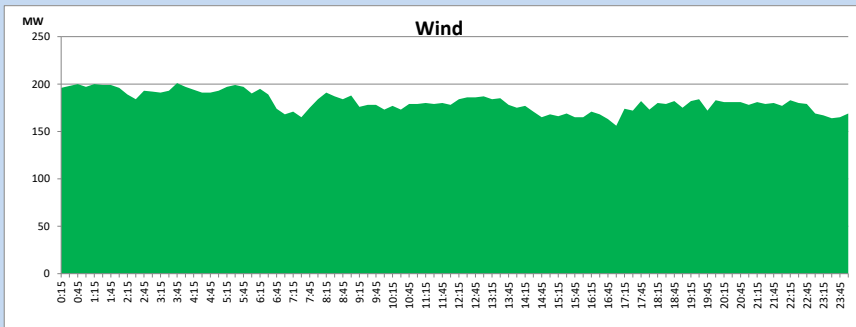
August 27, 2024



Wind Generation during

August 27, 2024

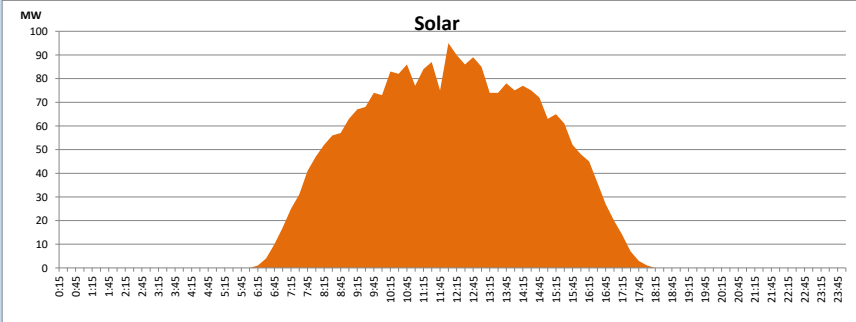
Based on Telemetered Power Stations only



Solar Generation during

August 27, 2024

Based on Telemetered Power Stations only

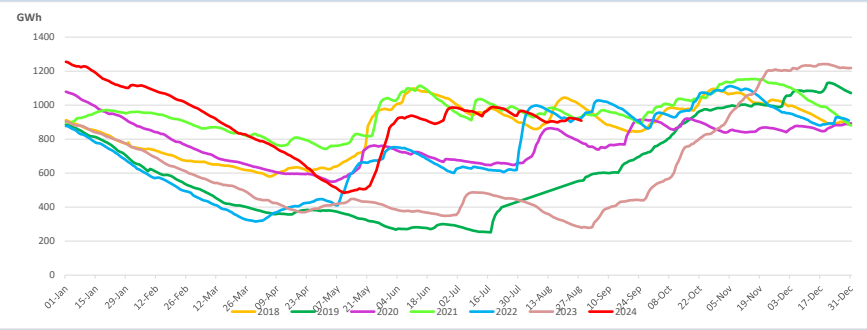


1.14 Major Incidents reported during the day

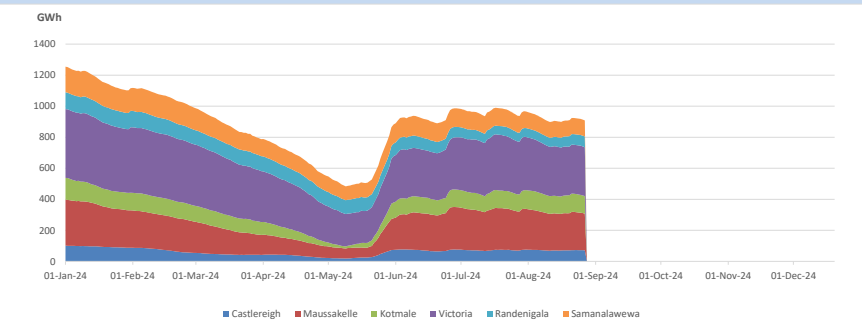
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1) Mahiyanganaya 132/33kV T/F 02 tripped only from 33kV end at 10:52hrs without showing indications, causing 33kV B/S 02 and all associated feeders to be dead. The T/F normalized at 11:20hrs and all affected feeders were normalized by 11:24hrs.

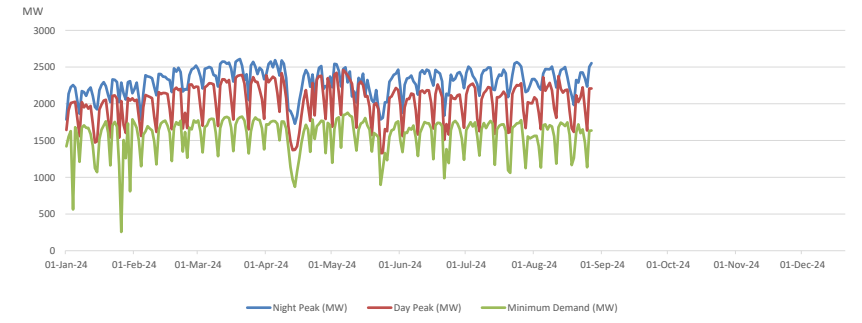
2. Comparison of Total Reservoir Storage Levels with Past Years



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

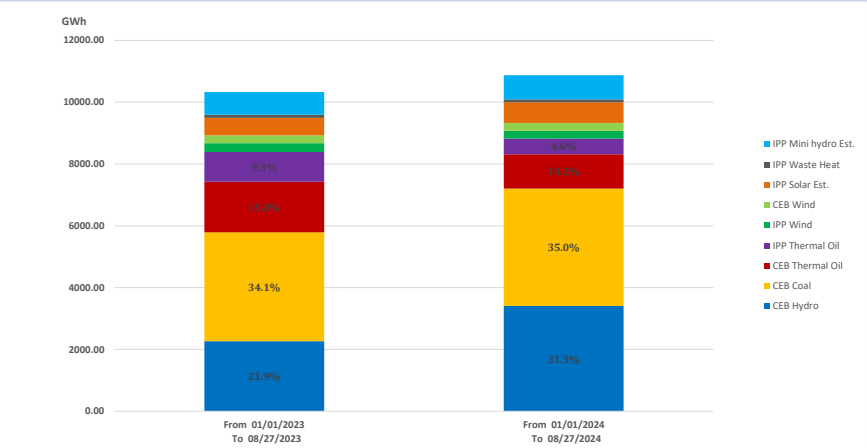


4. Variation of Demand during the current year



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 08/27/2023 10329 GWh
From 01/01/2024 To 08/27/2024 10873 GWh
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd 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 - May 2024 for NCRE installed capacities