

Generation and Reservoirs Statistics

September 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 13, 2024

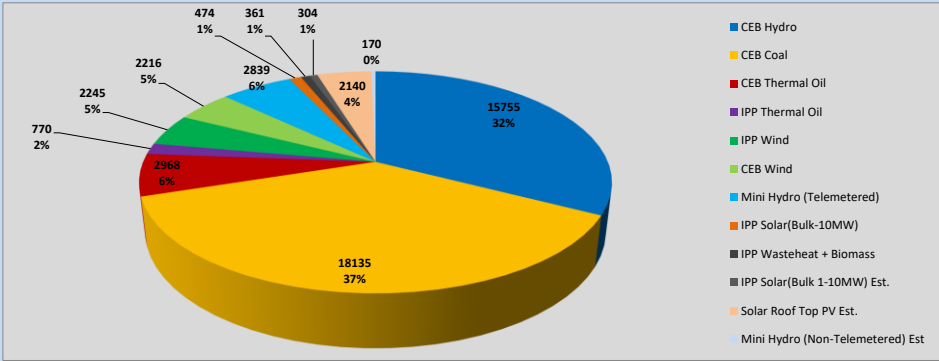


Table 01

	Generation (MWh)
CEB Hydro	15755
CEB Coal	18135
CEB Thermal Oil	2968
IPP Thermal Oil	770
IPP Wind	2245
CEB Wind	2216
Mini Hydro (Telemetered)	2839
IPP Solar (Bulk)	474
IPP Waste heat + Biomass	361
Total Generation (Excluding estimated figures)	45,763
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	170
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	214
Total Generation (Including estimated figures)	48,377

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	180	29.59%
CEB Coal	244	40.02%
CEB Thermal Oil	27	4.48%
IPP Thermal	2	0.26%
IPP Wind	31	5.14%
CEB Wind	27	4.39%
Mini Hydro *	57	9.42%
IPP Solar *	37	6.07%
IPP Waste heat + BMP	4	0.64%
Total	609	

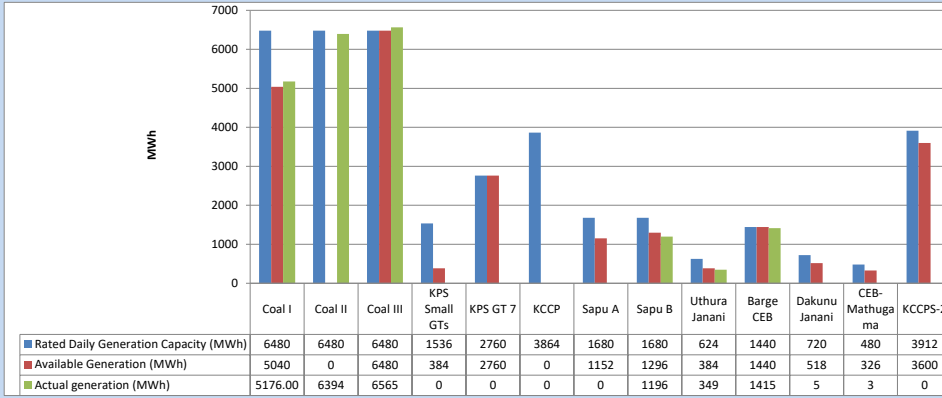
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,632	31.11%
CEB Coal	4,122	35.32%
CEB Thermal Oil	1,158	9.92%
IPP Thermal	511	4.38%
IPP Wind	294	2.52%
CEB Wind	292	2.50%
Mini Hydro *	851	7.29%
IPP Solar *	711	6.09%
IPP Waste heat	102	0.87%
Total	11,672	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 13, 2024

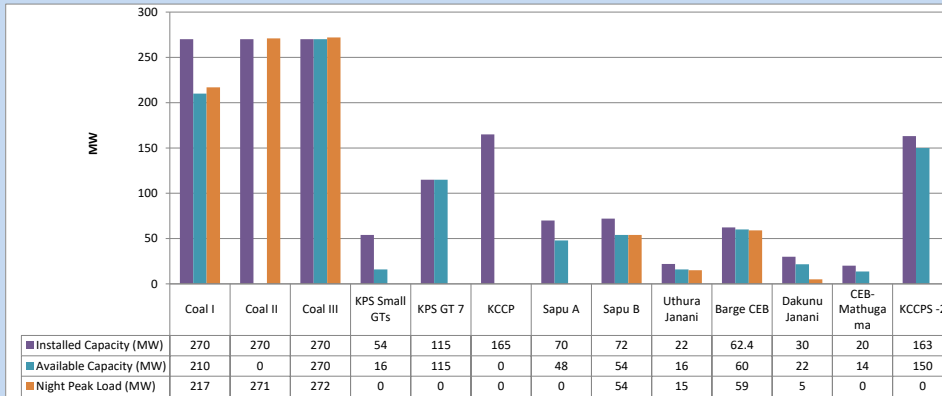


Available Generation is estimated based on plant availability at 6.00am on

September 14, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 13, 2024

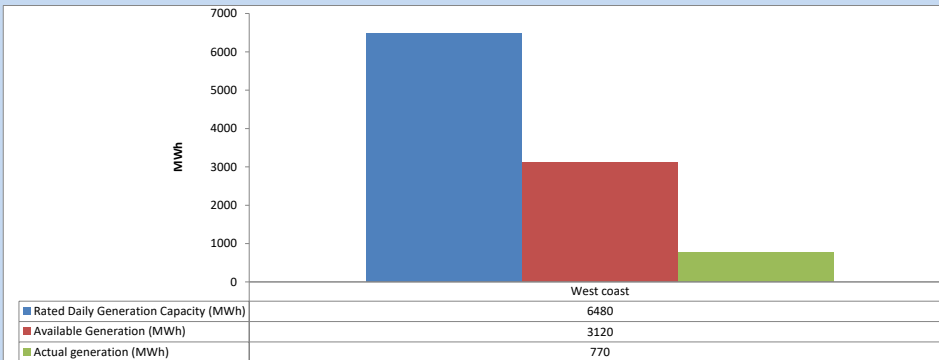


Plant availability is recorded at 6.00 am on

September 14, 2024

1.4 IPP owned Thermal Plant Dispatch

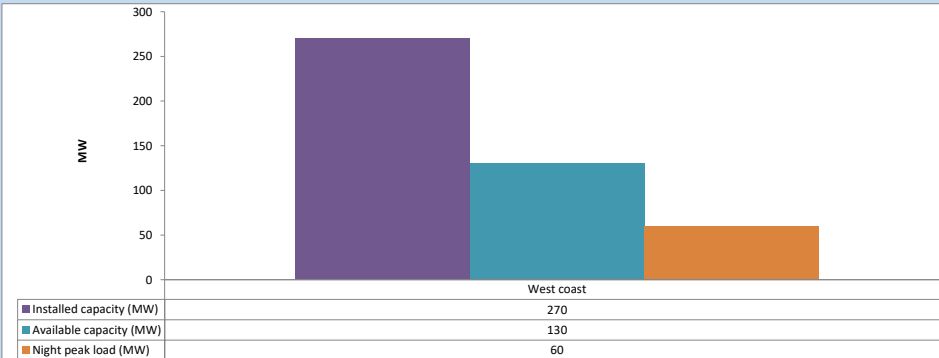
September 13, 2024



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

September 14, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

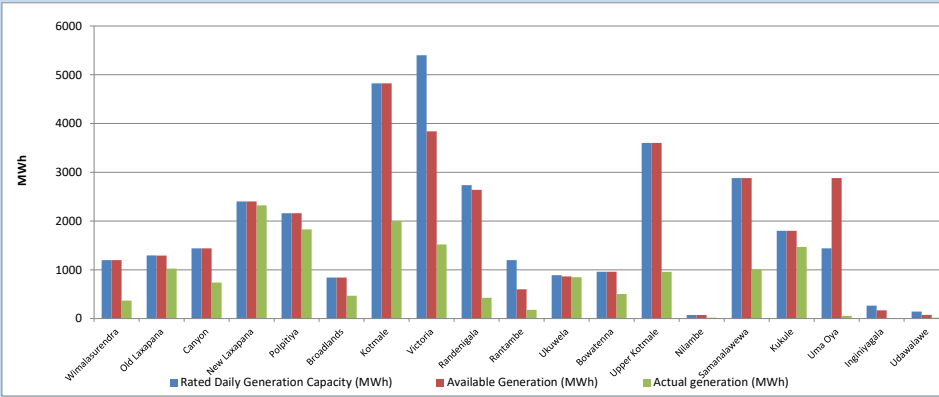


Plant availability is recorded at 6.00 am on

September 14, 2024

1.6 Major Hydro Plant Dispatch

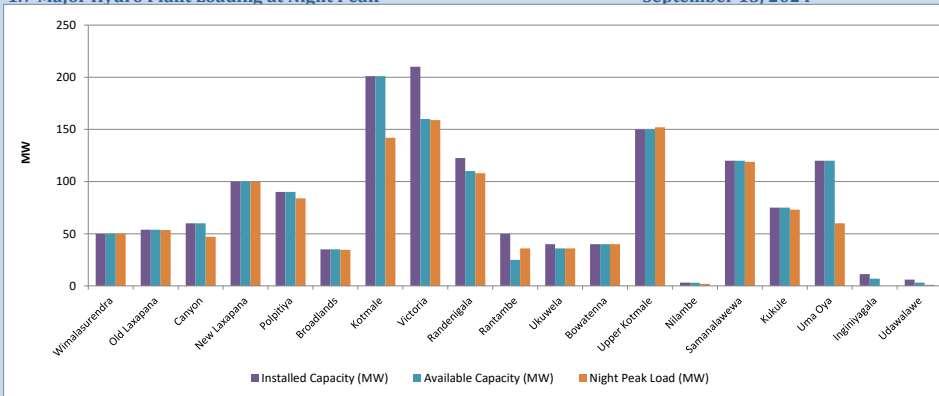
September 13, 2024



Available Generation is estimated based on plant availability at 6.00am on September 14, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 13, 2024



Plant availability is recorded at 6.00 am on September 14, 2024

1.8 Summary of Major Plant performance

September 13, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	367
Old Laxapana	54	54	54	1,024
Canyon	60	60	47	737
New Laxapana	100	100	100	2,320
Polpitiya	90	90	84	1,830
Broadlands	35	35	35	467
Kotmale	201	201	142	2,000
Victoria	210	160	159	1,521
Randenigala	123	110	108	426
Rantambe	50	25	36	179
Ukuwela	40	36	36	849
Bowatenna	40	40	40	505
Upper Kotmale	150	150	152	957
Nilambe	3	3	2	18
Samanalawewa	120	120	119	1,012
Kukule	75	75	73	1,469
Uma Oya	120	120	60	57
Inginipigala	11	7	0	0
Udawalawe	6	3	1	18
Puttalam Coal I	270	210	217	5,176
Puttalam Coal II	270	0	271	6,394
Puttalam Coal III	270	270	272	6,565
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	0	0	0
Sapugaskanda A	70	48	0	0
Sapugaskanda B	72	54	54	1,196
Uthura Janani	22	16	15	349
Barge CEB	62	60	59	1,415
CEB-Hambantota	30	22	5	5
CEB-Mathugama	20	14	0	3
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	60	770
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,543	2,582	45,764

Note- Plant availability is the availability recorded at 6 am on September 14, 2024

1.9 Contribution to the Night Peak in MW

September 13, 2024

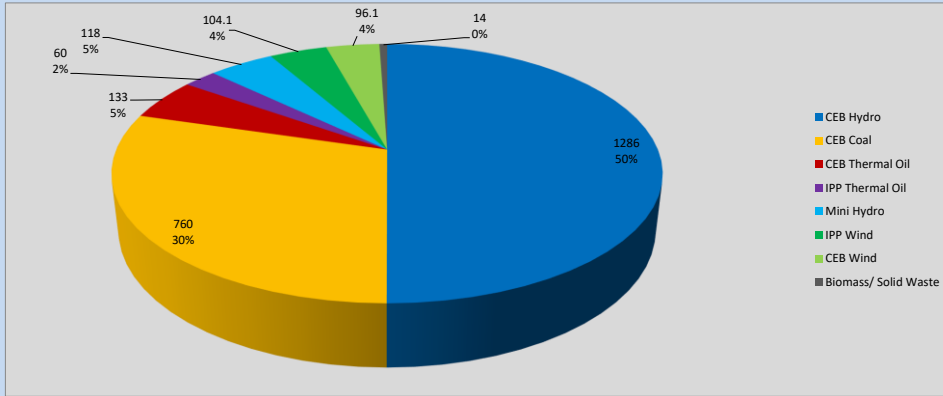


Table 05

CEB Hydro	1286	MW
CEB Coal	760	MW
CEB Thermal Oil	133	MW
IPP Thermal Oil	60	MW
Mini Hydro (Telemetered)	118	MW
IPP Wind	104.1	MW
CEB Wind	96.1	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

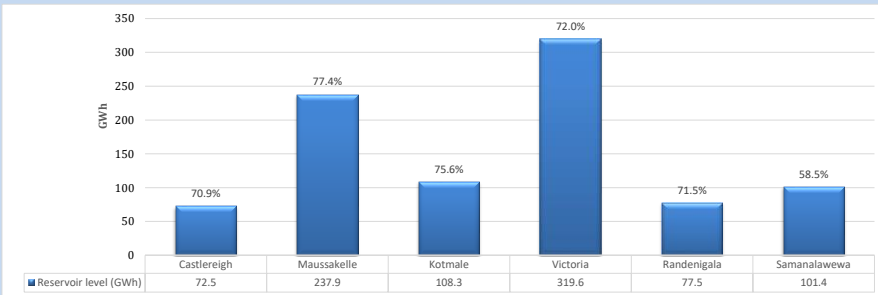
Table 06

Night Peak*	2,571	MW
Day Peak Maximum Demand	2,253	MW
Day Peak Minimum Demand	1,676	MW
Off Peak Minimum Demand	1,510	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 September 14, 2024



Total Reservoir Level
917.2 GWh
% of Total capacity
71.7%

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

September 13, 2024

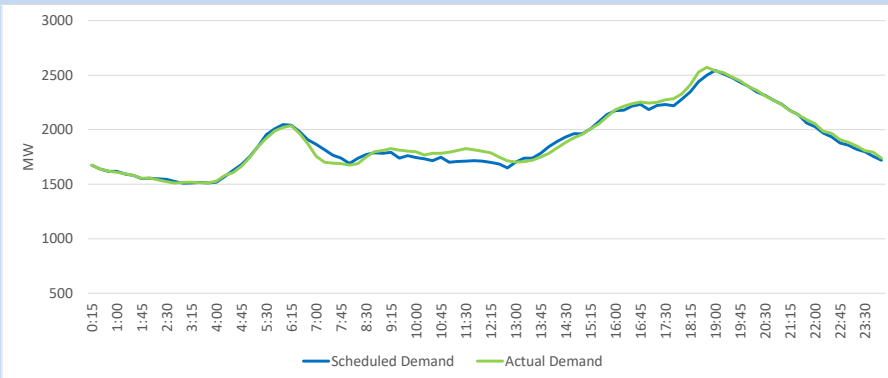
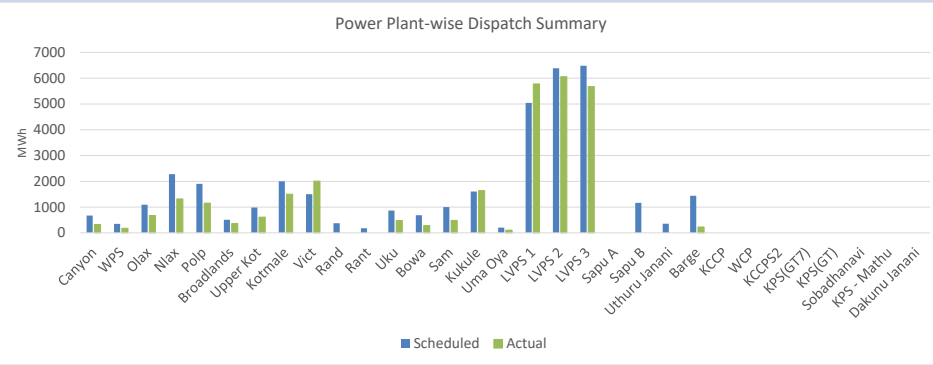


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,173	11,093	(5,080)
CEB Coal	17,904	17,502	(401)
CEB Thermal Oil	2,955	228	(2,727)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,434	8,107	(327)
Total	45,465	36,931	-8534

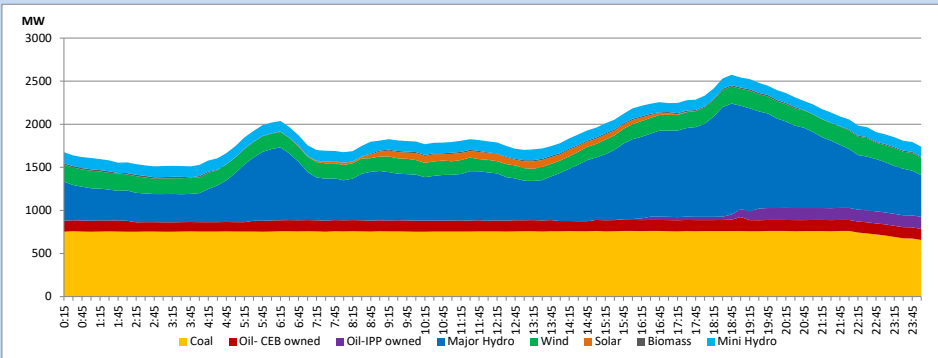
1.12 Power Plant-wise Dispatch Summary

September 13, 2024



1.13 Daily Load Curve

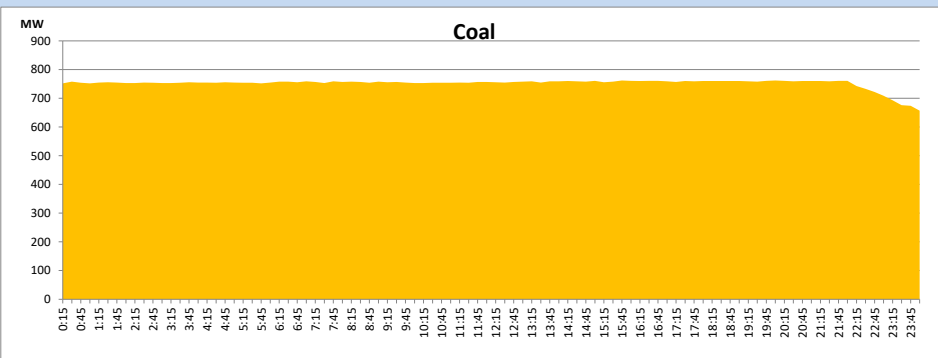
September 13, 2024



Solar and wind data is based on Telemetered Power Stations only

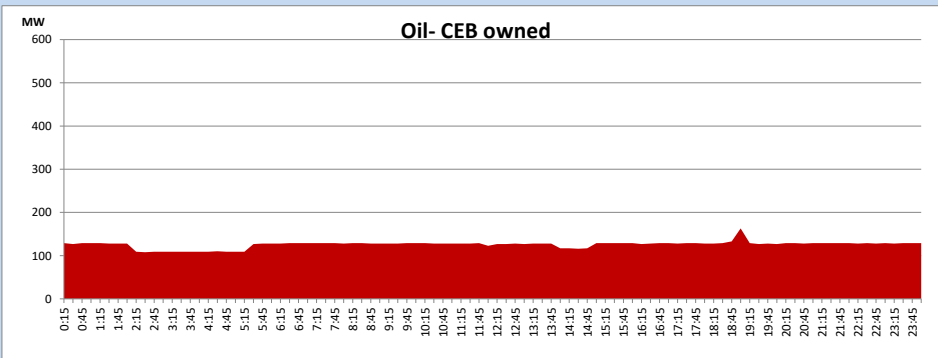
Coal Generation during

September 13, 2024

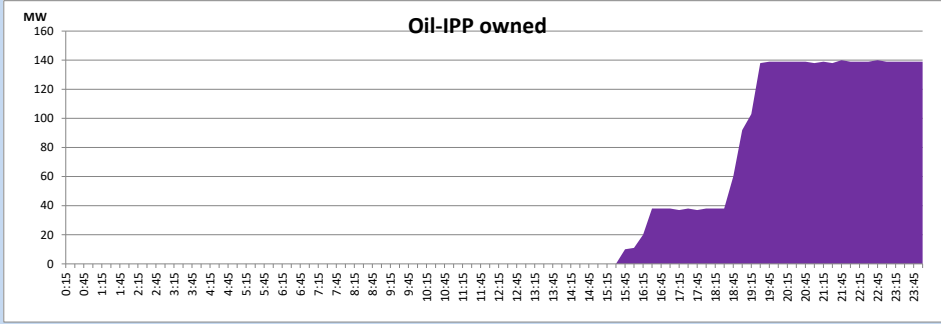


CEB Oil Plant Generation during

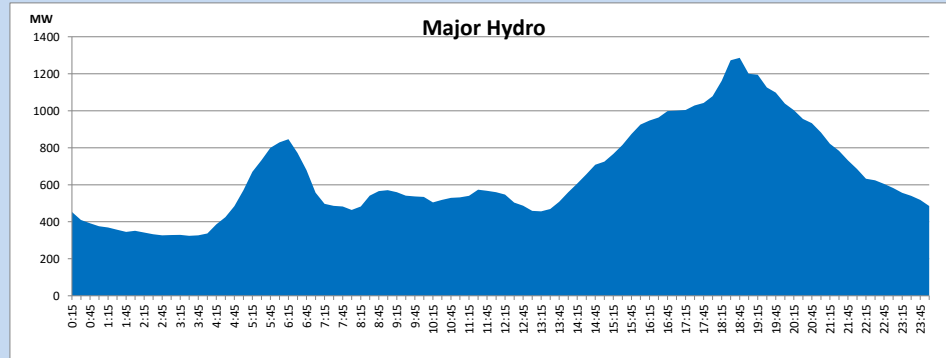
September 13, 2024



IPP Oil Plant Generation during September 13, 2024

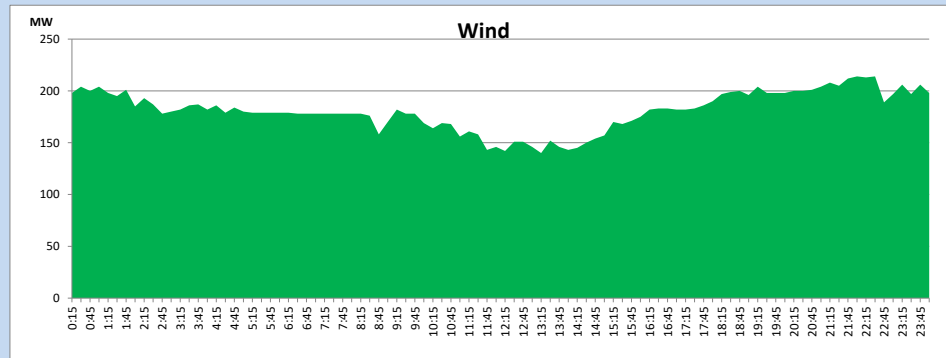


Major Hydro Generation during September 13, 2024



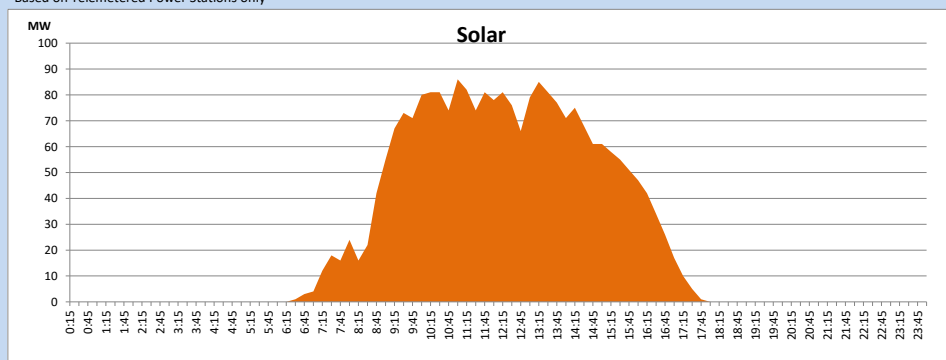
Wind Generation during September 13, 2024

Based on Telemetered Power Stations only



Solar Generation during September 13, 2024

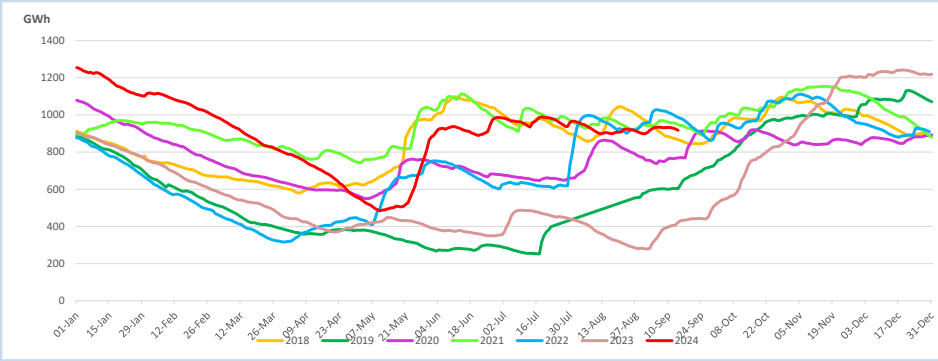
Based on Telemetered Power Stations only



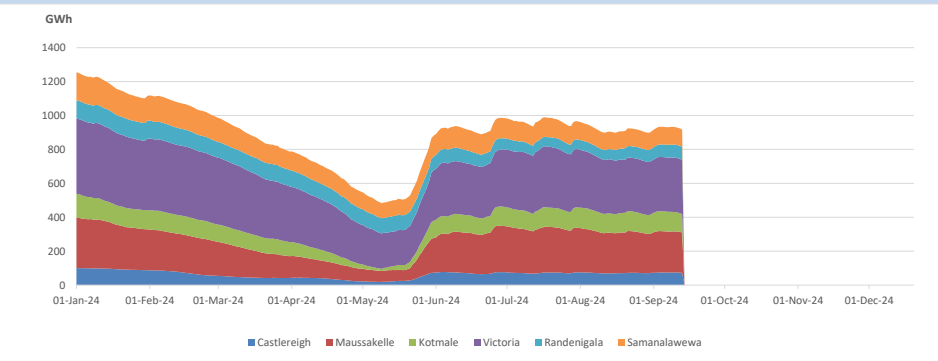
1.14 Major Incidents reported during the day September 13, 2024

1) Sapugaskanda GSS 132kV B/S CB tripped at 13:30hrs, along with Biyagama 132kV cct 02, and Kelaniya 132kV cct 01 (only from Sapugaskanda GSS end), with no indication. Subsequently, Sapugaskanda GSS 132/33kV T/F 03 was manually switched off from both sides. Sapugaskanda GSS 132 kV B/S CB, and the two 132kV ccts. were normalized by 14:22hrs. Sapugaskanda GSS 132/33kV T/F 03 was normalized at 18:16hrs.

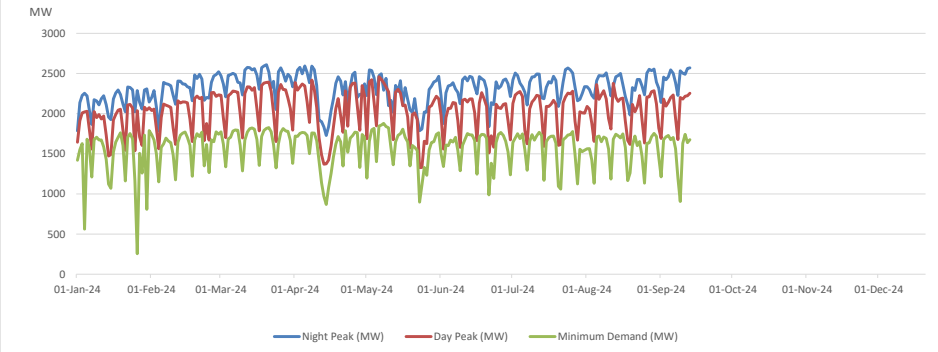
2. Comparison of Total Reservoir Storage Levels with Past Years



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

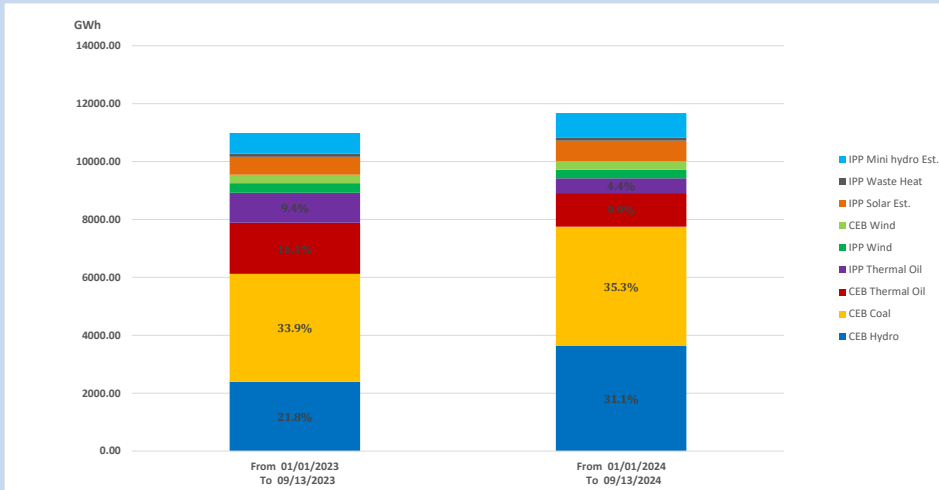


4. Variation of Demand during the current year



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 09/13/2023

10986 GWh

From 01/01/2024 To 09/13/2024

11672 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 & Sobadhanavi)	482
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