

Generation and Reservoirs Statistics

September 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 9, 2024

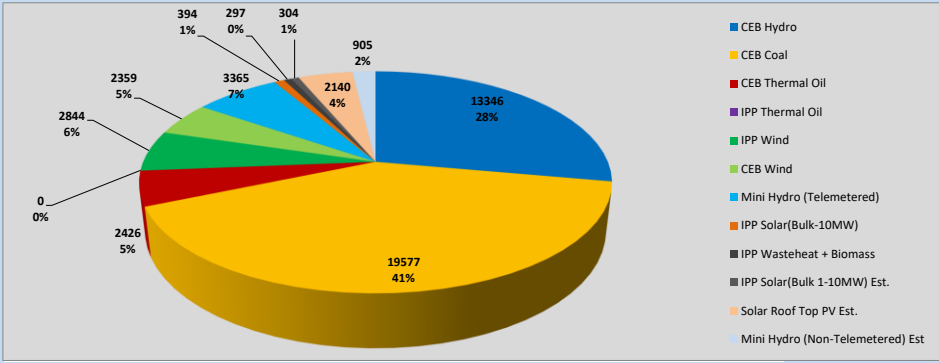


Table 01

	Generation (MWh)
CEB Hydro	13346
CEB Coal	19577
CEB Thermal Oil	2426
IPP Thermal Oil	0
IPP Wind	2844
CEB Wind	2359
Mini Hydro (Telemetered)	3365
IPP Solar (Bulk)	394
IPP Waste heat + Biomass	297
Total Generation (Excluding estimated figures)	44,608
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	905
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	47,957

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	117	27.95%
CEB Coal	171	40.91%
CEB Thermal Oil	20	4.71%
IPP Thermal	1	0.20%
IPP Wind	22	5.19%
CEB Wind	18	4.21%
Mini Hydro *	42	10.13%
IPP Solar *	25	6.10%
IPP Waste heat + BMP	3	0.61%
Total	417	

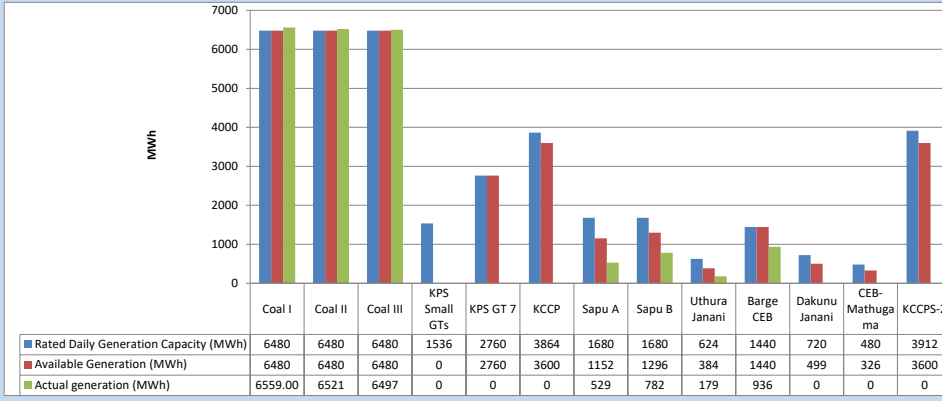
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,568	31.08%
CEB Coal	4,050	35.27%
CEB Thermal Oil	1,150	10.02%
IPP Thermal	510	4.44%
IPP Wind	284	2.48%
CEB Wind	283	2.47%
Mini Hydro *	836	7.28%
IPP Solar *	699	6.09%
IPP Waste heat	100	0.87%
Total	11,481	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 9, 2024

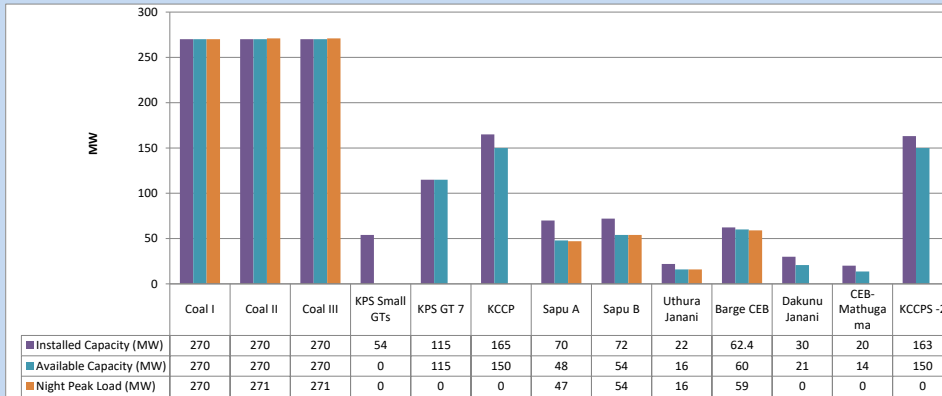


Available Generation is estimated based on plant availability at 6.00am on

September 10, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 9, 2024

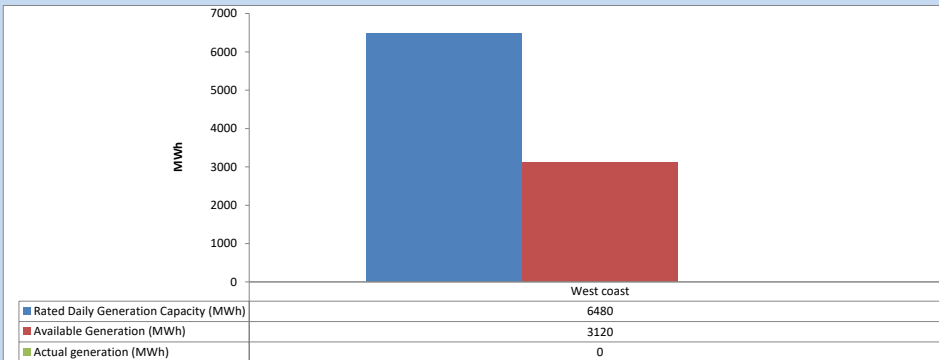


Plant availability is recorded at 6.00 am on

September 10, 2024

1.4 IPP owned Thermal Plant Dispatch

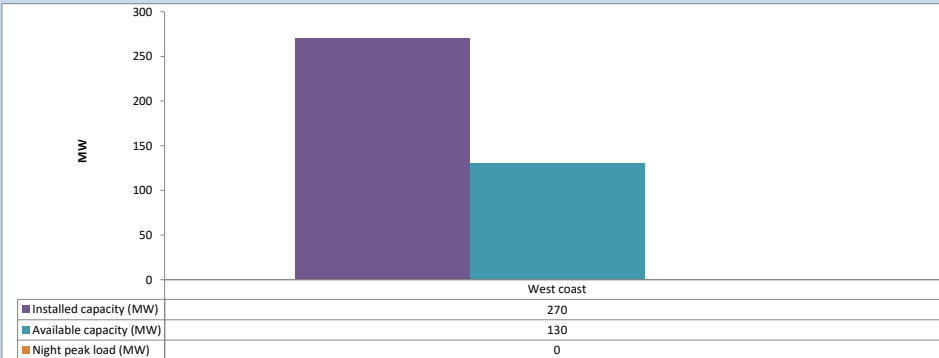
September 9, 2024



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

September 10, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

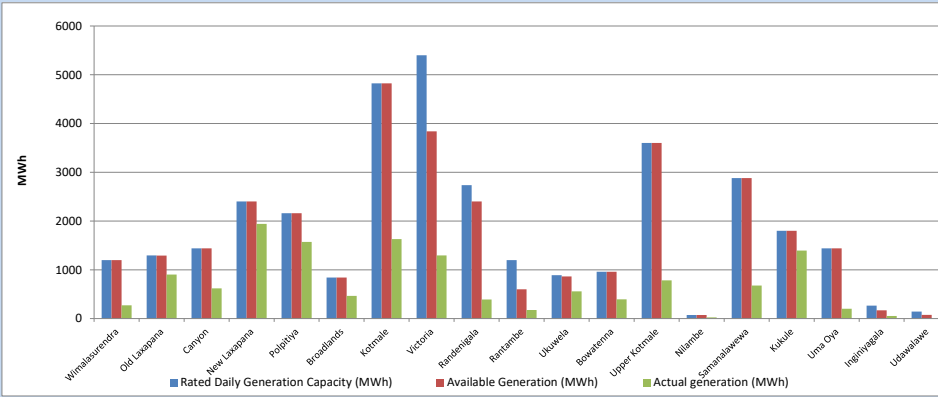


Plant availability is recorded at 6.00 am on

September 10, 2024

1.6 Major Hydro Plant Dispatch

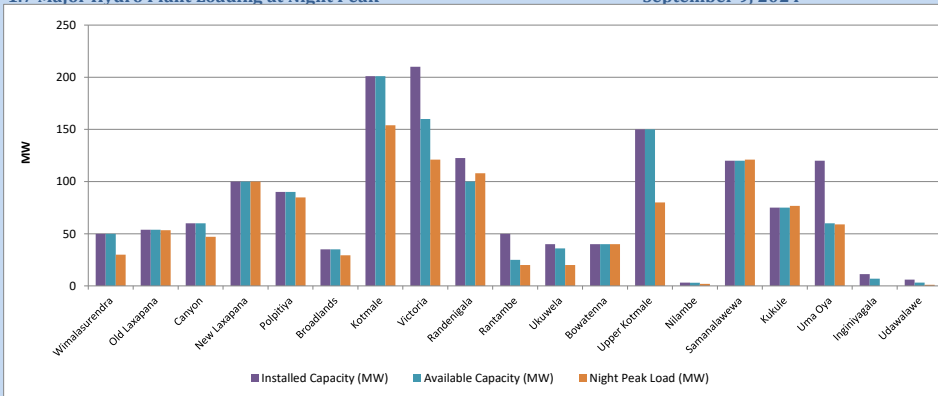
September 9, 2024



Available Generation is estimated based on plant availability at 6.00am on September 10, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 9, 2024



Plant availability is recorded at 6.00 am on September 10, 2024

1.8 Summary of Major Plant performance

September 9, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	271
Old Laxapana	54	54	53	903
Canyon	60	60	47	618
New Laxapana	100	100	100	1,941
Polpitiya	90	90	85	1,570
Broadlands	35	35	29	466
Kotmale	201	201	154	1,630
Victoria	210	160	121	1,294
Randenigala	123	100	108	392
Rantambe	50	25	20	175
Ukuwela	40	36	20	557
Bowatenna	40	40	40	394
Upper Kotmale	150	150	80	782
Nilambe	3	3	2	25
Samanalawewa	120	120	121	678
Kukule	75	75	77	1,396
Uma Oya	120	60	59	201
Inginipigala	11	7	0	53
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	270	6,559
Puttalam Coal II	270	270	271	6,521
Puttalam Coal III	270	270	271	6,497
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	47	529
Sapugaskanda B	72	54	54	782
Uthura Janani	22	16	16	179
Barge CEB	62	60	59	936
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	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
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,936	2,529	44,608

Note- Plant availability is the availability recorded at 6 am on September 10, 2024

1.9 Contribution to the Night Peak in MW

September 9, 2024

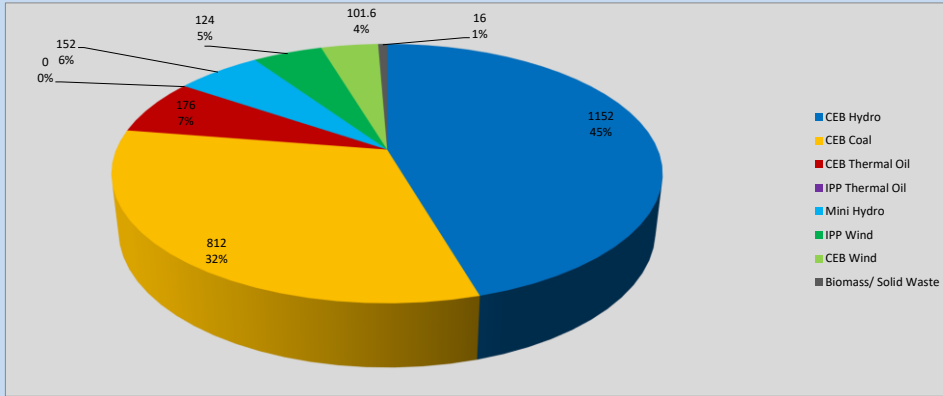


Table 05

CEB Hydro	1152	MW
CEB Coal	812	MW
CEB Thermal Oil	176	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	152	MW
IPP Wind	124	MW
CEB Wind	101.6	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

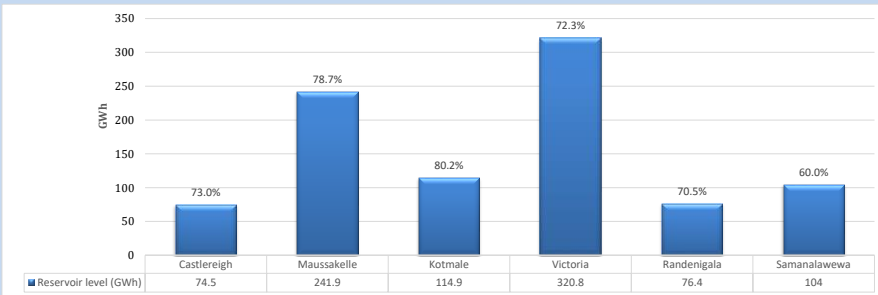
Table 06

Night Peak*	2,533	MW
Day Peak Maximum Demand	2,201	MW
Day Peak Minimum Demand	905	MW
Off Peak Minimum Demand	1,369	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 10, 2024



Total Reservoir Level
932.5 GWh
% of Total capacity
73.0%

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

September 9, 2024

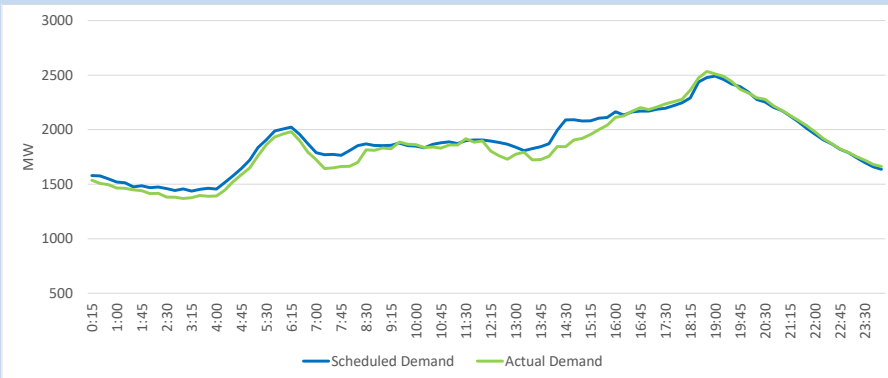
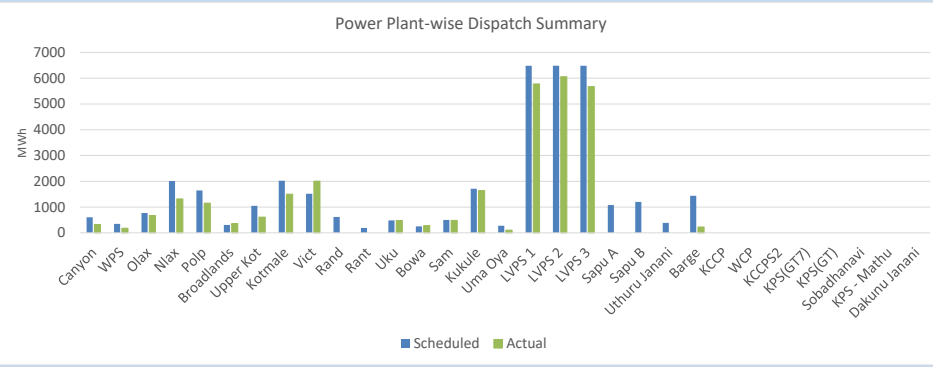


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,274	11,093	(3,181)
CEB Coal	19,440	17,502	(1,938)
CEB Thermal Oil	4,106	228	(3,877)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,738	9,379	1,641
Total	45,558	38,203	-7355

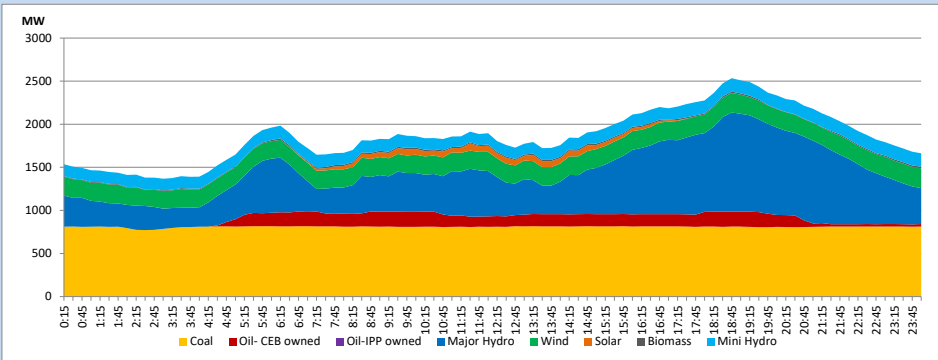
1.12 Power Plant-wise Dispatch Summary

September 9, 2024



1.13 Daily Load Curve

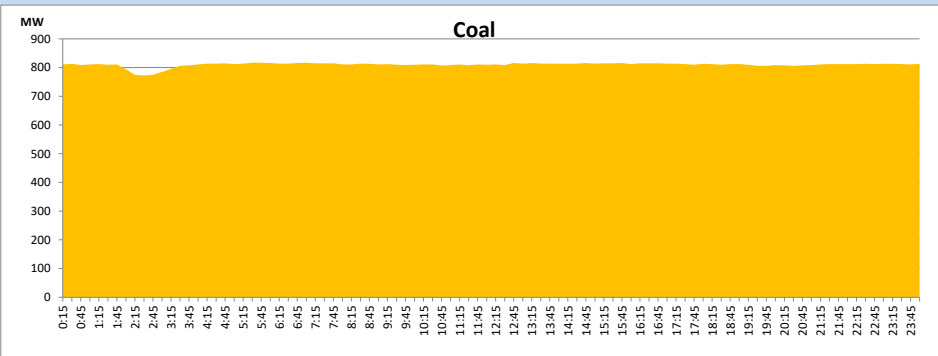
September 9, 2024



Solar and wind data is based on Telemetered Power Stations only

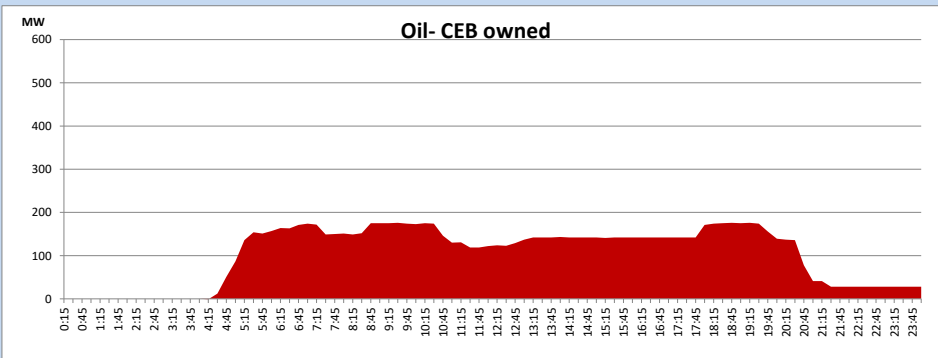
Coal Generation during

September 9, 2024



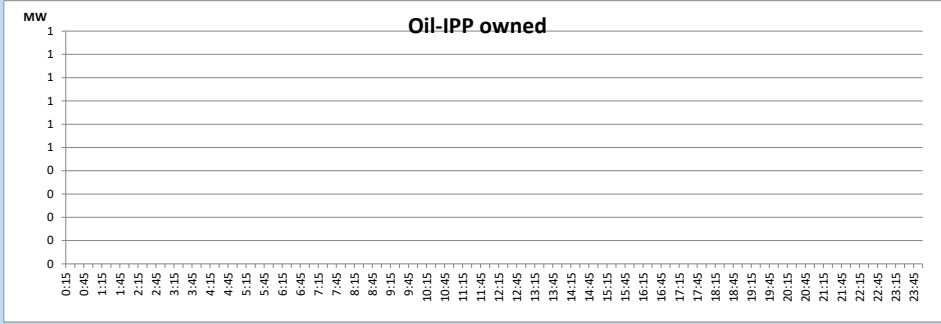
CEB Oil Plant Generation during

September 9, 2024



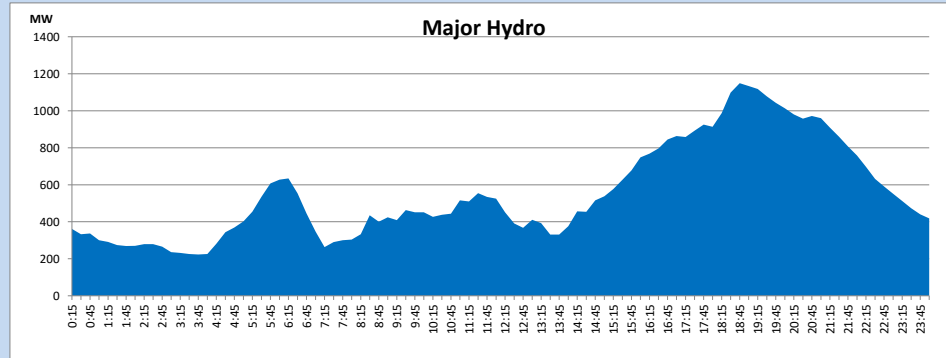
IPP Oil Plant Generation during

September 9, 2024



Major Hydro Generation during

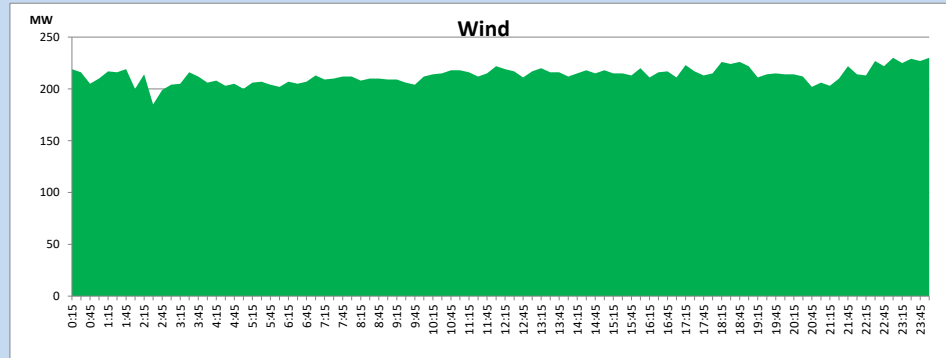
September 9, 2024



Wind Generation during

September 9, 2024

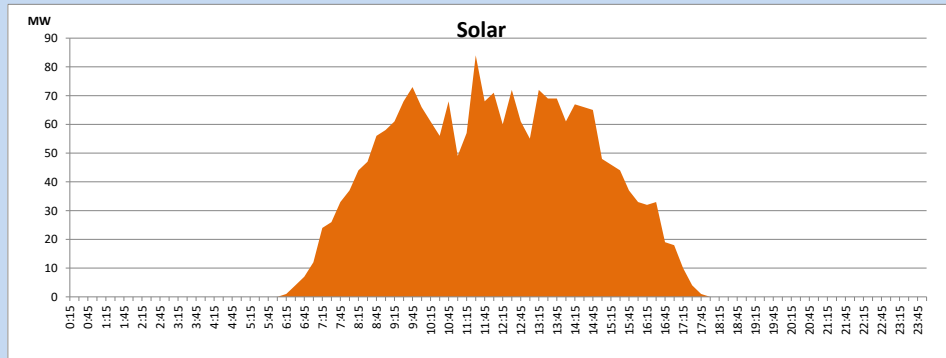
Based on Telemetered Power Stations only



Solar Generation during

September 9, 2024

Based on Telemetered Power Stations only



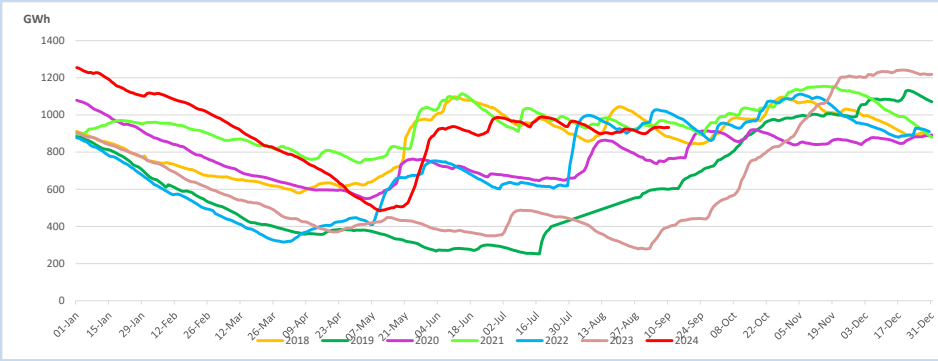
1.14 Major Incidents reported during the day

September 9, 2024

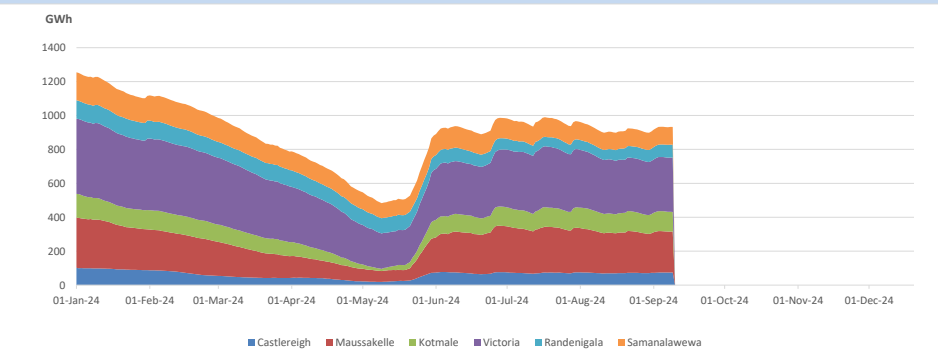
1) Rantembe Unit 02 was made unavailable for generation due to a sensor fault, while attempting to synchronize at 15:00hrs. The unit resumed generation at 16:57hrs.

2) Ukuwela unit 01 which had been made released for A/M from 19.08.2024, was made available at 17:31hrs.

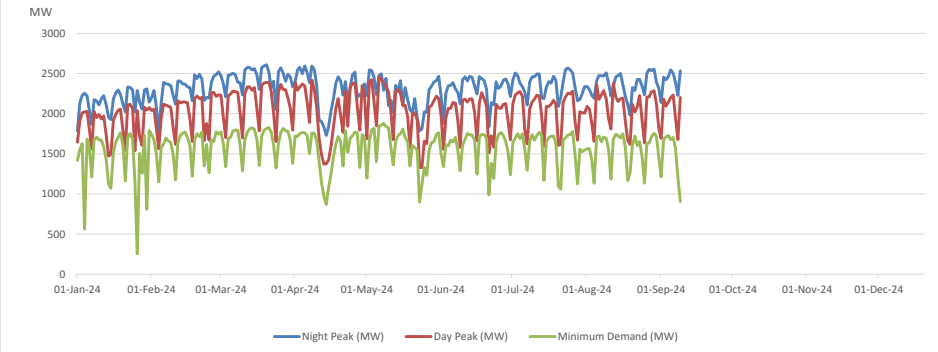
2. Comparison of Total Reservoir Storage Levels with Past Years



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

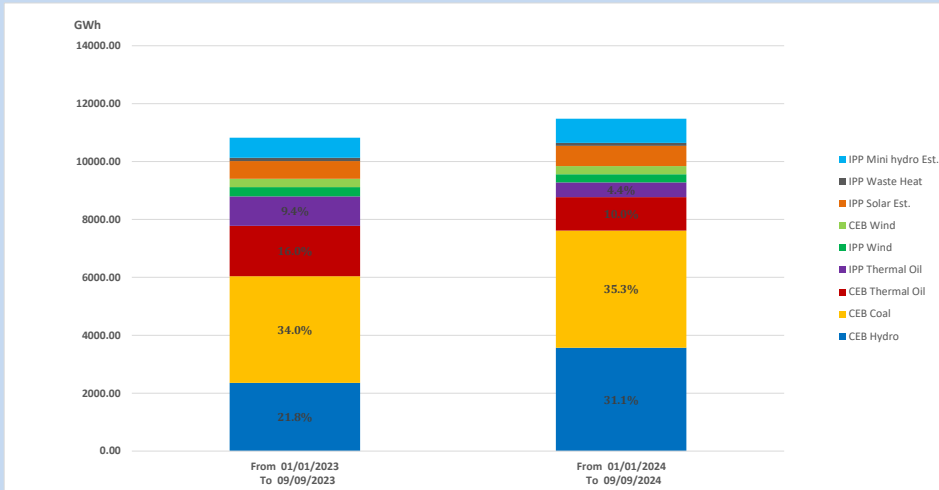


4. Variation of Demand during the current year



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 09/09/2023

10826 GWh

From 01/01/2024 To 09/07/2024

11481 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