

Generation and Reservoirs Statistics

September 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 19, 2024

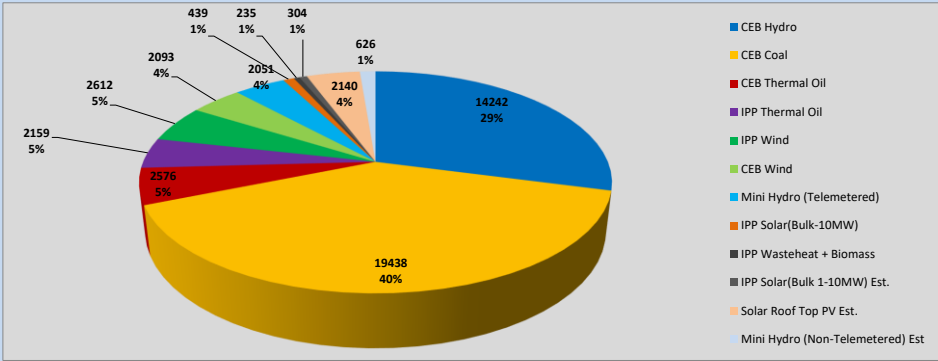


Table 01

	Generation (MWh)
CEB Hydro	14242
CEB Coal	19438
CEB Thermal Oil	2576
IPP Thermal Oil	2159
IPP Wind	2612
CEB Wind	2093
Mini Hydro (Telemetered)	2051
IPP Solar (Bulk)	439
IPP Waste heat + Biomass	235
Total Generation (Excluding estimated figures)	45,845
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	626
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	48,915

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	266	30.51%
CEB Coal	334	38.28%
CEB Thermal Oil	41	4.73%
IPP Thermal	13	1.54%
IPP Wind	45	5.13%
CEB Wind	38	4.35%
Mini Hydro *	75	8.58%
IPP Solar *	54	6.22%
IPP Waste heat + BMP	6	0.65%
Total	872	

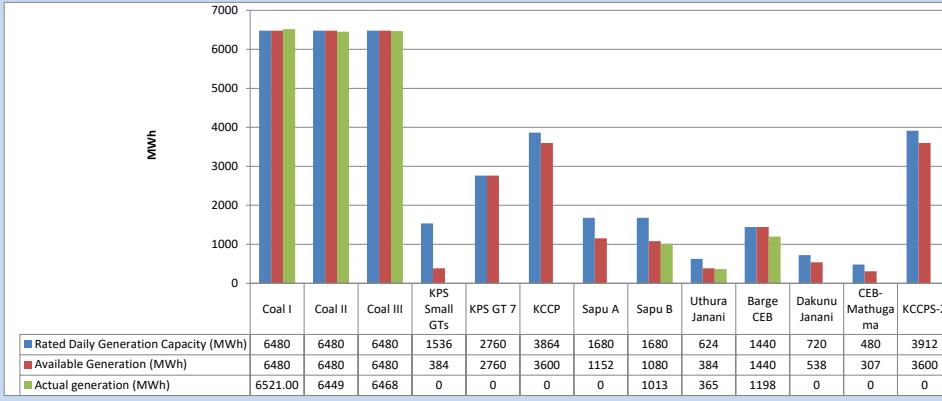
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,718	31.15%
CEB Coal	4,213	35.30%
CEB Thermal Oil	1,172	9.82%
IPP Thermal	523	4.38%
IPP Wind	308	2.58%
CEB Wind	303	2.54%
Mini Hydro *	868	7.28%
IPP Solar *	728	6.10%
IPP Waste heat	103	0.87%
Total	11,936	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 19, 2024

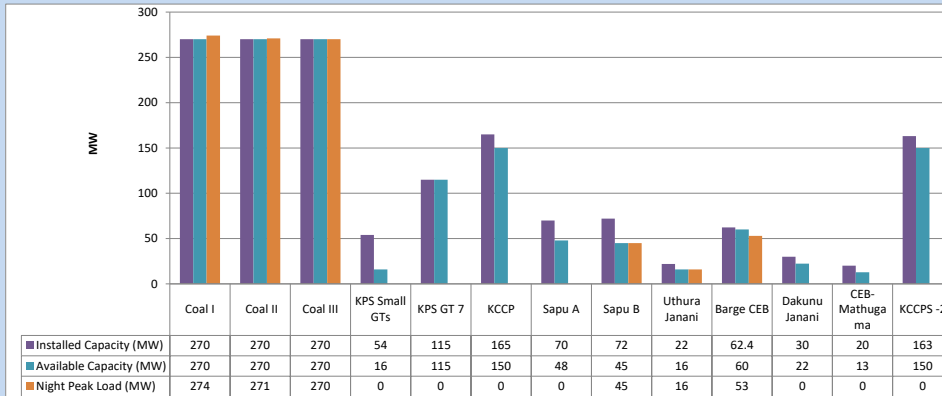


Available Generation is estimated based on plant availability at 6.00am on

September 20, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 19, 2024



Plant availability is recorded at 6.00 am on

September 20, 2024

1.4 IPP owned Thermal Plant Dispatch

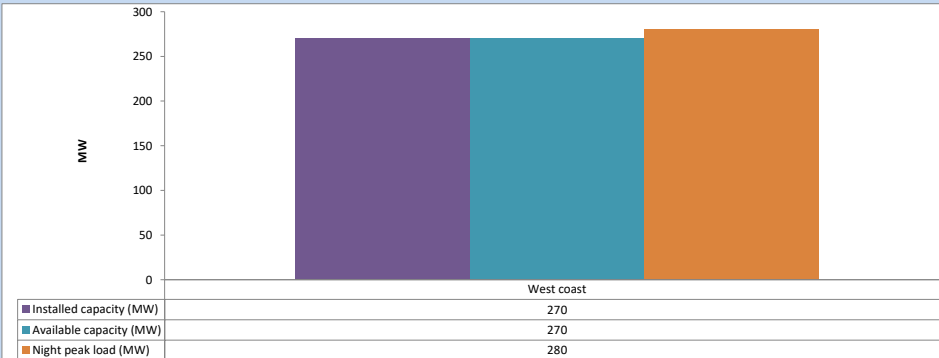
September 19, 2024



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

September 20, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

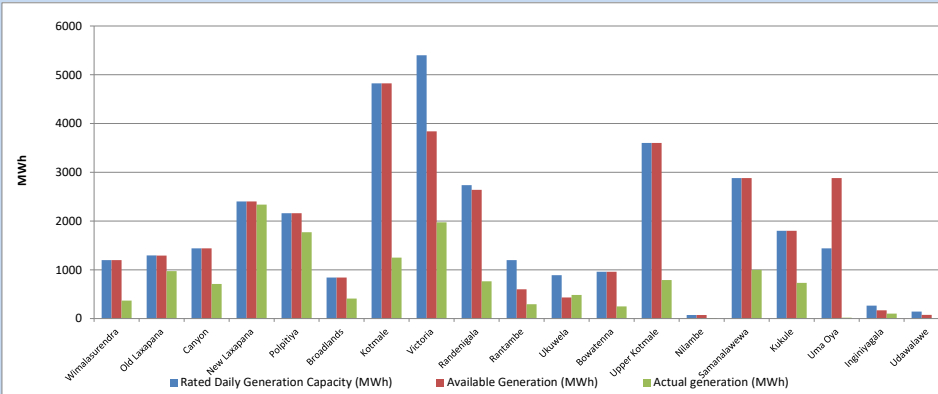


Plant availability is recorded at 6.00 am on

September 20, 2024

1.6 Major Hydro Plant Dispatch

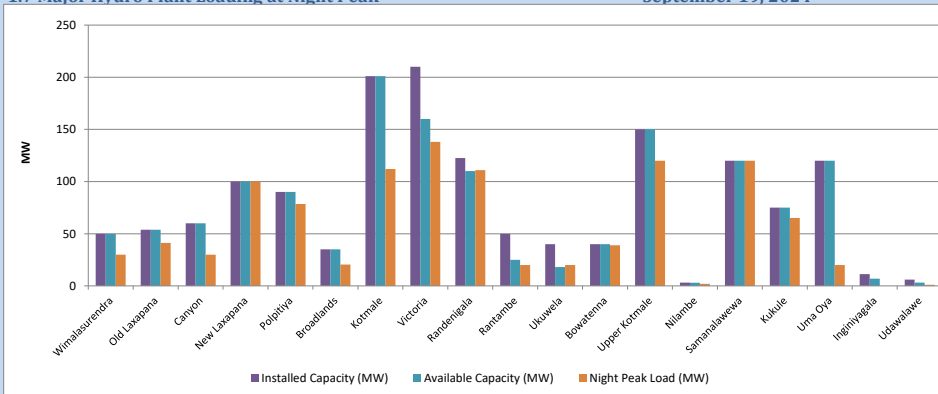
September 19, 2024



Available Generation is estimated based on plant availability at 6.00am on September 20, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 19, 2024



Plant availability is recorded at 6.00 am on September 20, 2024

1.8 Summary of Major Plant performance

September 19, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	368
Old Laxapana	54	54	41	973
Canyon	60	60	30	711
New Laxapana	100	100	100	2,337
Polpitiya	90	90	79	1,770
Broadlands	35	35	21	409
Kotmale	201	201	112	1,250
Victoria	210	160	138	1,975
Randenigala	123	110	111	765
Rantambe	50	25	20	296
Ukuwela	40	18	20	484
Bowatenna	40	40	39	248
Upper Kotmale	150	150	120	791
Nilambe	3	3	2	12
Samanalawewa	120	120	120	998
Kukule	75	75	65	733
Uma Oya	120	120	20	19
Inginiyagala	11	7	0	103
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	274	6,521
Puttalam Coal II	270	270	271	6,449
Puttalam Coal III	270	270	270	6,468
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	0	0
Sapugaskanda B	72	45	45	1,013
Uthura Janani	22	16	16	365
Barge CEB	62	60	53	1,198
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	270	280	2,159
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	3,136	2,551	45,845

Note- Plant availability is the availability recorded at 6 am on September 20, 2024

1.9 Contribution to the Night Peak in MW

September 19, 2024

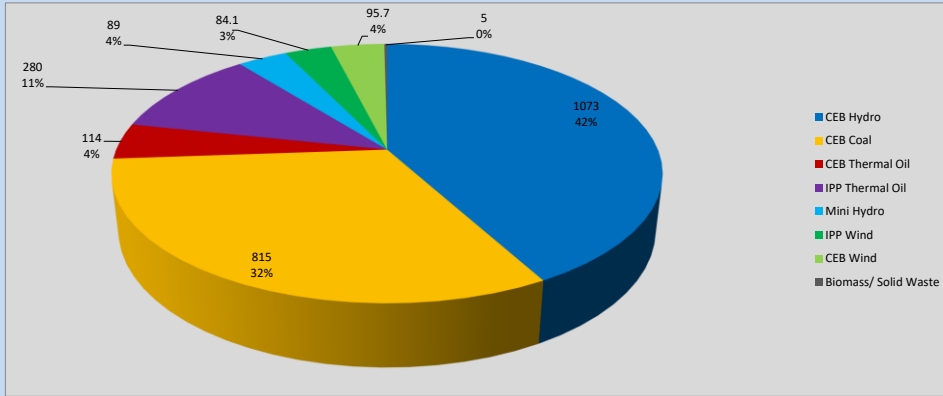


Table 05

CEB Hydro	1073	MW
CEB Coal	815	MW
CEB Thermal Oil	114	MW
IPP Thermal Oil	280	MW
Mini Hydro (Telemetered)	89	MW
IPP Wind	84.1	MW
CEB Wind	95.7	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

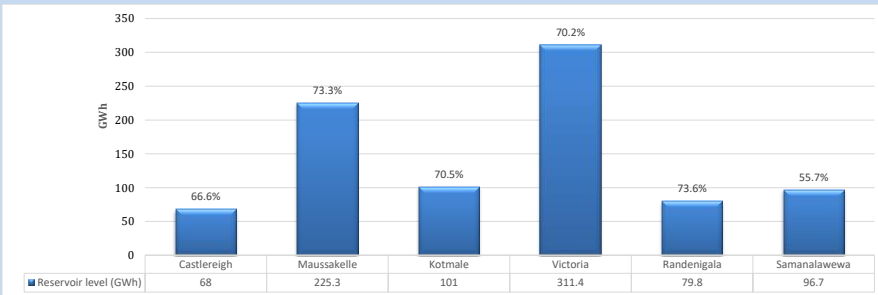
Table 06

Night Peak*	2,556	MW
Day Peak Maximum Demand	2,234	MW
Day Peak Minimum Demand	1,716	MW
Off Peak Minimum Demand	1,500	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 20, 2024



Total Reservoir Level
882.2 GWh
% of Total capacity
69.0%

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

September 19, 2024

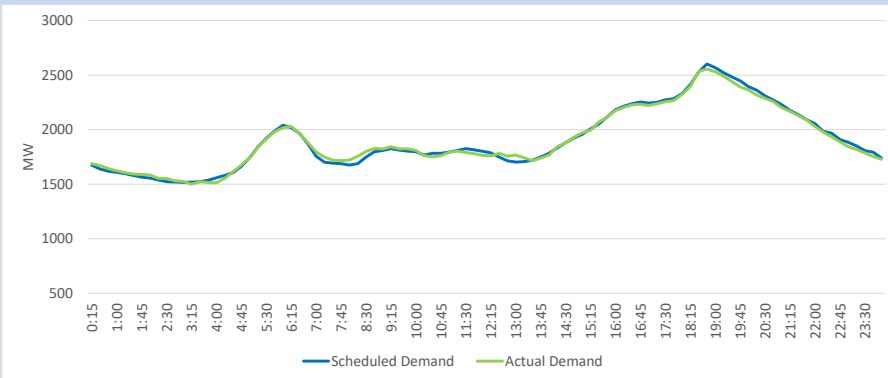
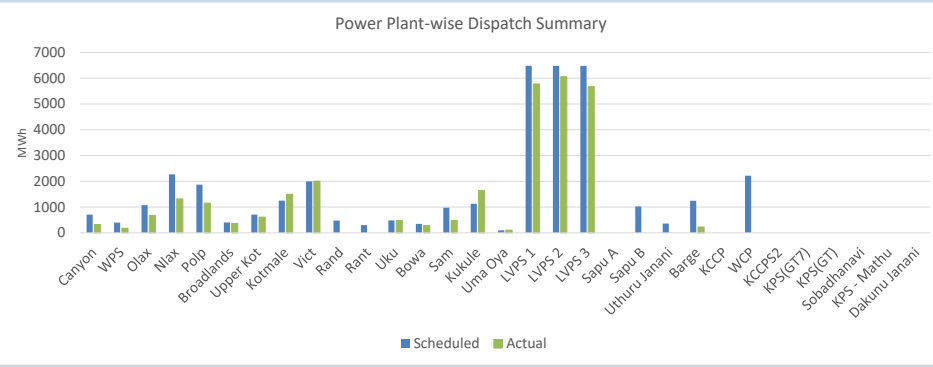


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,477	11,093	(3,383)
CEB Coal	19,435	17,502	(1,933)
CEB Thermal Oil	2,627	228	(2,398)
IPP Thermal Oil	2,214	-	(2,214)
NCRE (Telemetered)	6,991	7,184	193
Total	45,744	36,008	-9736

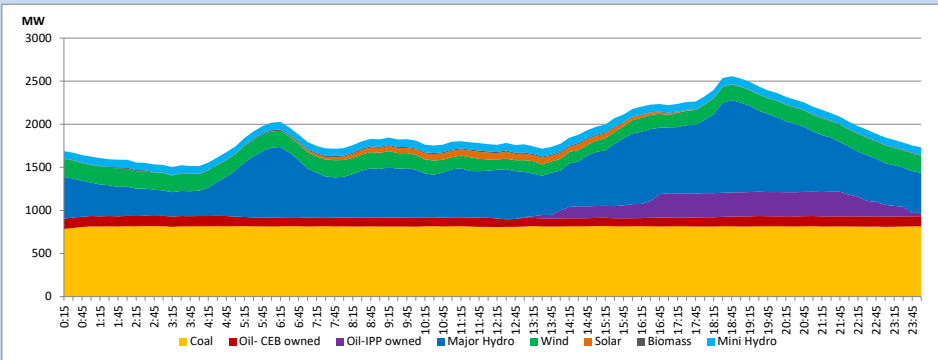
1.12 Power Plant-wise Dispatch Summary

September 19, 2024



1.13 Daily Load Curve

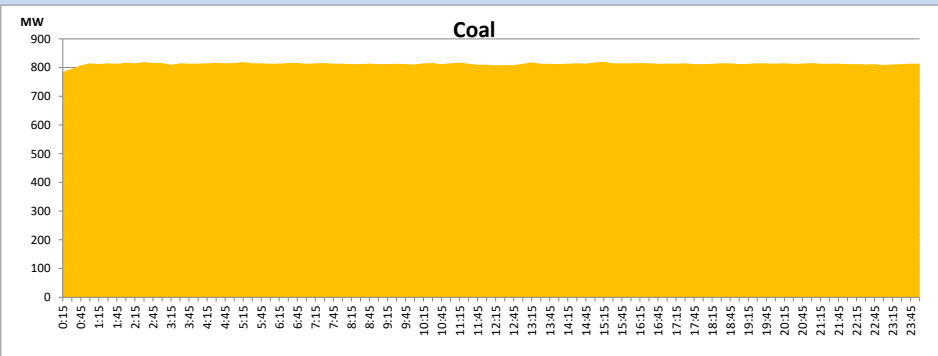
September 19, 2024



Solar and wind data is based on Telemetered Power Stations only

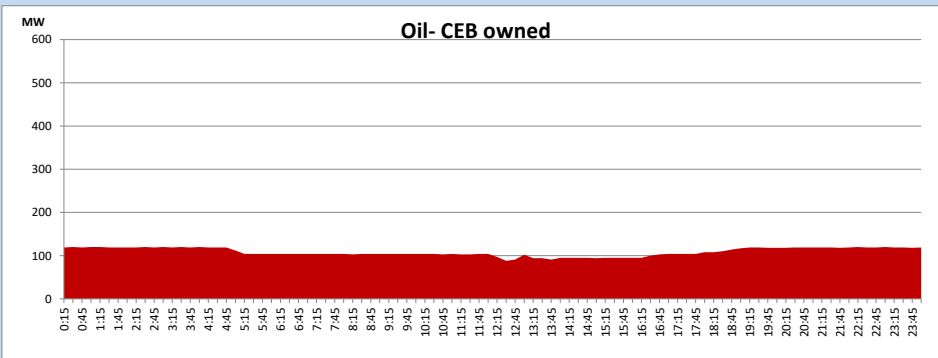
Coal Generation during

September 19, 2024

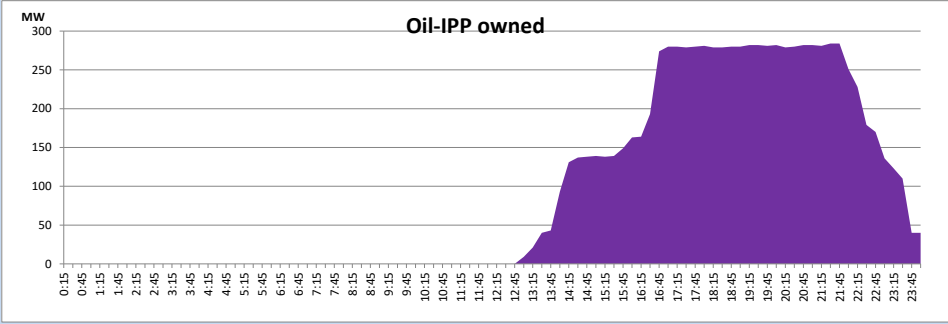


CEB Oil Plant Generation during

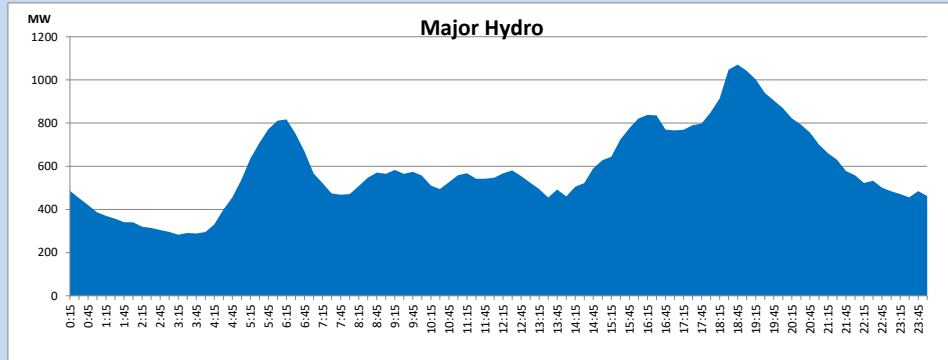
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IPP Oil Plant Generation during September 19, 2024

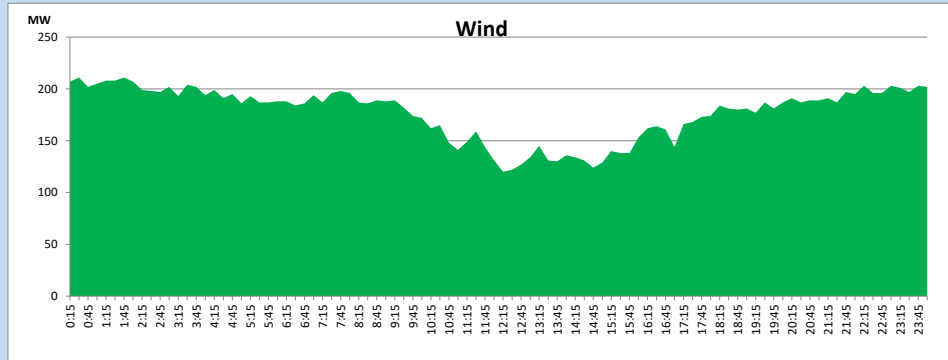


Major Hydro Generation during September 19, 2024



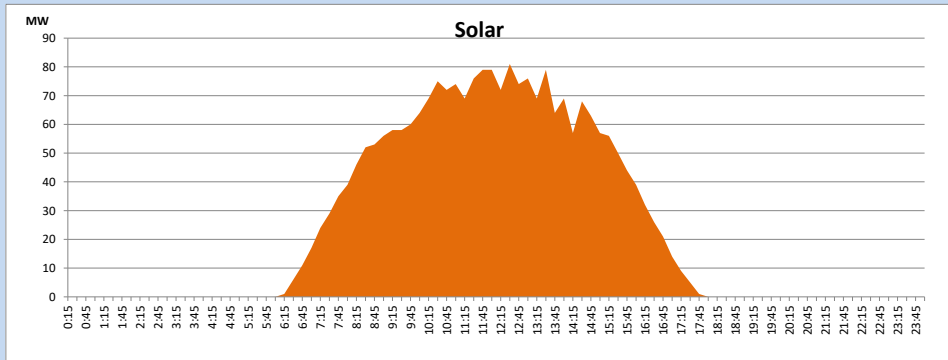
Wind Generation during September 19, 2024

Based on Telemetered Power Stations only



Solar Generation during September 19, 2024

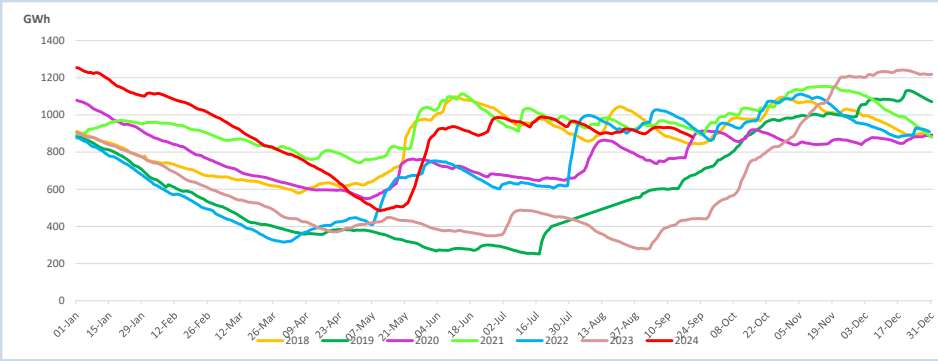
Based on Telemetered Power Stations only



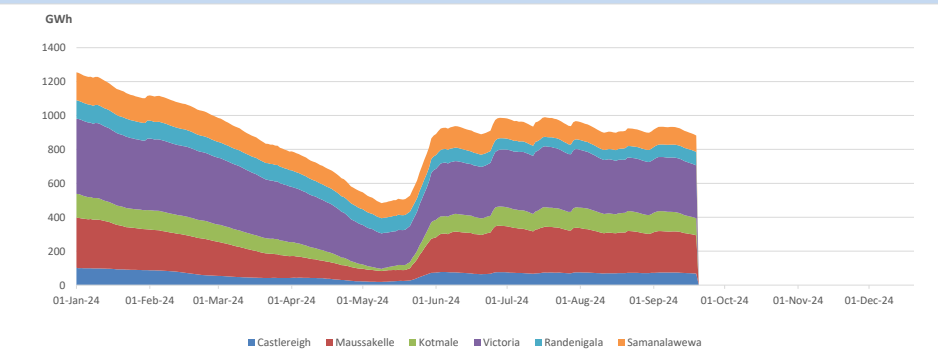
1.14 Major Incidents reported during the day September 19, 2024

Nil.

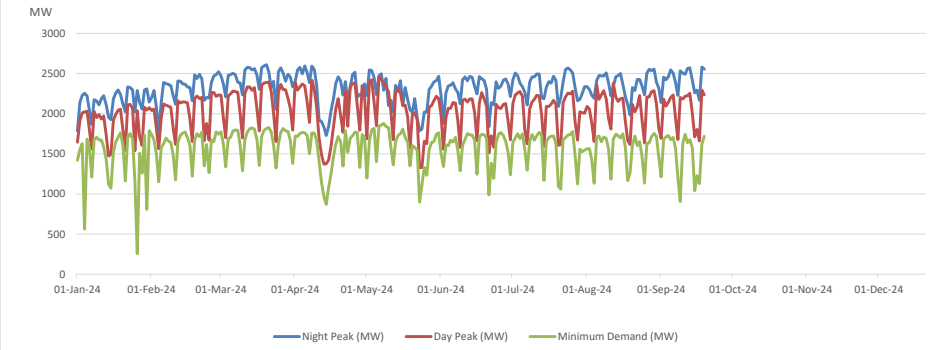
2. Comparison of Total Reservoir Storage Levels with Past Years



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

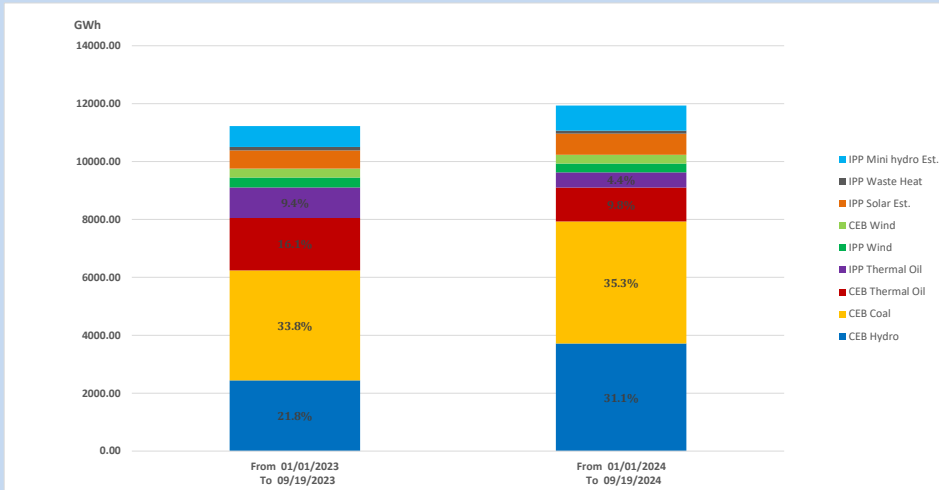


4. Variation of Demand during the current year



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 09/19/2023

11225 GWh

From 01/01/2024 To 09/19/2024

11936 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