Generation and Reservoirs Statistics

September 20, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 20, 2024

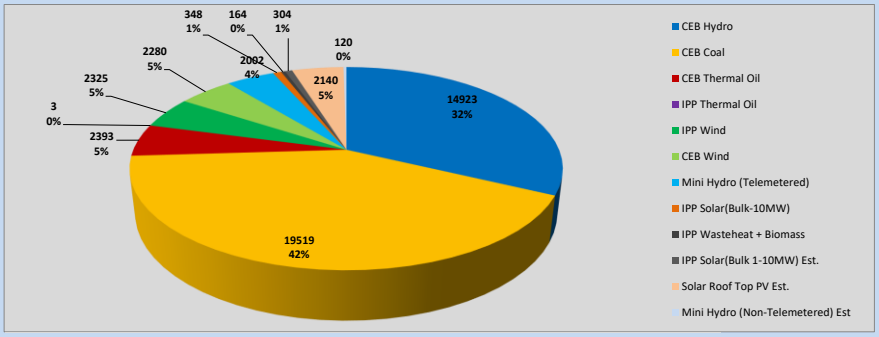


Table 01

	Generation (MWh)
CEB Hydro	14923
CEB Coal	19519
CEB Thermal Oil	2393
IPP Thermal Oil	3
IPP Wind	2325
CEB Wind	2280
Mini Hydro (Telemetered)	2002
IPP Solar (Bulk)	348
IPP Waste heat + Biomass	164
Total Generation (Excluding estimated figures)	43,957
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	120
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	**46,521**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	281	30.59%
CEB Coal	354	38.47%
CEB Thermal Oil	44	4.75%
IPP Thermal	13	1.47%
IPP Wind	47	5.13%
CEB Wind	40	4.37%
Mini Hydro *	77	8.38%
IPP Solar *	57	6.21%
IPP Waste heat + BMP	6	0.64%
Total	**919**	

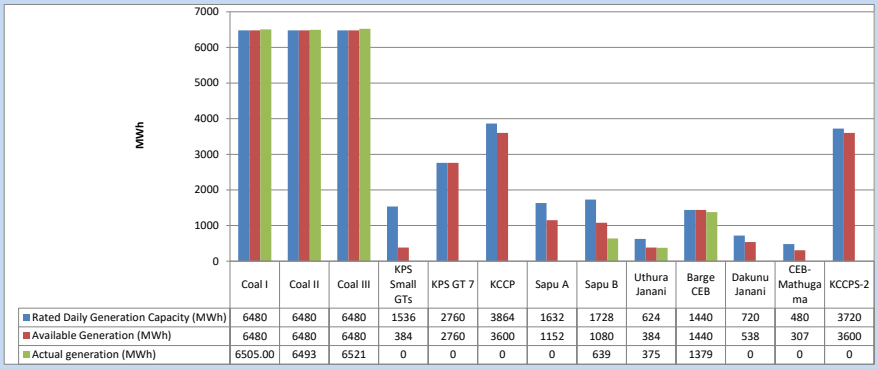
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,733	31.15%
CEB Coal	4,232	35.32%
CEB Thermal Oil	1,174	9.80%
IPP Thermal	523	4.36%
IPP Wind	310	2.59%
CEB Wind	306	2.55%
Mini Hydro *	871	7.27%
IPP Solar *	731	6.10%
IPP Waste heat	104	0.86%
Total	**11,983**	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 20, 2024

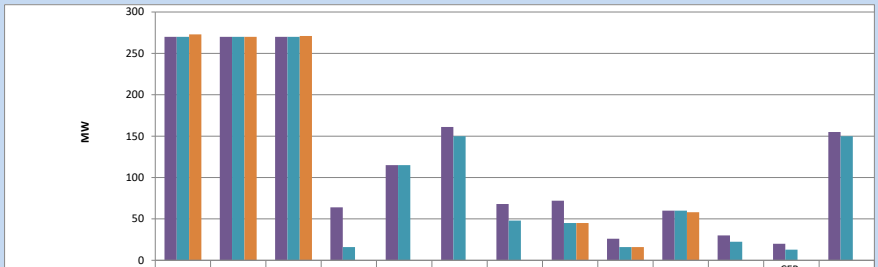


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1632	1728	624	1440	720	480	3720
Available Generation (MWh)	6480	6480	6480	384	2760	3600	1152	1080	384	1440	538	307	3600
Actual generation (MWh)	6505.00	6493	6521	0	0	0	0	639	375	1379	0	0	0

Available Generation is estimated based on plant availability at 6.00am on September 21, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 20, 2024

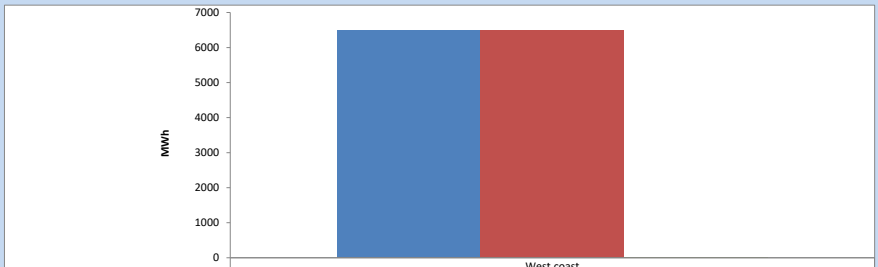


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	68	72	26	60	30	20	155
Available Capacity (MW)	270	270	270	16	115	150	48	45	16	60	22	13	150
Night Peak Load (MW)	273	270	271	0	0	0	0	45	16	58	0	0	0

Plant availability is recorded at 6.00 am on September 21, 2024

1.4 IPP owned Thermal Plant Dispatch

September 20, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	3

Available Generation is estimated based on plant availability at 6.00am on September 21, 2024

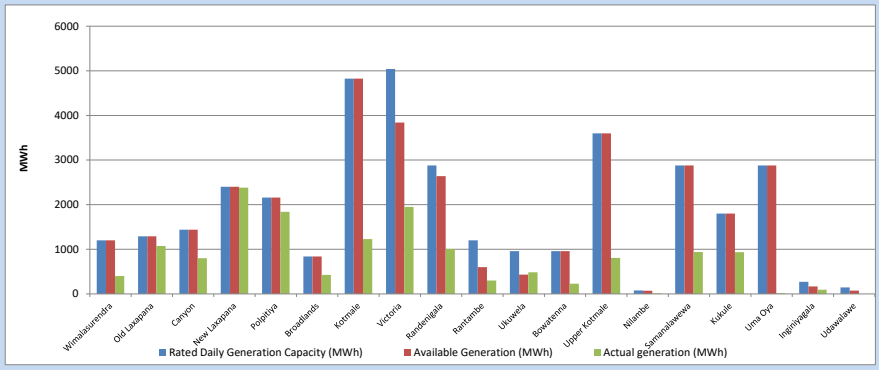
1.5 IPP owned Thermal Plant Loading at the Night Peak

	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	0

Plant availability is recorded at 6.00 am on September 21, 2024

1.6 Major Hydro Plant Dispatch

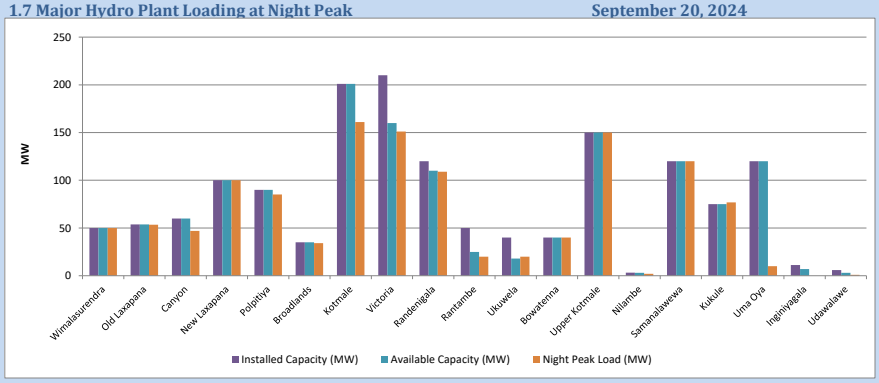
September 20, 2024



Available Generation is estimated based on plant availability at 6.00am on September 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 20, 2024



Plant availability is recorded at 6.00 am on September 21, 2024

1.8 Summary of Major Plant performance

September 20, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	400
Old Laxapana	54	54	54	1,075
Canyon	60	60	47	799
New Laxapana	100	100	100	2,382
Polpitiya	90	90	85	1,840
Broadlands	35	35	34	427
Kotmale	201	201	161	1,230
Victoria	210	160	151	1,951
Randenigala	120	110	109	1,006
Rantambe	50	25	20	300
Ukuwela	40	18	20	484
Bowatenna	40	40	40	229
Upper Kotmale	150	150	150	806
Nilambe	3	3	2	13
Samanalawewa	120	120	120	939
Kukule	75	75	77	936
Uma Oya	120	120	10	15
Inginiyagala	11	7	0	93
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	273	6,505
Puttalam Coal II	270	270	270	6,493
Puttalam Coal III	270	270	271	6,521
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	45	639
Uthura Janani	26	16	16	375
Barge CEB	60	60	58	1,379
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	0	3
Sobadhanavi	220	212	0	0
Total	3,606	3,136	2,436	43,959

Note-

Plant availability is the availability recorded at 6 am on September 21, 2024

1.9 Contribution to the Night Peak in MW

September 20, 2024

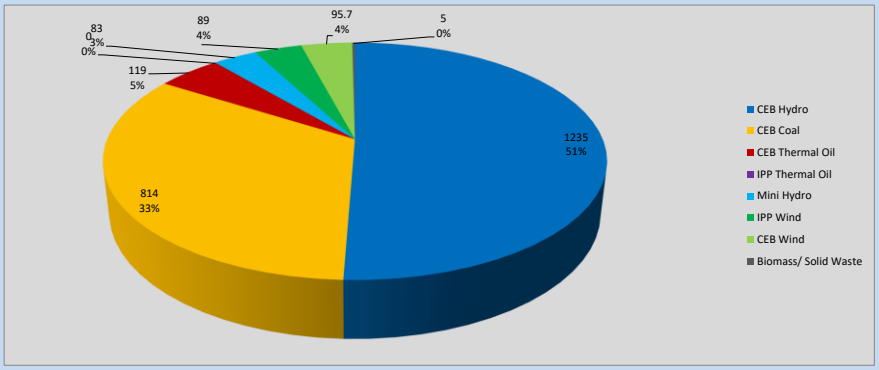


Table 05

CEB Hydro	1235	MW
CEB Coal	814	MW
CEB Thermal Oil	119	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	83	MW
IPP Wind	89	MW
CEB Wind	95.7	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

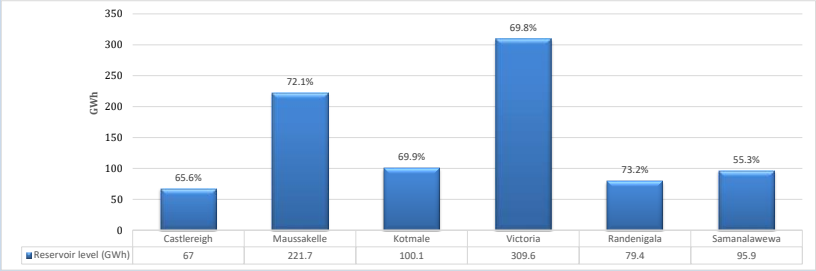
Table 06

Night Peak*	2,440	MW
Day Peak Maximum Demand	2,128	MW
Day Peak Minimum Demand	1,598	MW
Off Peak Minimum Demand	1,511	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 21, 2024



Total Reservoir Level 873.7 GWh
% of Total capacity 68.4%

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

September 20, 2024

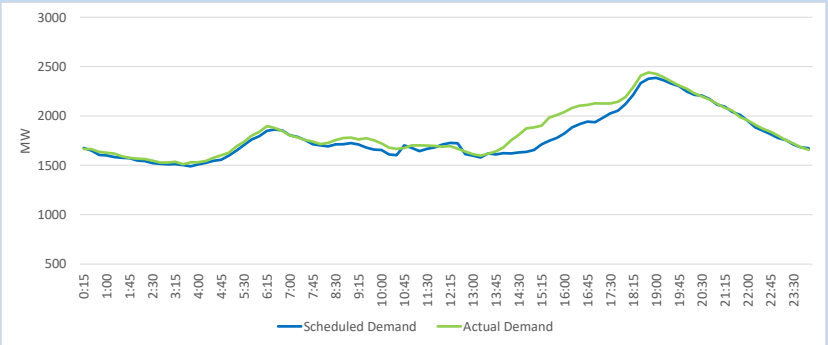
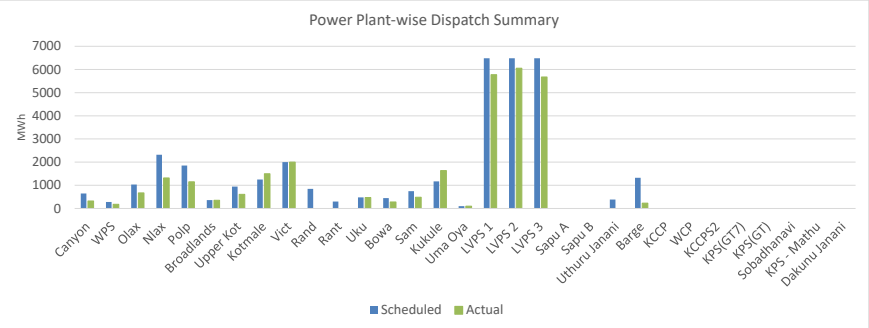


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,783	11,093	(3,690)
CEB Coal	19,440	17,502	(1,938)
CEB Thermal Oil	1,707	228	(1,478)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	6,891	7,277	386
Total	**42,820**	**36,100**	**-6720**

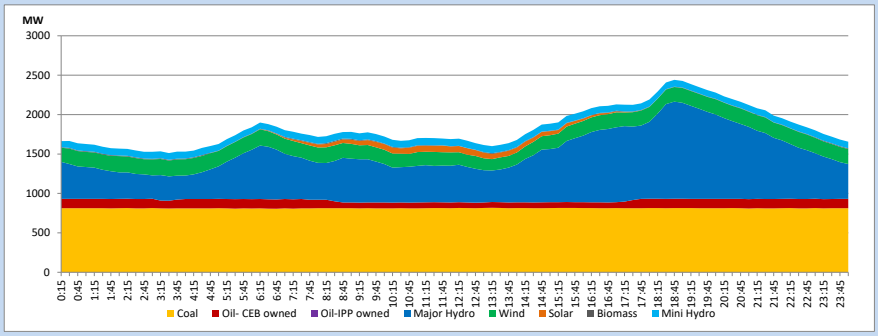
1.12 Power Plant-wise Dispatch Summary

September 20, 2024



1.13 Daily Load Curve

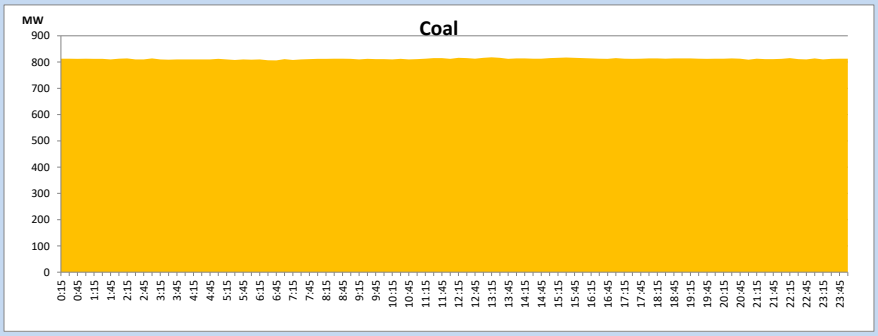
September 20, 2024



Solar and wind data is based on Telemetered Power Stations only

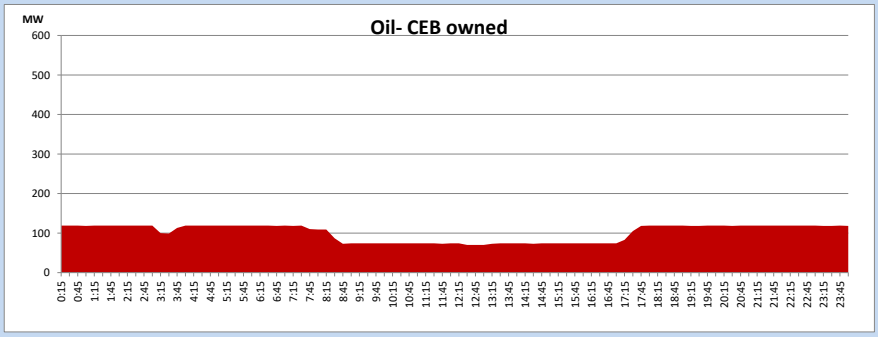
Coal Generation during

September 20, 2024

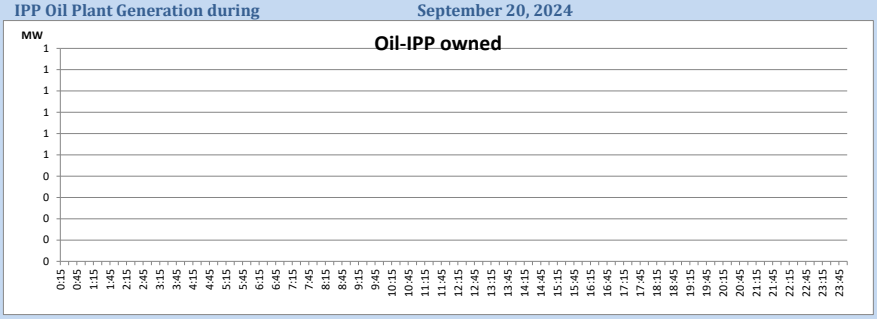


CEB Oil Plant Generation during

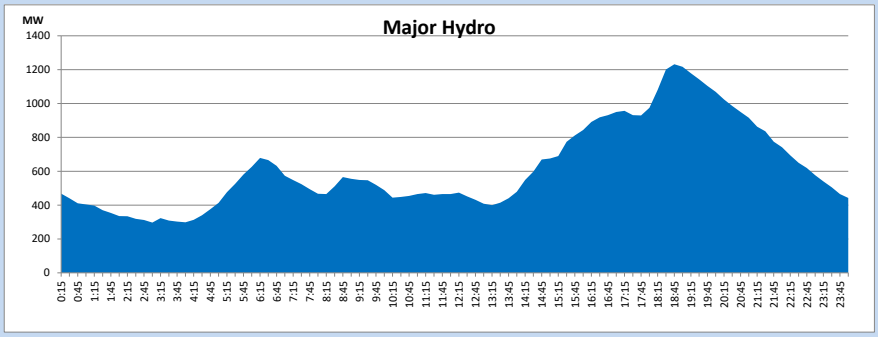
September 20, 2024



IPP Oil Plant Generation during **September 20, 2024**

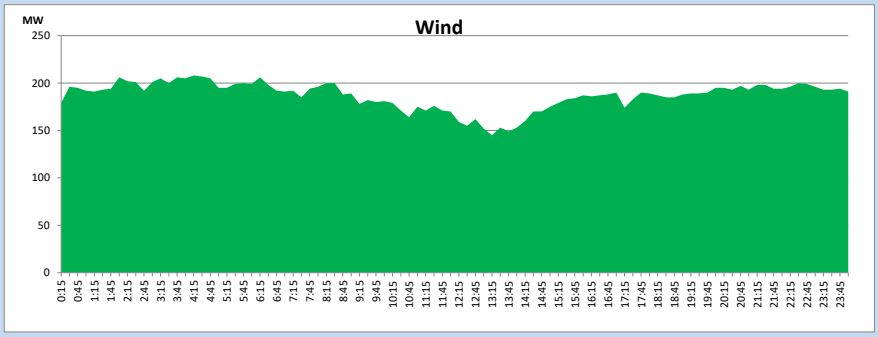


Major Hydro Generation during **September 20, 2024**



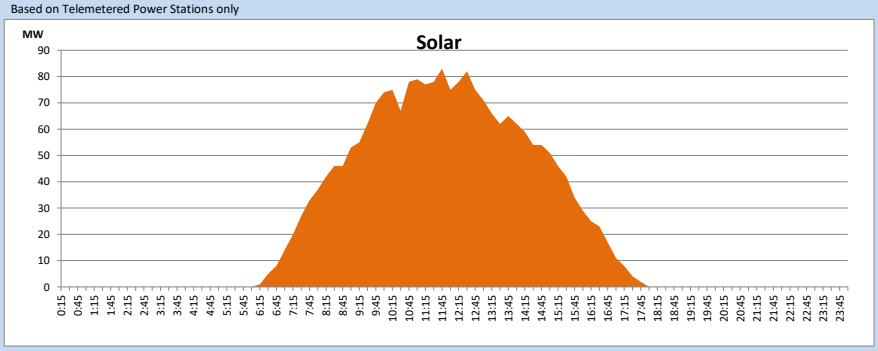
Wind Generation during **September 20, 2024**

Based on Telemetered Power Stations only



Solar Generation during **September 20, 2024**

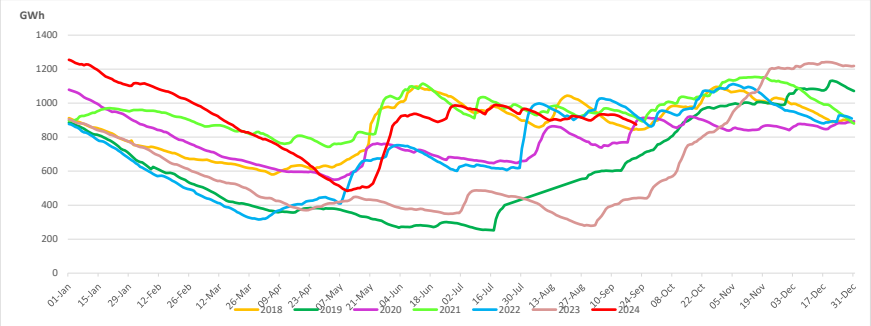
Based on Telemetered Power Stations only



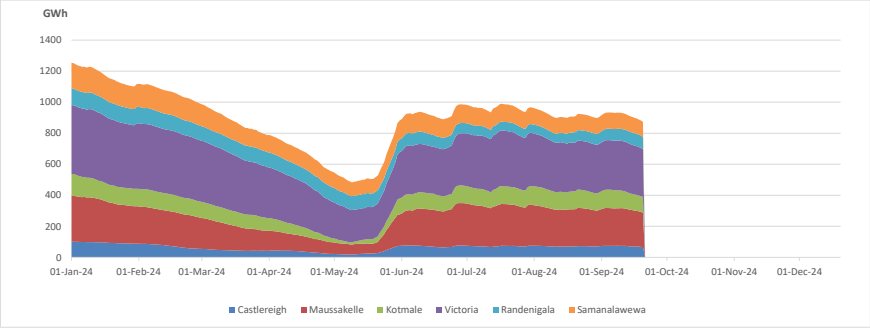
1.14 Major Incidents reported during the day **September 20, 2024**

01) At 09:18hrs, system frequency dropped to 49.05Hz due to the tripping of Randenigala unit 01, rejecting 55MW from the system. The Randenigala unit 01 made available forgeneration at 10:18hrs.

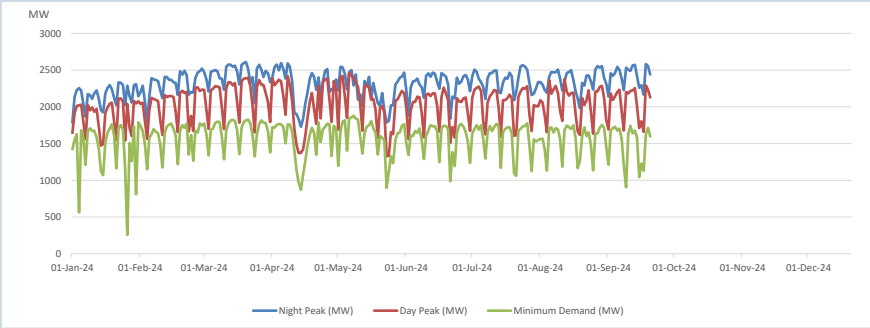
2. Comparison of Total Reservoir Storage Levels with Past Years



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

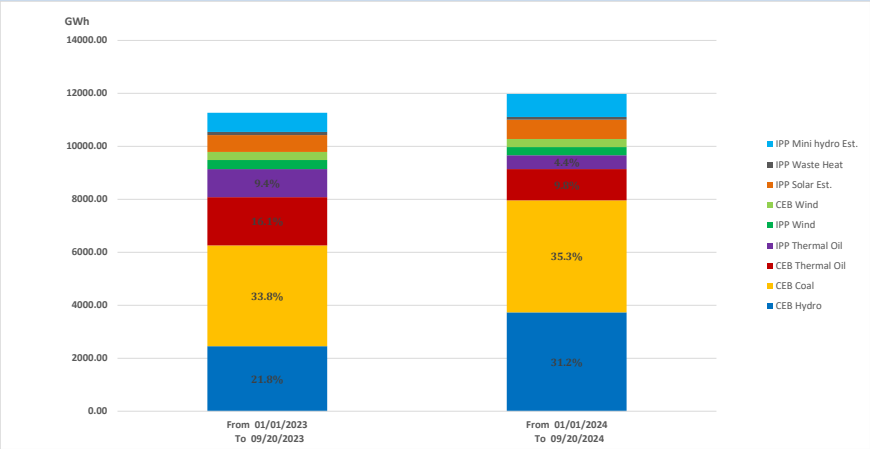


4. Variation of Demand during the current year



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 09/20/2023	**11265 GWh**
From 01/01/2024 To 09/20/2024	**11983 GWh**

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unserved 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 Capcity

Table 09

	Installed Capacity (MW)
CEB Hydro	1535
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	490
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