Generation and Reservoirs Statistics

August 12, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 12, 2024

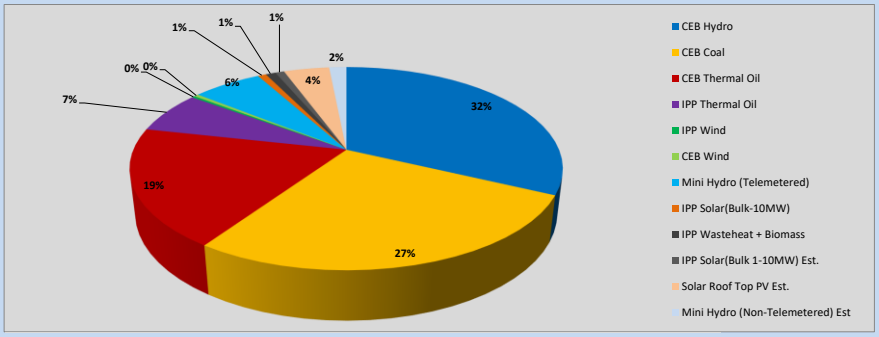


Table 01

	Generation (MWh)
CEB Hydro	15164
CEB Coal	13014
CEB Thermal Oil	8956
IPP Thermal Oil	3145
IPP Wind	139
CEB Wind	186
Mini Hydro (Telemetered)	2925
IPP Solar (Bulk)	350
IPP Waste heat + Biomass	420
Total Generation (Excluding estimated figures)	44,299
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	728
* Estimated IPP Solar PV (Bulk 1-10MW)	378
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	**47,325**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

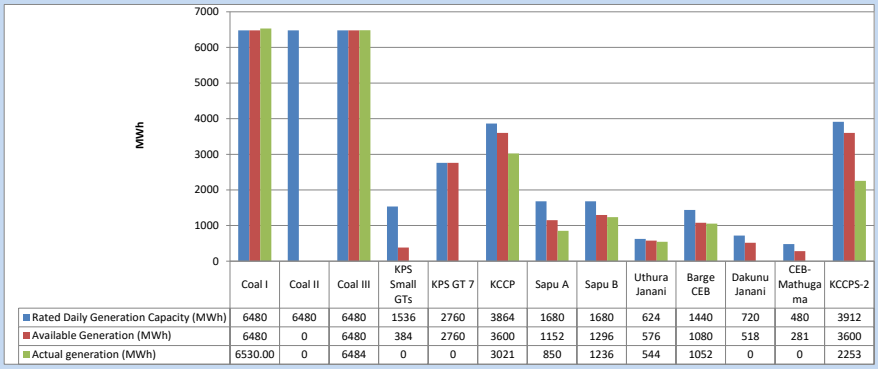
Category	Dispatch (GWh)	
CEB Hydro	200	36.16%
CEB Coal	156	28.13%
CEB Thermal Oil	78	14.13%
IPP Thermal	22	3.93%
SPP Wind	11	2.02%
CEB Wind	12	2.16%
Mini Hydro *	40	7.16%
IPP Solar *	31	5.56%
IPP Waste heat + BMP	4	0.75%
Total	**553**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,217	31.58%
CEB Coal	3,590	35.24%
CEB Thermal Oil	1,008	9.90%
IPP Thermal	498	4.88%
SPP Wind	224	2.20%
CEB Wind	228	2.24%
Mini Hydro *	704	6.91%
IPP Solar *	626	6.15%
IPP Waste heat	91	0.89%
Total	**10,186**	

*Including estimated contribution from non telemetered plants

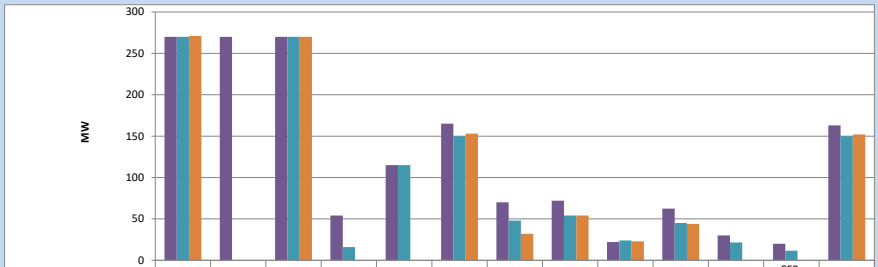
1.2 CEB owned Thermal Plant Dispatch August 12, 2024



	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	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	6480	0	6480	384	2760	3600	1152	1296	576	1080	518	281	3600
Actual generation (MWh)	6530.00	0	6484	0	0	3021	850	1236	544	1052	0	0	2253

Available Generation is estimated based on plant availability at 6.00am on August 13, 2024

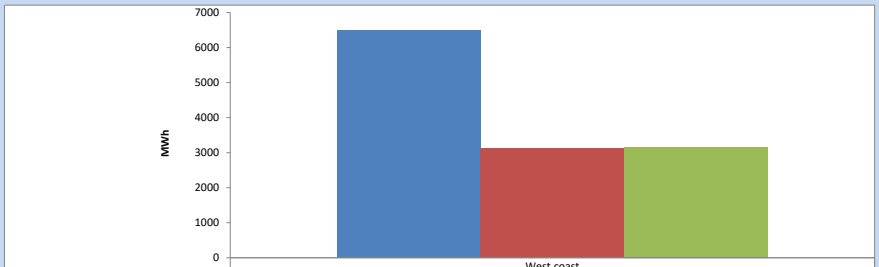
1.3 CEB owned Thermal Plant Loading at the Night Peak August 12, 2024



	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	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	0	270	16	115	150	48	54	24	45	22	12	150
Night Peak Load (MW)	271	0	270	0	0	153	32	54	23	44	0	0	152

Plant availability is recorded at 6.00 am on August 13, 2024

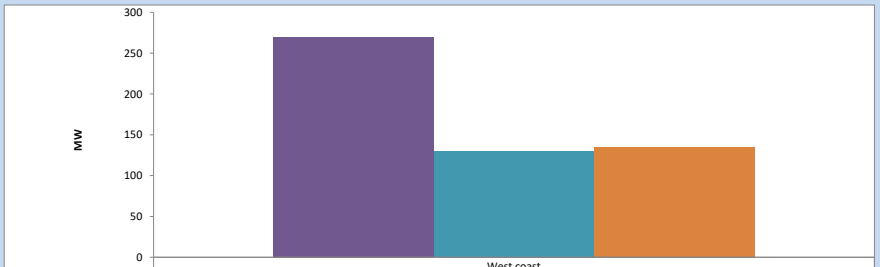
1.4 IPP owned Thermal Plant Dispatch August 12, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	3120
Actual generation (MWh)	3145

Available Generation is estimated based on plant availability at 6.00am on August 13, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

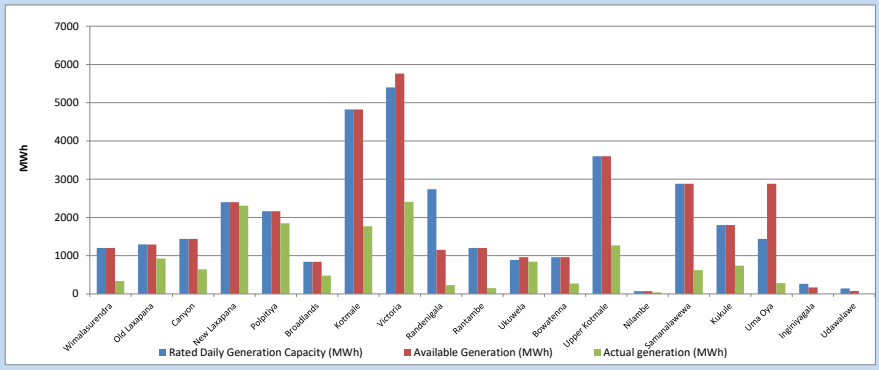


	West coast
Installed capacity (MW)	270
Available capacity (MW)	130
Night peak load (MW)	135

Plant availability is recorded at 6.00 am on August 13, 2024

1.6 Major Hydro Plant Dispatch

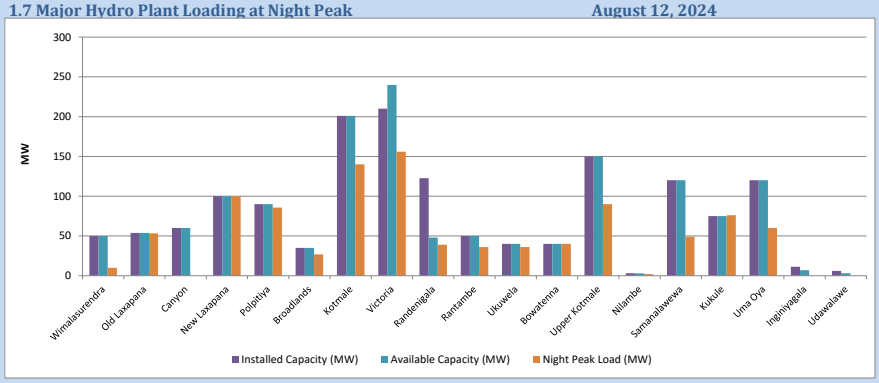
August 12, 2024



Available Generation is estimated based on plant availability at 6.00am on August 13, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 12, 2024



Plant availability is recorded at 6.00 am on August 13, 2024

1.8 Summary of Major Plant performance

August 12, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	10	335
Old Laxapana	54	54	53	928
Canyon	60	60	0	645
New Laxapana	100	100	100	2,309
Polpitiya	90	90	86	1,850
Broadlands	35	35	27	478
Kotmale	201	201	140	1,770
Victoria	210	240	156	2,406
Randenigala	123	48	39	229
Rantambe	50	50	36	149
Ukuwela	40	40	36	845
Bowatenna	40	40	40	271
Upper Kotmale	150	150	90	1,269
Nilambe	3	3	2	43
Samanalawewa	120	120	49	620
Kukule	75	75	76	737
Uma Oya	120	120	60	282
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,530
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	6,484
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	153	3,021
Sapugaskanda A	70	48	32	850
Sapugaskanda B	72	54	54	1,236
Uthura Janani	22	24	23	544
Barge CEB	62	45	44	1,052
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	152	2,253
West Coast	270	130	135	3,145
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,791	2,332	44,301

Note-

Plant availability is the availability recorded at 6 am on August 13, 2024

1.9 Contribution to the Night Peak in MW

August 12, 2024

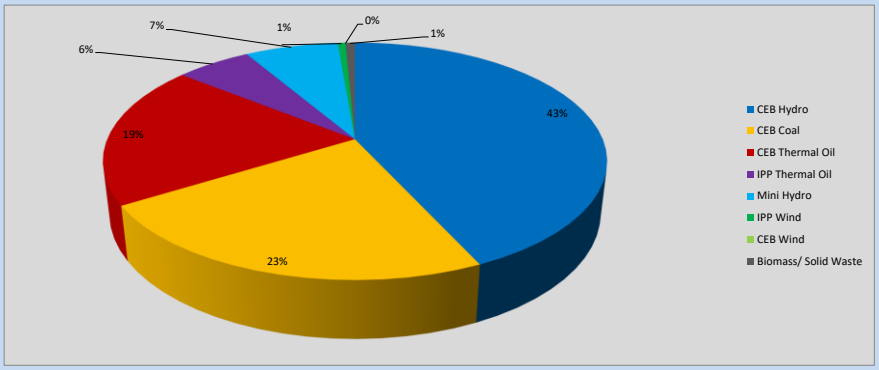


Table 05

CEB Hydro	1010	MW
CEB Coal	541	MW
CEB Thermal Oil	458	MW
IPP Thermal Oil	135	MW
Mini Hydro (Telemetered)	168	MW
IPP Wind	14	MW
CEB Wind	0	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

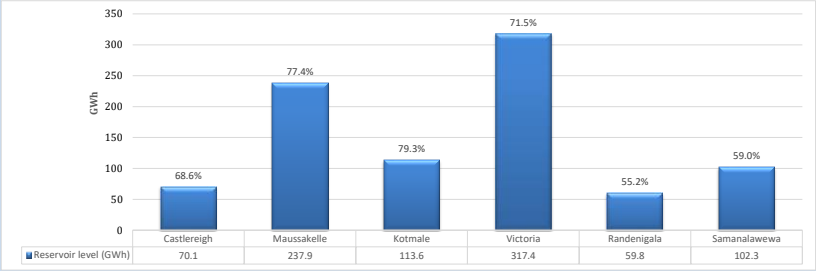
Table 06

Night Peak*	2,343	MW
Day Peak Maximum Demand	2,378	MW
Day Peak Minimum Demand	1,682	MW
Off Peak Minimum Demand	1,372	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 13, 2024



Total Reservoir Level 901.1 GWh
% of Total capacity 70.5%

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

August 12, 2024

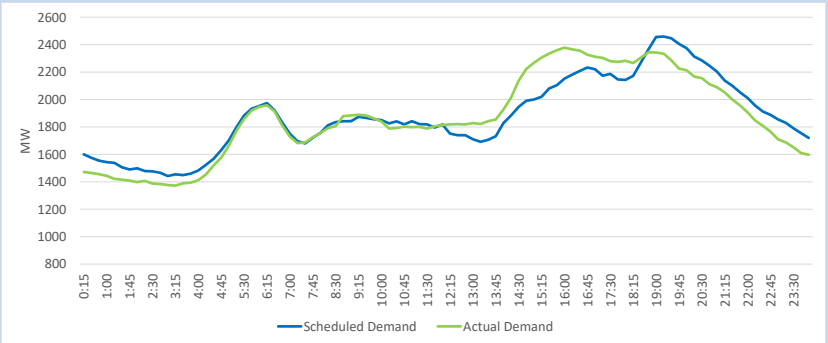
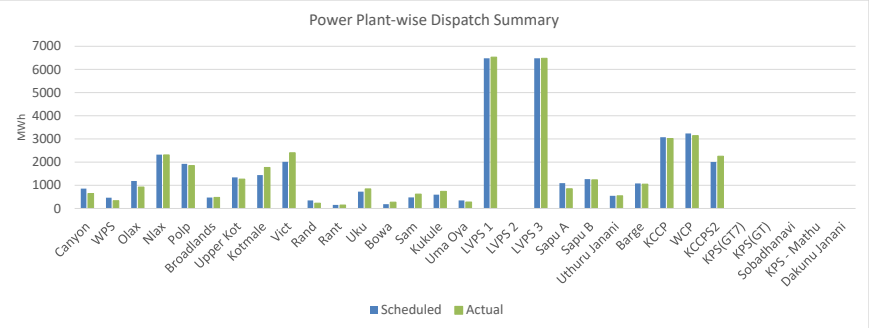


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,877	15,121	244
CEB Coal	12,960	13,015	55
CEB Thermal Oil	9,070	8,954	-116
IPP Thermal Oil	3,240	3,145	-95
NCRE (Telemetered)	4,914	3,938	-976
Total	**45,061**	**44,172**	**-889**

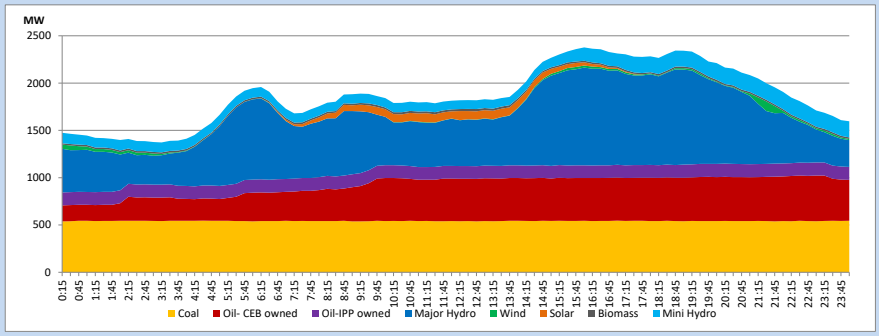
1.12 Power Plant-wise Dispatch Summary

August 12, 2024



1.13 Daily Load Curve

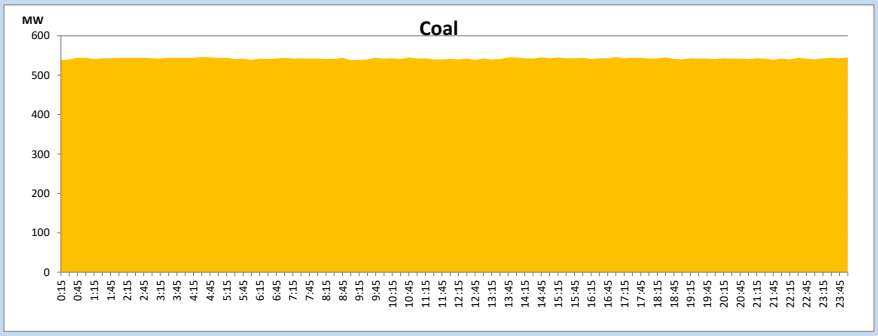
August 12, 2024



Solar and wind data is based on Telemetered Power Stations only

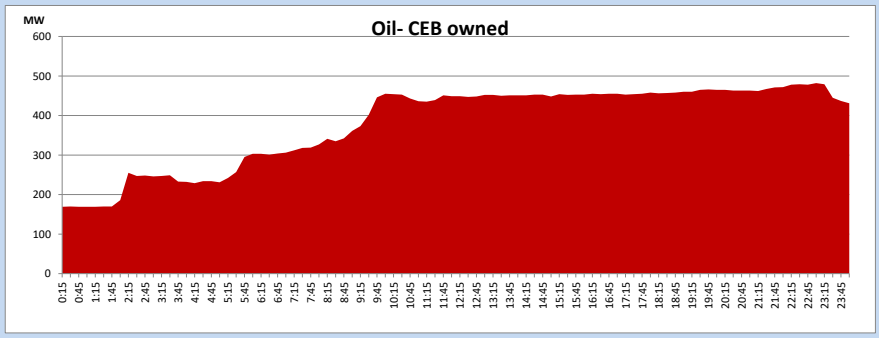
Coal Generation during

August 12, 2024

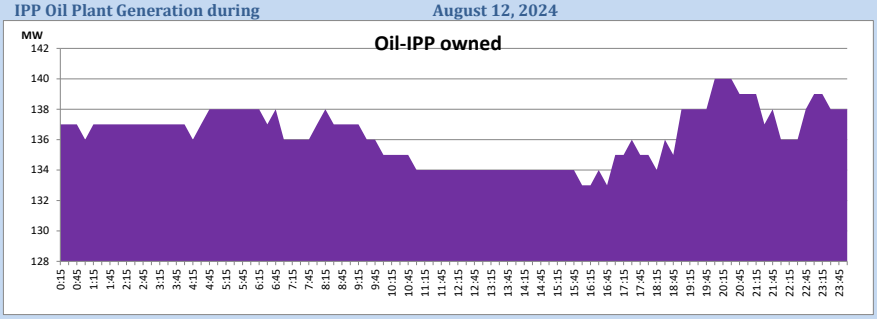


CEB Oil Plant Generation during

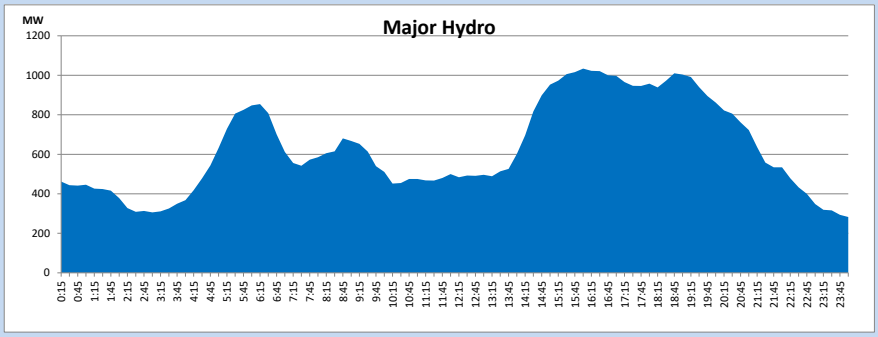
August 12, 2024



IPP Oil Plant Generation during **August 12, 2024**

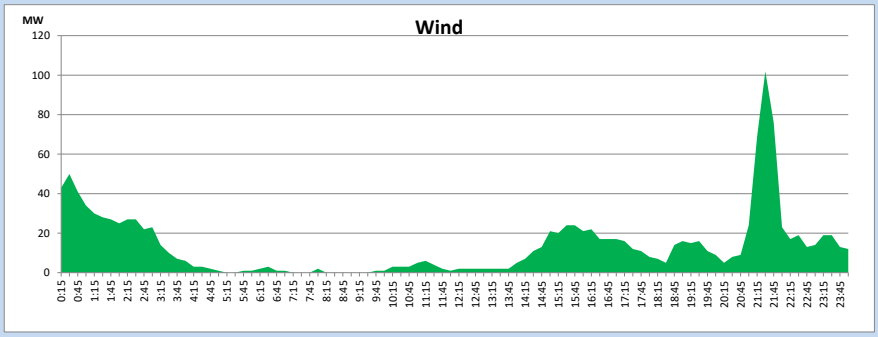


Major Hydro Generation during **August 12, 2024**



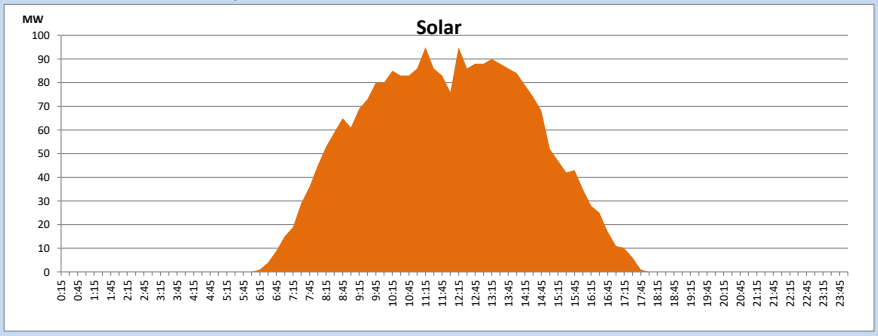
Wind Generation during **August 12, 2024**

Based on Telemetered Power Stations only



Solar Generation during **August 12, 2024**

Based on Telemetered Power Stations only



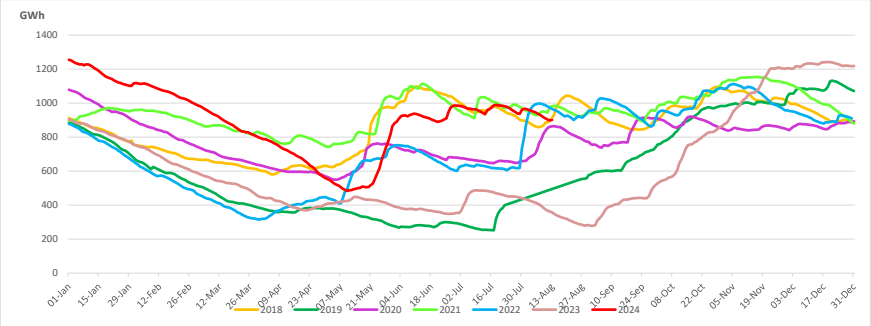
1.14 Major Incidents reported during the day **August 12, 2024**

1) Bolawatta 132/33kV T/F 01 and 33kV B/S tripped from both ends at 9:29hrs due to the operation of E/F & O/C Protection, causing feeders 01,03,05 & 07 to be dead. The 33kV B/S & 132/33kV T/F 01 were normalized at 10:00hrs & 10:08hrs respectively. All affected feeders except feeder 07 were normalized by 10:09hrs and feeder 07 was normalized by 12:57hrs.
2) New Chilaw - Puttalam 132kV cct 01 tripped from both ends at 11:16hrs due to the operation of distance protection. The cct was normalized at 11:30hrs.

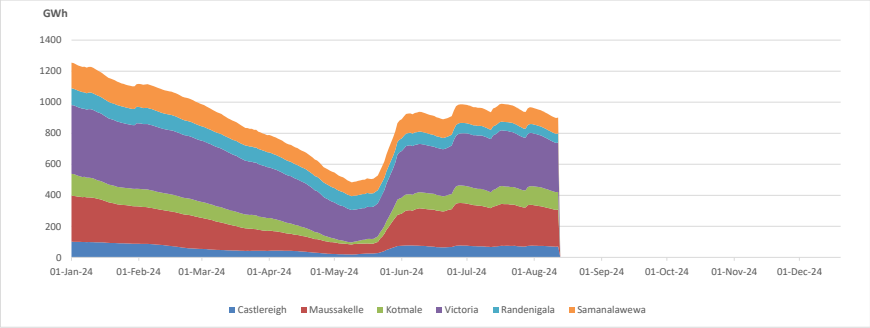
3) New Chilaw - Puttalam 132kV cct 01 tripped from both ends at 11:39hrs due to the operation of distance protection. The cct was normalized at 17:26hrs.

4) Habarana - Ukuwela 132kV cct which tripped on 11.08.2024 was normalized at 13.08hrs.
5) KCCPS 02 ST tripped at 04:58hrs (13.08.2024) rejecting 50MW from the system and subsequently, KCCPS 02 de-loaded to 55MW. KCCPS 02 ST is yet to resume generation.

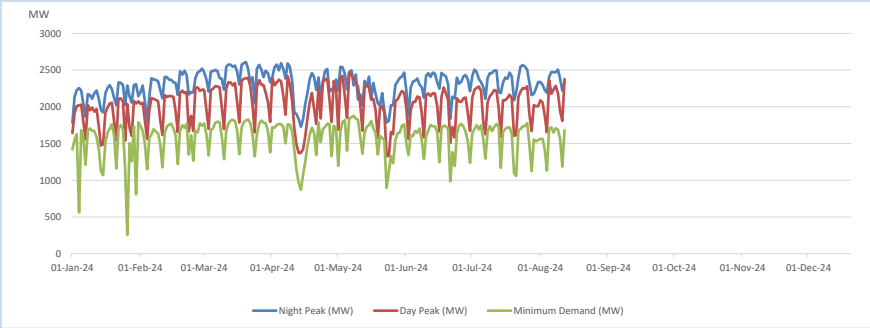
2. Comparison of Total Reservoir Storage Levels with Past Years



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

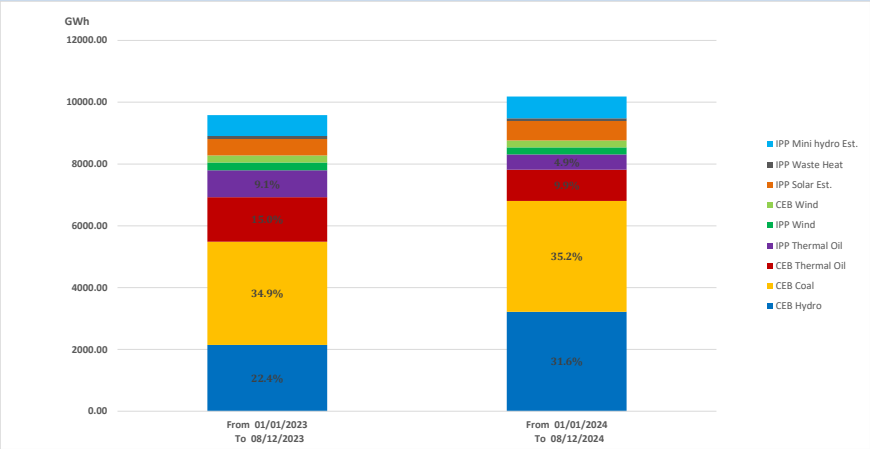


4. Variation of Demand during the current year



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 08/12/2023 **9583 GWh**

From 01/01/2024 To 08/12/2024 **10186 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	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 [Mar-2024]