Generation and Reservoirs Statistics

December 8, 2023

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

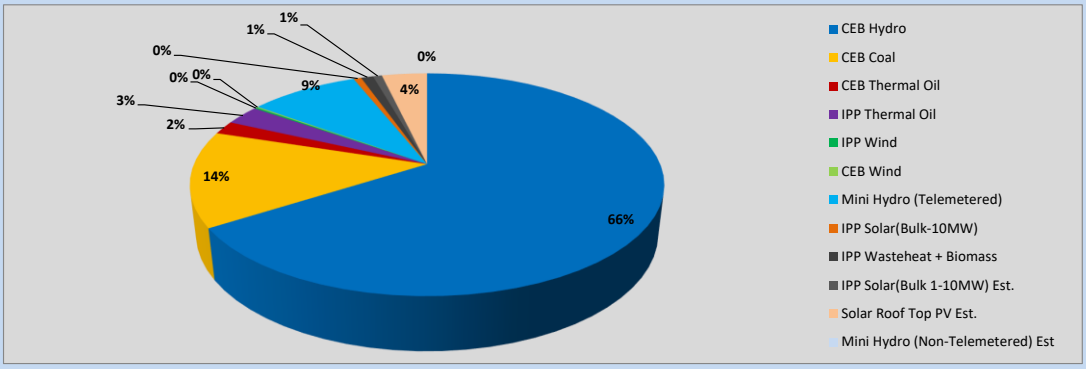


Table 01

	Generation (MWh)
CEB Hydro	27,579
CEB Coal	5,822
CEB Thermal Oil	812
IPP Thermal Oil	1,194
IPP Wind	83
CEB Wind	68
Mini Hydro (Telemetered)	3,718
IPP Solar (Bulk)	264
IPP Waste heat + Biomass	414
Total Generation (Excluding estimated figures)	**39,954**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	-
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1540
Total Generation (Including estimated figures)	**41,798**

*** Estimated figures of CEB generation report**

Table 02

	Installed Capacity (MW)
CEB Hydro	1409
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	387
IPP Wind	148
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	50
IPP Solar	136
Rooftop Solar (Ordinary)	277
Rooftop Solar (LT Bulk)	263
Rooftop Solar (HT Bulk)	70

Data Source - Monthly Review Report [Aug-2023]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	208	64.98%
CEB Coal	43	13.33%
CEB Thermal Oil	5	1.41%
IPP Thermal	6	1.97%
SPP Wind	4	1.24%
CEB Wind	5	1.64%
Mini Hydro *	30	9.25%
IPP Solar *	16	5.15%
IPP Waste heat + BMP	3	1.04%
Total	**320**	

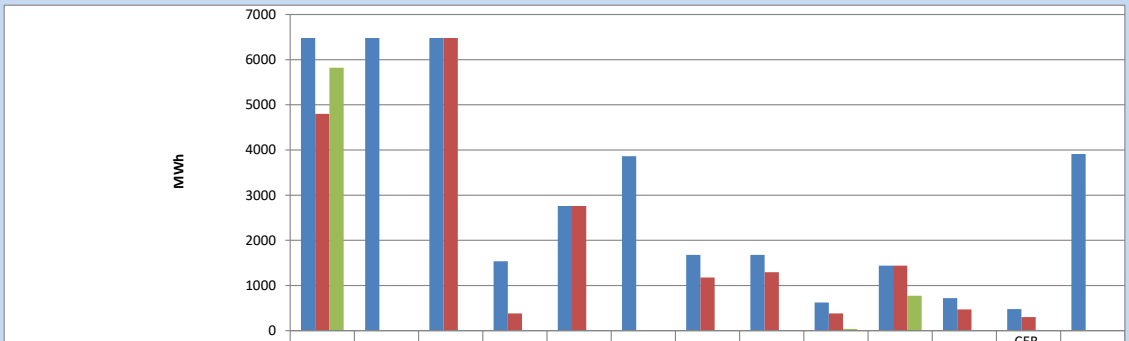
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,032	27.86%
CEB Coal	4,538	31.36%
CEB Thermal Oil	1,960	13.54%
IPP Thermal	1,133	7.83%
SPP Wind	377	2.61%
CEB Wind	368	2.54%
Mini Hydro *	1,102	7.62%
IPP Solar *	819	5.66%
IPP Waste heat	143	0.99%
Total	**14,473**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

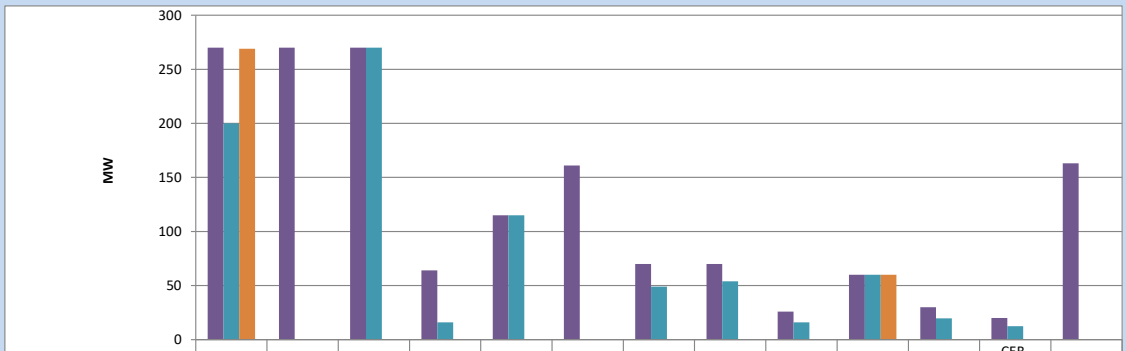
December 8, 2023



	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)	4800	0	6480	384	2760	0	1176	1296	384	1440	473	300	0
Actual generation (MWh)	5822	0	0	0	0	0	0	0	37	775	0	0	0

Available Generation is estimated based on plant availability at 6.00am on December 9, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

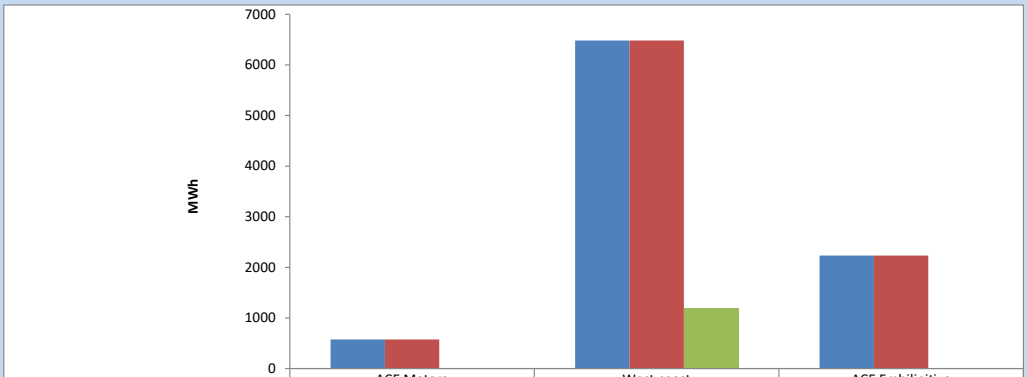


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	200	0	270	16	115	0	49	54	16	60	20	13	0
Night Peak Load (MW)	269	0	0	0	0	0	0	0	0	60	0	0	0

Plant availability is recorded at 6.00 am on December 9, 2023

5. IPP owned Thermal Plant Dispatch

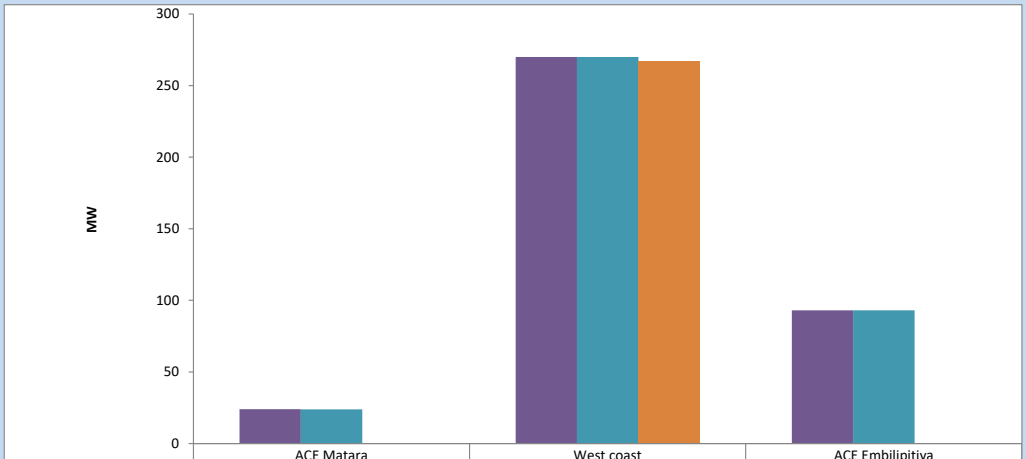
December 8, 2023



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	0	1194	0

Available Generation is estimated based on plant availability at 6.00am on December 9, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

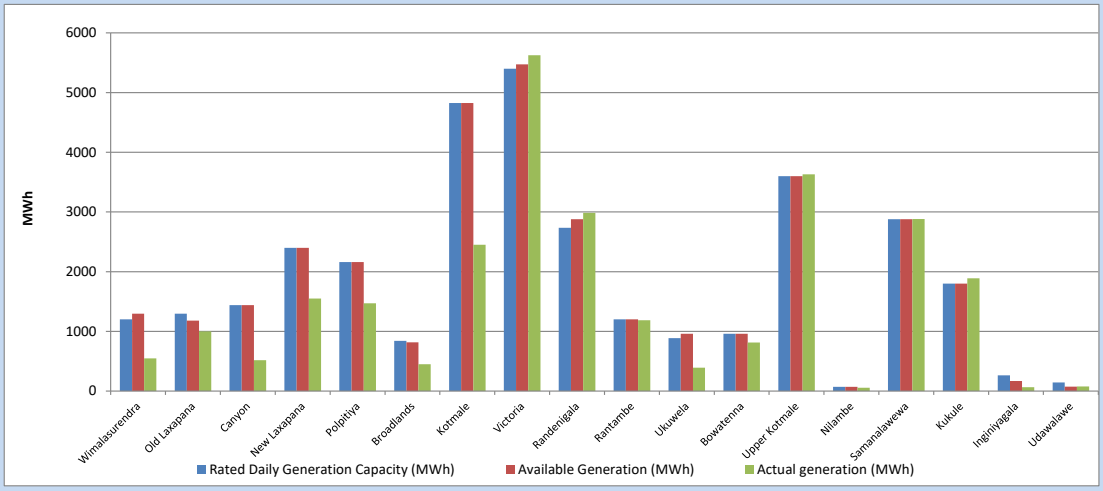


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	0	267	0

Plant availability is recorded at 6.00 am on December 9, 2023

7. Major Hydro Plant Dispatch

December 8, 2023

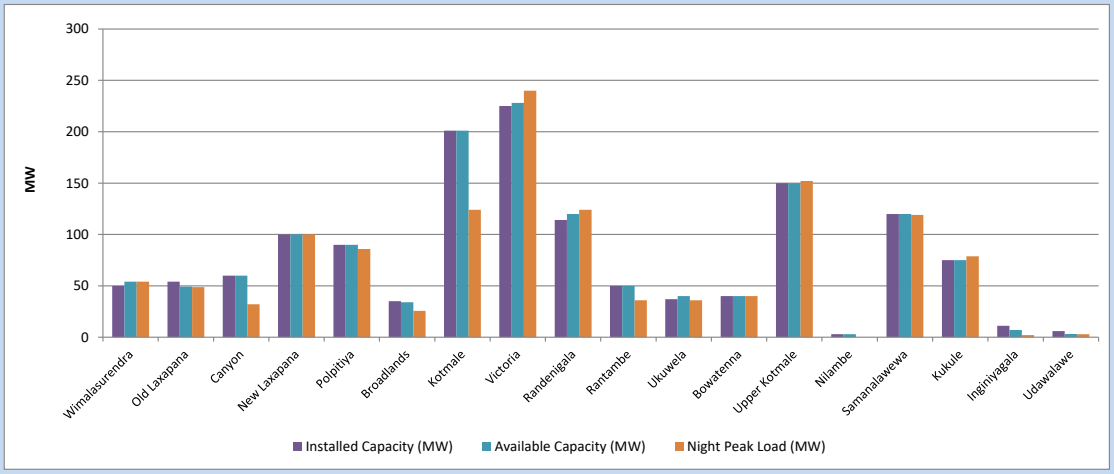


Available Generation is estimated based on plant availability at 6.00am on December 9, 2023

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

December 8, 2023



Plant availability is recorded at 6.00 am on December 9, 2023

Broadlands power plant is operating in the Commissioning Stage

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	54	54	546
Old Laxapana	54	49	49	999
Canyon	60	60	32	516
New Laxapana	100	100	100	1,549
Polpitiya	90	90	86	1,470
Broadlands	35	34	26	449
Kotmale	201	201	124	2,450
Victoria	225	228	240	5,624
Randenigala	114	120	124	2,986
Rantambe	50	50	36	1,185
Ukuwela	37	40	36	392
Bowatenna	40	40	40	814
Upper Kotmale	150	150	152	3,630
Nilambe	3	3	0	56
Samanalawewa	120	120	119	2,883
Kukule	75	75	79	1,889
Inginiyagala	11	7	2	64
Udawalawe	6	3	3	77
Puttalam Coal I	270	200	269	5,822
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	0	0
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	70	49	0	0
Sapugaskanda B	70	54	0	0
Uthura Janani	26	16	0	37
Barge CEB	60	60	60	775
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	267	1,194
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,623	2,050	#VALUE!

Plant availability is the availability recorded at 6 am on December 9, 2023

10. Contribution to the Night Peak in MW

December 8, 2023

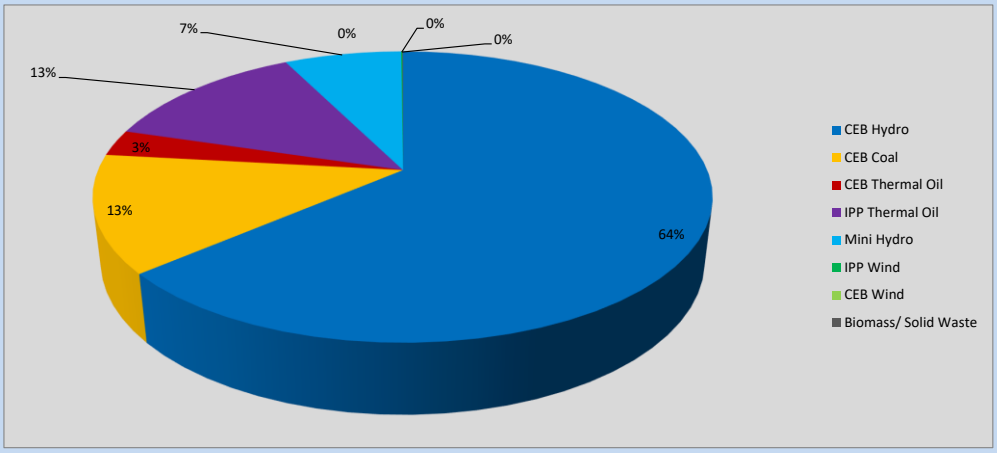


Table 06

CEB Hydro	1317	MW
CEB Coal	269	MW
CEB Thermal Oil	60	MW
IPP Thermal Oil	267	MW
Mini Hydro (Telemetered)	151	MW
IPP Wind	1.5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	1	MW

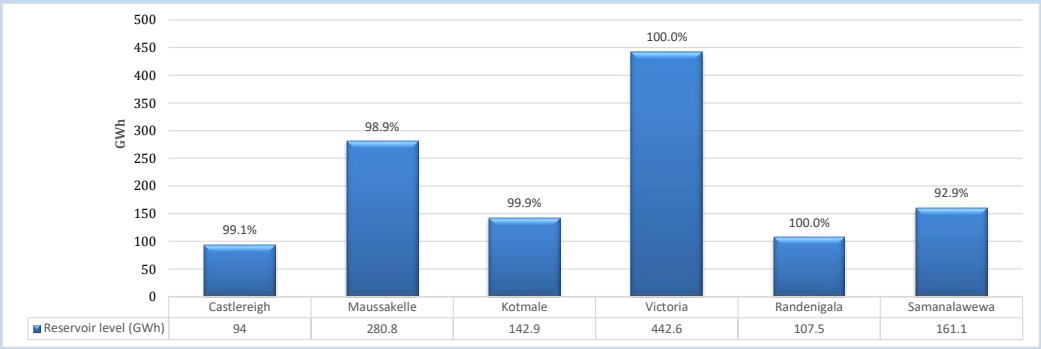
Recorded Peak Demand Data

Table 07

Night Peak*	2,066	MW
Day Peak Maximum Demand	1,983	MW
Day Peak Minimum Demand	1,526	MW
Off Peak Minimum Demand	1,210	MW

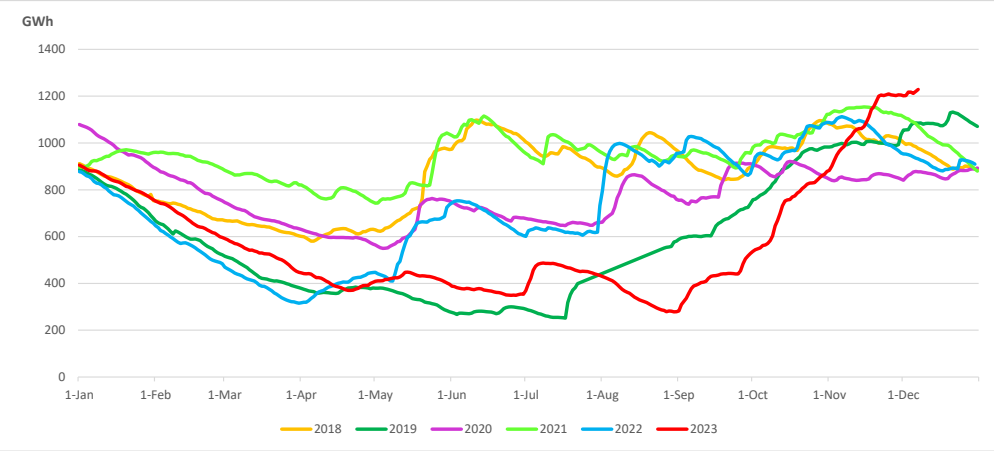
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on December 9, 2023

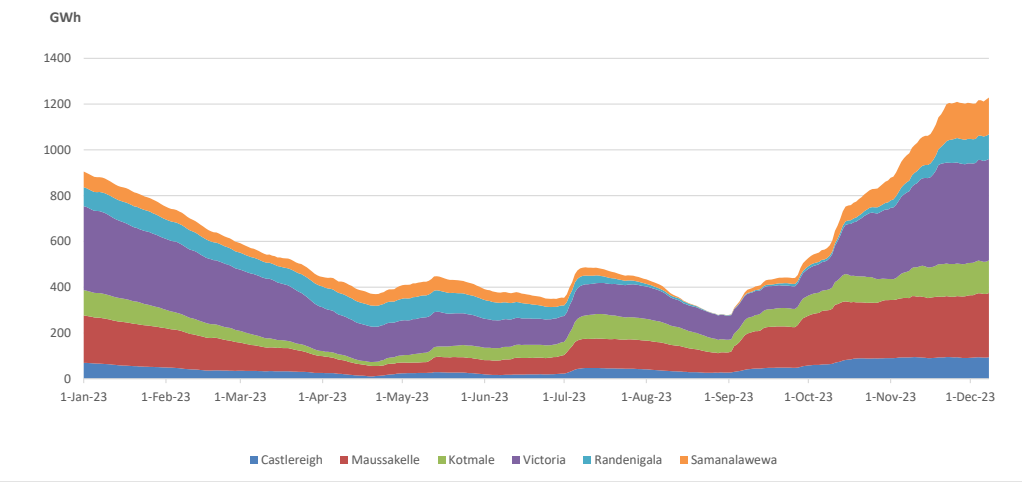


Total Reservoir Level	1228.9 GWh
% of Total capacity	98.7%

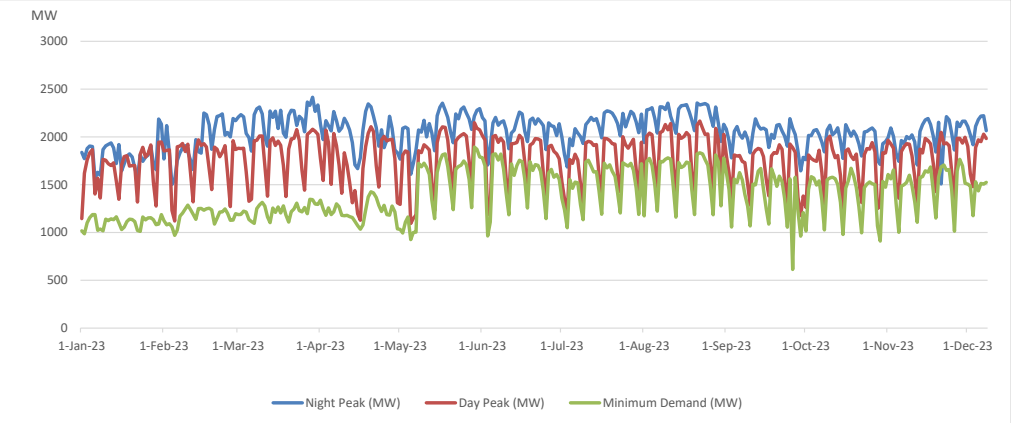
11. Comparison of Total Reservoir Storage Levels with Past Years



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

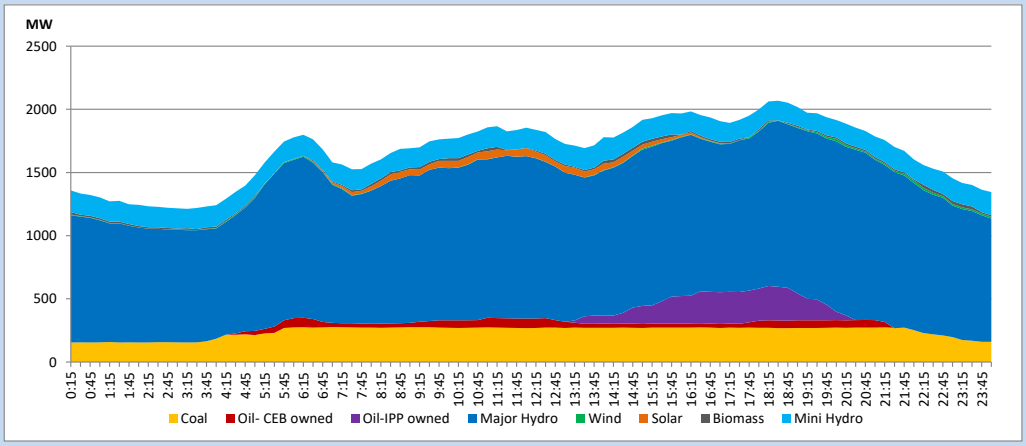


13. Variation of Demand during the current year



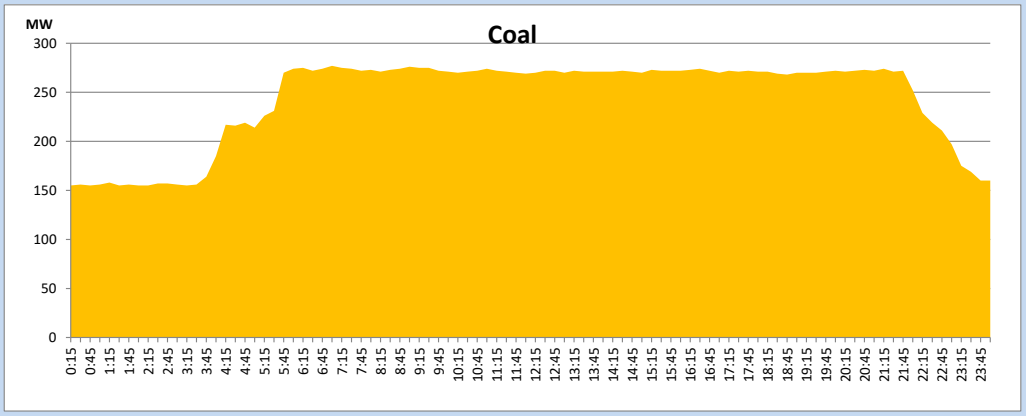
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve December 8, 2023

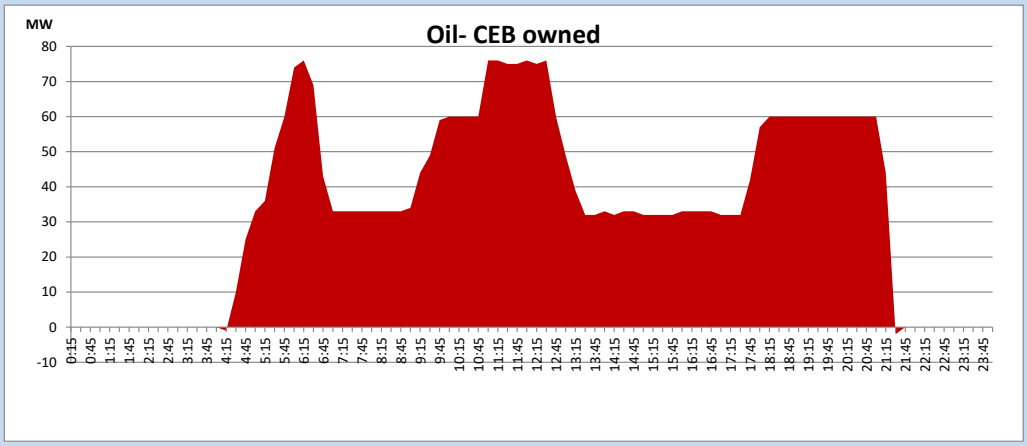


Solar and wind data is based on Telemetered Power Stations only

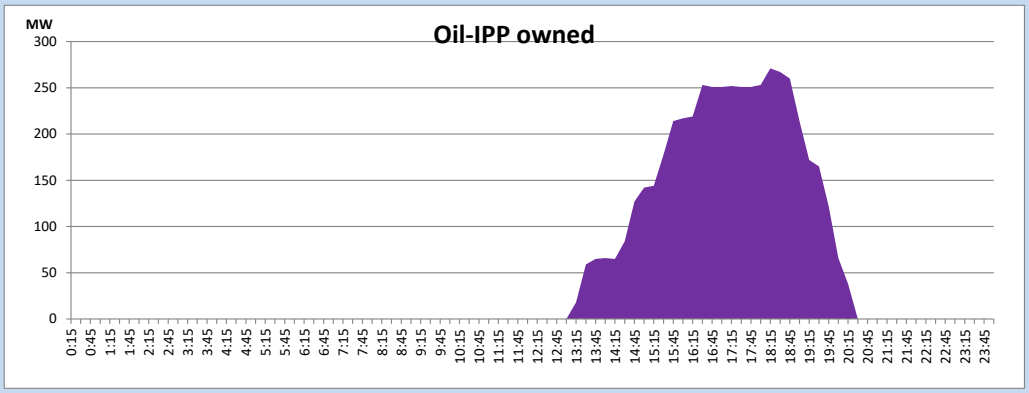
Coal Generation during December 8, 2023



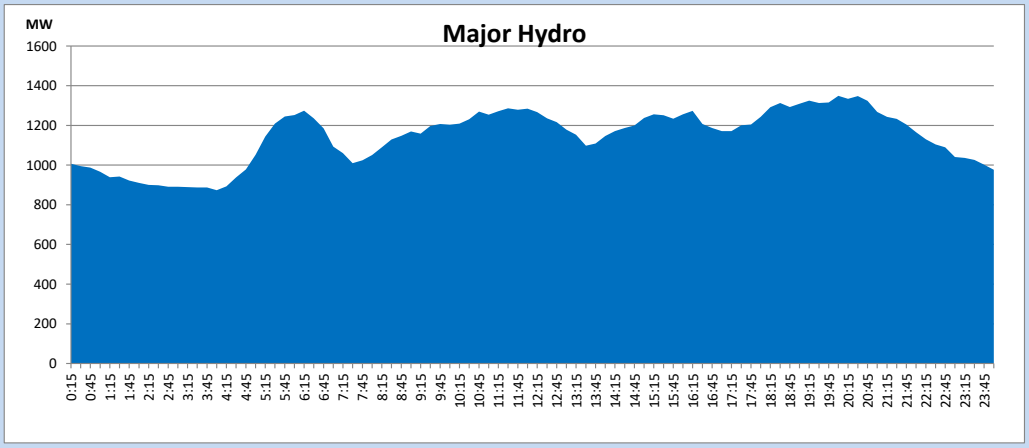
CEB Oil Plant Generation during **December 8, 2023**



IPP Oil Plant Generation during **December 8, 2023**

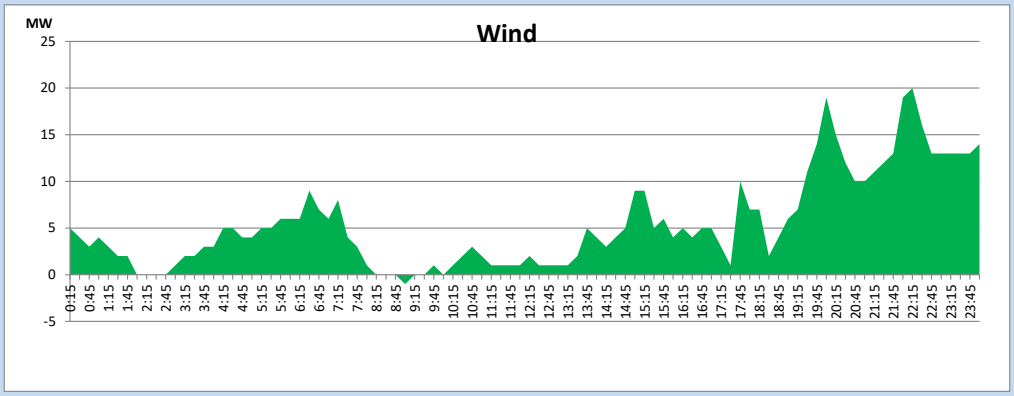


Major Hydro Generation during **December 8, 2023**



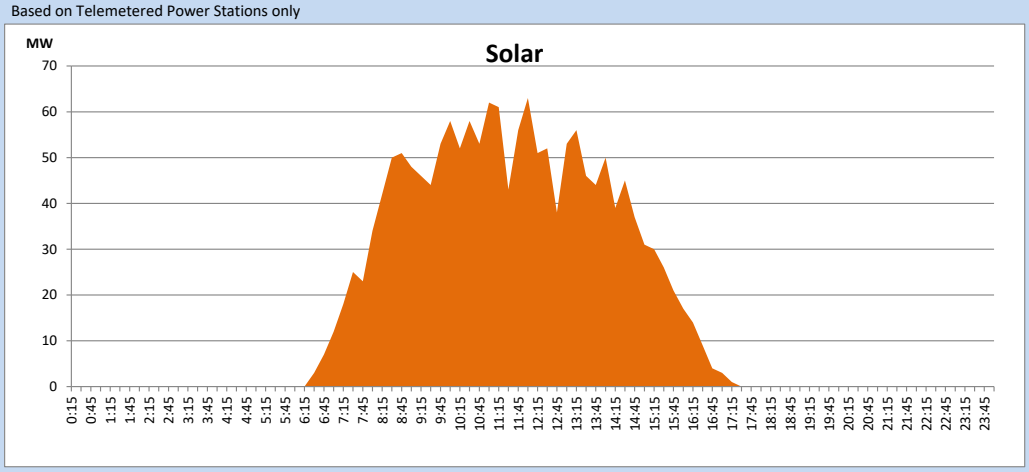
Wind Generation during December 8, 2023

Based on Telemetered Power Stations only

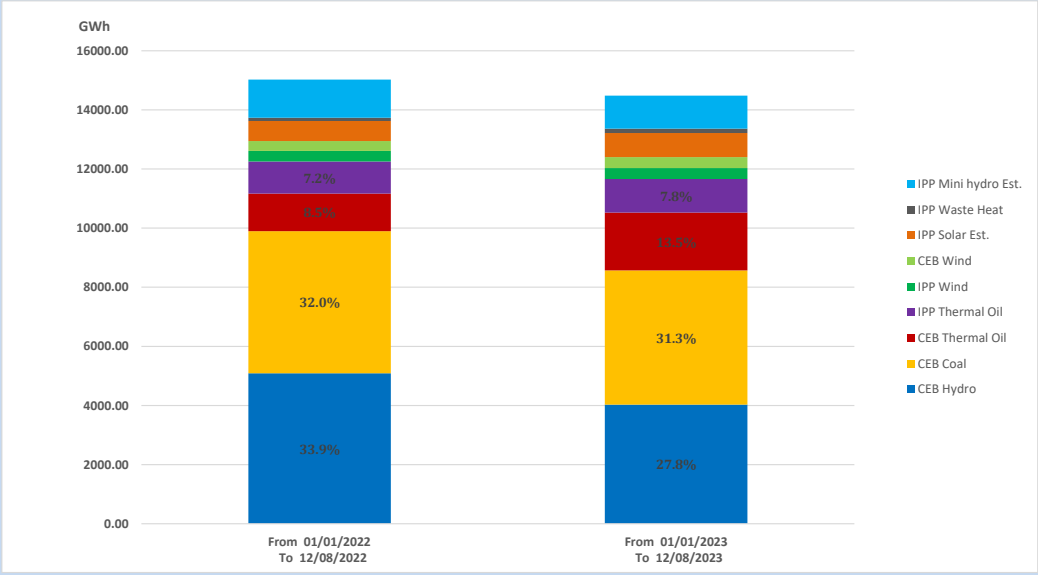


Solar Generation during December 8, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 12/08/2022 **15024 GWh**

From 01/01/2023 To 12/08/2023 **14484 GWh**

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants (figures have been adjusted based on the data from the CEB monthly review reports.)

Thermal 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
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day December 8, 2023

1) Veyangoda 132/33kV T/F 01 and 02 tripped at 12:46hrs due to the operation of REF protection. The T/F 01 and 02 normalized at 14:27hrs and 16:07hrs respectively.
2) Monaragala 132/33kV T/F 02 tripped at 12:46hrs causing the GSS to be dead since T/F 01 had been released for a planned outage. The T/F 02 normalized at 12:57hrs and all affected feeders were normalized by 13:01hrs.
3) Biyagama - Kothmale 220kV cct 01 tripped and A/R from both ends at 15:23hrs and tripped from both ends at 15:25hrs due to the operation of distance protection. The cct was normalized at 15:34hrs.
4) Bowathanna reservoir spilling started at 21:00hrs and continues to the present hour.
5) Kothmale reservoir spilling started at 22:30hrs and stopped at 04:30hrs (09.12.2023).
6) Upper Kothmale pond spilling stopped at 5:34hrs (09.12.2023).
7) Kukule pond spilling continues to the present hour.
8) Victoria and Randenigala reservoir spilling continue to the present hour.