

Generation and Reservoirs Statistics

December 3, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

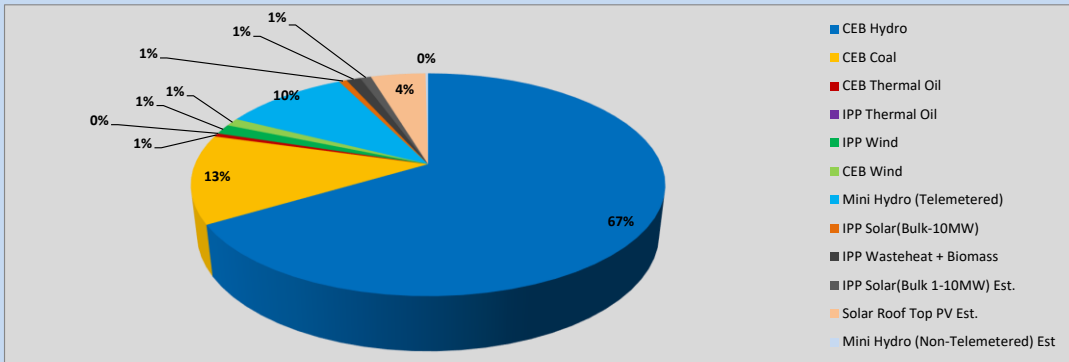


Table 01

	Generation (MWh)
CEB Hydro	22,889
CEB Coal	4,437
CEB Thermal Oil	175
IPP Thermal Oil	-
IPP Wind	498
CEB Wind	399
Mini Hydro (Telemetered)	3,499
IPP Solar (Bulk)	218
IPP Waste heat + Biomass	399
Total Generation (Excluding estimated figures)	32,514
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	71
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1540
Total Generation (Including estimated figures)	34,429

* 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	75	65.92%
CEB Coal	15	13.18%
CEB Thermal Oil	1	0.89%
IPP Thermal	1	1.19%
SPP Wind	2	1.38%
CEB Wind	2	1.61%
Mini Hydro *	11	9.48%
IPP Solar *	6	5.30%
IPP Waste heat + BMP	1	1.05%
Total	114	

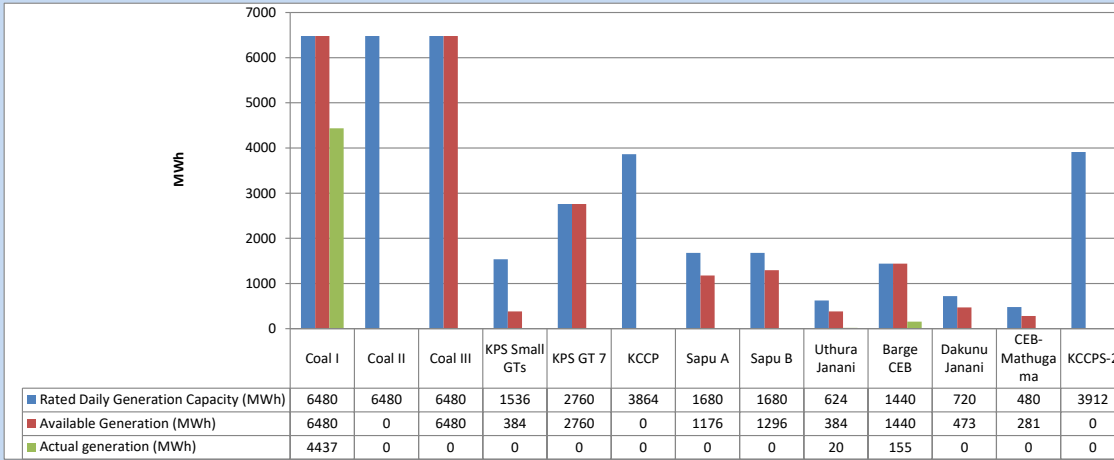
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,899	27.33%
CEB Coal	4,511	31.62%
CEB Thermal Oil	1,956	13.71%
IPP Thermal	1,129	7.91%
SPP Wind	375	2.63%
CEB Wind	365	2.56%
Mini Hydro *	1,083	7.59%
IPP Solar *	809	5.67%
IPP Waste heat	141	0.99%
Total	14,266	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

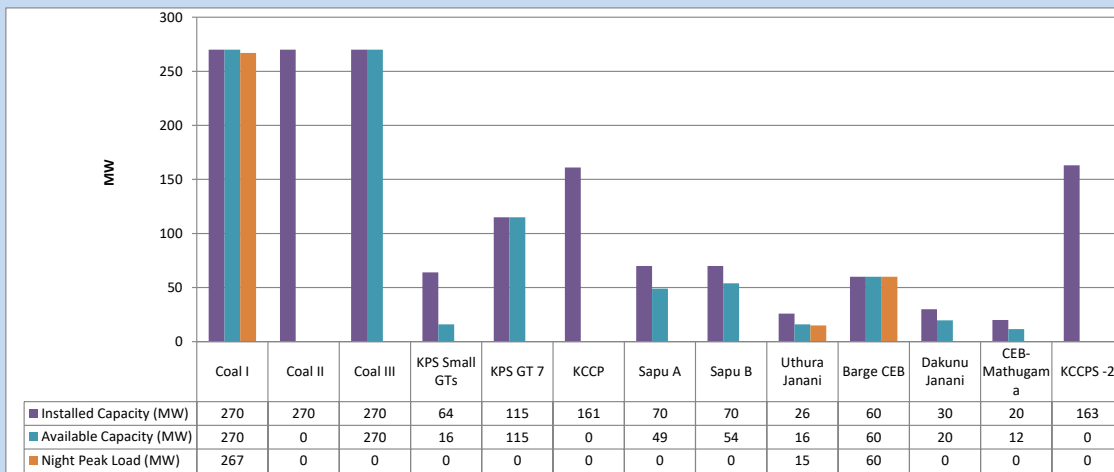
December 3, 2023



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

December 4, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

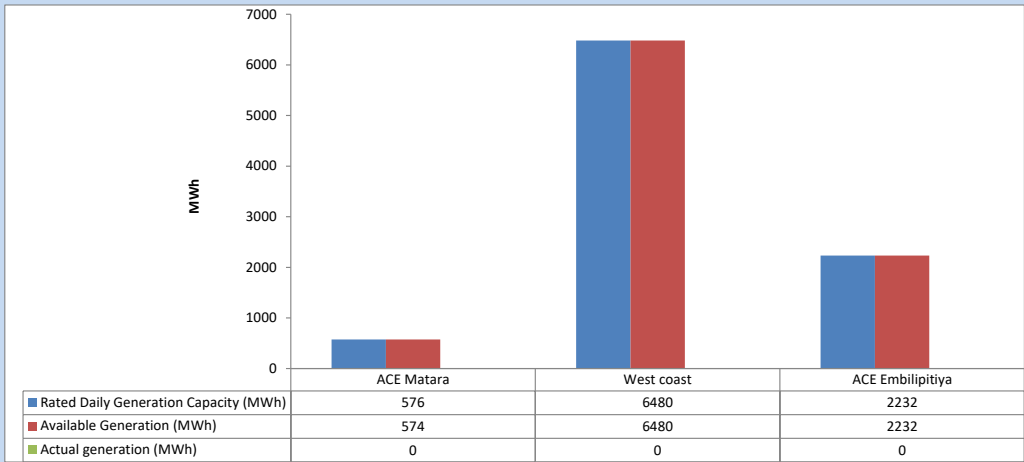


Plant availability is recorded at 6.00 am on

December 4, 2023

5. IPP owned Thermal Plant Dispatch

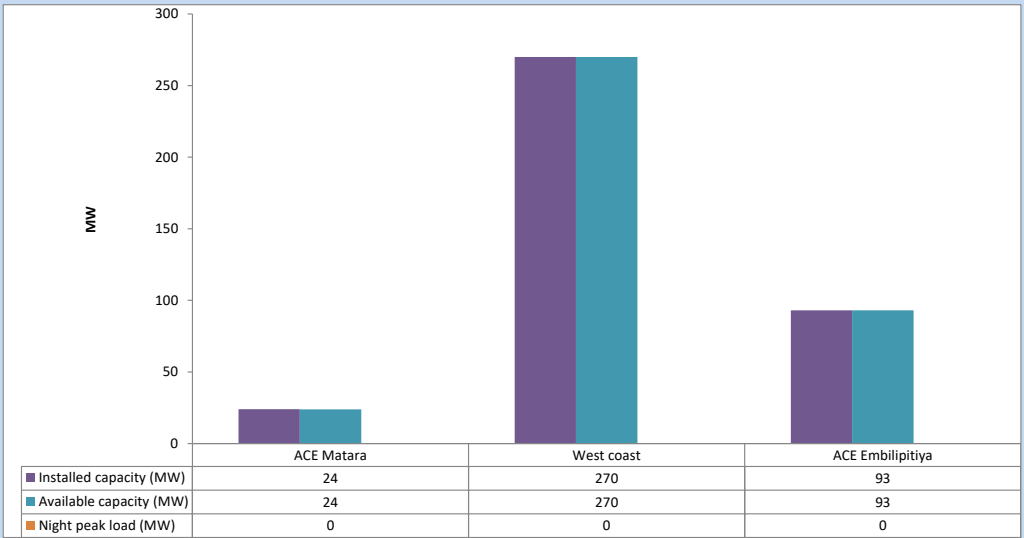
December 3, 2023



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

December 4, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

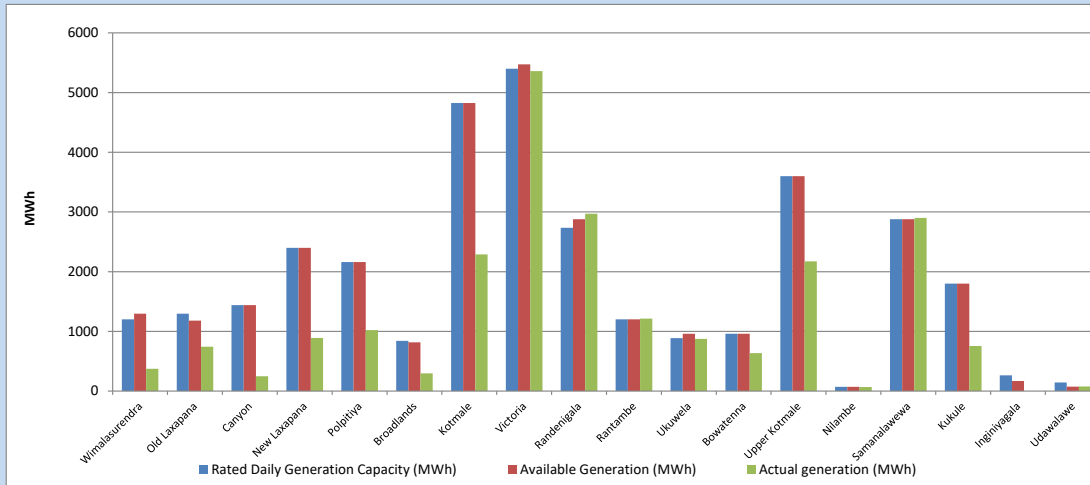


Plant availability is recorded at 6.00 am on

December 4, 2023

7. Major Hydro Plant Dispatch

December 3, 2023

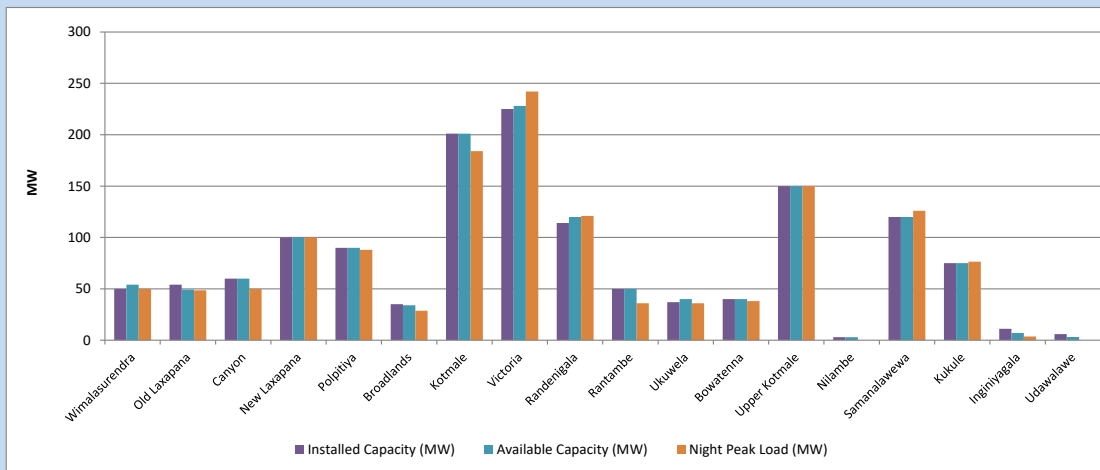


Available Generation is estimated based on plant availability at 6.00am on December 4, 2023
 Broadlands power plant is operating in the Commissioning Stage

December 4, 2023

8. Major Hydro Plant Loading at Night Peak

December 3, 2023



Plant availability is recorded at 6.00 am on December 4, 2023
 Broadlands power plant is operating in the Commissioning Stage

December 4, 2023

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	50	374
Old Laxapana Canyon	54	49	49	744
New Laxapana	60	60	50	247
Polpitiya	100	100	100	889
Polpitiya	90	90	88	1,020
Broadlands	35	34	29	298
Kotmale	201	201	184	2,290
Victoria	225	228	242	5,361
Randenigala	114	120	121	2,969
Rantambe	50	50	36	1,212
Ukuwela	37	40	36	873
Bowatenna	40	40	38	637
Upper Kotmale	150	150	150	2,174
Nilambe	3	3	0	68
Samanalawewa	120	120	126	2,900
Kukule	75	75	76	755
Inginiyagala	11	7	4	0
Udawalawe	6	3	0	78
Puttalam Coal I	270	270	267	4,437
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	15	20
Barge CEB	60	60	60	155
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,693	1,904	32,514

Plant availability is the availability recorded at 6 am on

December 4, 2023

10. Contribution to the Night Peak in MW

December 3, 2023

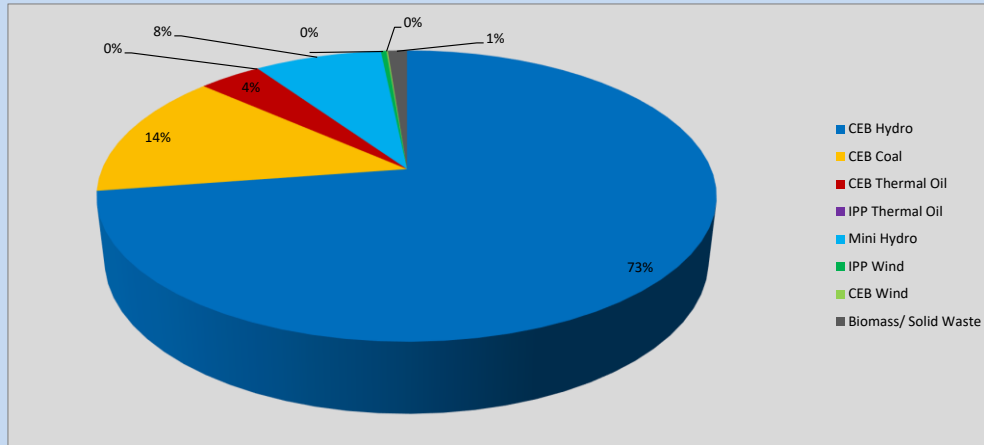


Table 06

CEB Hydro	1393	MW
CEB Coal	267	MW
CEB Thermal Oil	75	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	152	MW
IPP Wind	6.7	MW
CEB Wind	1.6	MW
Biomass/ Solid Waste	23	MW

Recorded Peak Demand Data

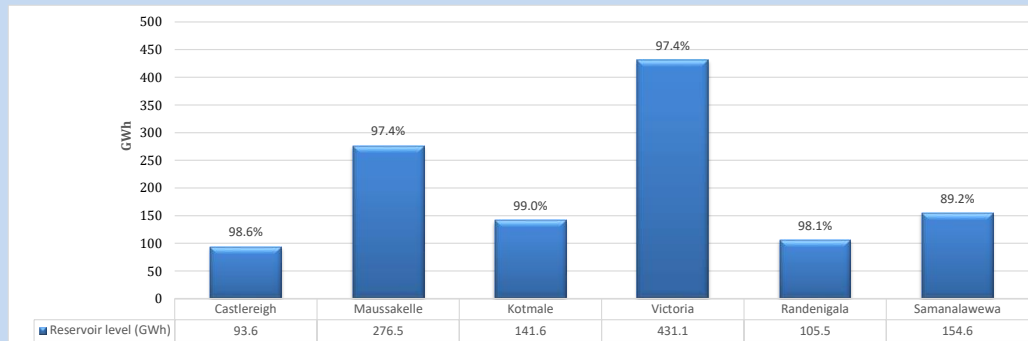
Table 07

Night Peak*	1,919	MW
Day Peak Maximum Demand	1,480	MW
Day Peak Minimum Demand	1,176	MW
Off Peak Minimum Demand	1,095	MW

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

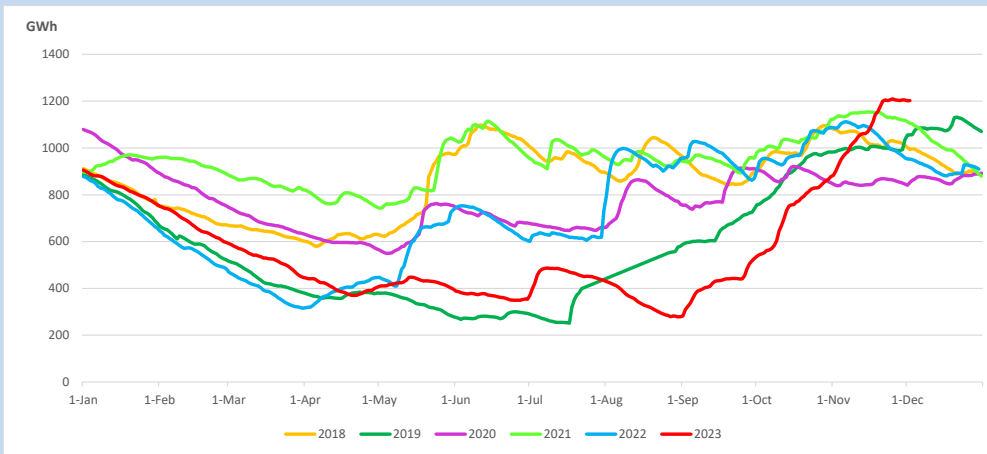
Reservoir Levels -

as at 06.00 Hr on December 4, 2023

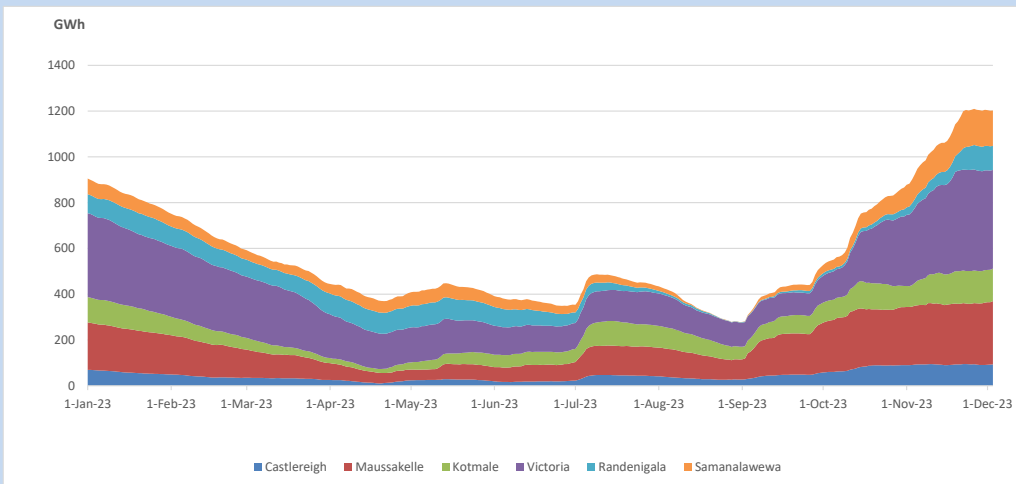


Total Reservoir Level 1202.9 GWh
 % of Total capacity 96.6%

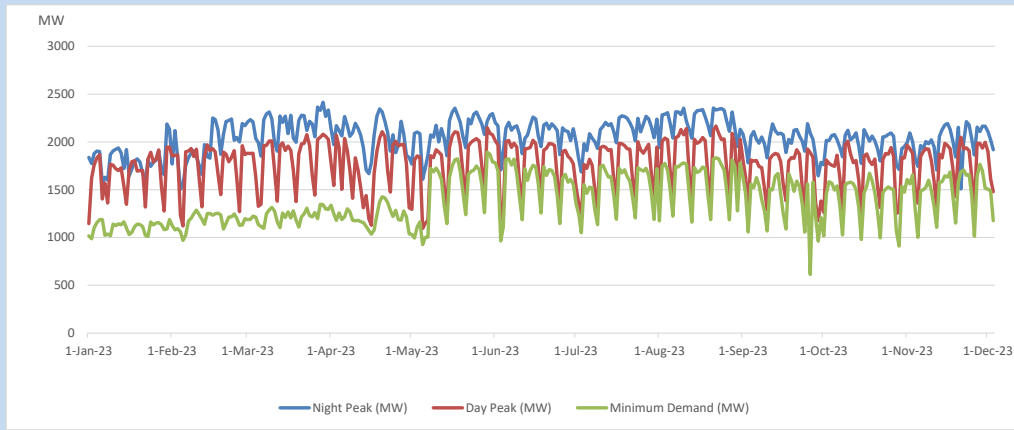
11. Comparison of Total Reservoir Storage Levels with Past Years



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



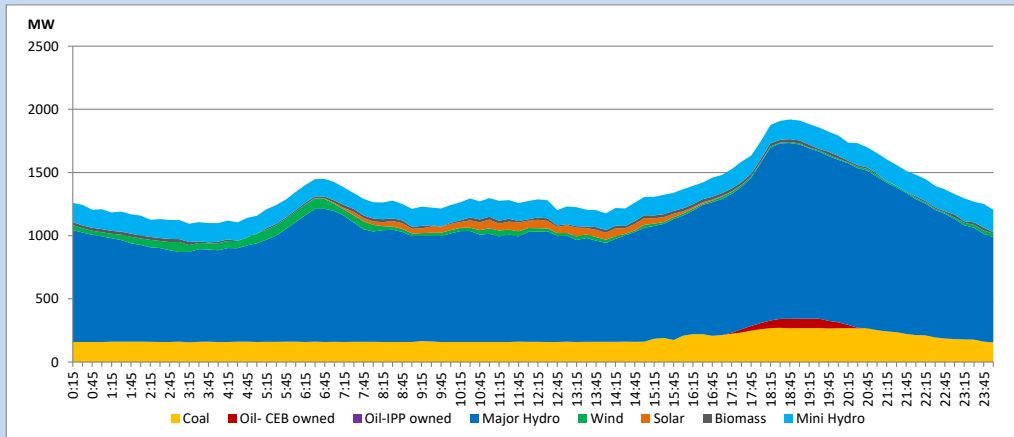
13. Variation of Demand during the current year



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

14. Daily Load Curve

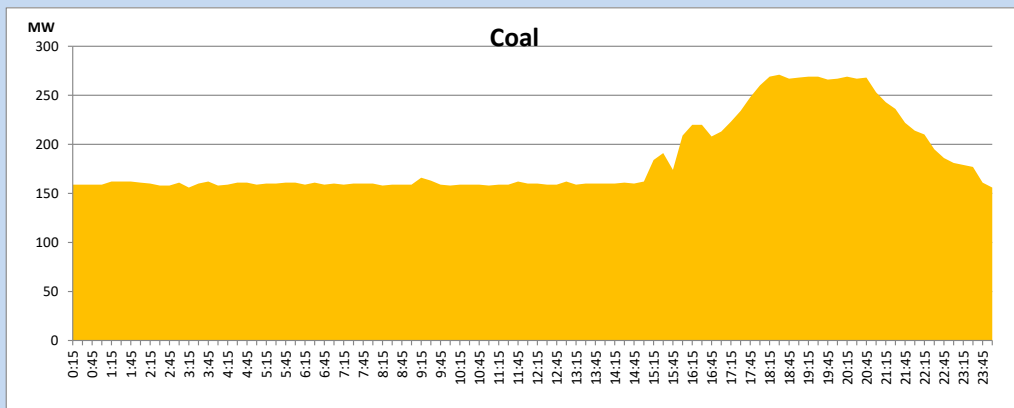
December 3, 2023



Solar and wind data is based on Telemetered Power Stations only

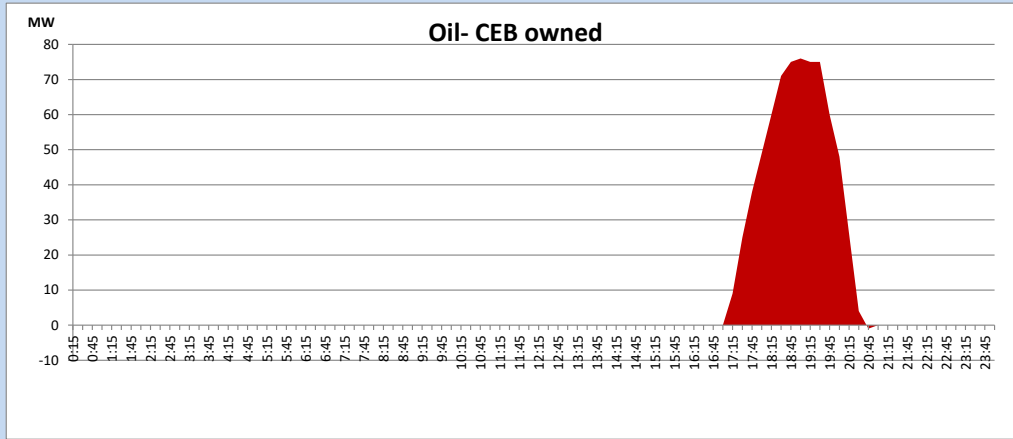
Coal Generation during

December 3, 2023



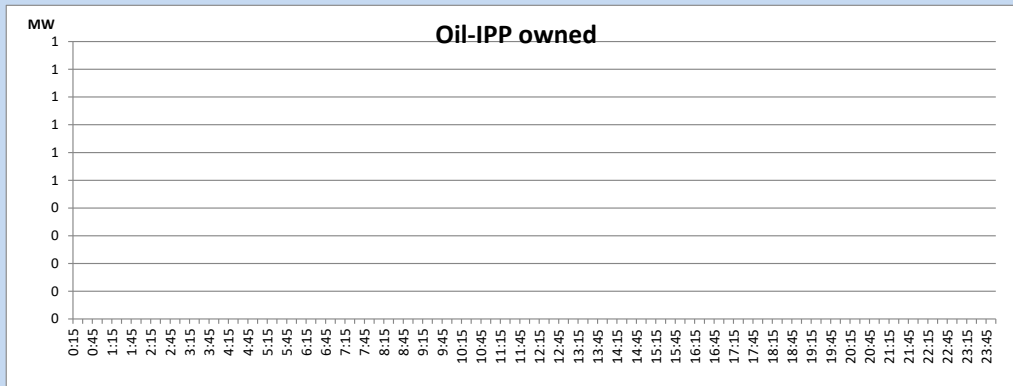
CEB Oil Plant Generation during

December 3, 2023



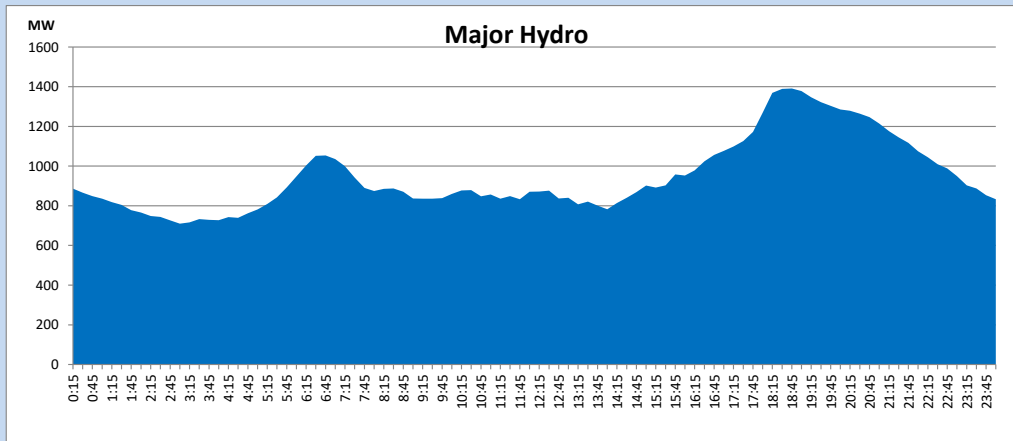
IPP Oil Plant Generation during

December 3, 2023



Major Hydro Generation during

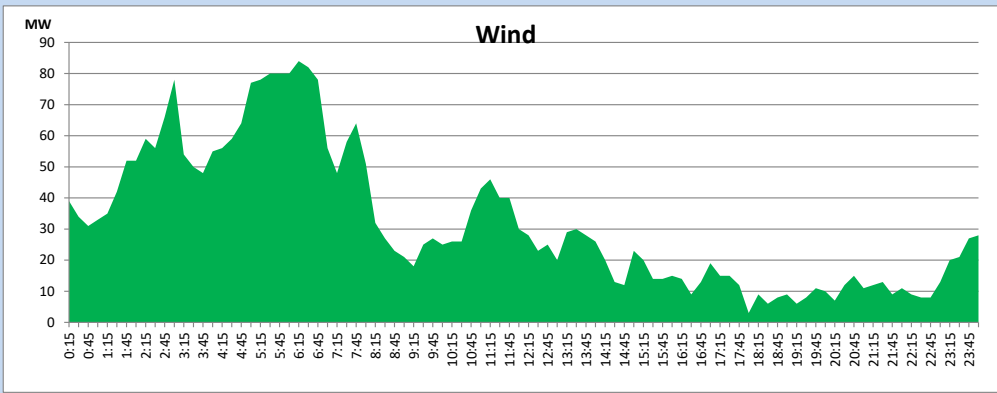
December 3, 2023



Wind Generation during

December 3, 2023

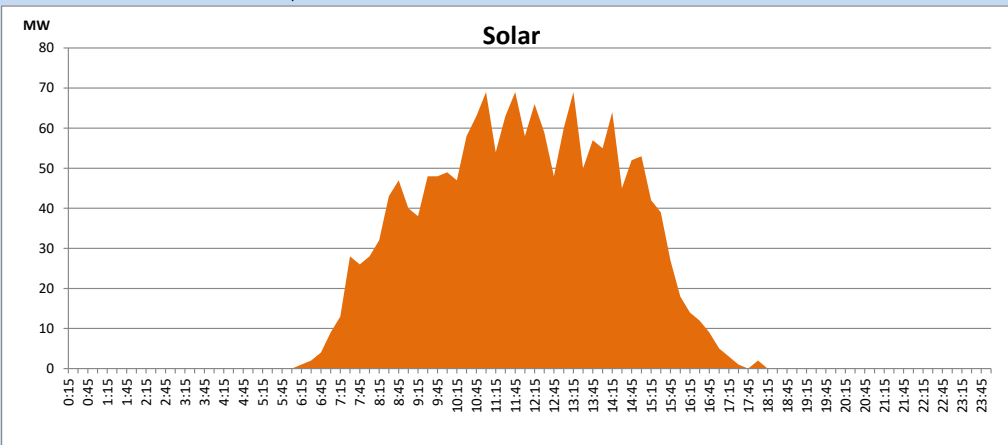
Based on Telemetered Power Stations only



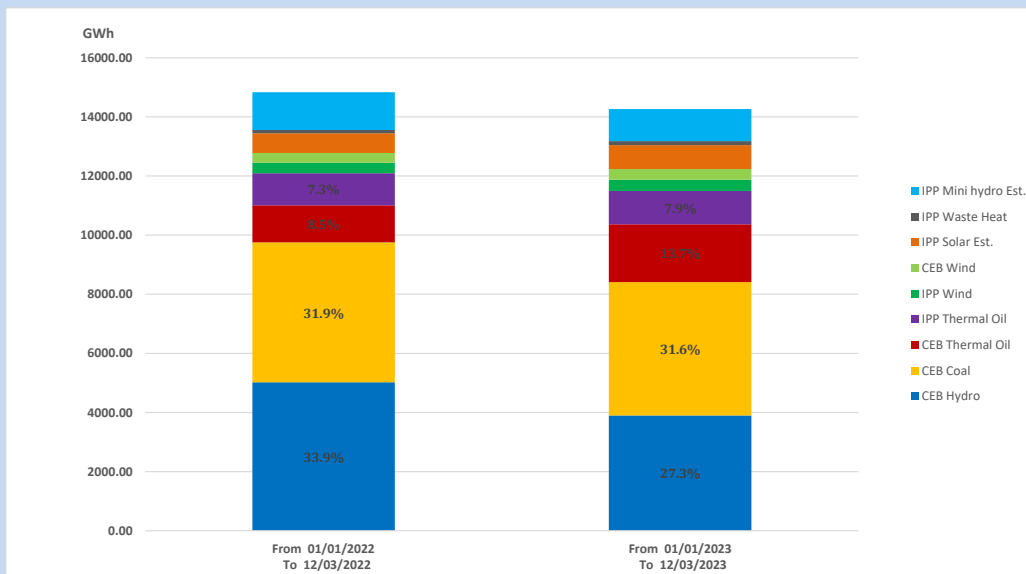
Solar Generation during

December 3, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 12/03/2022

14832 GWh

From 01/01/2023 To 12/03/2023

14266 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 3, 2023

- 1) New Polpitiya 220/132/33kV T/F 02 which tripped on 30.11.2023, was normalized at 11:29hrs.