

Generation and Reservoirs Statistics

December 29, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

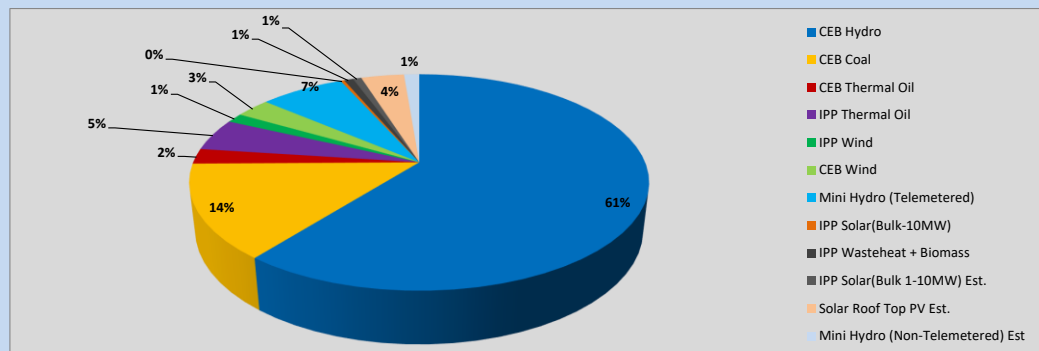


Table 01

	Generation (MWh)
CEB Hydro	25,896
CEB Coal	6,025
CEB Thermal Oil	971
IPP Thermal Oil	2,061
IPP Wind	600
CEB Wind	1,245
Mini Hydro (Telemetered)	3,023
IPP Solar (Bulk)	130
IPP Waste heat + Biomass	331
Total Generation (Excluding estimated figures)	40,282
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	547
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1540
Total Generation (Including estimated figures)	42,673

* 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	711	62.53%
CEB Coal	148	13.00%
CEB Thermal Oil	22	1.91%
IPP Thermal	31	2.75%
SPP Wind	20	1.76%
CEB Wind	28	2.43%
Mini Hydro *	107	9.42%
IPP Solar *	60	5.24%
IPP Waste heat + BMP	11	0.96%
Total	1,137	

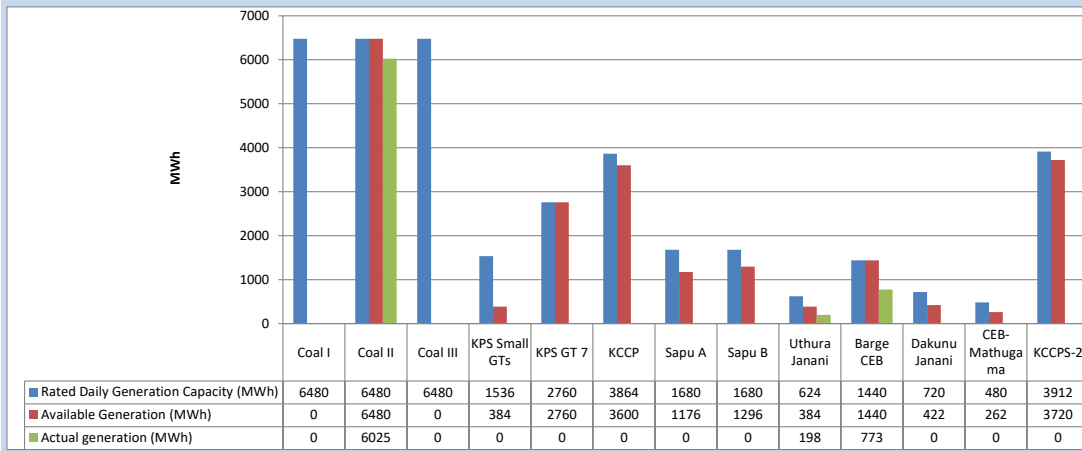
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,533	29.63%
CEB Coal	4,643	30.35%
CEB Thermal Oil	1,976	12.92%
IPP Thermal	1,158	7.57%
SPP Wind	388	2.54%
CEB Wind	390	2.55%
Mini Hydro *	1,196	7.82%
IPP Solar *	862	5.63%
IPP Waste heat	154	1.01%
Total	15,300	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

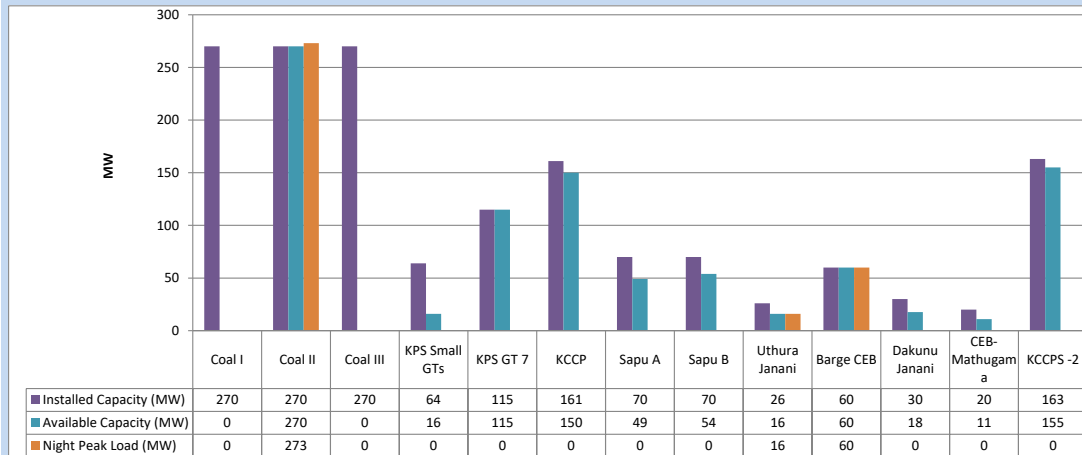
December 29, 2023



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

December 30, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

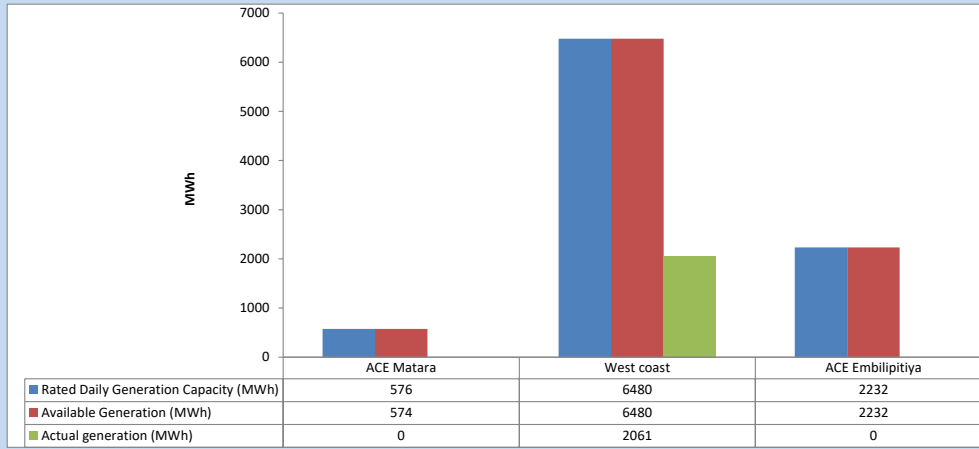


Plant availability is recorded at 6.00 am on

December 30, 2023

5. IPP owned Thermal Plant Dispatch

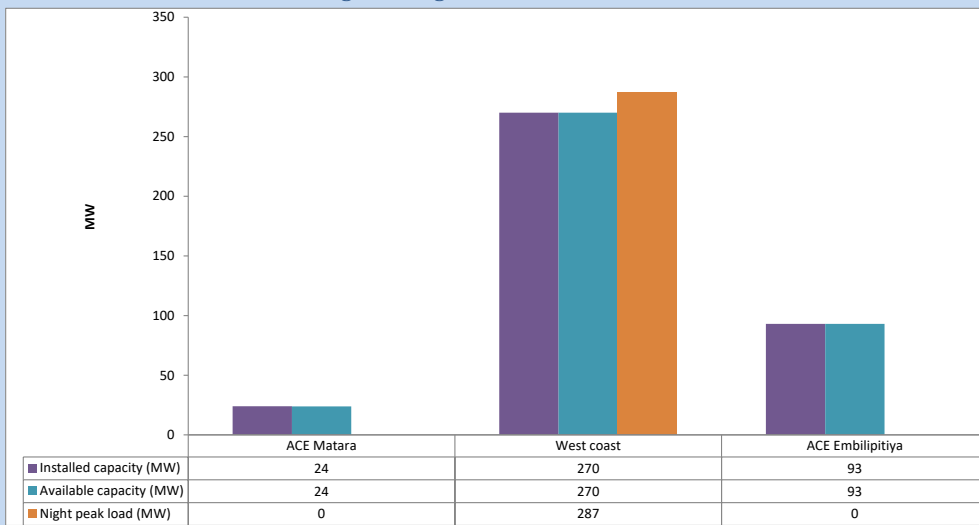
December 29, 2023



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

December 30, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

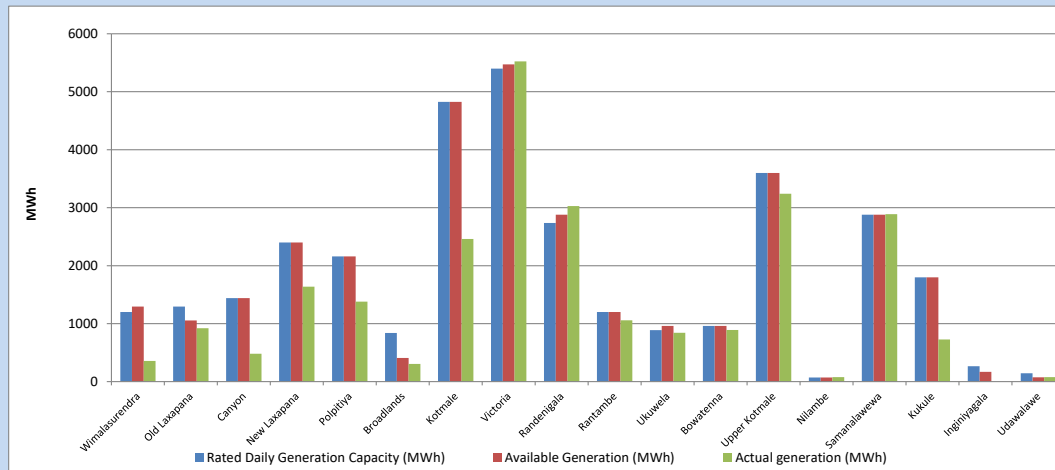


Plant availability is recorded at 6.00 am on

December 30, 2023

7. Major Hydro Plant Dispatch

December 29, 2023

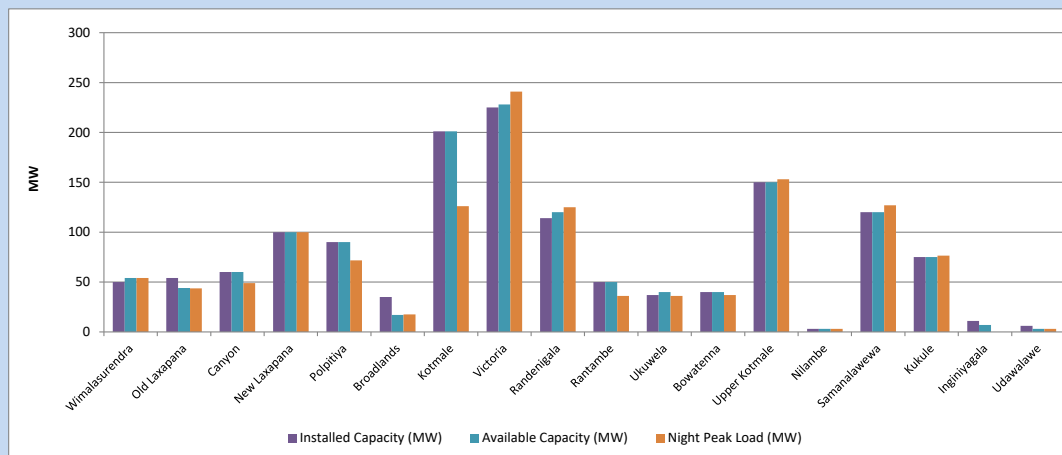


Available Generation is estimated based on plant availability at 6.00am on December 30, 2023
Broadlands power plant is operating in the Commissioning Stage

December 30, 2023

8. Major Hydro Plant Loading at Night Peak

December 29, 2023



Plant availability is recorded at 6.00 am on December 30, 2023
Broadlands power plant is operating in the Commissioning Stage

December 30, 2023

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	54	54	356
Old Laxapana	54	44	44	920
Canyon	60	60	49	482
New Laxapana	100	100	100	1,638
Polpitiya	90	90	72	1,380
Broadlands	35	17	18	305
Kotmale	201	201	126	2,460
Victoria	225	228	241	5,525
Randenigala	114	120	125	3,027
Rantambe	50	50	36	1,058
Ukuwela	37	40	36	842
Bowatenna	40	40	37	890
Upper Kotmale	150	150	153	3,241
Nilambe	3	3	3	77
Samanalawewa	120	120	127	2,890
Kukule	75	75	77	727
Inginiyagala	11	7	0	0
Udawalawe	6	3	3	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	273	6,025
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	49	0	0
Sapugaskanda B	70	54	0	0
Uthura Janani	26	16	16	198
Barge CEB	60	60	60	773
CEB-Hambantota	30	18	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	287	2,061
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,703	2,141	40,282

Plant availability is the availability recorded at 6 am on

December 30, 2023

10. Contribution to the Night Peak in MW

December 29, 2023

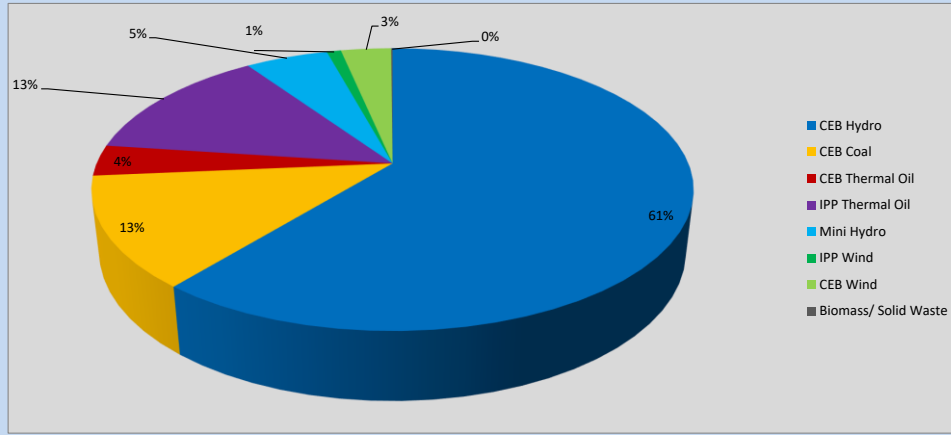


Table 06

CEB Hydro	1312	MW
CEB Coal	273	MW
CEB Thermal Oil	76	MW
IPP Thermal Oil	287	MW
Mini Hydro (Telemetered)	114	MW
IPP Wind	19.7	MW
CEB Wind	69.4	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

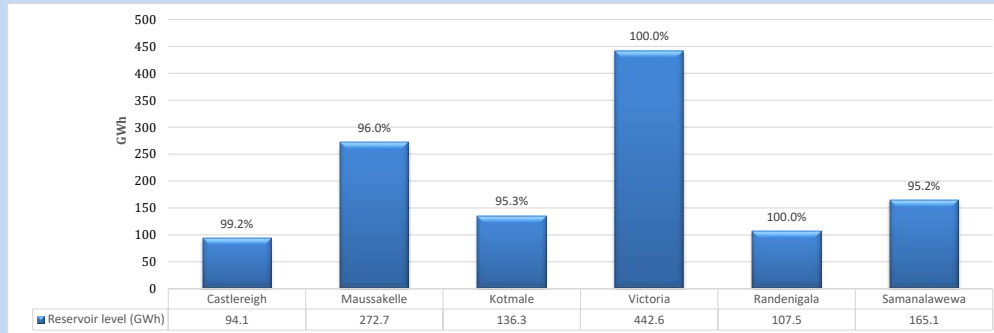
Table 07

Night Peak*	2,153	MW
Day Peak Maximum Demand	1,930	MW
Day Peak Minimum Demand	1,658	MW
Off Peak Minimum Demand	1,176	MW

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

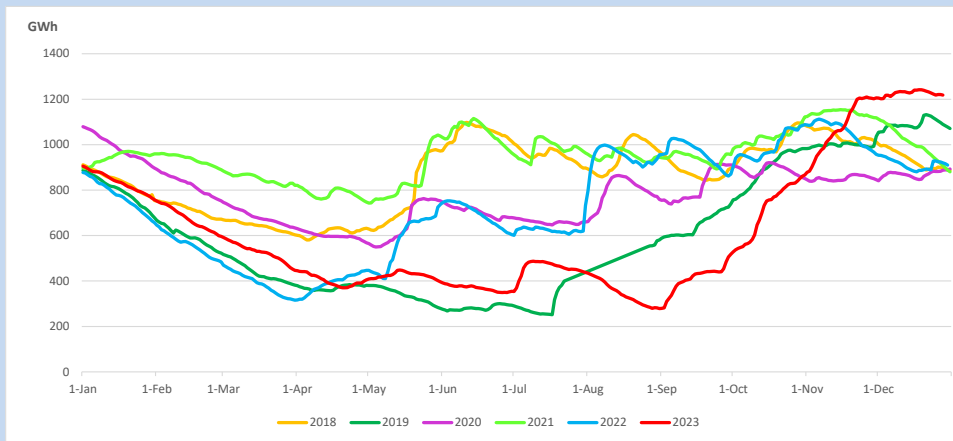
Reservoir Levels -

as at 06.00 Hr on December 30, 2023

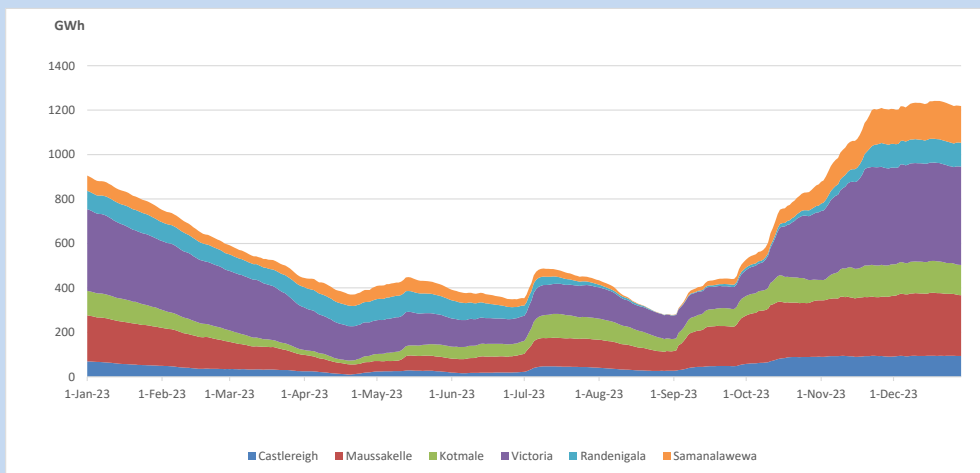


Total Reservoir Level 1218.3 GWh
% of Total capacity 97.8%

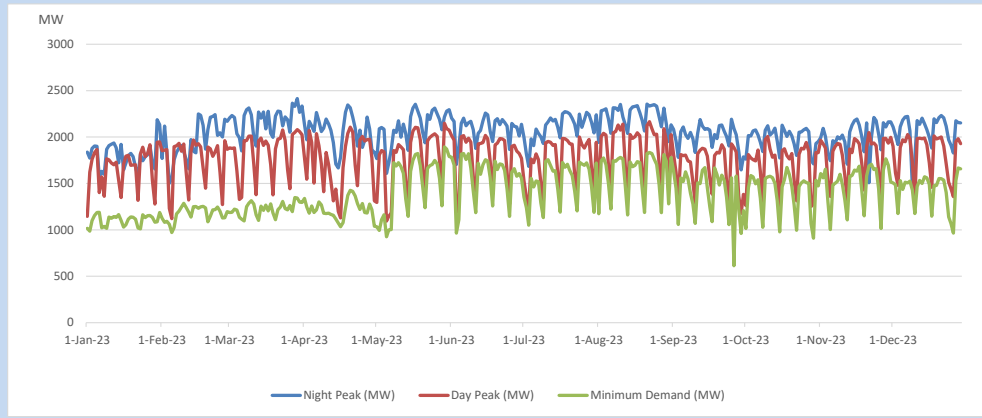
11. Comparison of Total Reservoir Storage Levels with Past Years



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



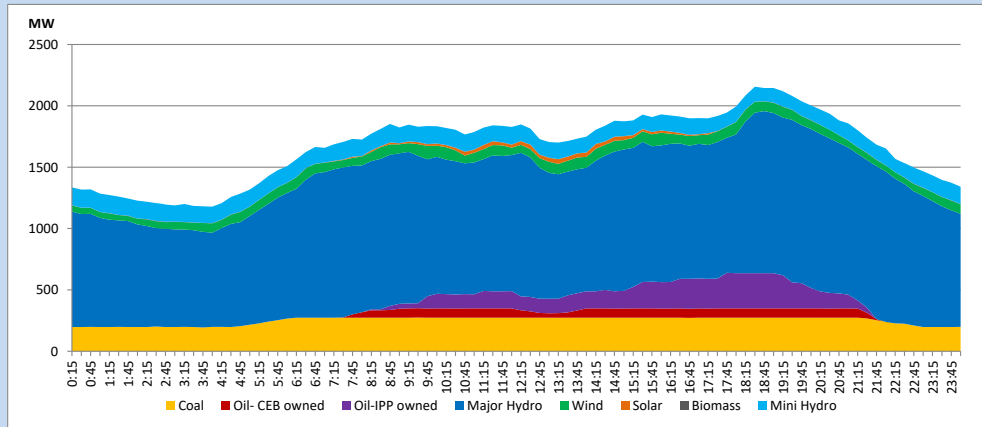
13. Variation of Demand during the current year



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

14. Daily Load Curve

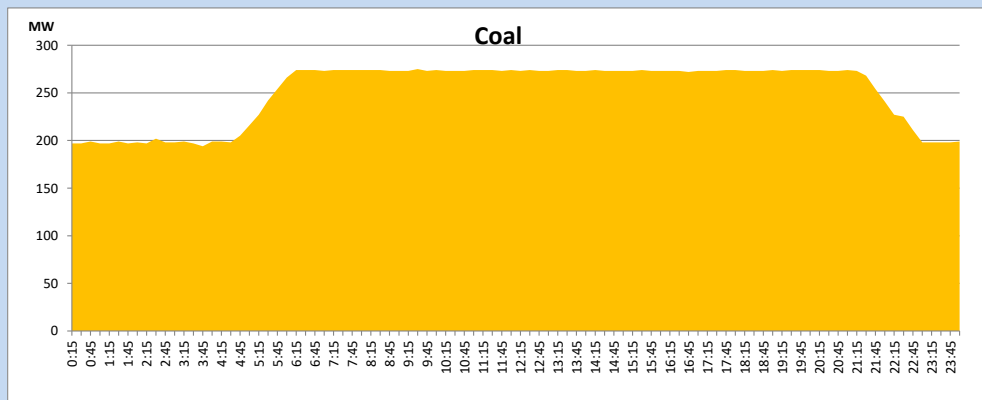
December 29, 2023



Solar and wind data is based on Telemetered Power Stations only

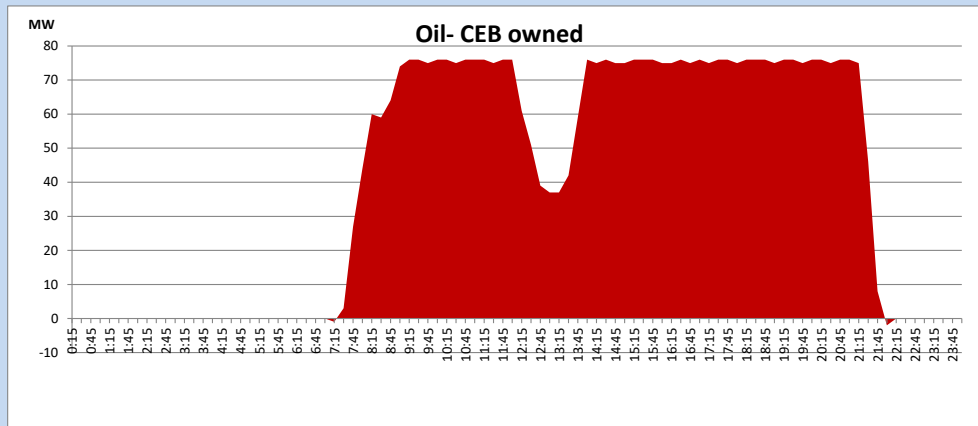
Coal Generation during

December 29, 2023



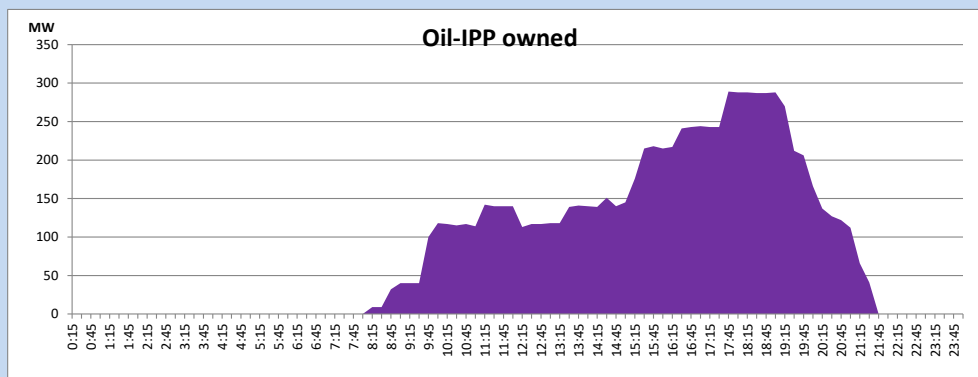
CEB Oil Plant Generation during

December 29, 2023



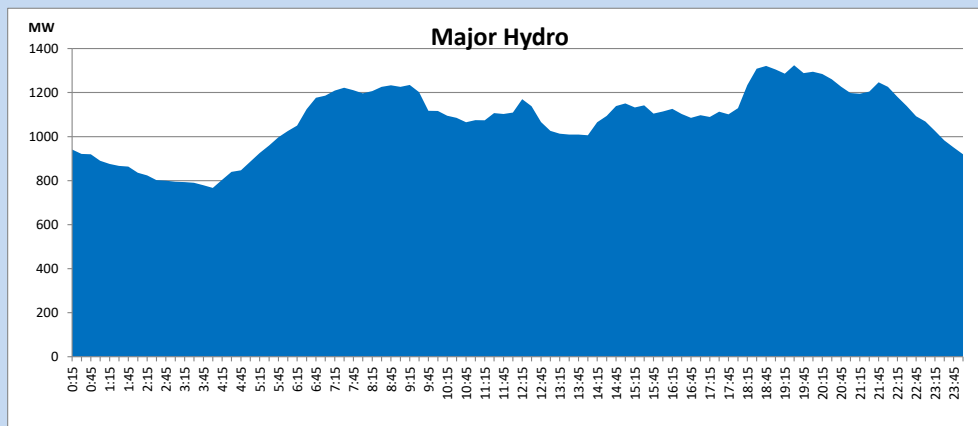
IPP Oil Plant Generation during

December 29, 2023



Major Hydro Generation during

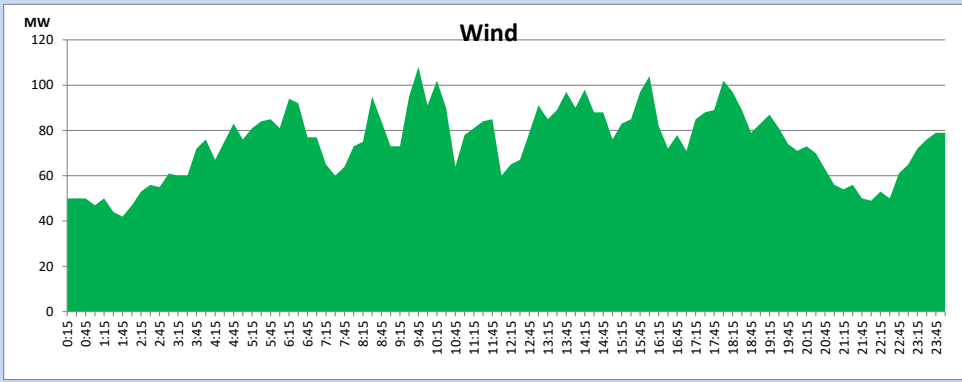
December 29, 2023



Wind Generation during

December 29, 2023

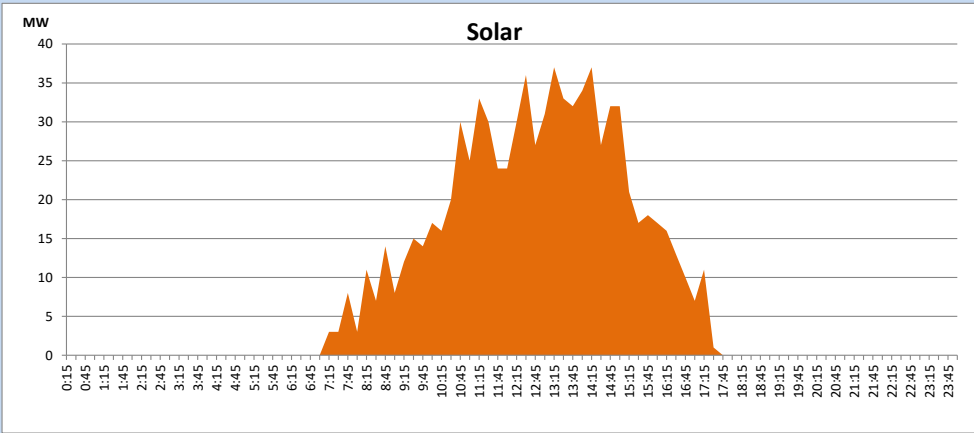
Based on Telemetered Power Stations only



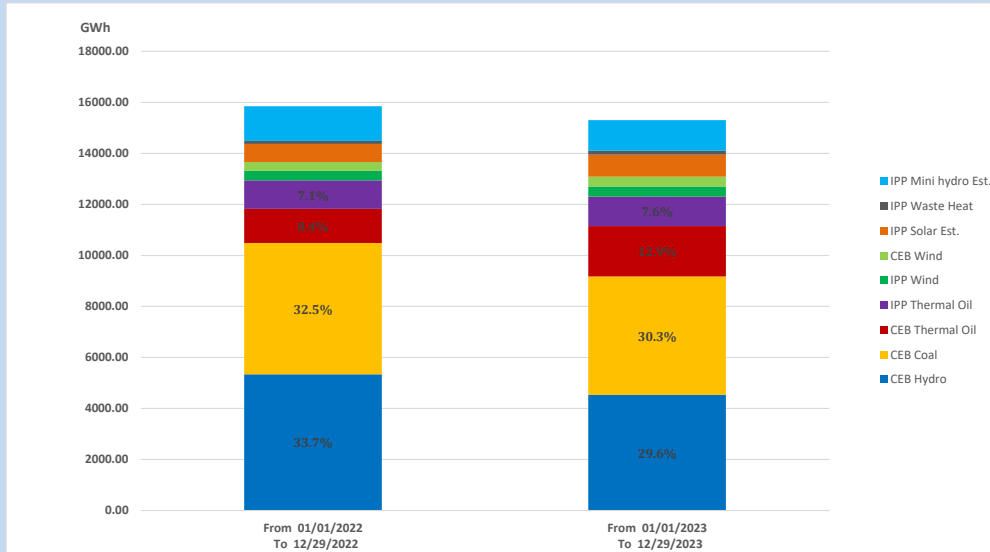
Solar Generation during

December 29, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2022 To 12/29/2022
From 01/01/2023 To 12/29/2023

15847 GWh
15300 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 29, 2023

- 1) Bowathenna, Victoria & Randenigala reservoirs spilled intermittently and spilling continues to the present hour.
- 2) Upper Kothmale pond spilling started at 04:45hrs (30.12.2023) and spilling continues to the present hour.
- 3) Rantabe pond spilled intermittently and spilling continues to the present hour.