

Generation and Reservoirs Statistics

November 6, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

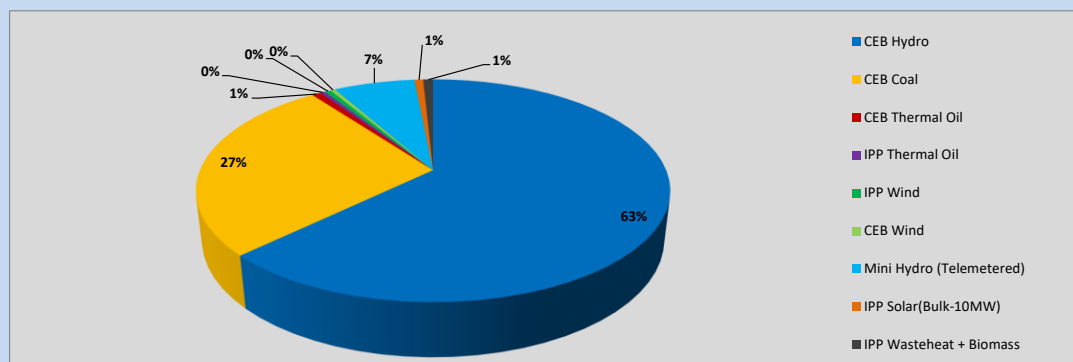


Table 01

	Generation (MWh)
CEB Hydro	22,388
CEB Coal	9,631
CEB Thermal Oil	259
IPP Thermal Oil	138
IPP Wind	182
CEB Wind	141
Mini Hydro (Telemetered)	2,363
IPP Solar (Bulk)	254
IPP Waste heat + Biomass	287
Total Generation (Excluding estimated figures)	35,643
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2507
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1640
Total Generation (Including estimated figures)	40,094

* 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	416
IPP Waste heat + Biomass	50
IPP Solar	130
Rooftop Solar* (Ordinary)	267
Rooftop Solar* (LT Bulk)	256
Rooftop Solar* (HT Bulk)	61

Data Source - Monthly Review Report [May-2023]

2. Cumulative Dispatch

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

Table 03 - Current Month

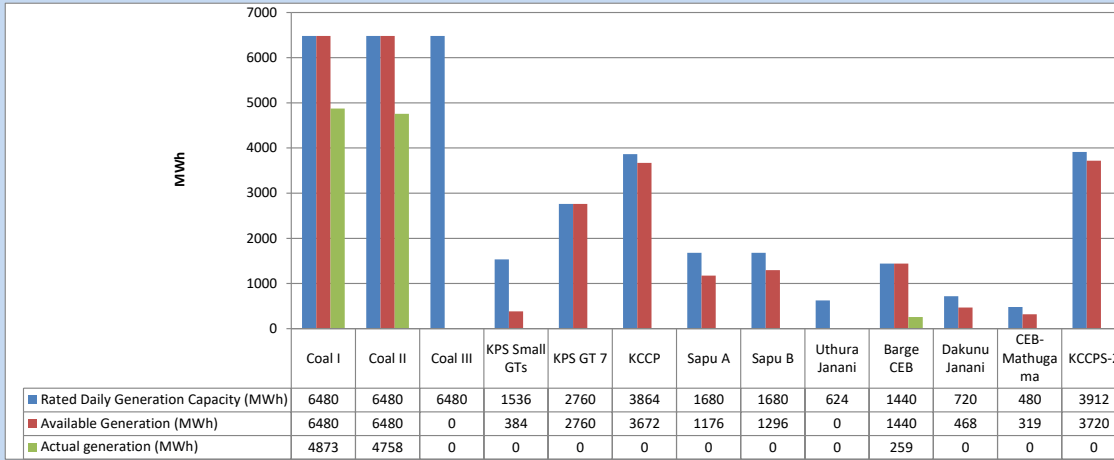
Category	Dispatch (GWh)	
CEB Hydro	133	63.21%
CEB Coal	57	26.90%
CEB Thermal Oil	1	0.67%
IPP Thermal	0	0.14%
SPP Wind	1	0.38%
CEB Wind	1	0.40%
Mini Hydro (Telemetered)	14	6.84%
IPP Solar (Bulk-10MW)	1	0.71%
IPP Waste heat + BMP	2	0.76%
Total	211	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,247	27.34%
CEB Coal	4,332	36.47%
CEB Thermal Oil	1,955	16.46%
IPP Thermal	1,114	9.38%
SPP Wind	347	2.92%
CEB Wind	357	3.01%
Mini Hydro (Telemetered)	324	2.73%
IPP Solar (Bulk-10MW)	92	0.78%
IPP Waste heat	110	0.92%
Total	11,880	

3. CEB owned Thermal Plant Dispatch

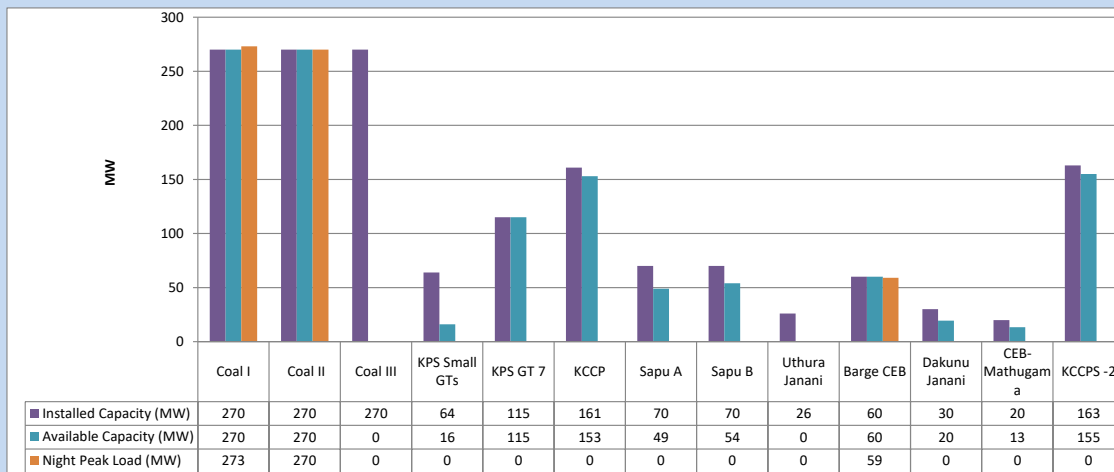
November 6, 2023



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

November 7, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

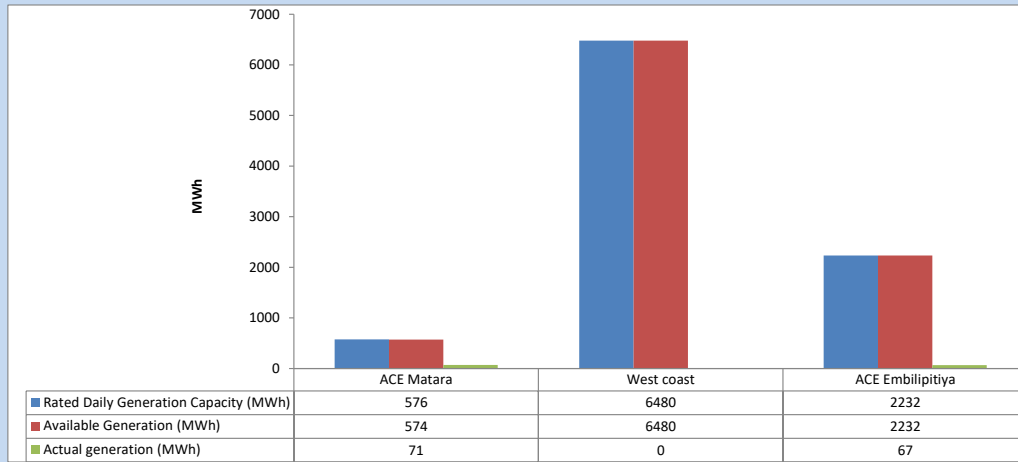


Plant availability is recorded at 6.00 am on

November 7, 2023

5. IPP owned Thermal Plant Dispatch

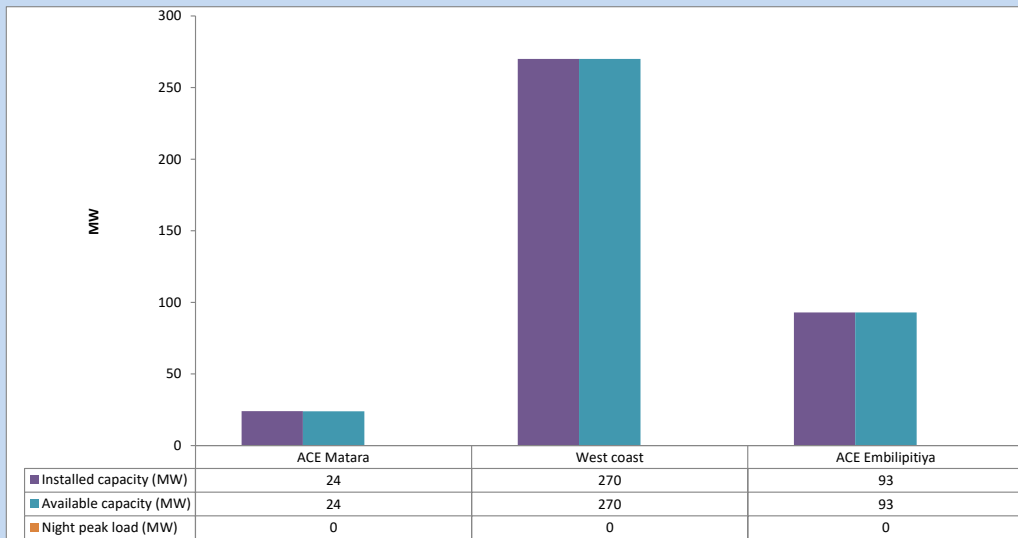
November 6, 2023



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

November 7, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

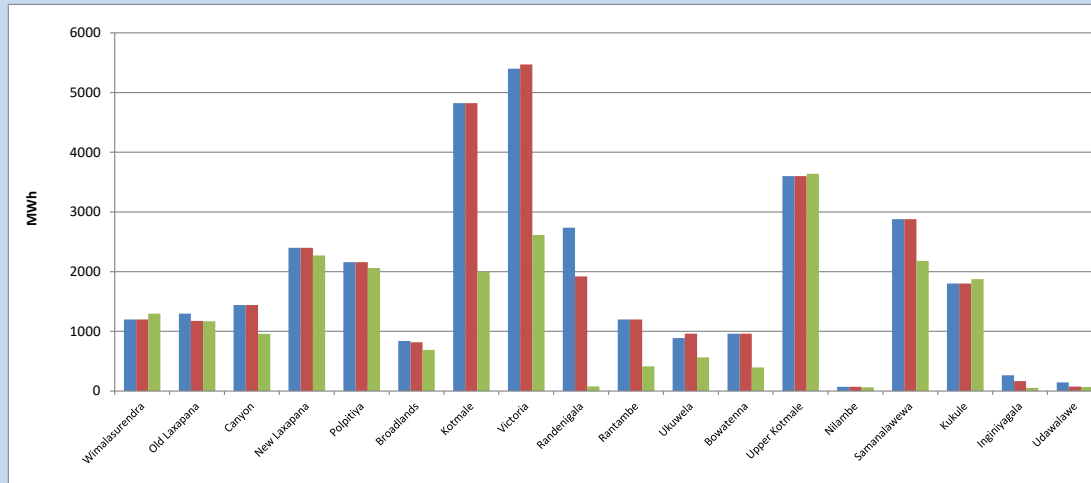


Plant availability is recorded at 6.00 am on

November 7, 2023

7. Major Hydro Plant Dispatch

November 6, 2023

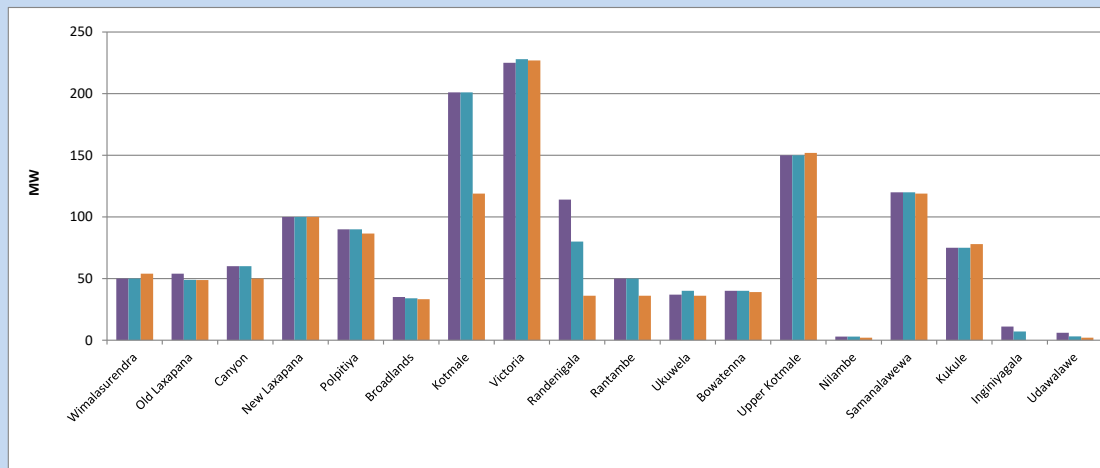


Available Generation is estimated based on plant availability at 6.00am on November 7, 2023
Broadlands power plant is operating in the Commissioning Stage

November 7, 2023

8. Major Hydro Plant Loading at Night Peak

November 6, 2023



Plant availability is recorded at 6.00 am on November 7, 2023
Broadlands power plant is operating in the Commissioning Stage

November 7, 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	50	54	1,296
Old Laxapana Canyon	54	49	49	1,169
New Laxapana	60	60	50	957
Polpitiya	100	100	100	2,271
Broadlands	90	90	87	2,060
Kotmale	35	34	33	689
Victoria	201	201	119	2,000
Randenigala	225	228	227	2,613
Rantambe	114	80	36	77
Ukuwela	50	50	36	415
Bowatenna	37	40	36	564
Upper Kotmale	40	40	39	395
Nilambe	150	150	152	3,641
Samanalawewa	3	3	2	64
Kukule	120	120	119	2,180
Inginiyagala	75	75	78	1,875
Udawalawe	11	7	0	54
Puttalam Coal I	6	3	2	68
Puttalam Coal II	270	270	273	4,873
Puttalam Coal III	270	270	270	4,758
KPS Small GTs	270	0	0	0
KPS GT 7	64	16	0	0
KCCP	115	115	0	0
Sapugaskanda A	161	153	0	0
Sapugaskanda B	70	49	0	0
Uthura Janani	70	54	0	0
Barge CEB	26	0	0	0
CEB-Hambantota	60	60	59	259
CEB-Mathugama	30	20	0	0
ACE Matara	20	13	0	0
Asia Power	24	24	0	71
KCCPS -2	50	0	0	0
West Coast	163	155	0	0
Nothern Power	270	270	0	0
ACE Embilipitiya	36	0	0	0
Total	93	93	0	67
Total	3,483	2,942	1,948	35,643

Plant availability is the availability recorded at 6 am on

November 7, 2023

10. Contribution to the Night Peak in MW

November 6, 2023

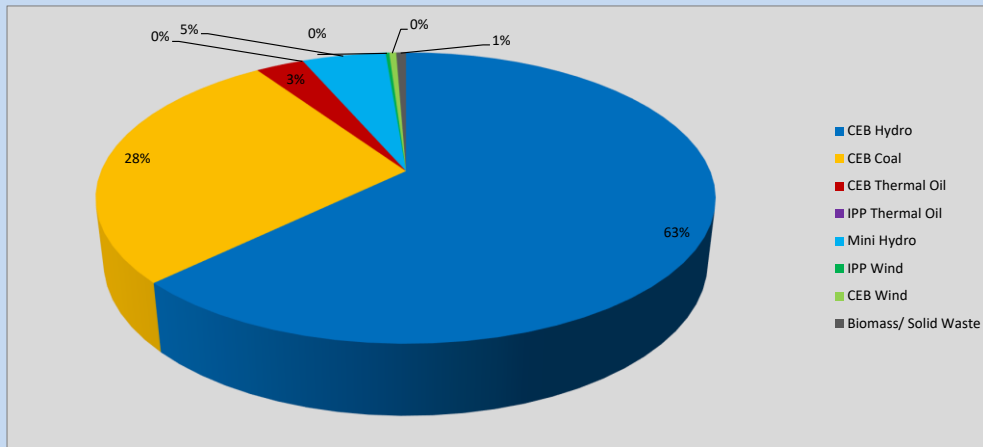


Table 06

CEB Hydro	1232	MW
CEB Coal	543	MW
CEB Thermal Oil	59	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	103	MW
IPP Wind	4.5	MW
CEB Wind	8.5	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

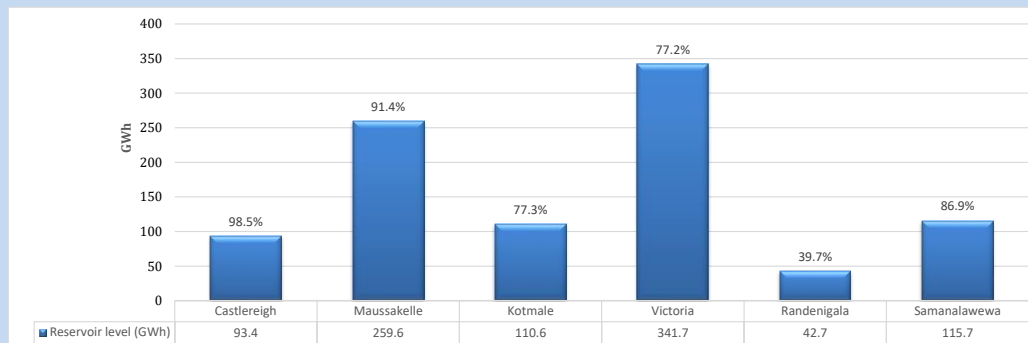
Table 07

Night Peak*	1,961	MW
Day Peak Maximum Demand	1,847	MW
Day Peak Minimum Demand	1,484	MW
Off Peak Minimum Demand	973	MW

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

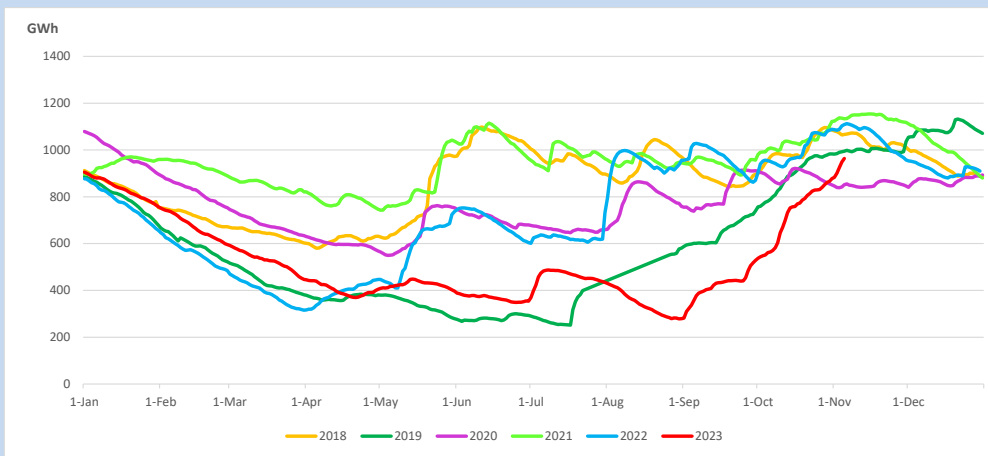
Reservoir Levels -

as at 06.00 Hr on November 7, 2023

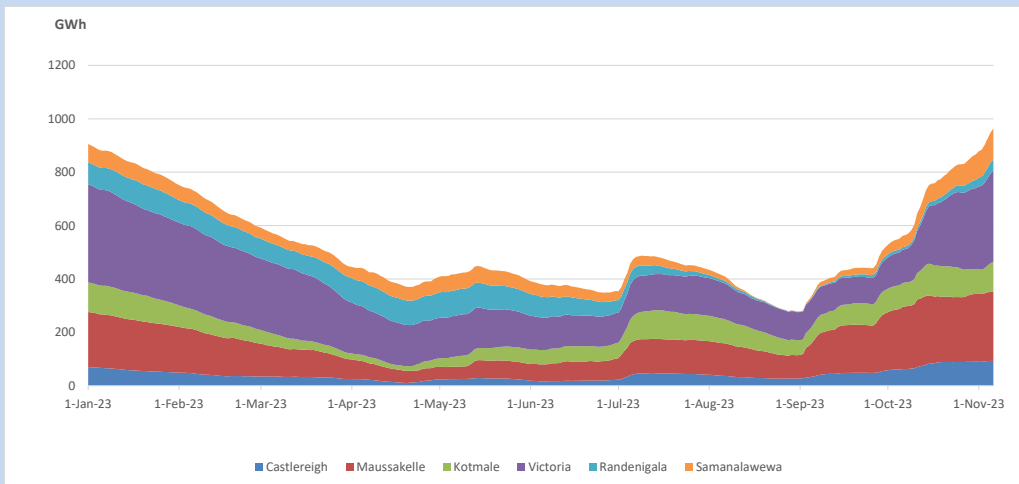


Total Reservoir Level 963.7 GWh
 % of Total capacity 80.0%

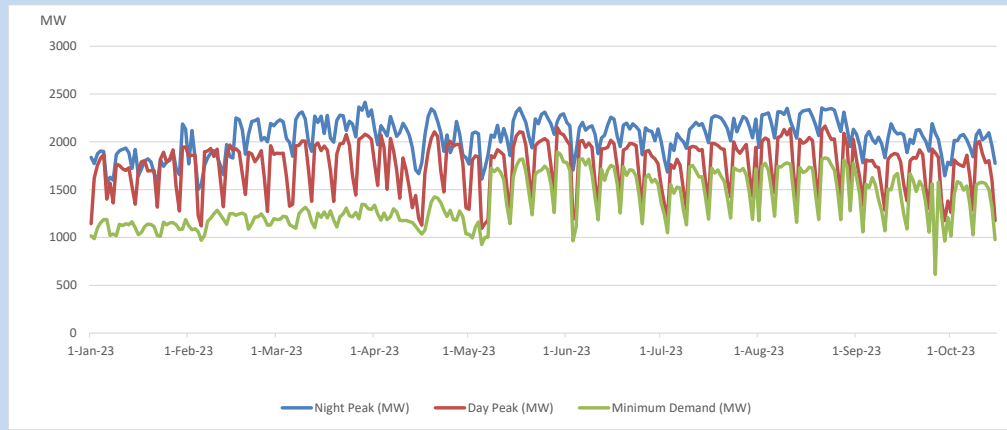
11. Comparison of Total Reservoir Storage Levels with Past Years



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



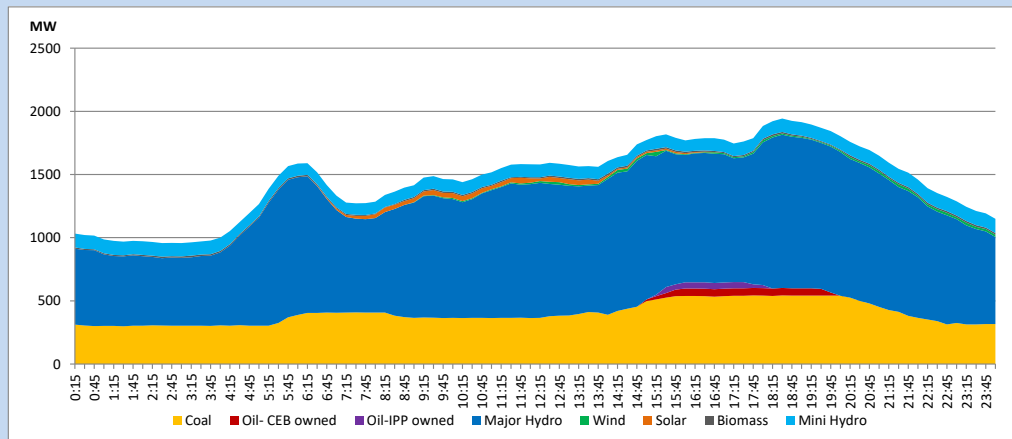
13. Variation of Demand during the current year



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

14. Daily Load Curve

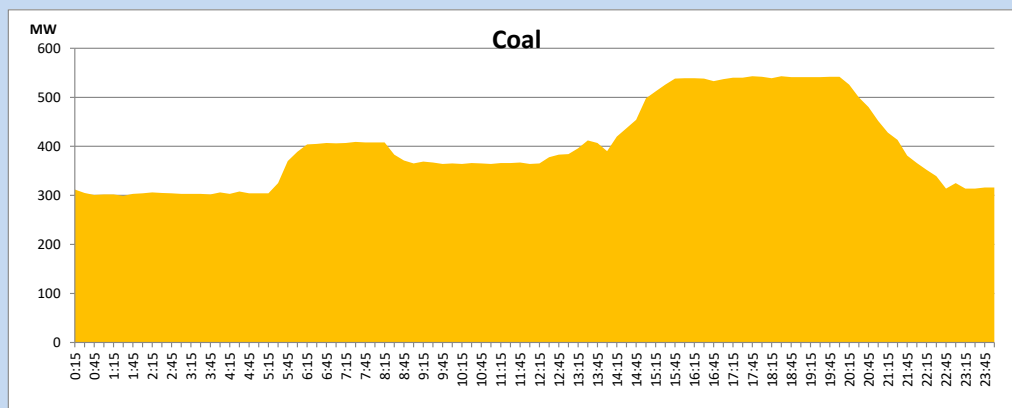
November 6, 2023



Solar and wind data is based on Telemetered Power Stations only

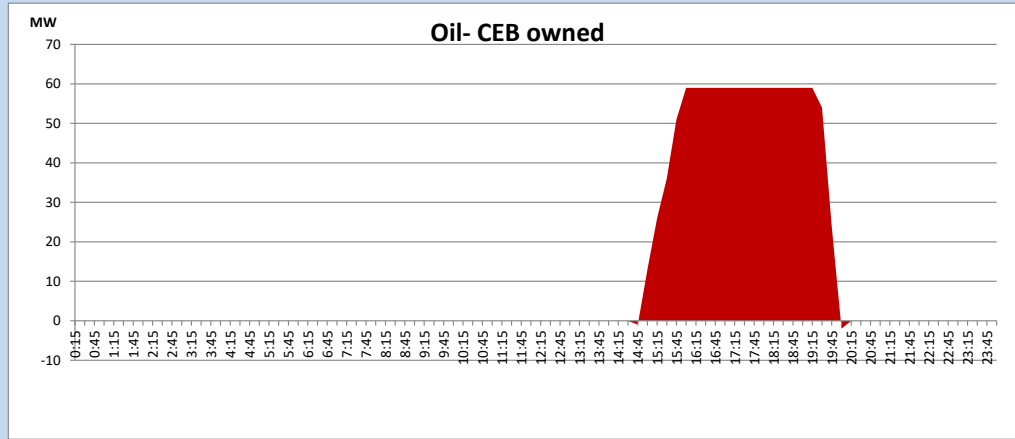
Coal Generation during

November 6, 2023



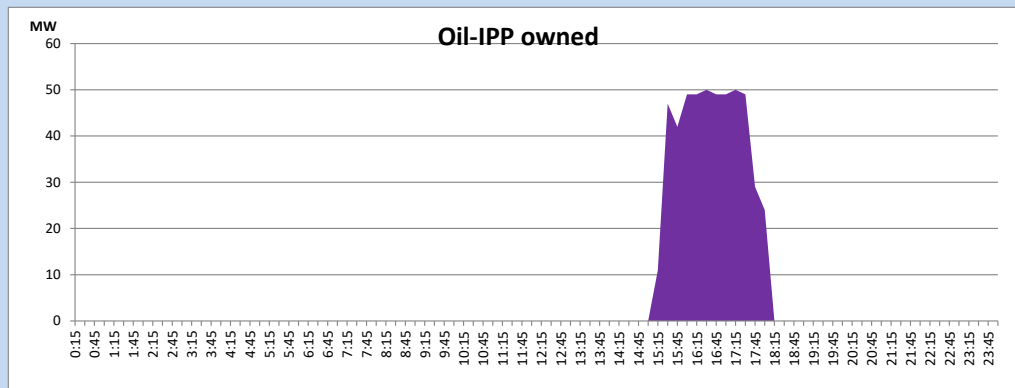
CEB Oil Plant Generation during

November 6, 2023



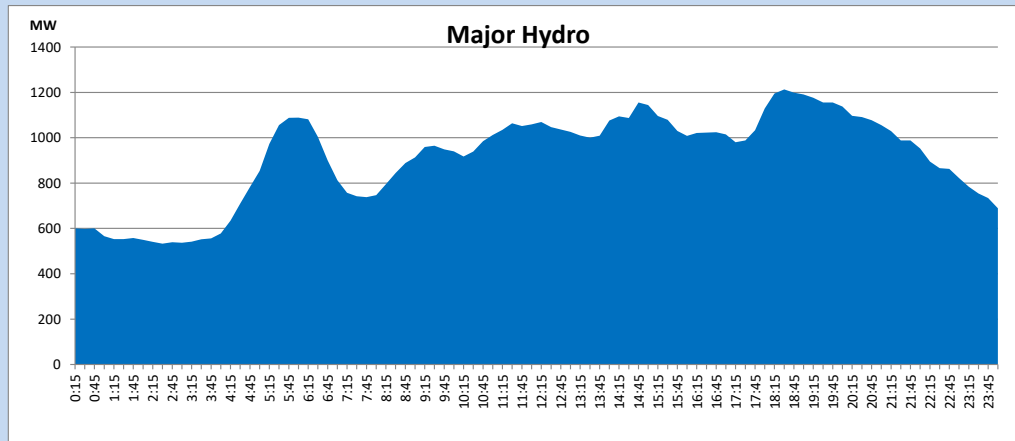
IPP Oil Plant Generation during

November 6, 2023



Major Hydro Generation during

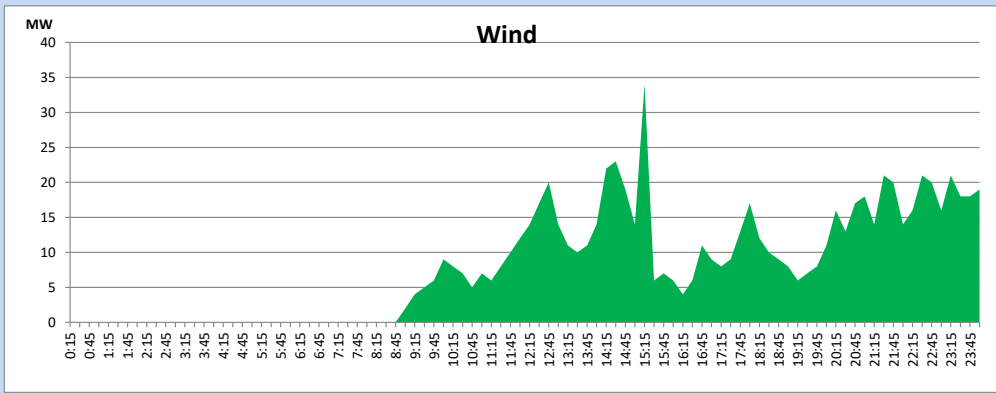
November 6, 2023



Wind Generation during

November 6, 2023

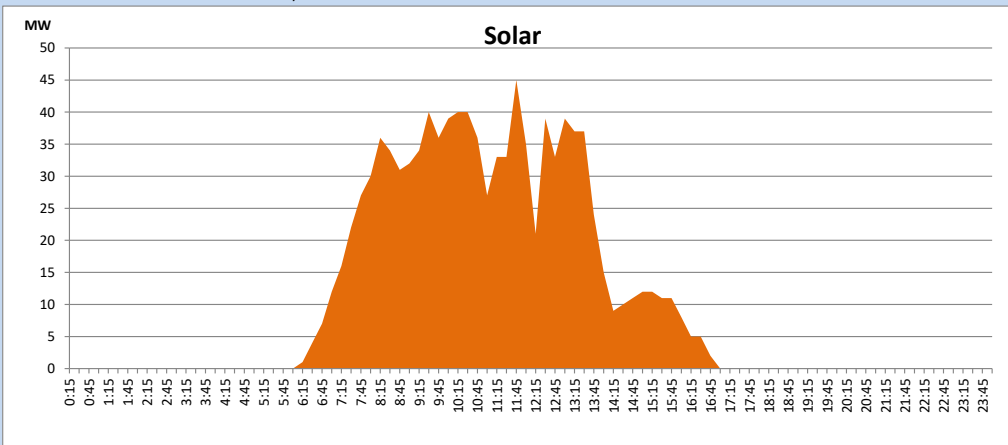
Based on Telemetered Power Stations only



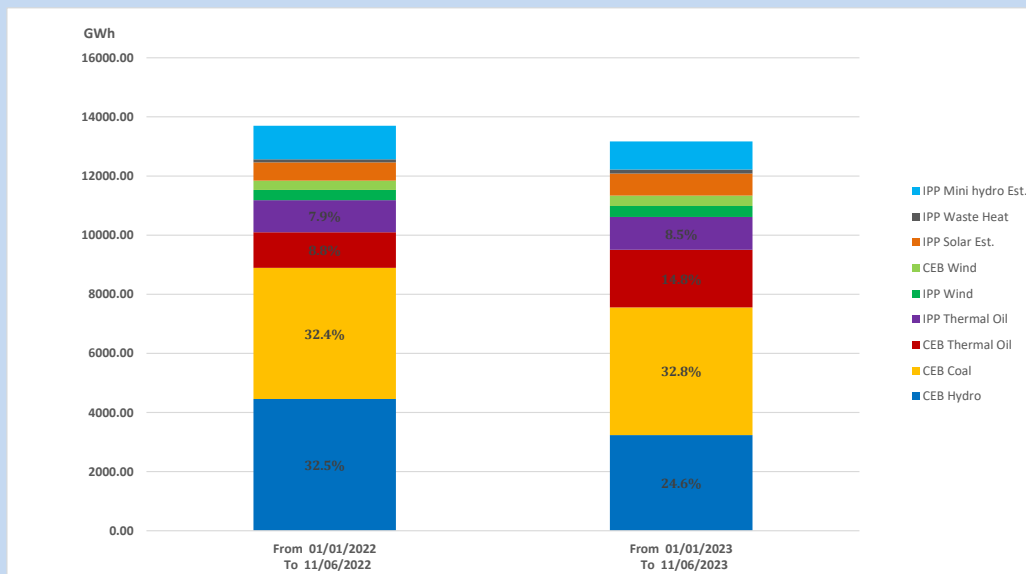
Solar Generation during

November 6, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 11/06/2022

13701 GWh

From 01/01/2023 To 11/06/2023

13175 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

November 6, 2023

- 1) Athurugiriya - N'Polpitiya – Thulhiriya and Athurugiriya - Polpitiya - Thulhiriya 132kV ccts tripped from N'Polpitiya end and tripped and A/R from other ends at 14:18hrs, due to the operation of distance protection. System frequency dropped to 48.73Hz due to the disturbanc and system recovered with operation of UFLS stage 1. Athurugiriya - N'Polpitiya - Thulhiriya 132kV cct restored at 14:28hrs.
- 2) N'Chilaw - Puttalam 132kV both ccts tripped from N'chilaw end due to operation of Distance protection (N'Chilaw - Puttalam both ccts switched off from Puttalam end for system requirement). N'Chilaw - Puttalam both ccts restored at 15:15hrs.
- 3) Kotmale - N'Habarana 220kV both ccts tripped from both ends at 15:00hrs due to operation of Distance protection. Both ccts restored by 15:15hrs.
- 4) Horana - Mathugama cct and Horana - Kesbewa - Panadura cct tripped from Horana end and tripped & A/R from other ends at 15:39hrs due to operation of Distance protection, causing Horana GSS being dead. Horana GSS energized via Horana - Mathugama cct at 15:53hrs, and Horana - Kesbewa - Panadura cct restored at 16:00hrs.
- 5) Upper Kothmale and Kukule ponds spilling continues to the present hour.