

Generation and Reservoirs Statistics

September 16, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

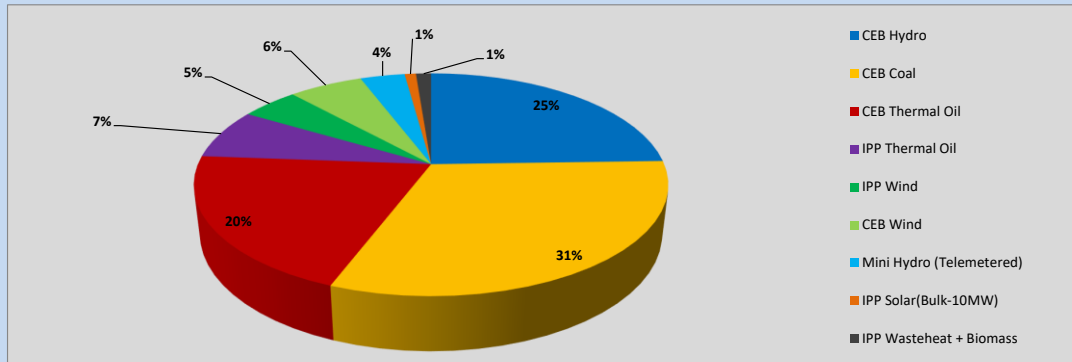


Table 01

	Generation (MWh)
CEB Hydro	8,810
CEB Coal	11,240
CEB Thermal Oil	7,330
IPP Thermal Oil	2,618
IPP Wind	1,685
CEB Wind	2,167
Mini Hydro (Telemetered)	1,305
IPP Solar (Bulk)	331
IPP Waste heat + Biomass	443
Total Generation (Excluding estimated figures)	35,929
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2335
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1660
Total Generation (Including estimated figures)	40,228

* 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

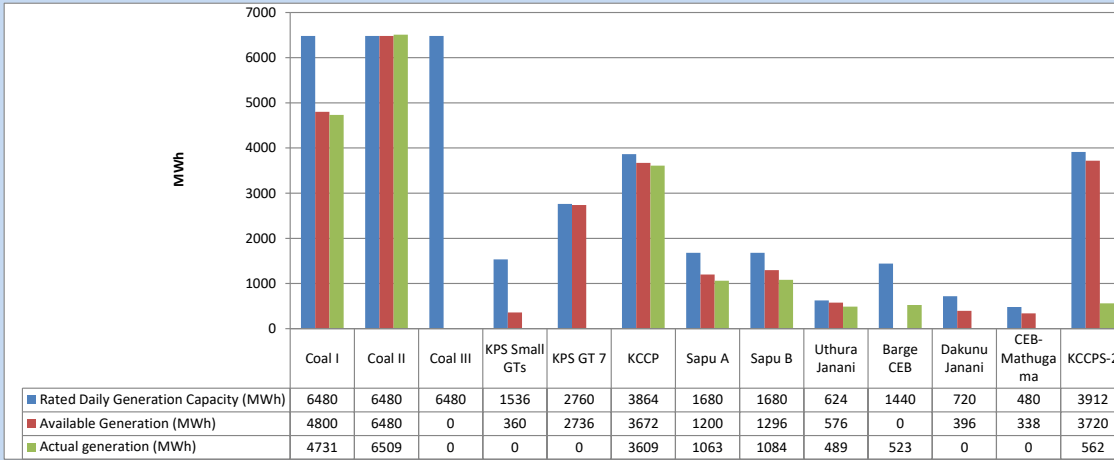
Category	Dispatch (GWh)	
CEB Hydro	132	22.19%
CEB Coal	188	31.57%
CEB Thermal Oil	112	18.87%
IPP Thermal	57	9.59%
SPP Wind	37	6.24%
CEB Wind	35	5.85%
Mini Hydro (Telemetered)	24	3.98%
IPP Solar(Bulk-10MW)	4	0.71%
IPP Waste heat + BMP	6	1.00%
Total	595	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,431	24.18%
CEB Coal	3,772	37.52%
CEB Thermal Oil	1,798	17.88%
IPP Thermal	1,047	10.41%
SPP Wind	297	2.96%
CEB Wind	304	3.02%
Mini Hydro (Telemetered)	234	2.33%
IPP Solar(Bulk-10MW)	79	0.78%
IPP Waste heat	93	0.93%
Total	10,055	

3. CEB owned Thermal Plant Dispatch

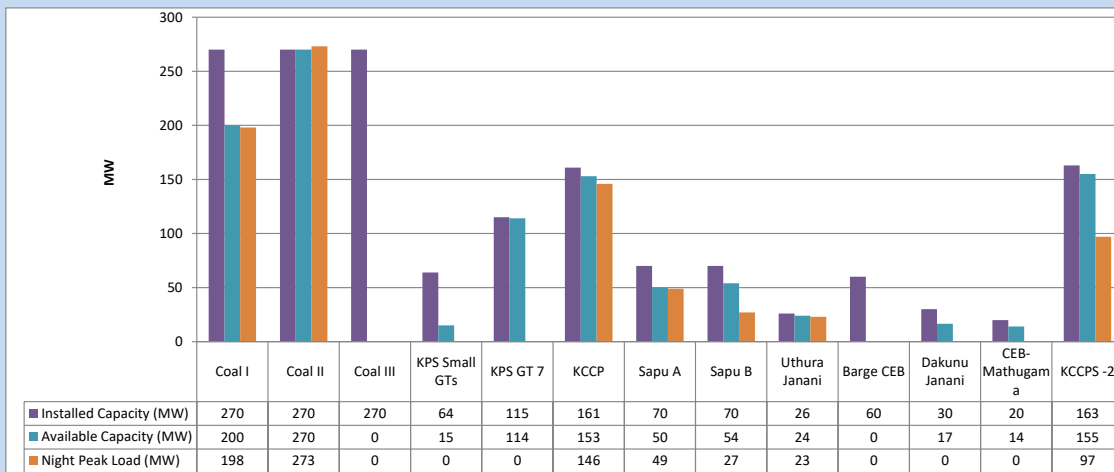
September 16, 2023



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

September 17, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

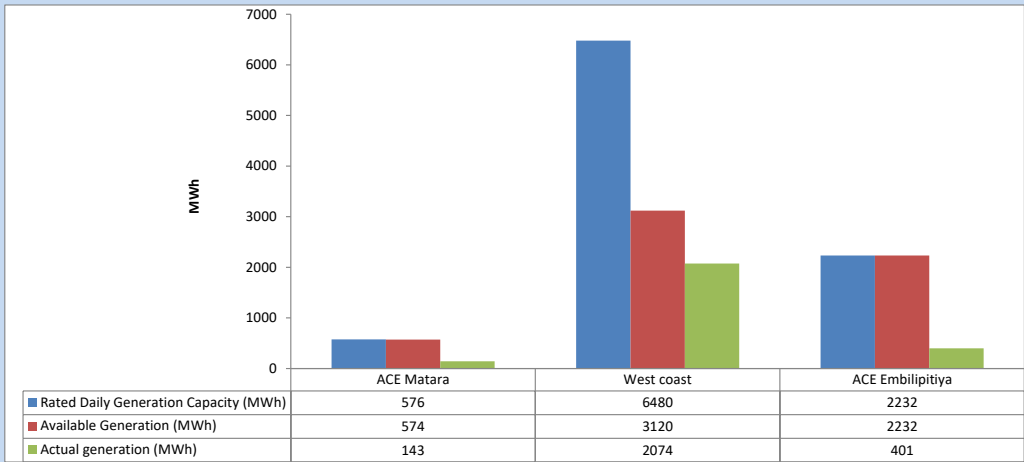


Plant availability is recorded at 6.00 am on

September 17, 2023

5. IPP owned Thermal Plant Dispatch

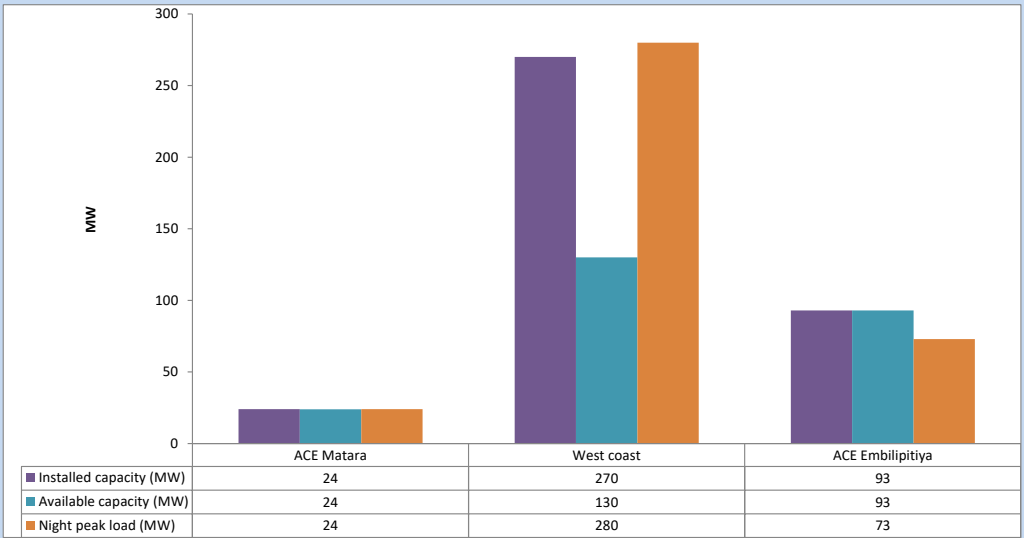
September 16, 2023



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

September 17, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

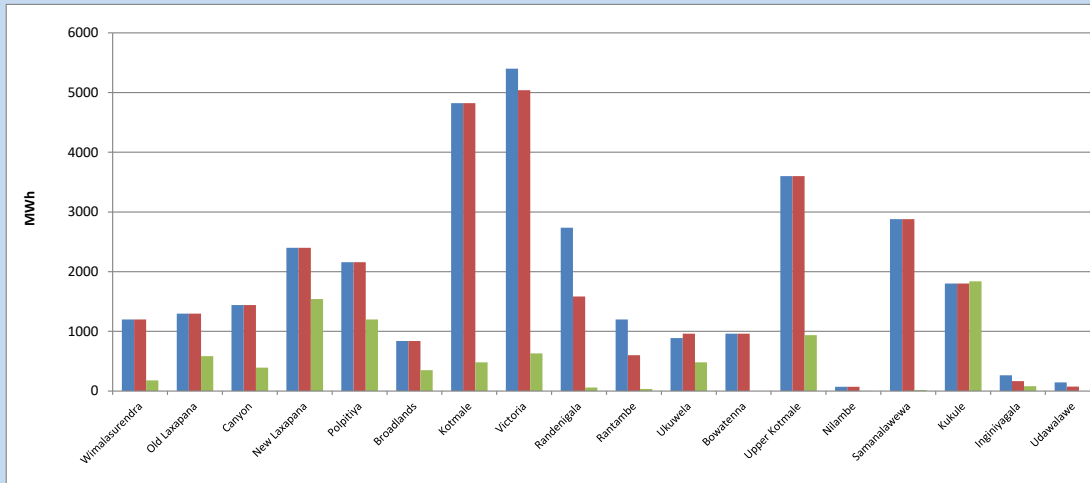


Plant availability is recorded at 6.00 am on

September 17, 2023

7. Major Hydro Plant Dispatch

September 16, 2023

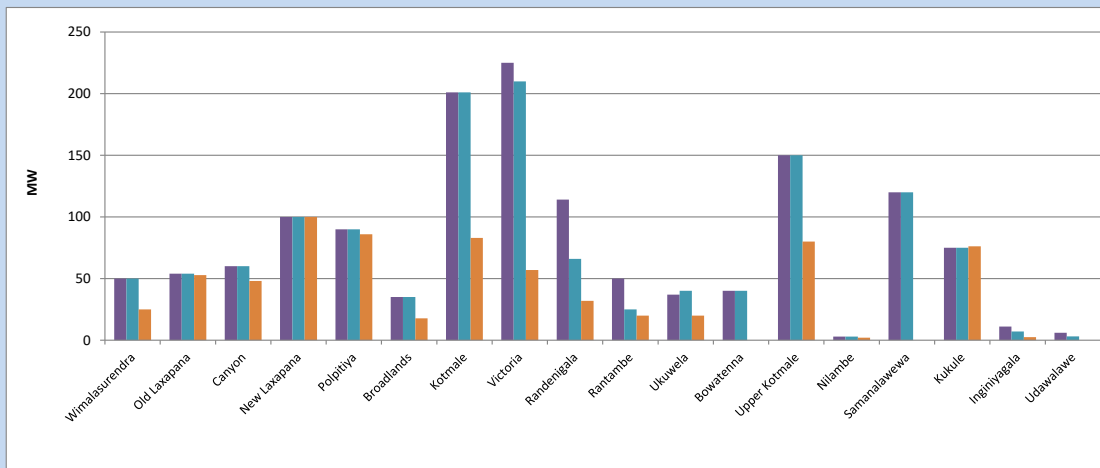


Available Generation is estimated based on plant availability at 6.00am on September 17, 2023
Broadlands power plant is operating in the Commissioning Stage

September 17, 2023

8. Major Hydro Plant Loading at Night Peak

September 16, 2023



Plant availability is recorded at 6.00 am on September 17, 2023
Broadlands power plant is operating in the Commissioning Stage

September 17, 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	50	25	178
Old Laxapana Canyon	54	54	53	586
New Laxapana	60	60	48	394
Polpitiya	100	100	100	1,542
Broadlands	90	90	86	1,200
Kotmale	35	35	18	350
Victoria	201	201	83	480
Randenigala	225	210	57	631
Rantambe	114	66	32	59
Ukuwela	50	25	20	36
Bowatenna	37	40	20	480
Upper Kotmale	40	40	0	0
Nilambe	150	150	80	937
Samanalawewa	3	3	2	2
Kukule	120	120	0	16
Inginiyagala	75	75	76	1,839
Udawalawe	11	7	3	80
Puttalam Coal I	6	3	0	0
Puttalam Coal II	270	200	198	4,731
Puttalam Coal III	270	270	273	6,509
KPS Small GTs	270	0	0	0
KPS GT 7	64	15	0	0
KCCP	115	114	0	0
Sapugaskanda A	161	153	146	3,609
Sapugaskanda B	70	50	49	1,063
Uthura Janani	70	54	27	1,084
Barge CEB	26	24	23	489
CEB-Hambantota	60	0	0	523
CEB-Mathugama	30	17	0	0
ACE Matara	20	14	0	0
Asia Power	24	24	24	143
KCCPS -2	50	0	0	0
West Coast	163	155	97	562
Nothern Power	270	130	280	2,074
ACE Embilipitiya	36	0	0	0
Total	93	93	73	401
	3,483	2,642	2,080	35,929

Plant availability is the availability recorded at 6 am on

September 17, 2023

10. Contribution to the Night Peak in MW

September 16, 2023

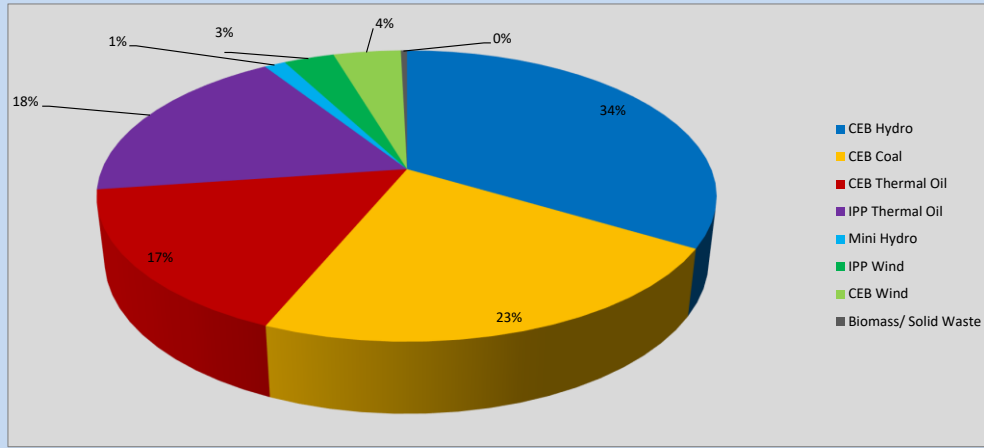


Table 06

CEB Hydro	696	MW
CEB Coal	471	MW
CEB Thermal Oil	342	MW
IPP Thermal Oil	377	MW
Mini Hydro (Telemetered)	27	MW
IPP Wind	65.3	MW
CEB Wind	87.3	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

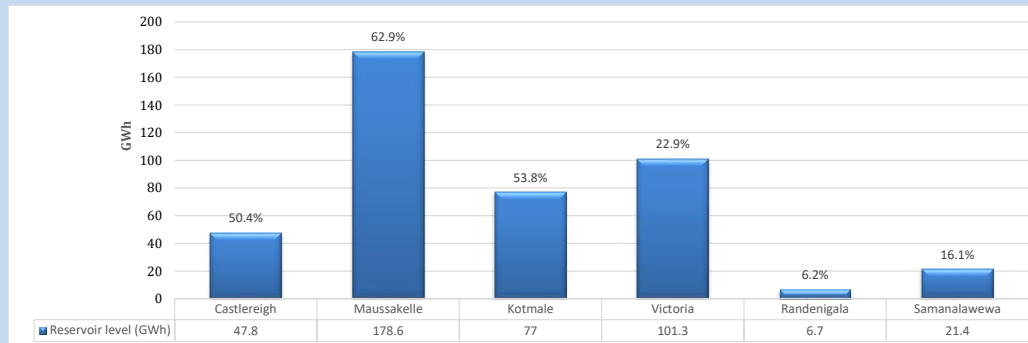
Table 07

Night Peak*	2,074	MW
Day Peak Maximum Demand	1,557	MW
Day Peak Minimum Demand	1,249	MW
Off Peak Minimum Demand	1,155	MW

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

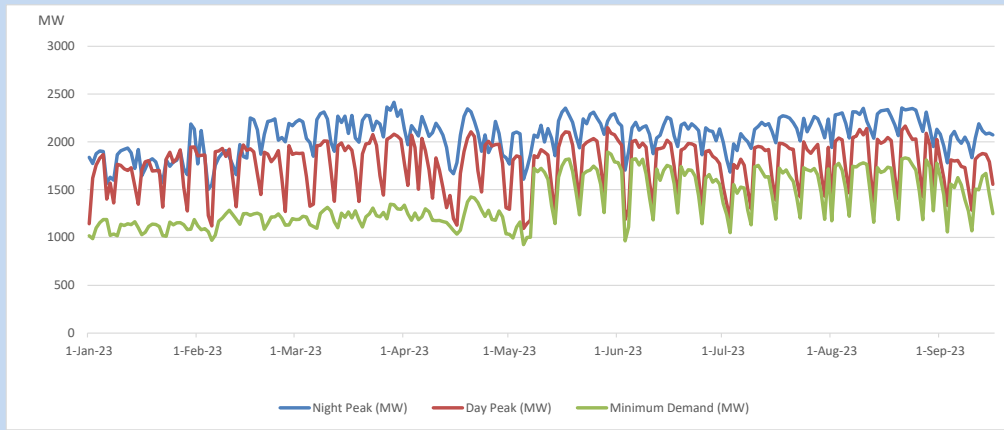
Reservoir Levels -

as at 06.00 Hr on September 17, 2023



Total Reservoir Level 432.8 GWh
% of Total capacity 35.9%

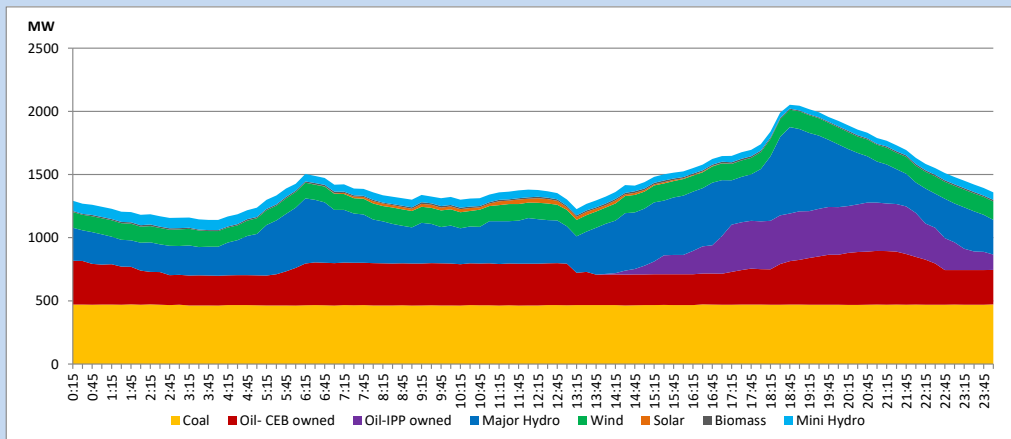
13. Variation of Demand during the current year



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

14. Daily Load Curve

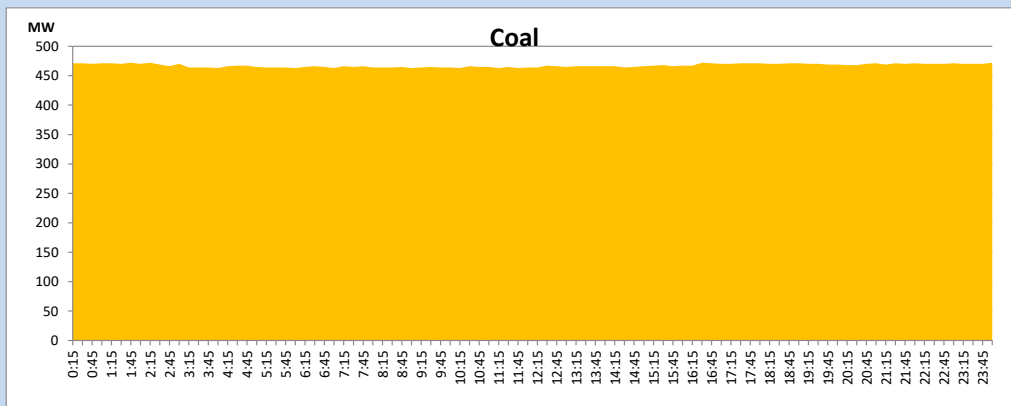
September 16, 2023



Solar and wind data is based on Telemetered Power Stations only

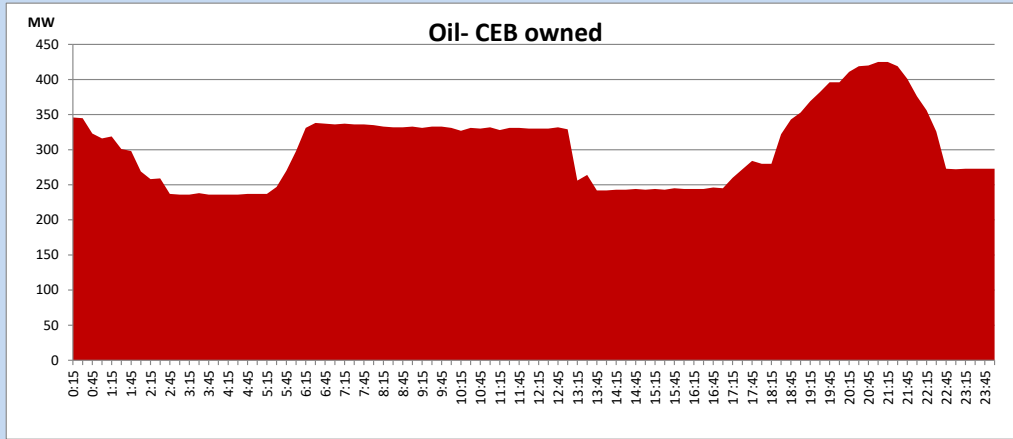
Coal Generation during

September 16, 2023



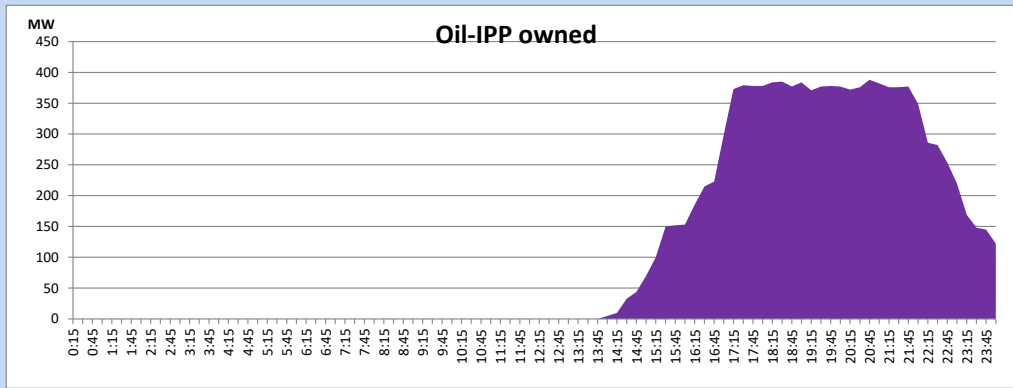
CEB Oil Plant Generation during

September 16, 2023



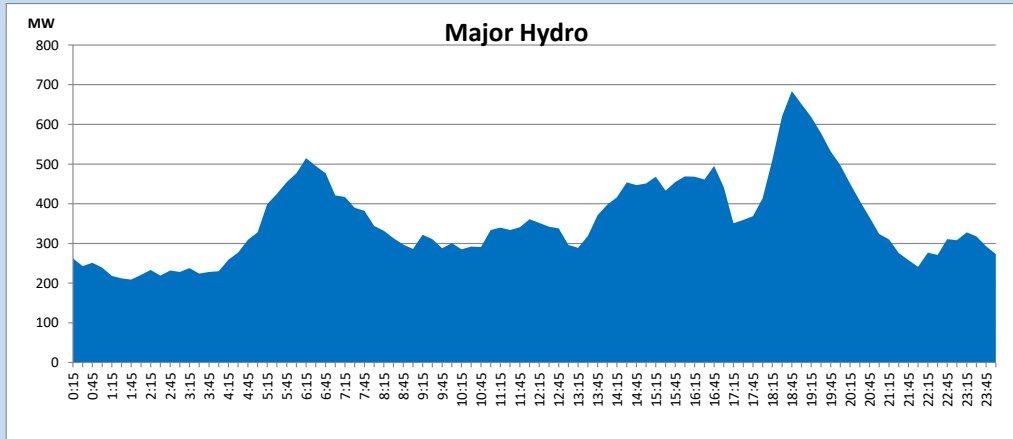
IPP Oil Plant Generation during

September 16, 2023



Major Hydro Generation during

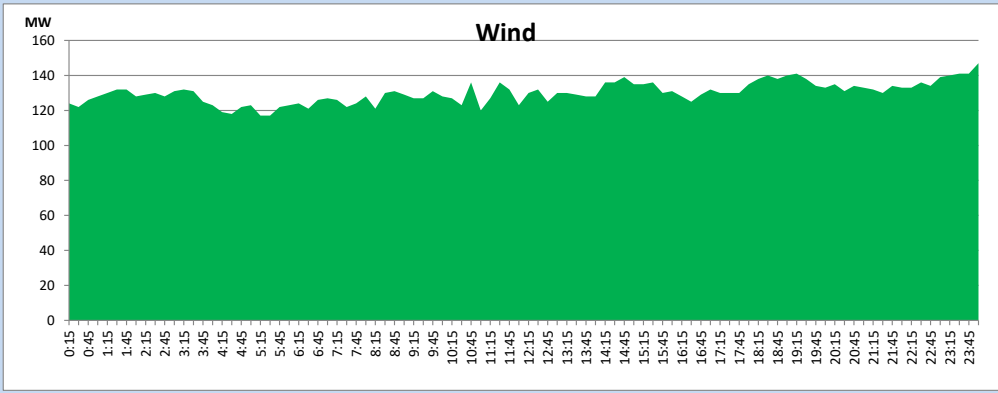
September 16, 2023



Wind Generation during

September 16, 2023

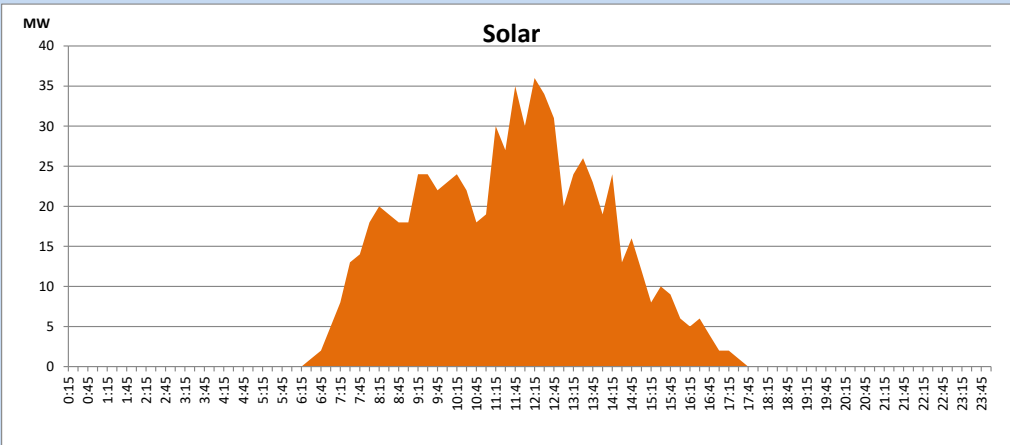
Based on Telemetered Power Stations only



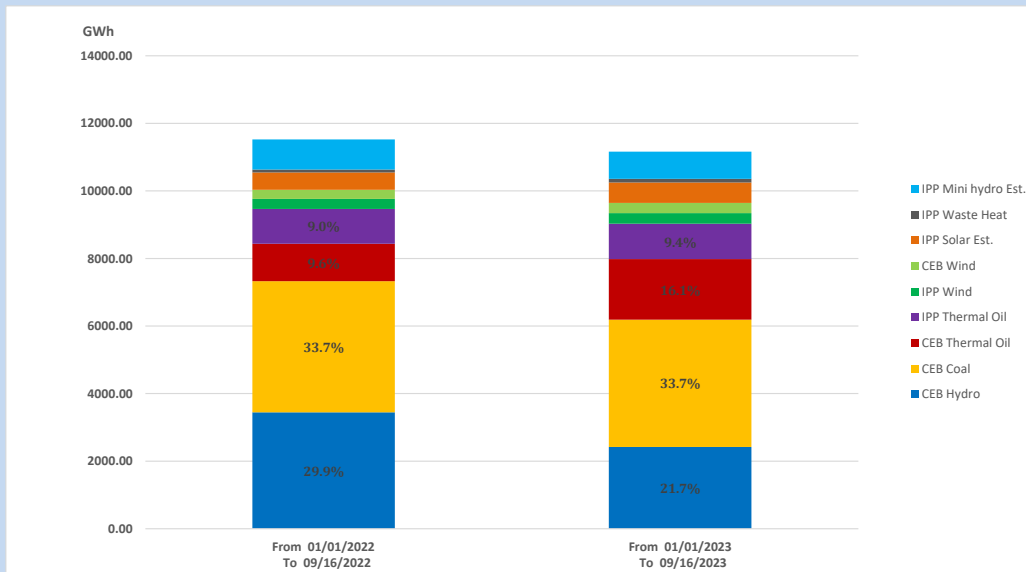
Solar Generation during

September 16, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 09/16/2022

11523 GWh

From 01/01/2023 To 09/16/2023

11163 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

September 16, 2023

- 1) Kukule pond spilling stopped at 08:15hrs.

- 2) Kelanitissa-Barge PS 220kV cable tripped at 13:10hrs due to a failure of optical fiber cable, causing BMPP(60MW) to trip and reject from the system. Consequently, system recovered with the operation of UFLS Stage II. Kelanitissa-Barge PS 220kV cable is yet to be normalized.