

Generation and Reservoirs Statistics

July 5, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

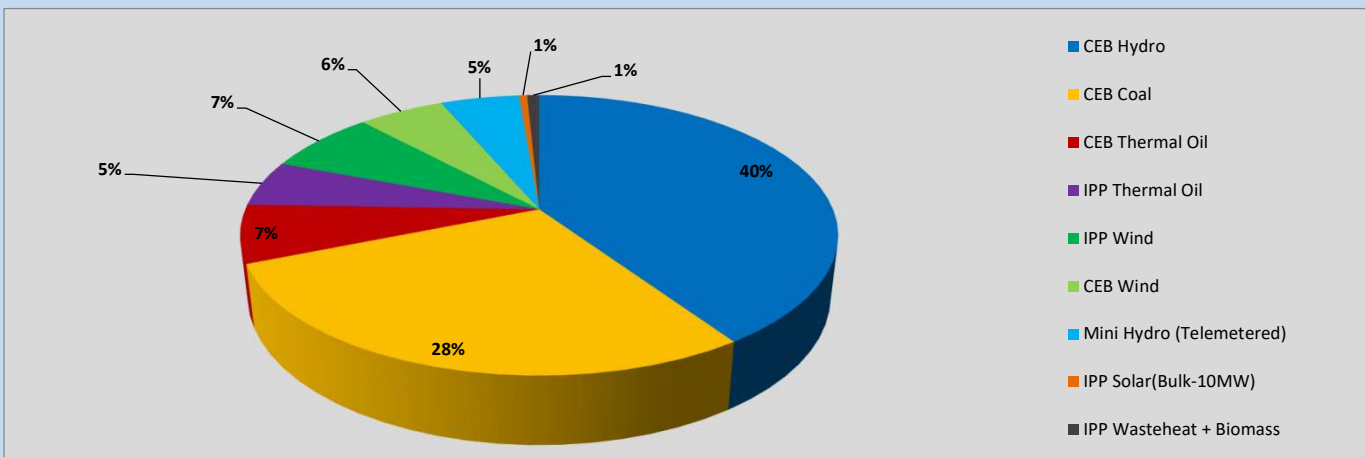


Table 01

CEB Hydro	15,123	MWh
CEB Coal	10,573	MWh
CEB Thermal Oil	2,491	MWh
IPP Thermal Oil	1,972	MWh
IPP Wind	2,694	MWh
CEB Wind	2,072	MWh
Mini Hydro (Telemetered)	1,900	MWh
IPP Solar (Bulk)	198	MWh
IPP Wasteheat + Biomass	291	MWh
Total Generation (Excluding estimated figures)	37,314	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	1610	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	40,878	MWh

* Estimated figures of CEB generation report

2. Cumulative Dispatch

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

Table 02 - Current Month

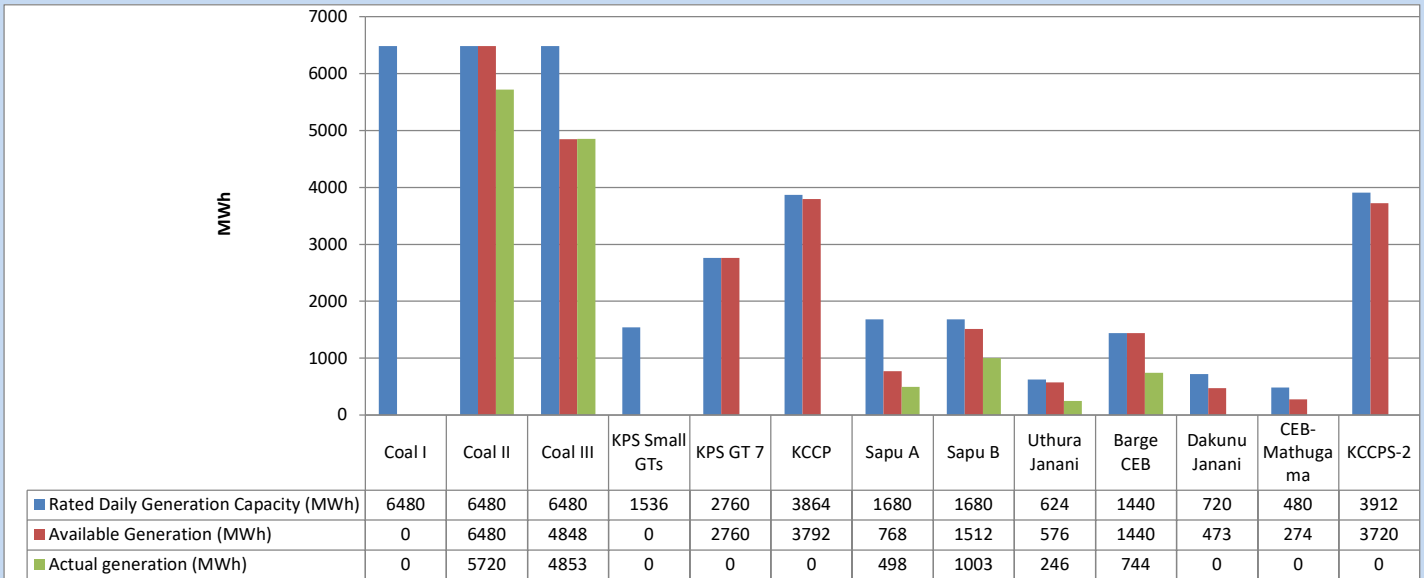
Category	Dispatch (GWh)	
CEB Hydro	58	32.86%
CEB Coal	54	30.69%
CEB Thermal Oil	20	11.64%
IPP Thermal	13	7.19%
SPP Wind	10	5.99%
CEB Wind	9	5.00%
Mini Hydro (Telemetered)	9	4.94%
IPP Solar (Bulk-10MW)	1	0.70%
IPP Wasteheat + BMP	2	0.99%
Total	175	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,795	25.19%
CEB Coal	2,937	41.20%
CEB Thermal Oil	1,104	15.49%
IPP Thermal	667	9.35%
SPP Wind	162	2.27%
CEB Wind	173	2.42%
Mini Hydro (Telemetered)	175	2.45%
IPP Solar (Bulk-10MW)	54	0.76%
IPP Wasteheat	62	0.87%
Total	7,128	

3. CEB owned Thermal Plant Dispatch

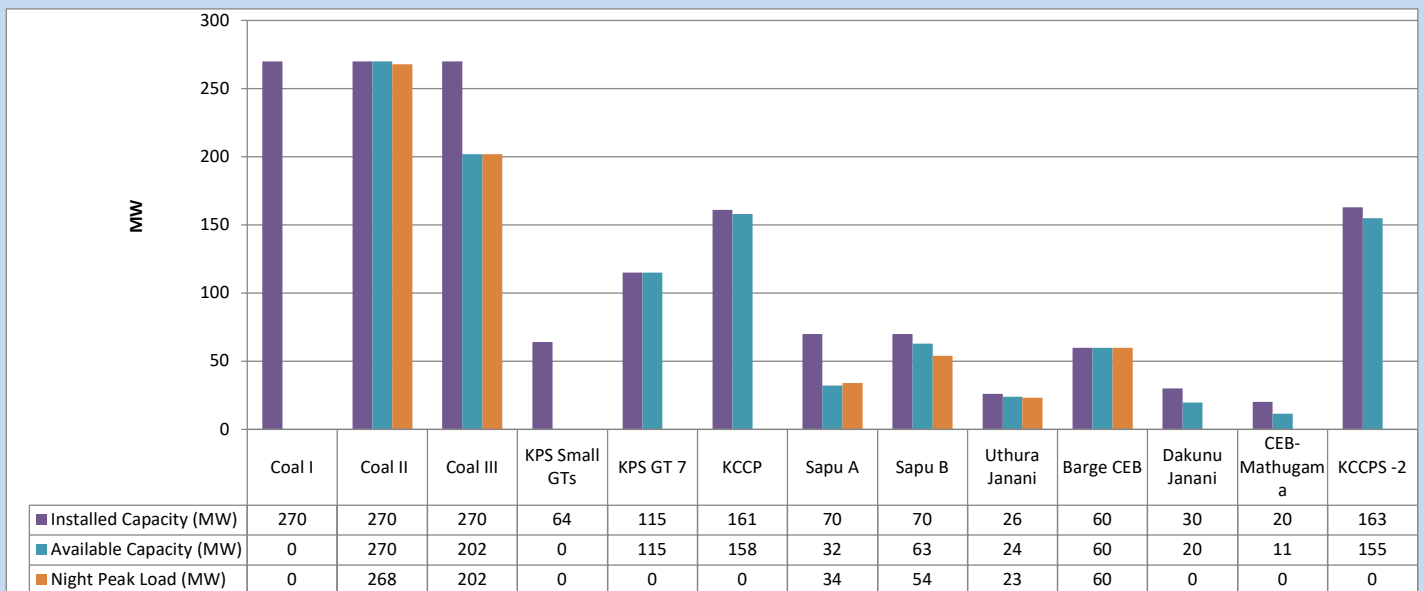
July 5, 2023



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

July 6, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

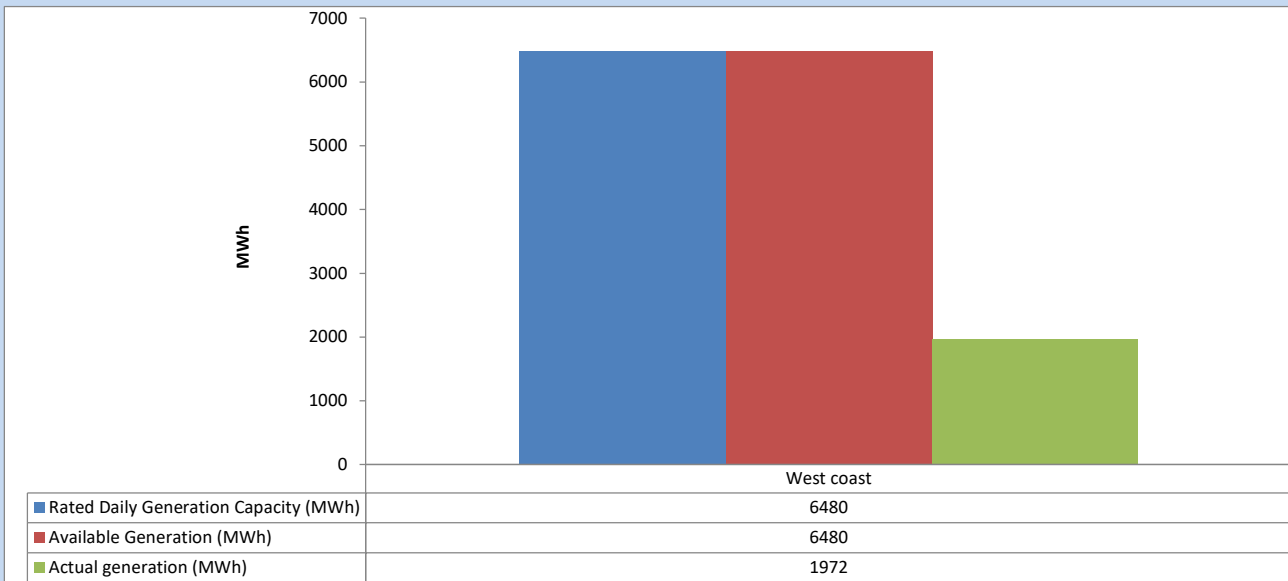


Plant availability is recorded at 6.00 am on

July 6, 2023

5. IPP owned Thermal Plant Dispatch

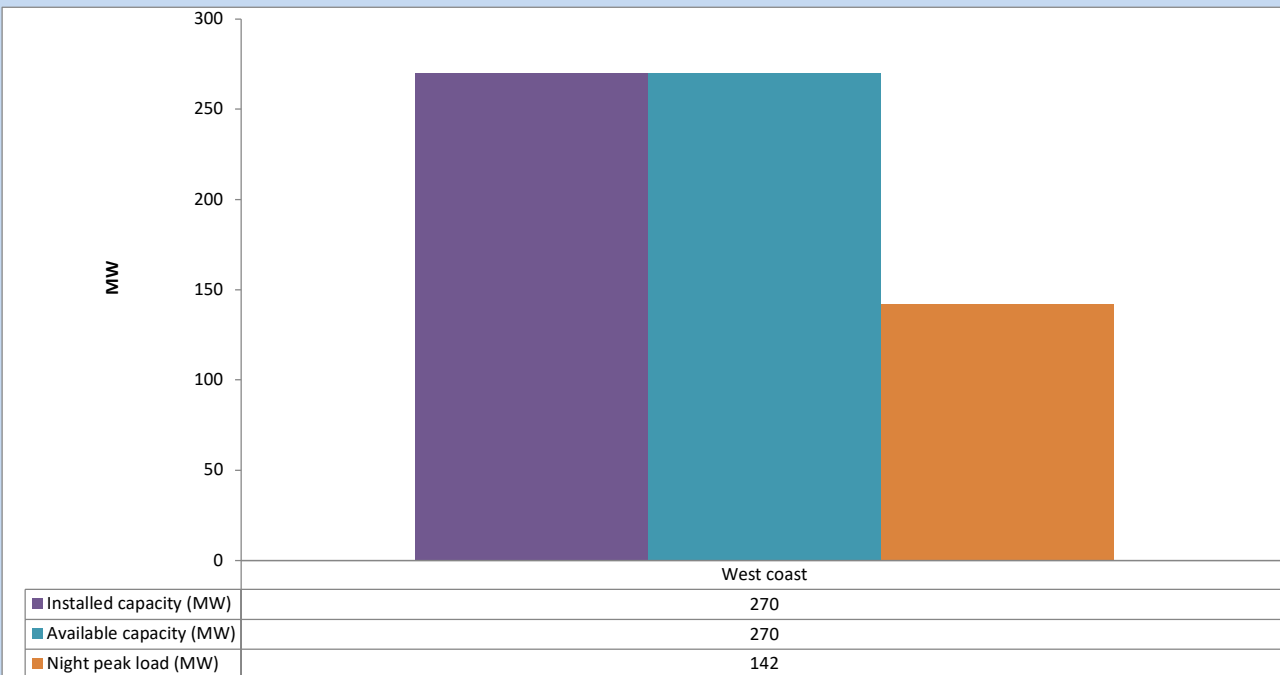
July 5, 2023



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

July 6, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

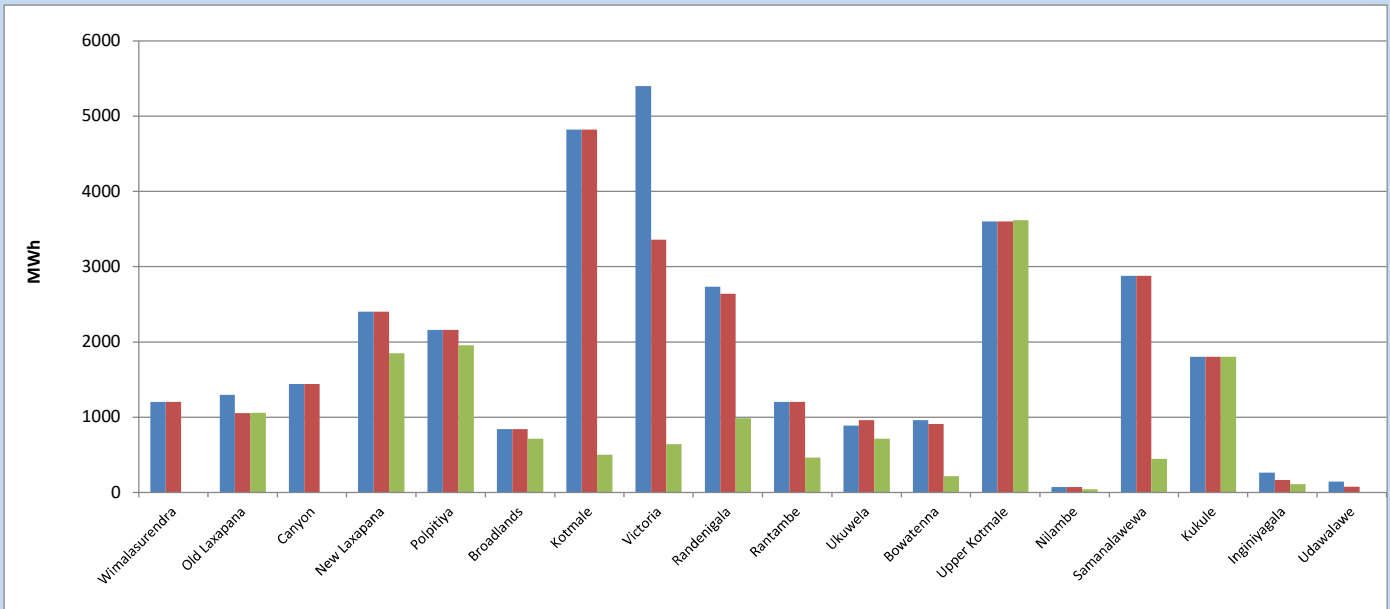


Plant availability is recorded at 6.00 am on

July 6, 2023

7. Major Hydro Plant Dispatch

July 5, 2023

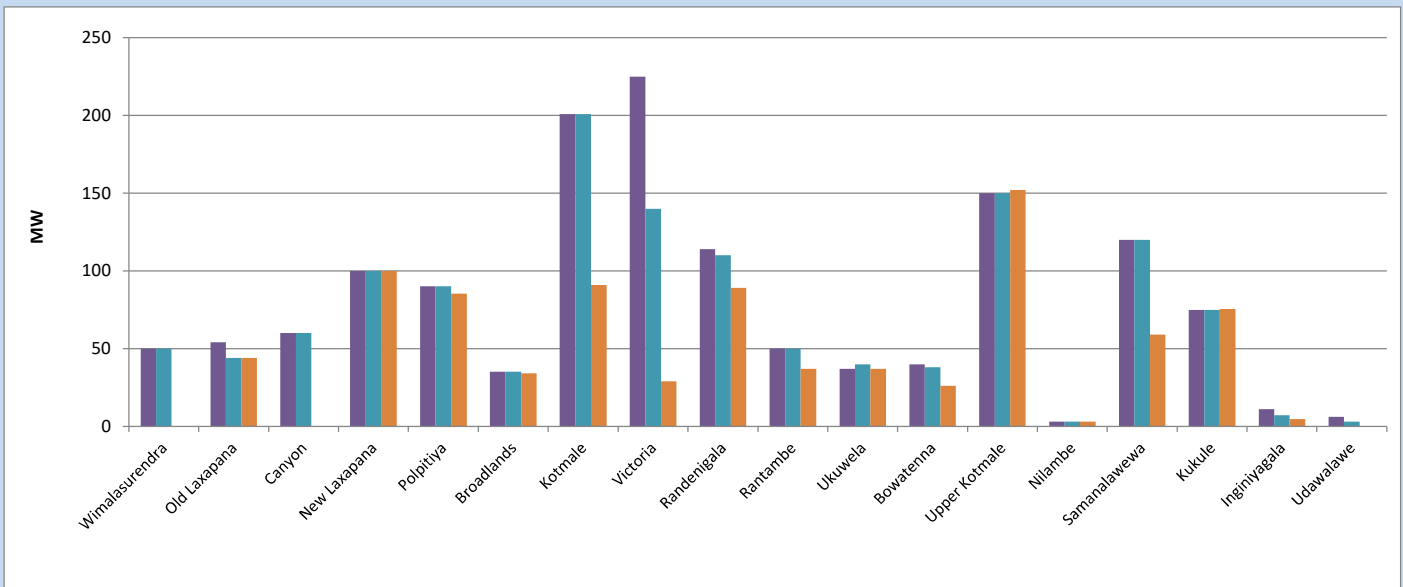


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 6, 2023

8. Major Hydro Plant Loading at Night Peak

July 5, 2023



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

July 6, 2023

9. Summary of Major Plant performance

Table 04

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	0	0
Old Laxapana	54	44	44	1,060
Canyon	60	60	0	0
New Laxapana	100	100	100	1,850
Polpitiya	90	90	85	1,954
Broadlands	35	35	34	715
Kotmale	201	201	91	500
Victoria	225	140	29	640
Randenigala	114	110	89	988
Rantambe	50	50	37	464
Ukuwela	37	40	37	716
Bowatenna	40	38	26	215
Upper Kotmale	150	150	152	3,618
Nilambe	3	3	3	44
Samanalawewa	120	120	59	450
Kukule	75	75	76	1,801
Inginiyagala	11	7	5	108
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	5,720
Puttalam Coal III	270	202	202	4,853
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	158	0	0
Sapugaskanda A	70	32	34	498
Sapugaskanda B	70	63	54	1,003
Uthura Janani	26	24	23	246
Barge CEB	60	60	60	744
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	142	1,972
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,696	1,907	37,314

Plant availability is the availability recorded at 6 am on

July 6, 2023

10. Contribution to the Night Peak in MW

July 5, 2023

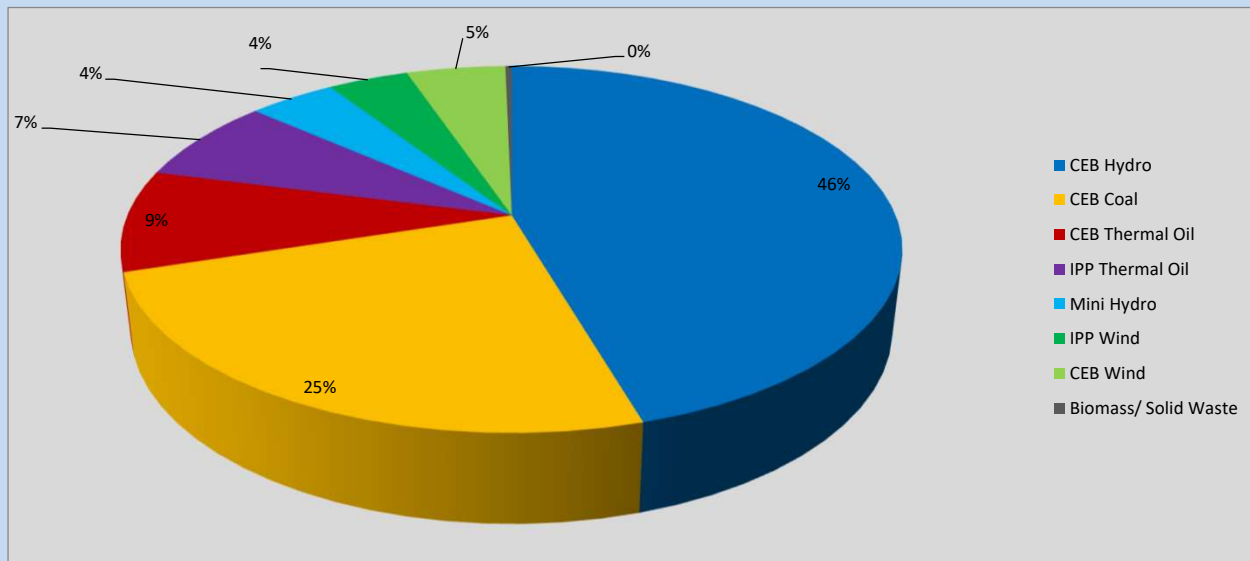


Table 05

CEB Hydro	868 MW
CEB Coal	470 MW
CEB Thermal Oil	171 MW
IPP Thermal Oil	142 MW
Mini Hydro (Telemetered)	82 MW
IPP Wind	76.2 MW
CEB Wind	93.4 MW
Biomass/ Solid Waste	6 MW

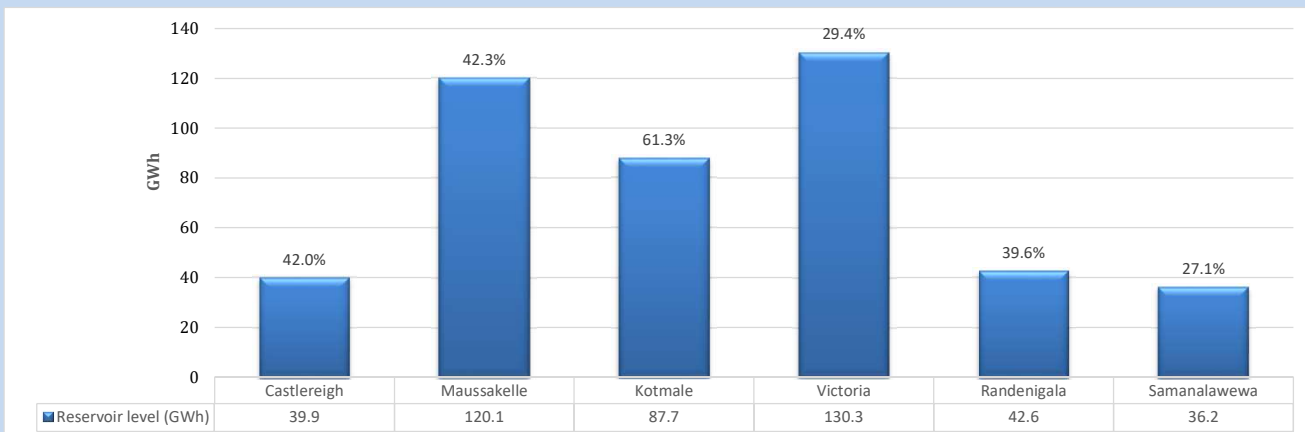
Recorded Peak Demand Data

Night Peak*	1,908 MW
Day Peak Maximum Demand	1,724 MW
Day Peak Minimum Demand	1,463 MW
Off Peak Minimum Demand	1,040 MW

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

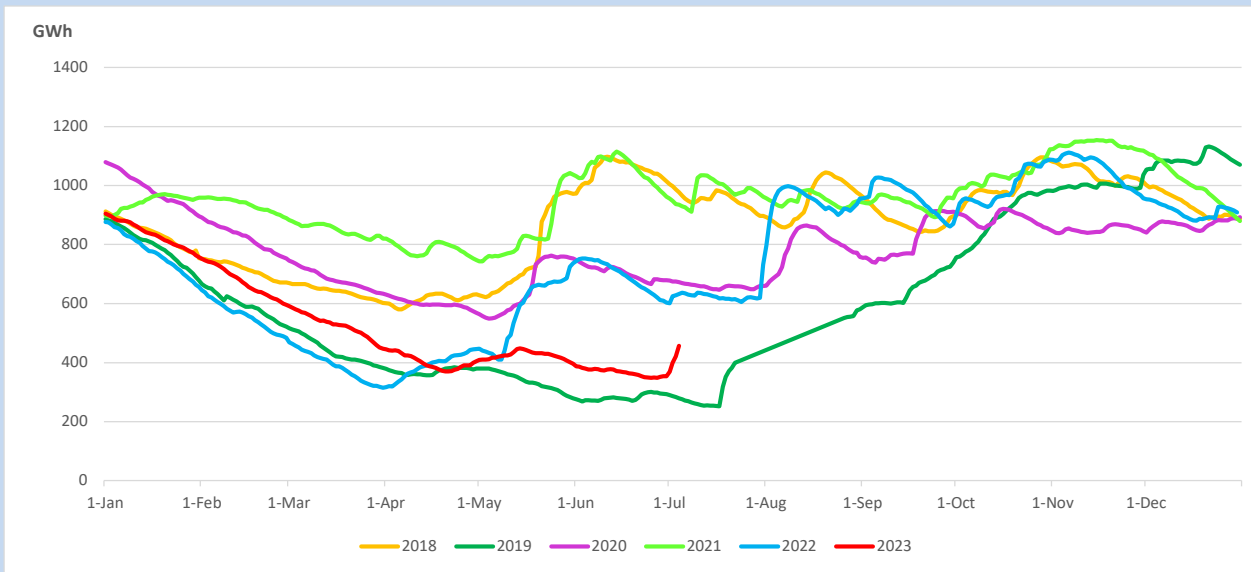
Reservoir Levels -

as at 06.00 Hr on July 6, 2023

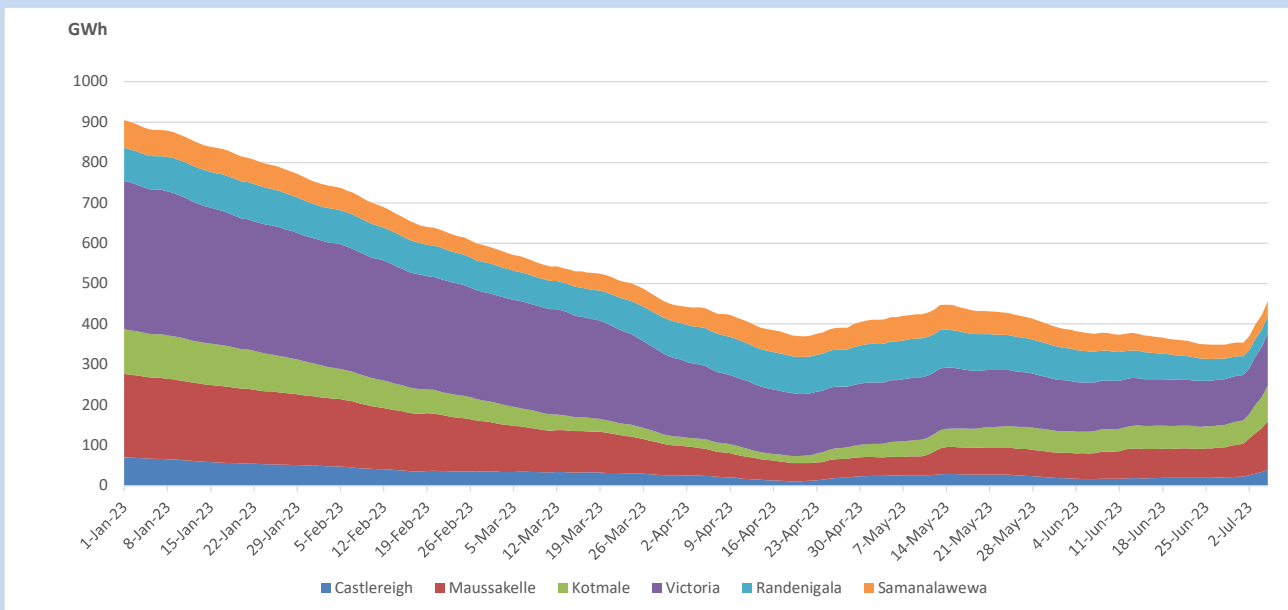


Total Reservoir Level	456.8 GWh
% of Total capacity	37.9%

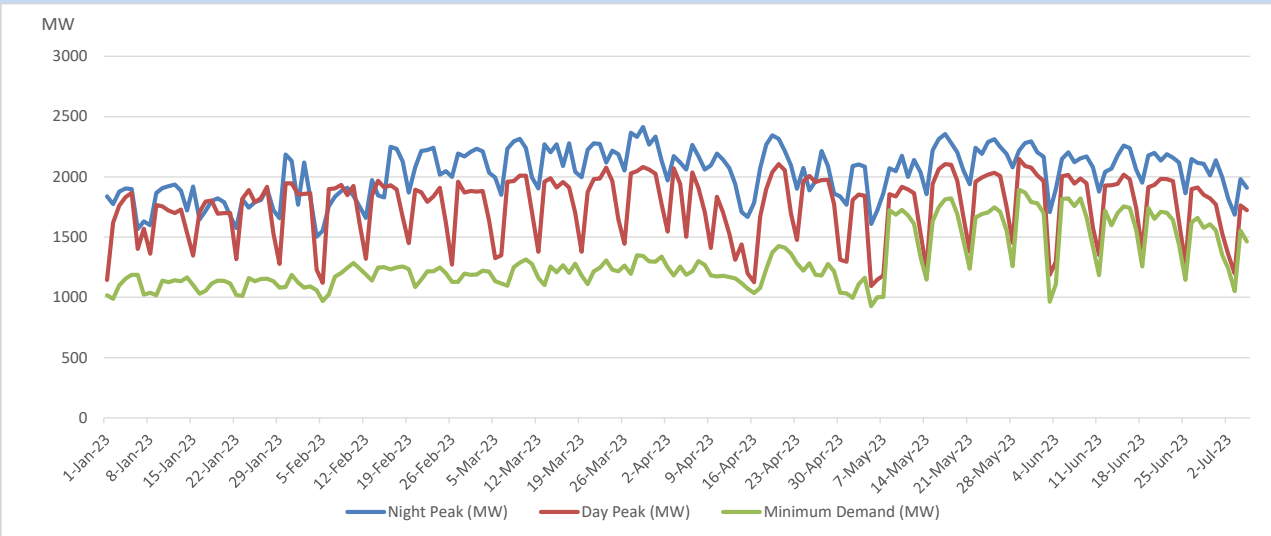
11. Comparison of Total Reservoir Storage Levels with Past Years



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



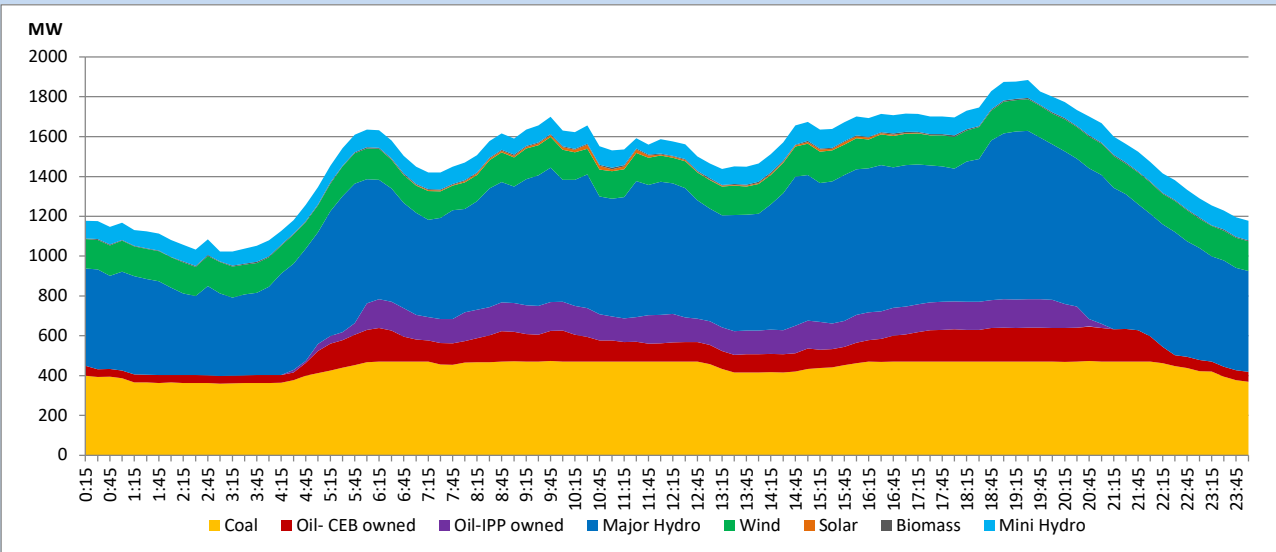
13. Variation of Demand during the current year



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

14. Daily Load Curve

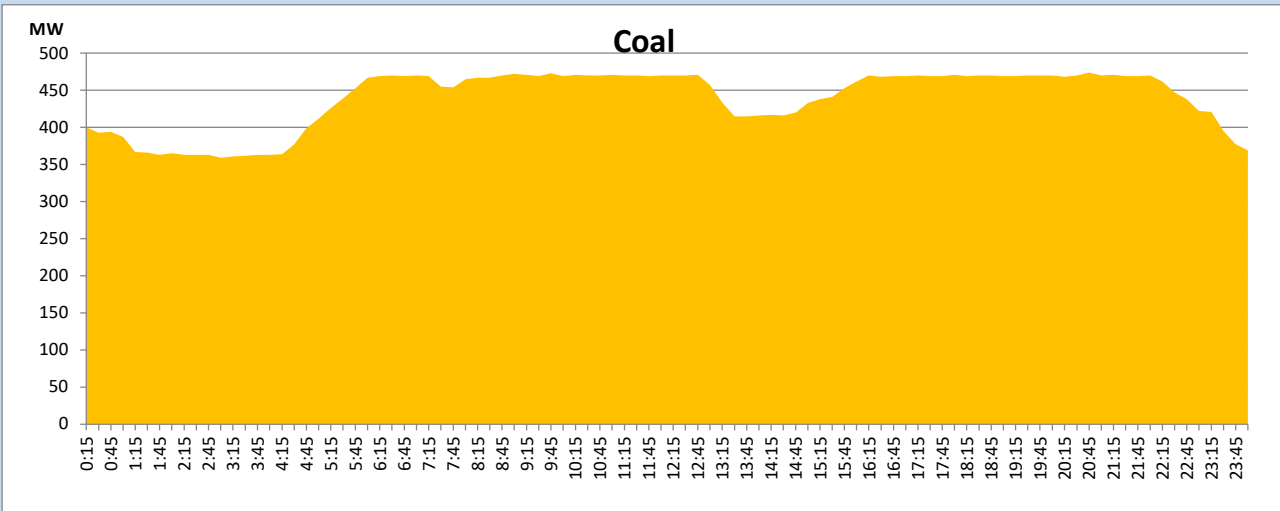
July 5, 2023



Solar and wind data is based on Telemetered Power Stations only

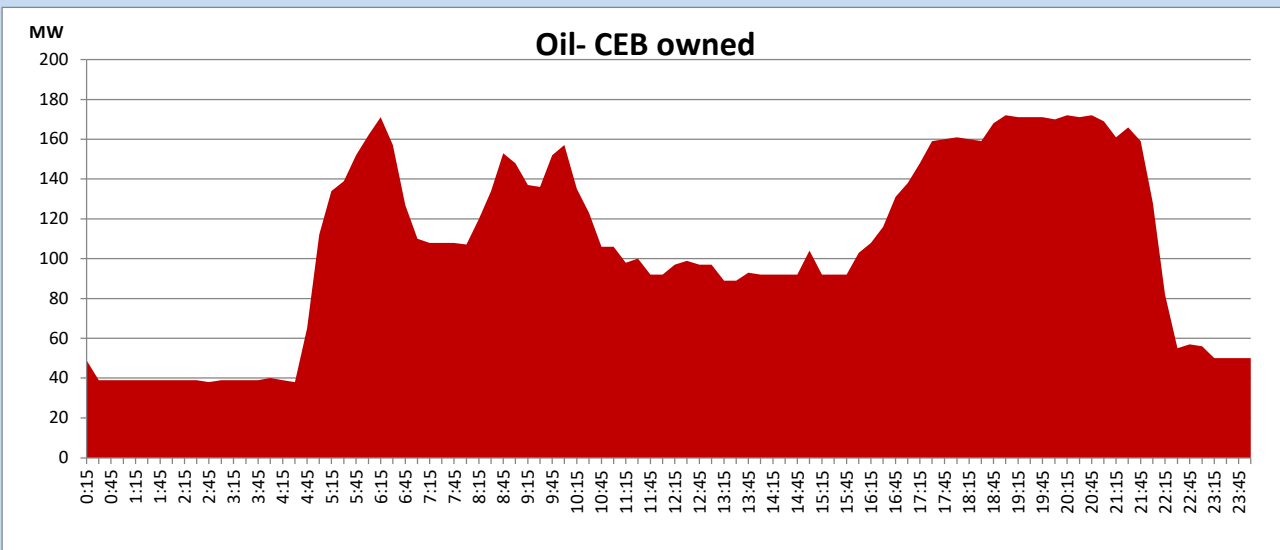
Coal Generation during

July 5, 2023



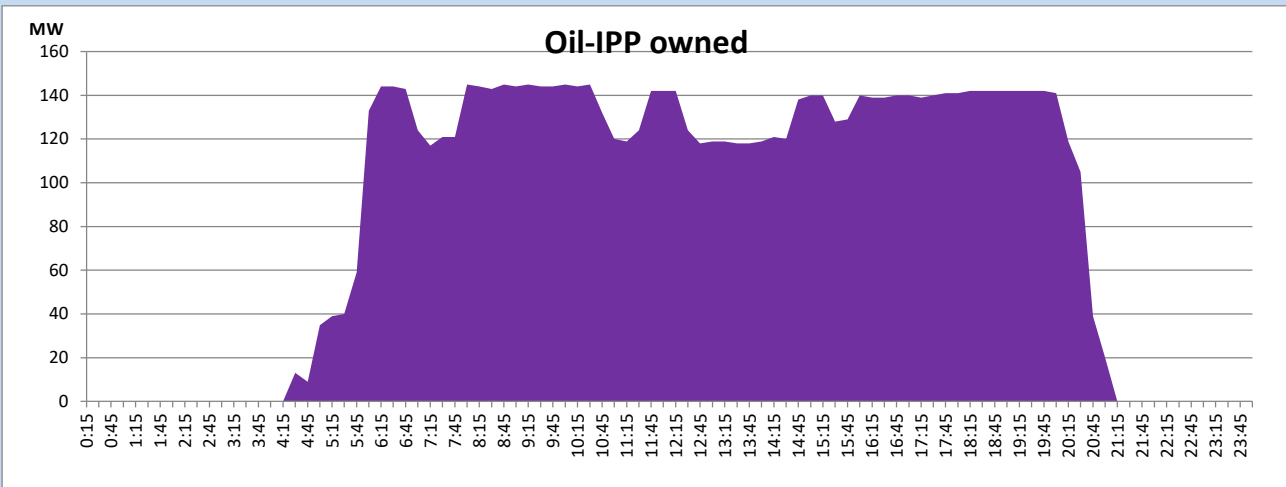
CEB Oil Plant Generation during

July 5, 2023



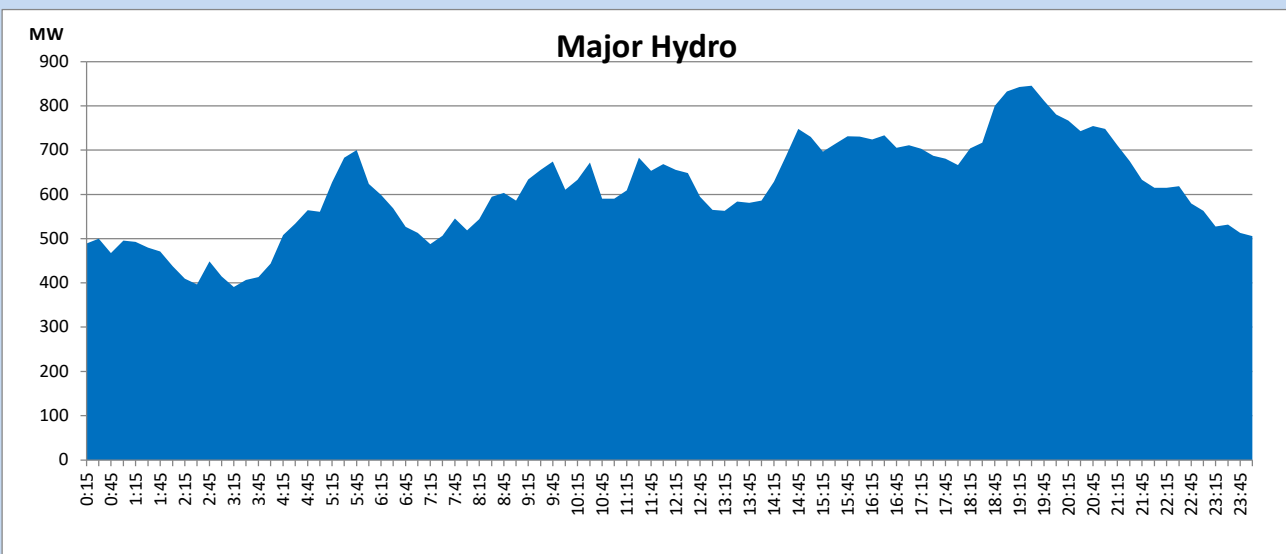
IPP Oil Plant Generation during

July 5, 2023



Major Hydro Generation during

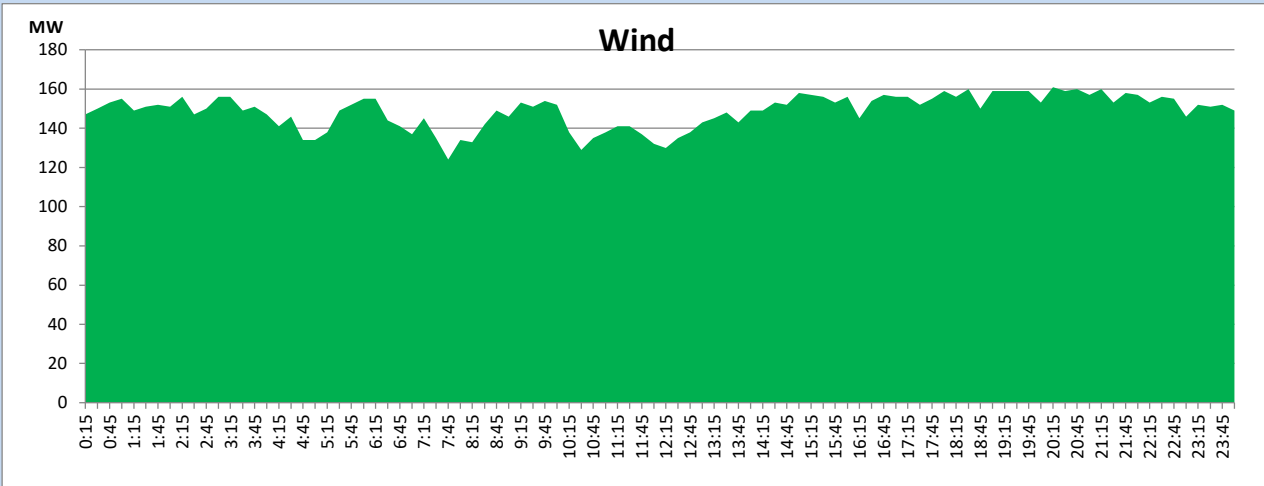
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Wind Generation during

July 5, 2023

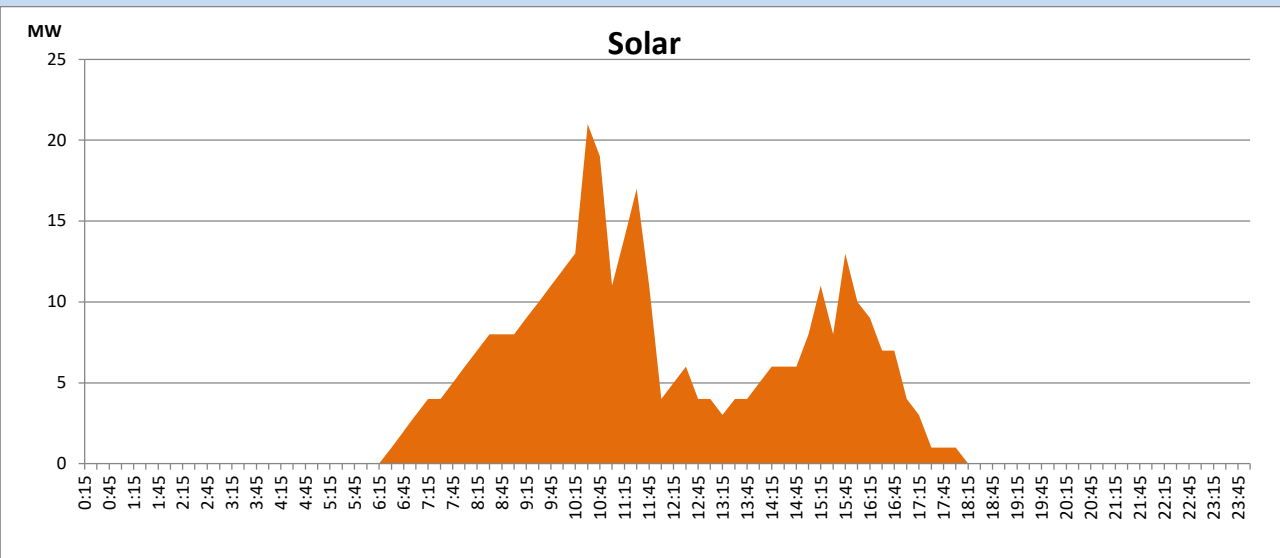
Based on Telemetered Power Stations only



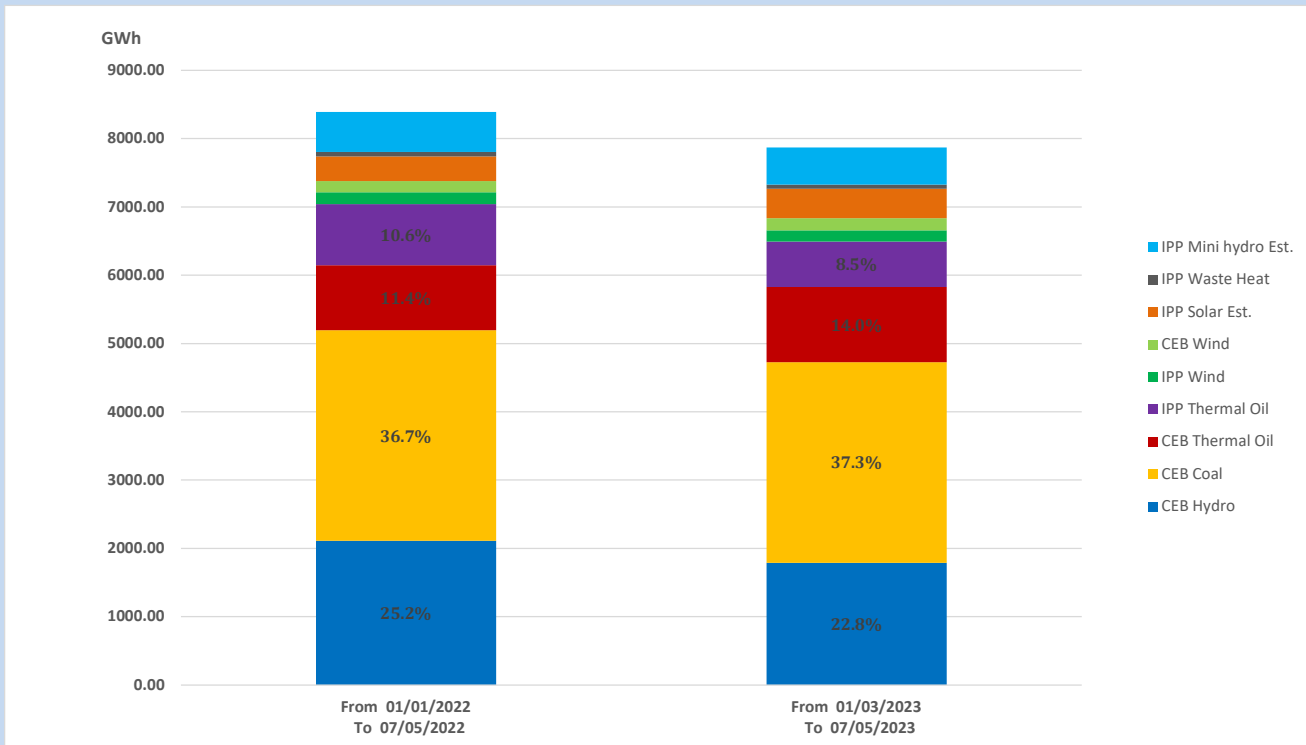
Solar Generation during

July 5, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 07/05/2022

8391 GWh

From 01/01/2023 To 07/05/2023

7872 GWh

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

Thermal Plant Fuel types

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

Major Incidents reported during the day

July 5, 2023

1) Badulla - Nuwara Eliya - O'Laxapana 132kV cct 01 tripped from all ends and Badulla - Nuwara Eliya - O'Laxapana 132kV cct 02 tripped only from Nuwara Eliya end at 11:33hrs due to the operation of distance protection causing Nuwara Eliya GSS to be dead. At the same time, Badulla 132kV B/C also tripped. Badulla - Nuwara Eliya - O'Laxapana 132kV cct 02 was normalized at 11:50hrs. Nuwara Eliya GSS and all affected feeders were normalized by 11:56hrs. Badulla 132kV B/C and Badulla - Nuwara Eliya - O'Laxapana 132kV cct 01 were normalized at 11:50hrs and 12:16hrs respectively.

2) Upper Kotmale pond spilling started at 09:28hrs and continues to the present hour. Laxapana and Norton pond spilling started at 12:50hrs & 12:53hrs and stopped at 23:25hrs & 05:19hrs(06.07.23) respectively.

3) Kelanitissa 132/33kV T/F 02 tripped at 11:55hrs due to the operation of E/F protection. The T/F was normalized at 16:48hrs.

4) Kukule pond spilling continues to the present hour.