

Generation and Reservoirs Statistics

July 7, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

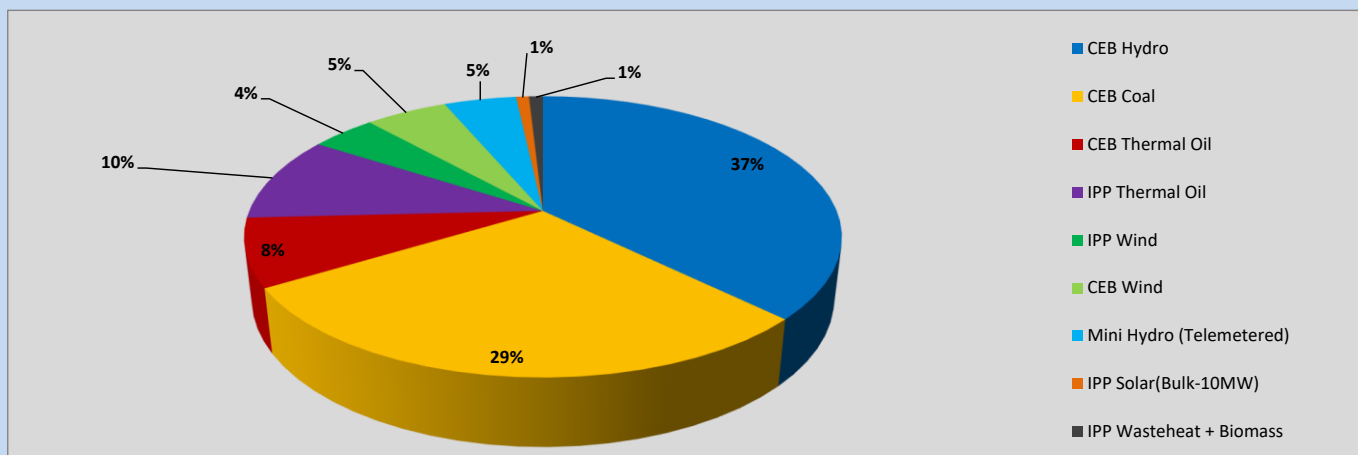


Table 01

CEB Hydro	14,005	MWh
CEB Coal	10,949	MWh
CEB Thermal Oil	2,949	MWh
IPP Thermal Oil	3,699	MWh
IPP Wind	1,582	MWh
CEB Wind	2,000	MWh
Mini Hydro (Telemetered)	1,760	MWh
IPP Solar (Bulk)	313	MWh
IPP Wasteheat + Biomass	338	MWh
Total Generation (Excluding estimated figures)	37,595	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	1750	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	41,299	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

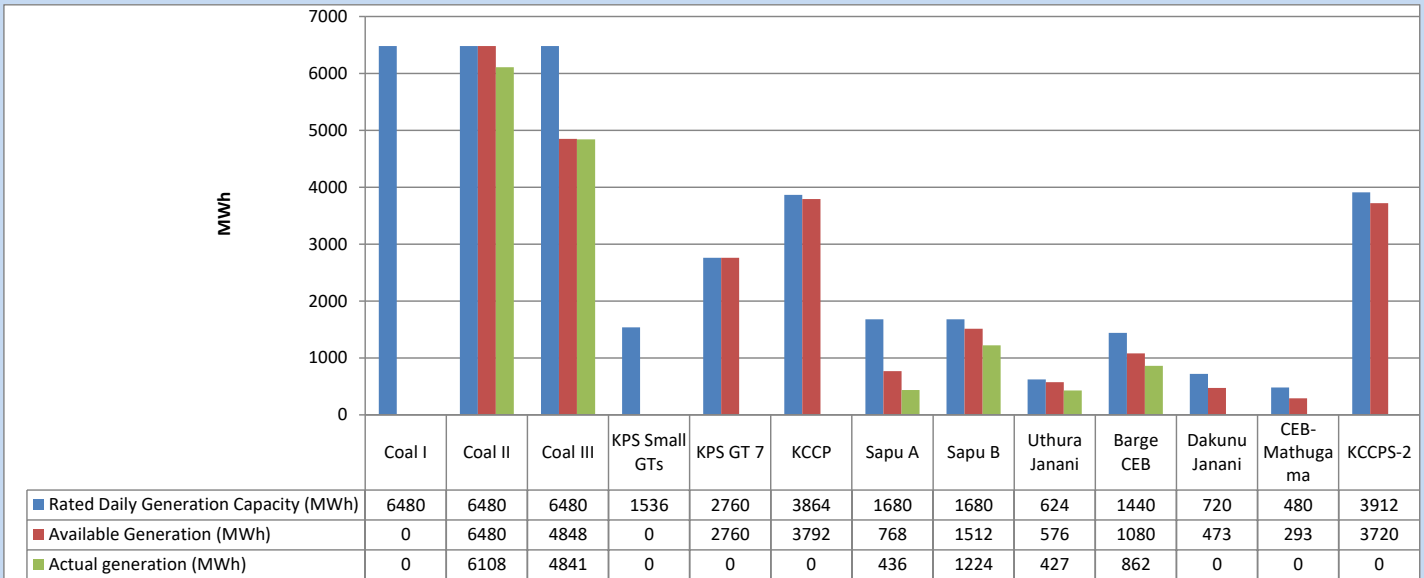
Category	Dispatch (GWh)	
CEB Hydro	87	34.79%
CEB Coal	75	29.95%
CEB Thermal Oil	26	10.40%
IPP Thermal	19	7.68%
SPP Wind	14	5.64%
CEB Wind	12	4.97%
Mini Hydro (Telemetered)	12	4.97%
IPP Solar (Bulk-10MW)	2	0.71%
IPP Wasteheat + BMP	2	0.89%
Total	250	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,825	25.34%
CEB Coal	2,958	41.06%
CEB Thermal Oil	1,110	15.40%
IPP Thermal	673	9.35%
SPP Wind	165	2.30%
CEB Wind	177	2.45%
Mini Hydro (Telemetered)	178	2.48%
IPP Solar (Bulk-10MW)	55	0.76%
IPP Wasteheat	62	0.86%
Total	7,203	

3. CEB owned Thermal Plant Dispatch

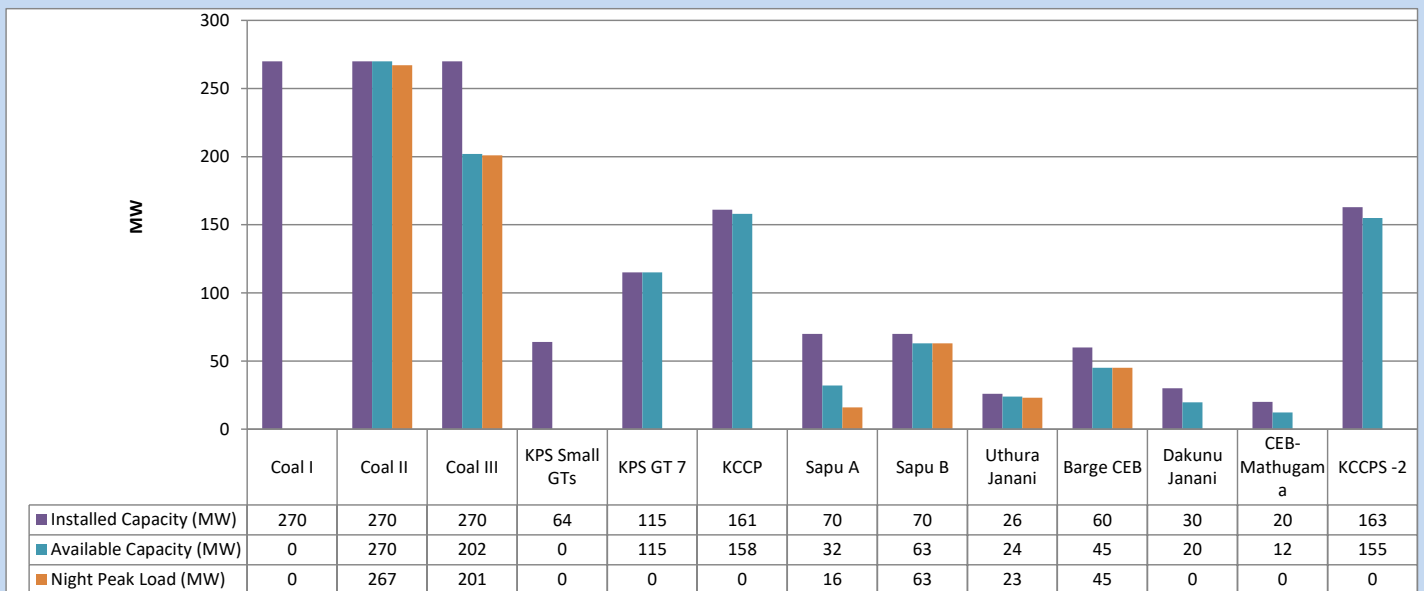
July 7, 2023



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

July 8, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

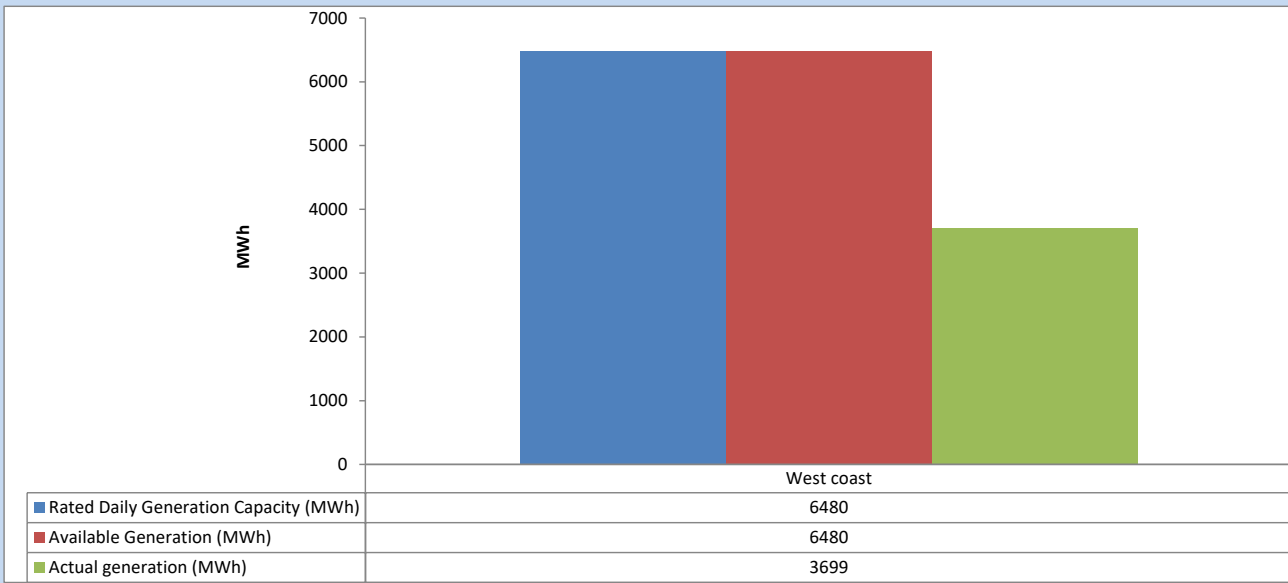


Plant availability is recorded at 6.00 am on

July 8, 2023

5. IPP owned Thermal Plant Dispatch

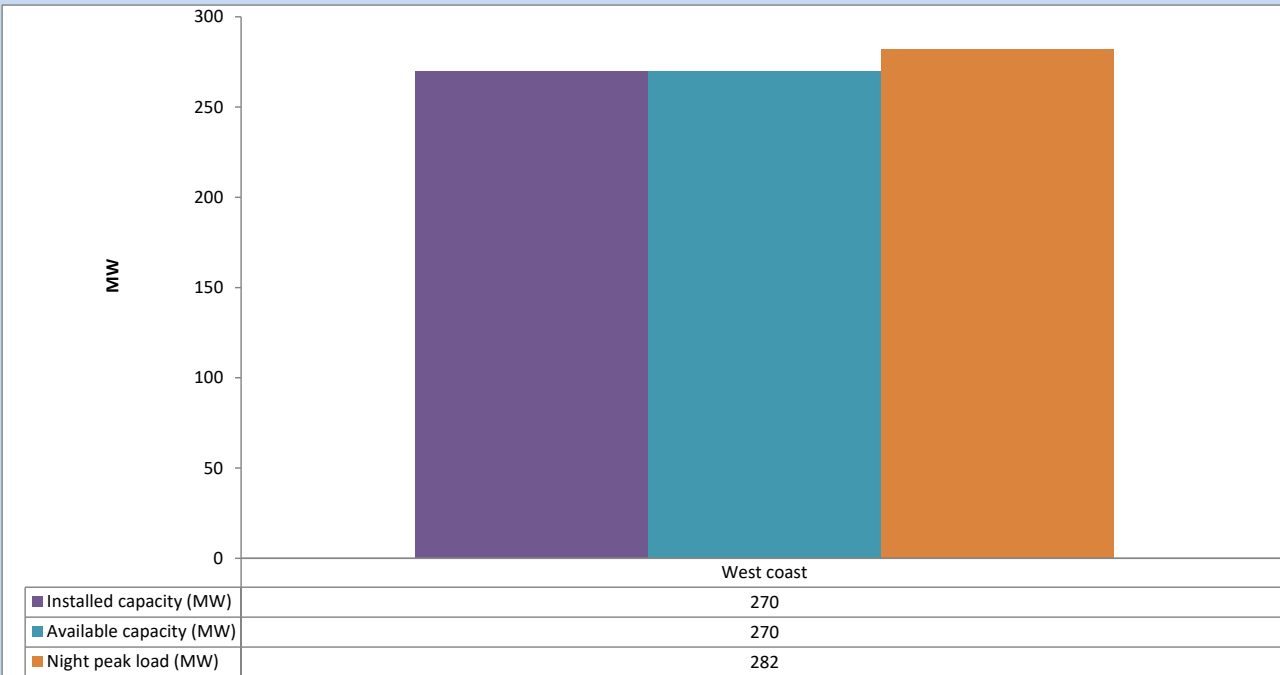
July 7, 2023



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

July 8, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

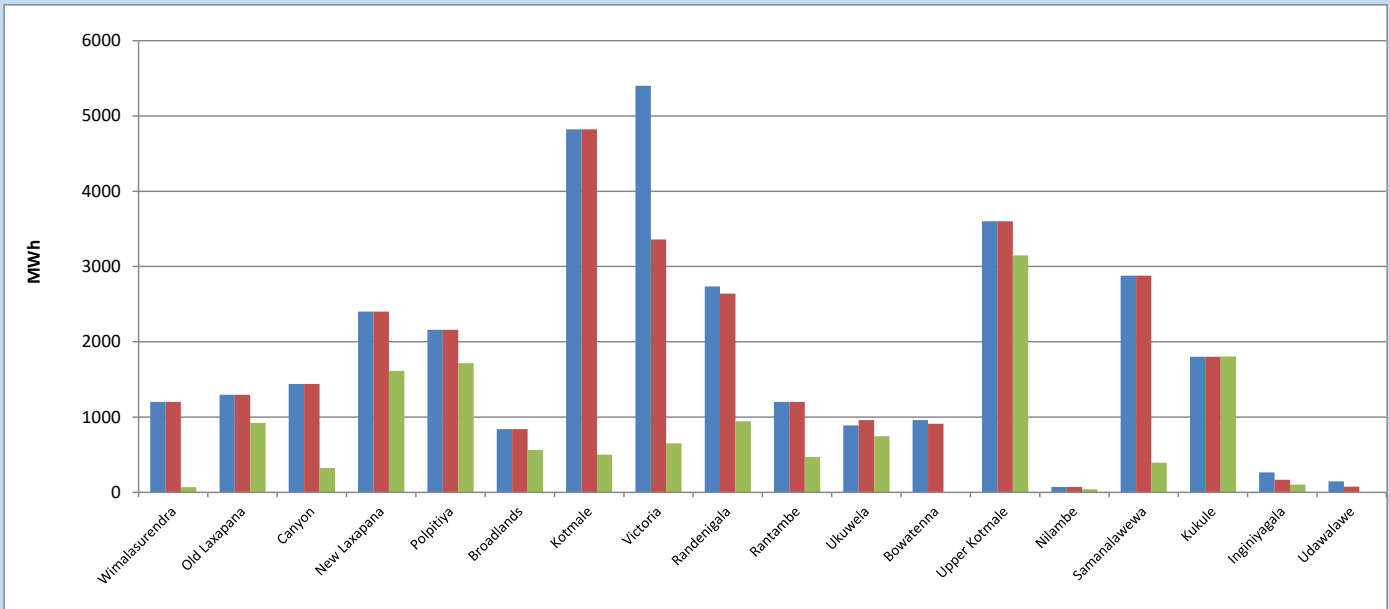


Plant availability is recorded at 6.00 am on

July 8, 2023

7. Major Hydro Plant Dispatch

July 7, 2023

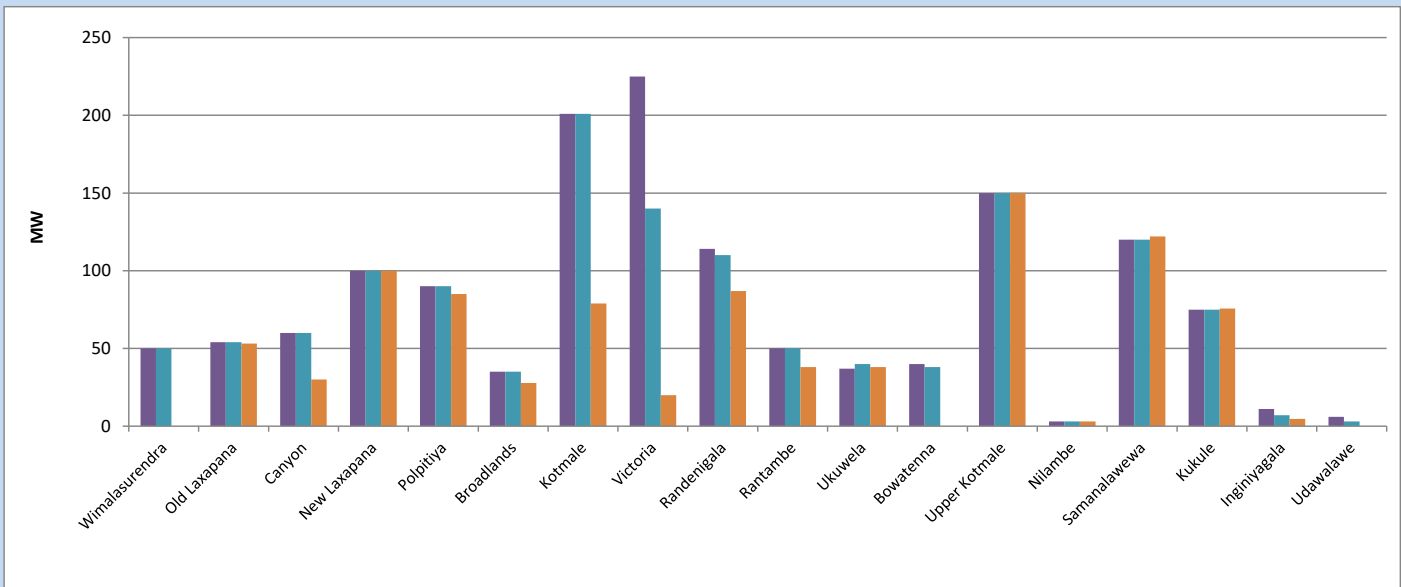


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 8, 2023

8. Major Hydro Plant Loading at Night Peak

July 7, 2023



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

July 8, 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	68
Old Laxapana	54	54	53	923
Canyon	60	60	30	322
New Laxapana	100	100	100	1,616
Polpitiya	90	90	85	1,715
Broadlands	35	35	28	561
Kotmale	201	201	79	500
Victoria	225	140	20	652
Randenigala	114	110	87	943
Rantambe	50	50	38	469
Ukuwela	37	40	38	746
Bowatenna	40	38	0	0
Upper Kotmale	150	150	150	3,148
Nilambe	3	3	3	41
Samanalawewa	120	120	122	393
Kukule	75	75	76	1,805
Inginiyagala	11	7	5	103
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	267	6,108
Puttalam Coal III	270	202	201	4,841
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	158	0	0
Sapugaskanda A	70	32	16	436
Sapugaskanda B	70	63	63	1,224
Uthura Janani	26	24	23	427
Barge CEB	60	45	45	862
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	282	3,699
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,692	2,039	37,595

Plant availability is the availability recorded at 6 am on

July 8, 2023

10. Contribution to the Night Peak in MW

July 7, 2023

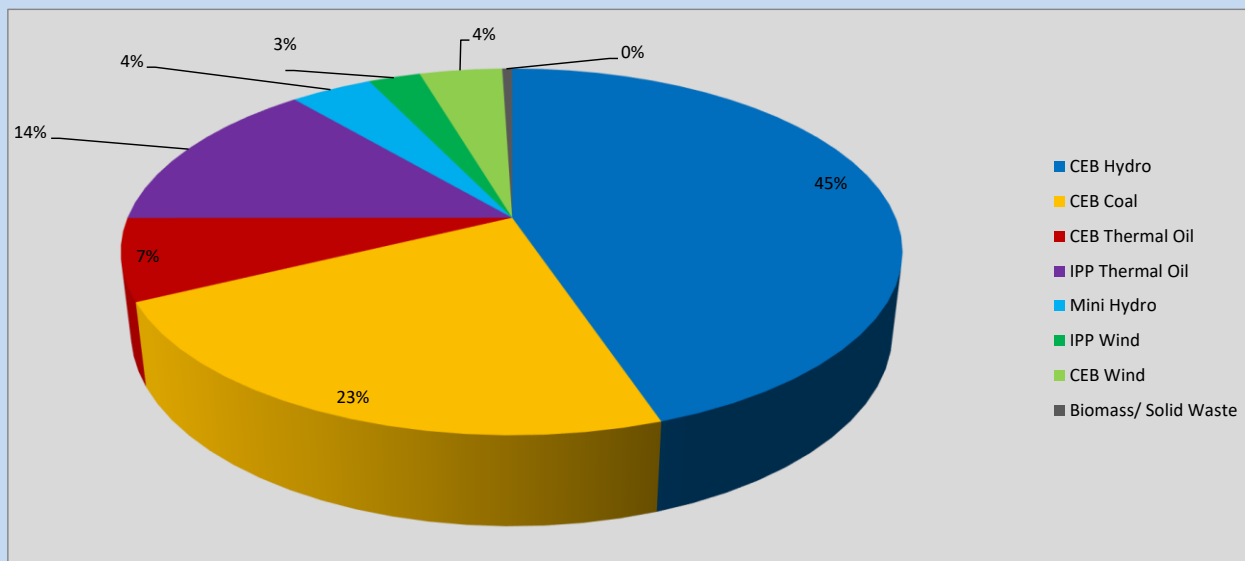


Table 05

CEB Hydro	914 MW
CEB Coal	468 MW
CEB Thermal Oil	147 MW
IPP Thermal Oil	282 MW
Mini Hydro (Telemetered)	82 MW
IPP Wind	52.5 MW
CEB Wind	83.4 MW
Biomass/ Solid Waste	10 MW

Recorded Peak Demand Data

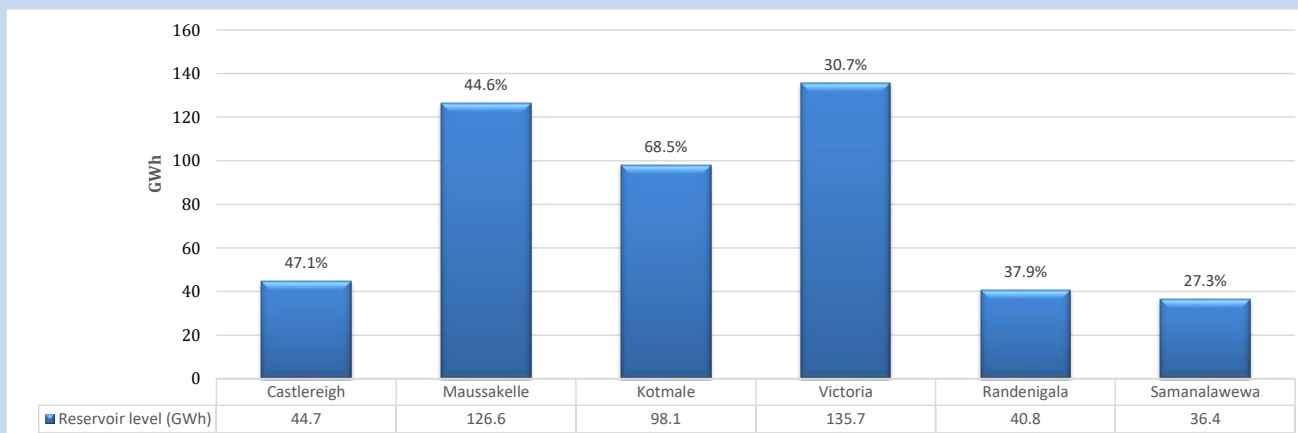
Table 06

Night Peak*	2,040 MW
Day Peak Maximum Demand	1,757 MW
Day Peak Minimum Demand	1,519 MW
Off Peak Minimum Demand	1,120 MW

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

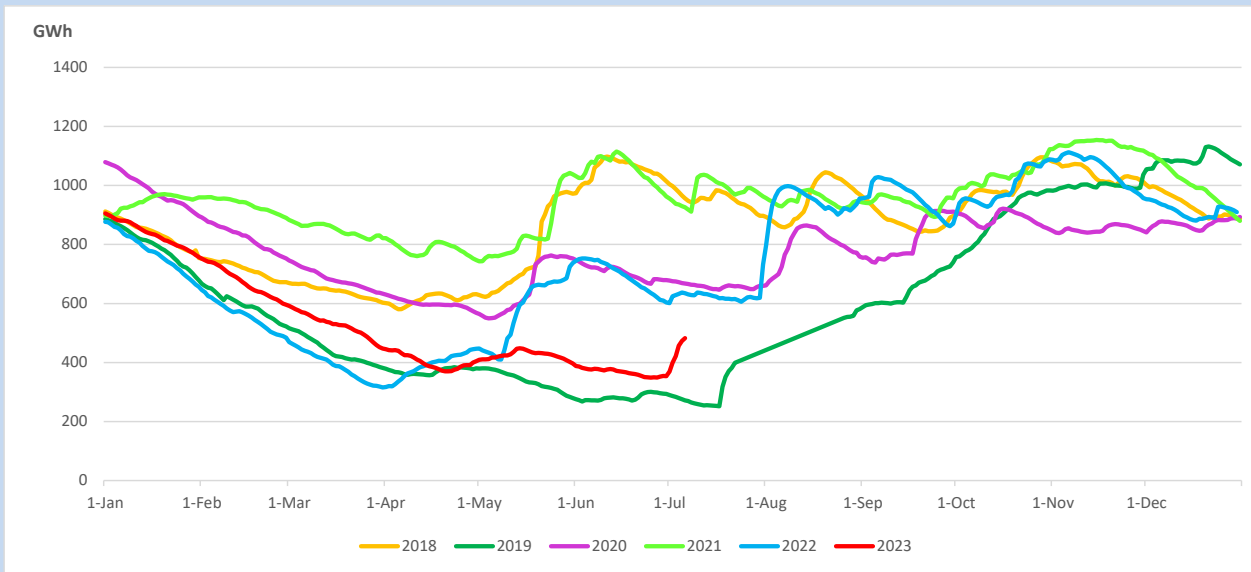
Reservoir Levels -

as at 06.00 Hr on July 8, 2023

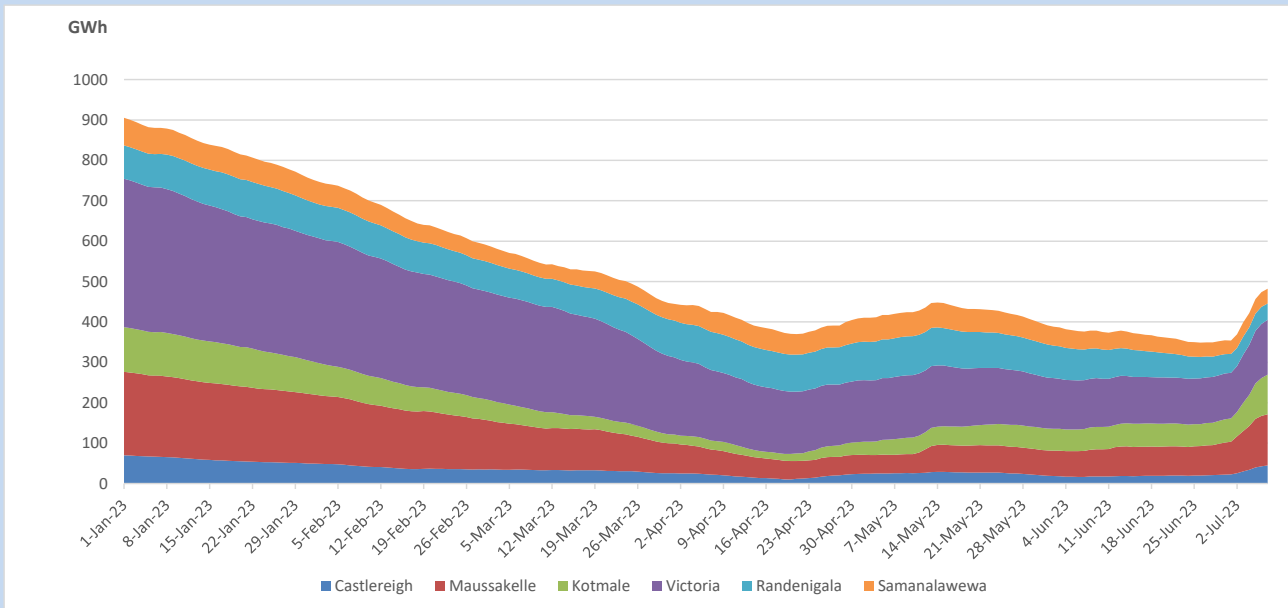


Total Reservoir Level 482.3 GWh
 % of Total capacity 40.0%

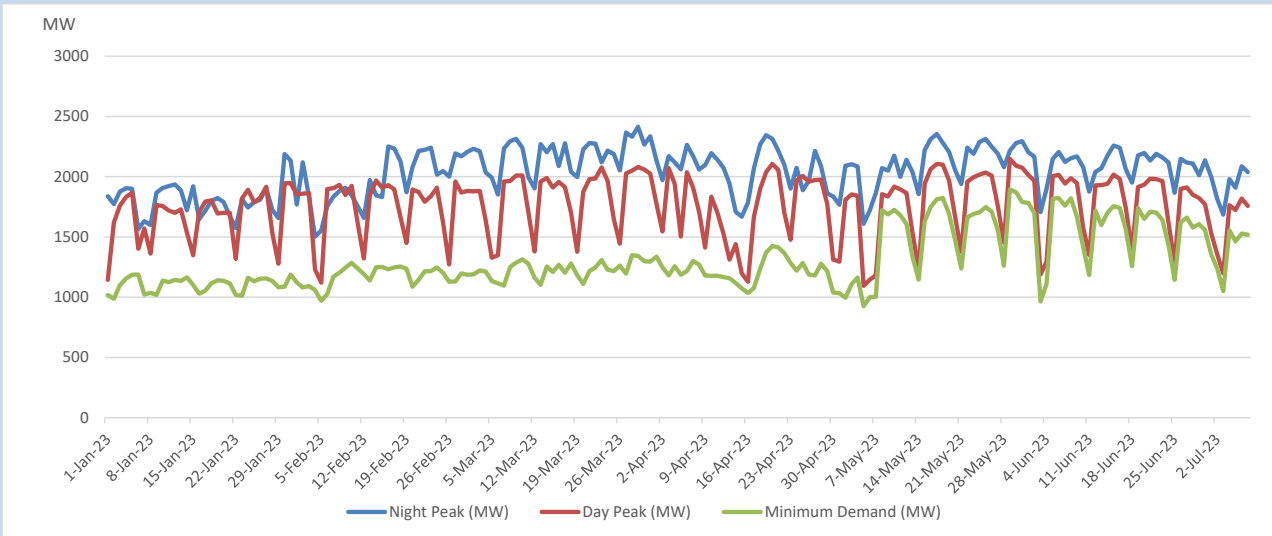
11. Comparison of Total Reservoir Storage Levels with Past Years



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



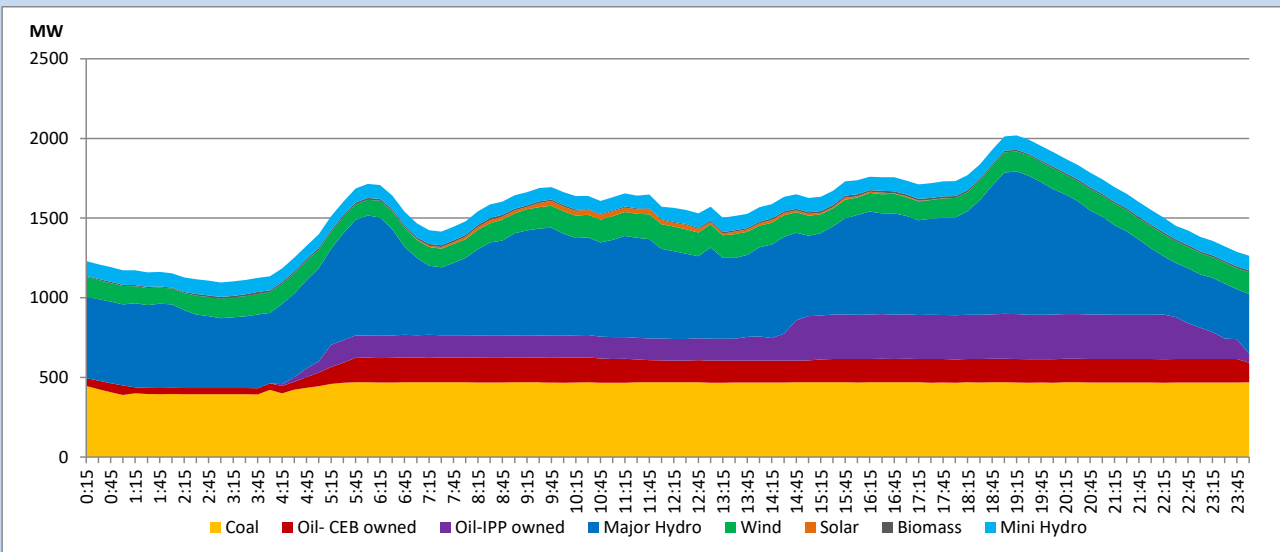
13. Variation of Demand during the current year



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

14. Daily Load Curve

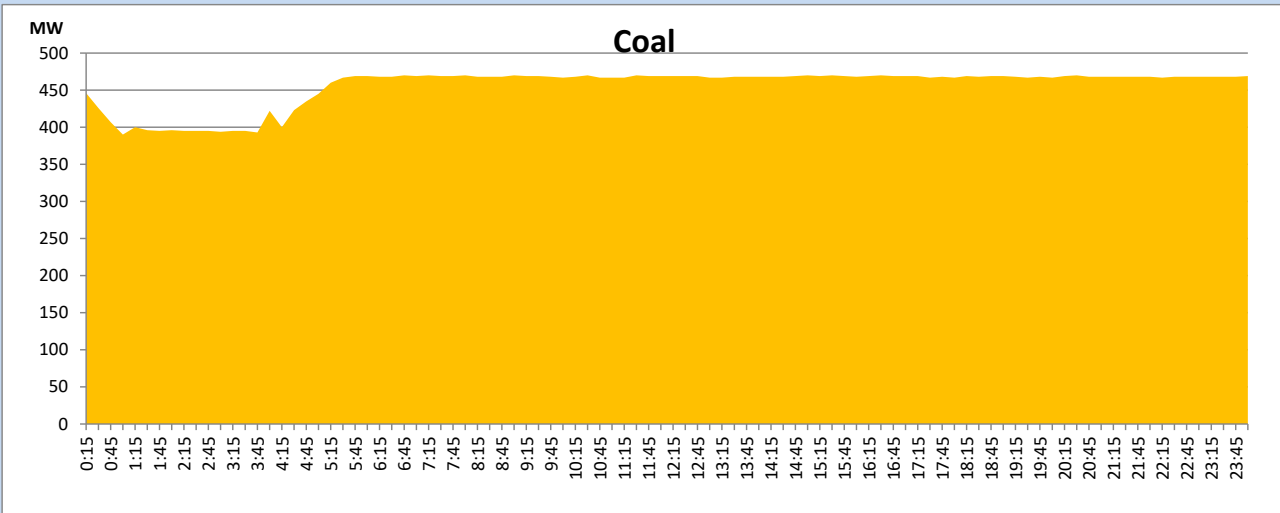
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Solar and wind data is based on Telemetered Power Stations only

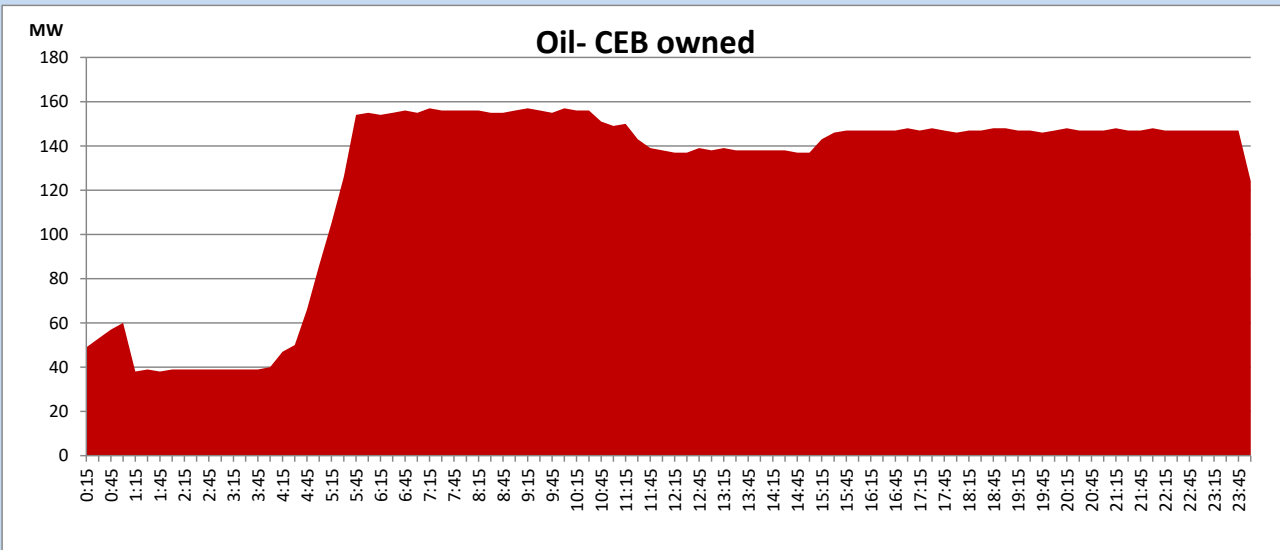
Coal Generation during

July 7, 2023



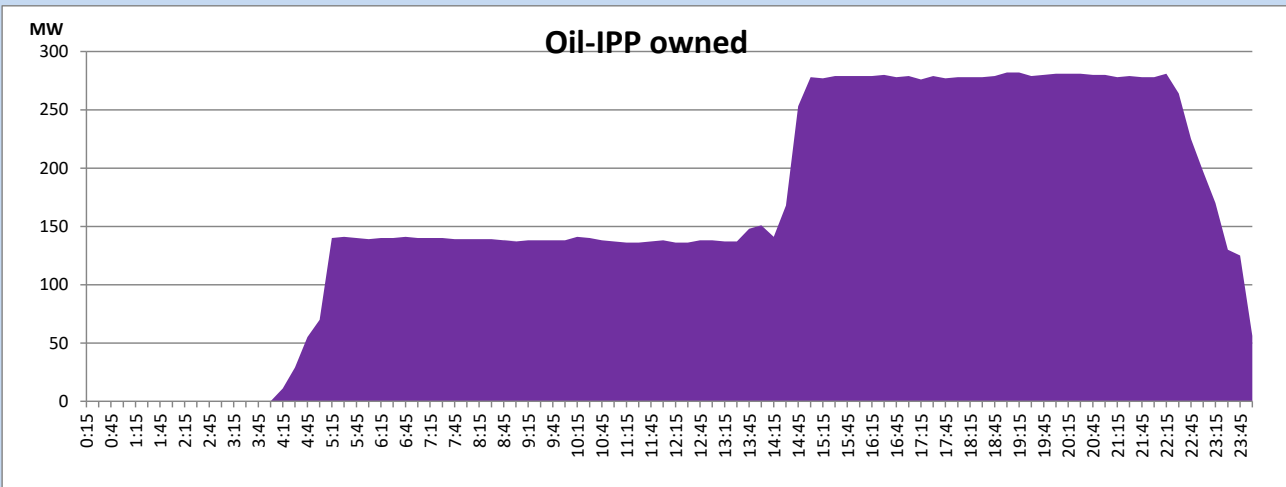
CEB Oil Plant Generation during

July 7, 2023



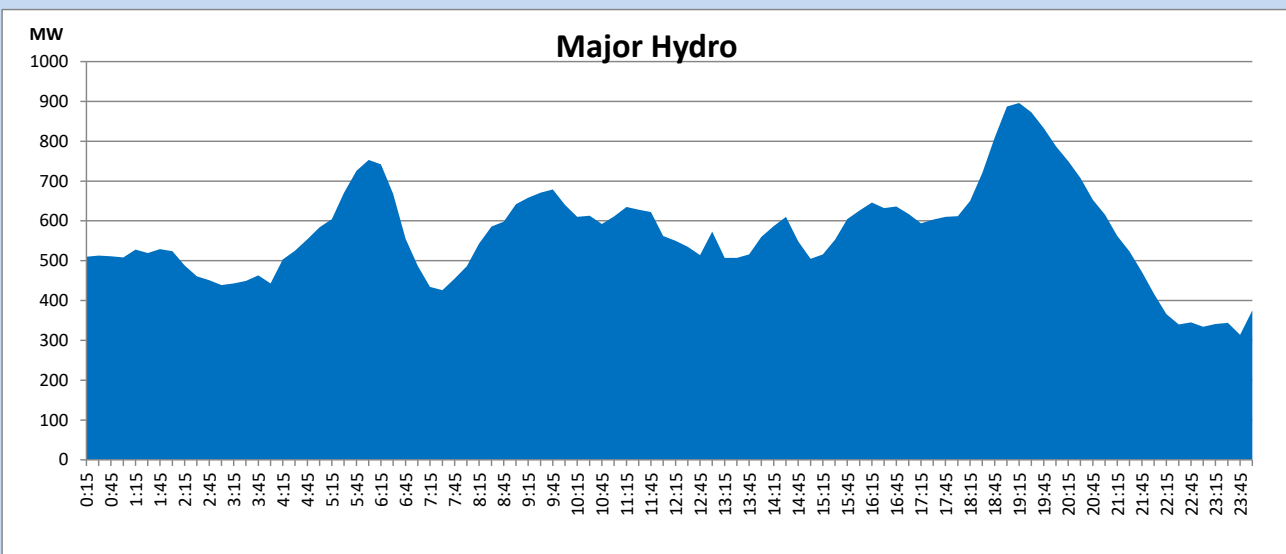
IPP Oil Plant Generation during

July 7, 2023



Major Hydro Generation during

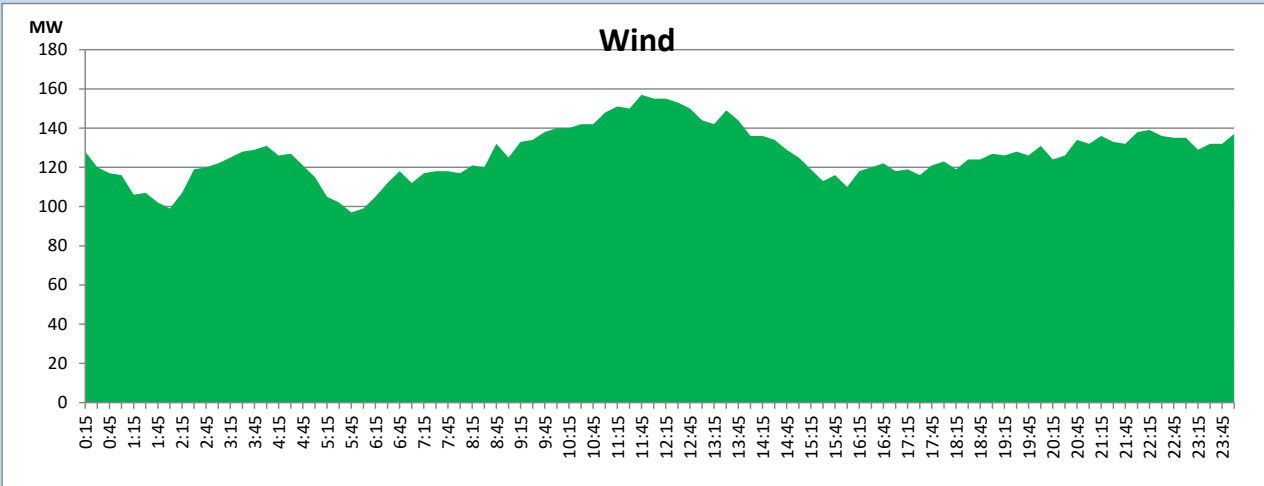
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Wind Generation during

July 7, 2023

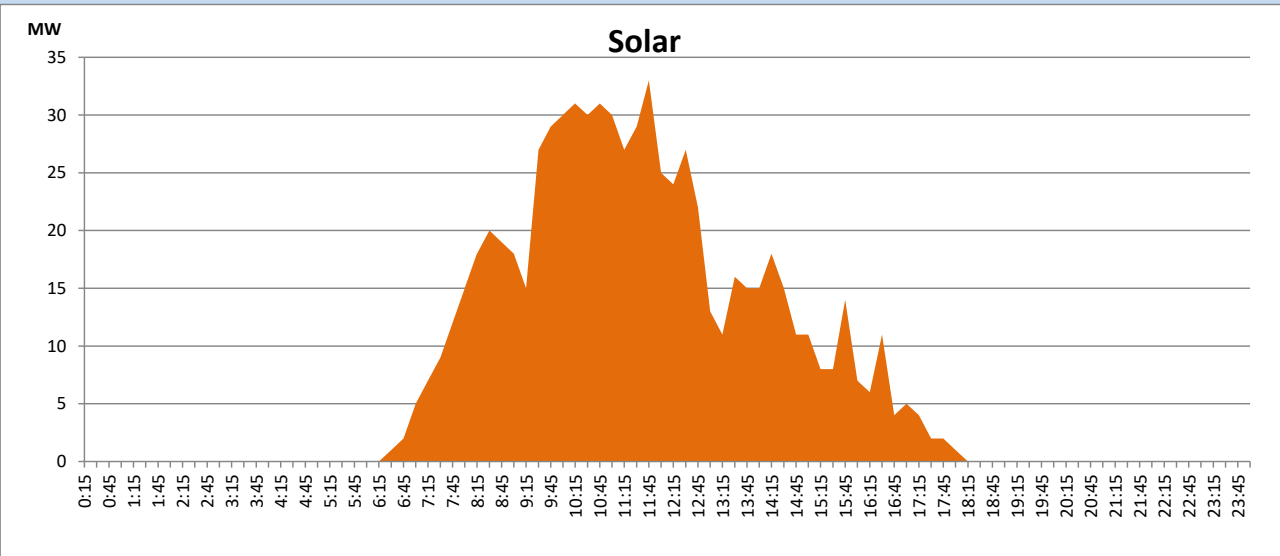
Based on Telemetered Power Stations only



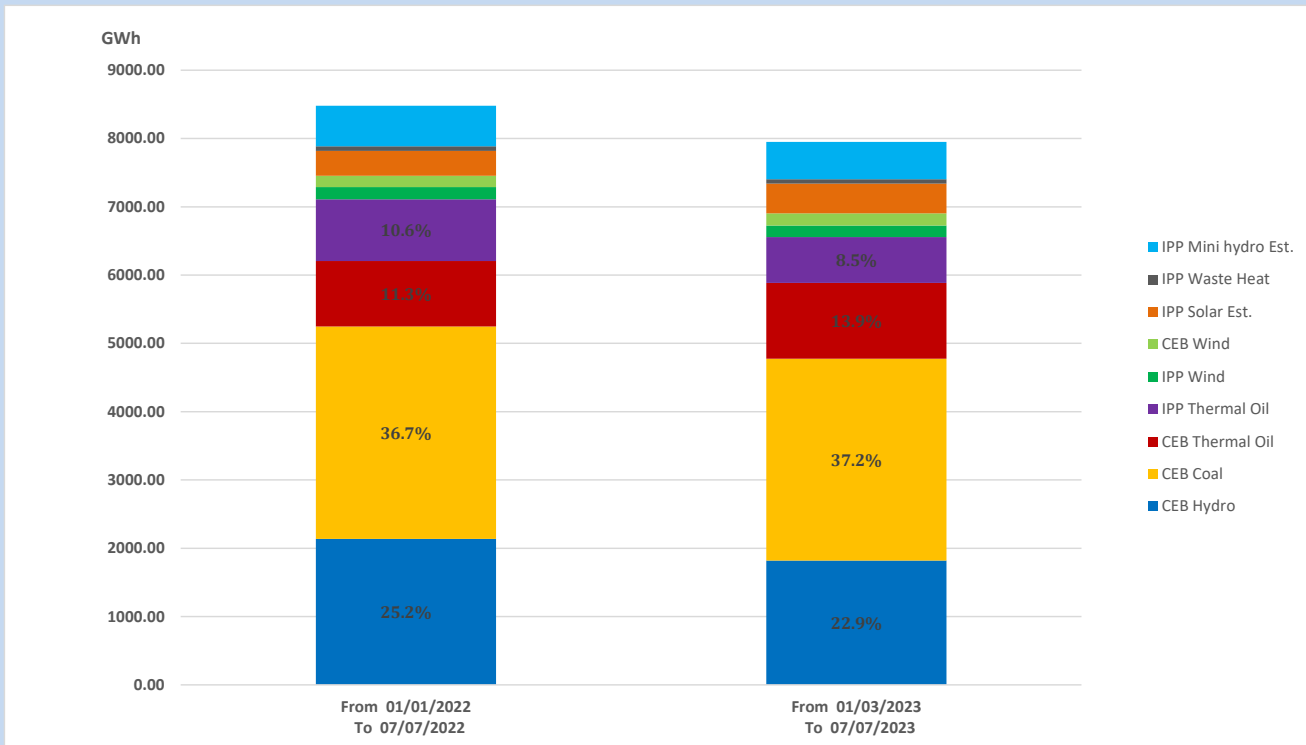
Solar Generation during

July 7, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

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

8480 GWh

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

7956 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 7, 2023

- 1) Old Laxapana Unit 02 made a forced shutdown at 10:11hrs due to an oil cooler failure. Old Laxapana unit 02 resumed generation at 16:13hrs.
- 2) Randenigala Unit 01 tripped at 14:26hrs due to the lower guide bearing oil level low alarm. Randenigala Unit 01 made available at 15:01hrs.