Generation and Reservoirs Statistics

July 9, 2023

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

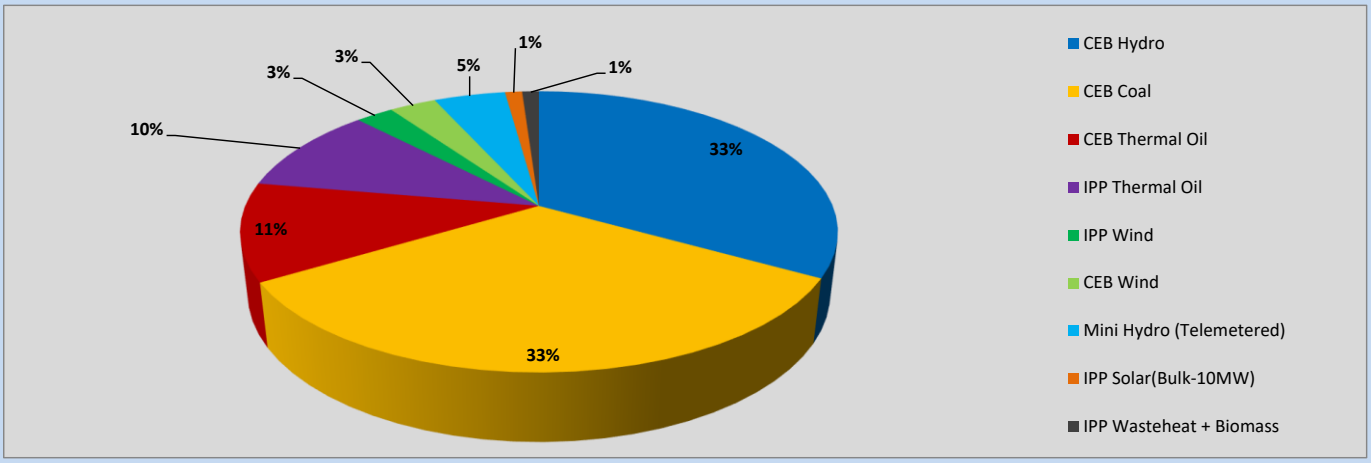


Table 01

CEB Hydro	10,838	MWh
CEB Coal	10,938	MWh
CEB Thermal Oil	3,686	MWh
IPP Thermal Oil	3,277	MWh
IPP Wind	801	MWh
CEB Wind	992	MWh
Mini Hydro (Telemetered)	1,516	MWh
IPP Solar (Bulk)	363	MWh
IPP Wasteheat + Biomass	355	MWh
Total Generation (Excluding estimated figures)	**32,766**	**MWh**
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	1994	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	**36,714**	**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

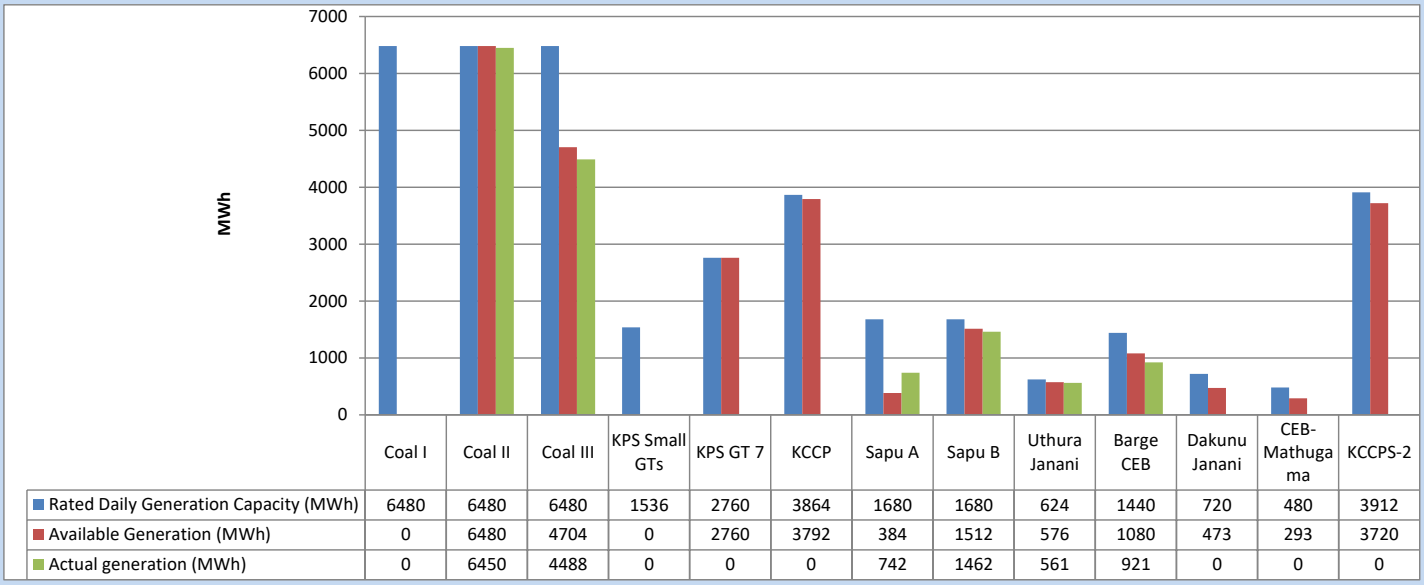
Category	Dispatch (GWh)	
CEB Hydro	110	34.62%
CEB Coal	97	30.53%
CEB Thermal Oil	33	10.48%
IPP Thermal	25	7.77%
SPP Wind	17	5.23%
CEB Wind	15	4.70%
Mini Hydro (Telemetered)	16	4.97%
IPP Solar(Bulk-10MW)	2	0.78%
IPP Wasteheat + BMP	3	0.92%
Total	**318**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,848	25.42%
CEB Coal	2,980	40.99%
CEB Thermal Oil	1,117	15.36%
IPP Thermal	679	9.33%
SPP Wind	168	2.31%
CEB Wind	179	2.46%
Mini Hydro (Telemetered)	182	2.50%
IPP Solar(Bulk-10MW)	56	0.76%
IPP Wasteheat	63	0.87%
Total	**7,271**	

3. CEB owned Thermal Plant Dispatch

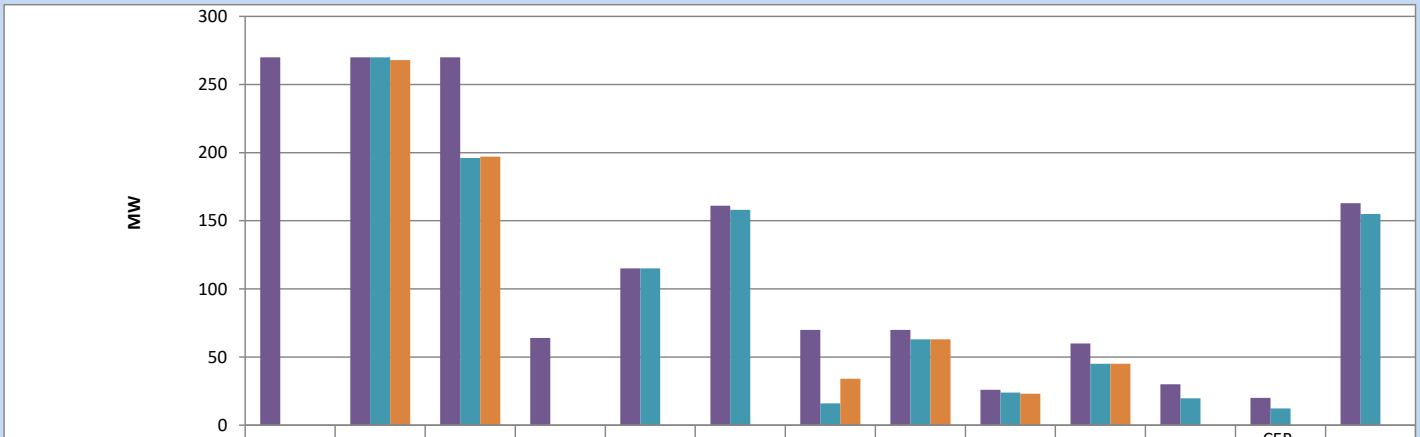
July 9, 2023



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	0	6480	4704	0	2760	3792	384	1512	576	1080	473	293	3720
Actual generation (MWh)	0	6450	4488	0	0	0	742	1462	561	921	0	0	0

Available Generation is estimated based on plant availability at 6.00am on July 10, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

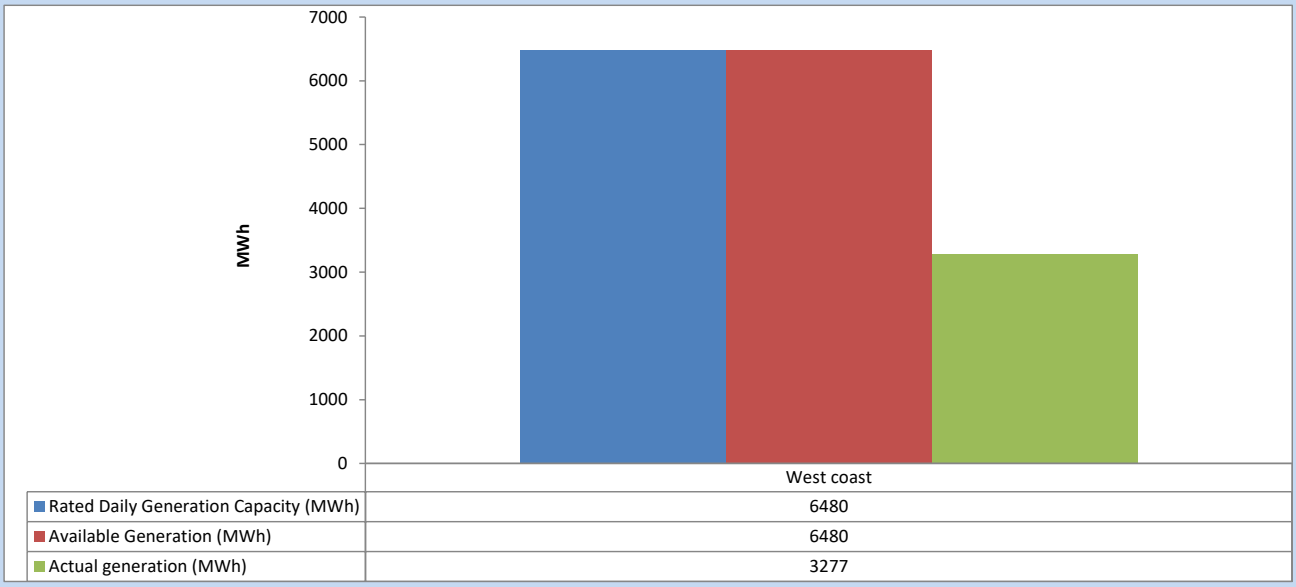


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	0	270	196	0	115	158	16	63	24	45	20	12	155
Night Peak Load (MW)	0	268	197	0	0	0	34	63	23	45	0	0	0

Plant avilability is recorded at 6.00 am on July 10, 2023

5. IPP owned Thermal Plant Dispatch

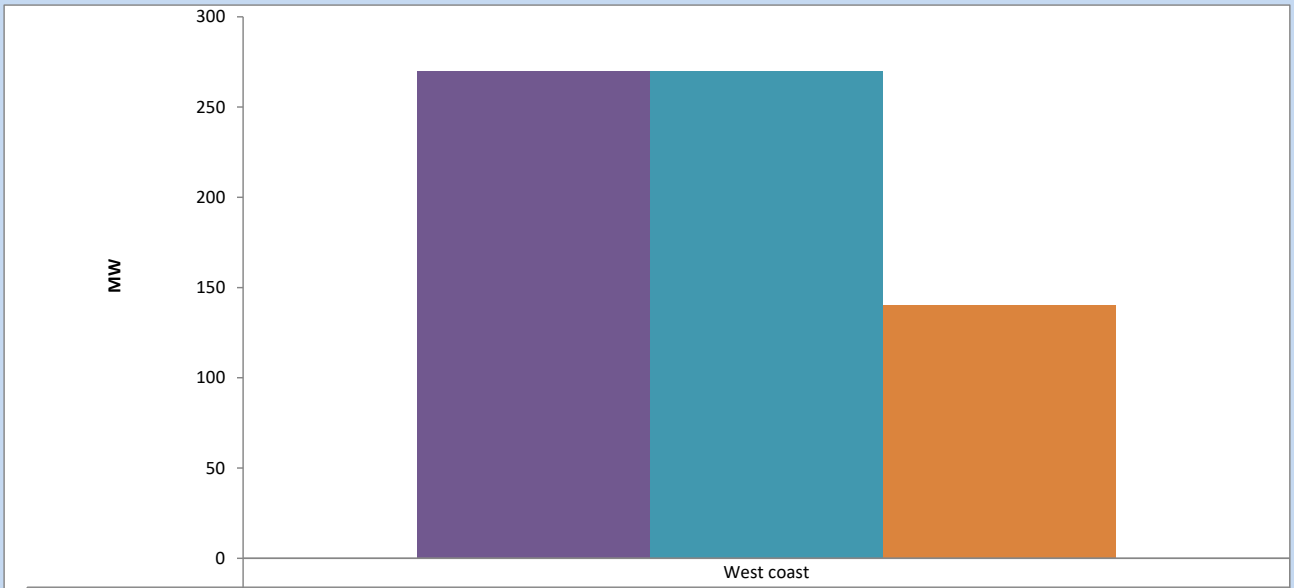
July 9, 2023



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	3277

Available Generation is estimated based on plant availability at 6.00am on July 10, 2023

6. IPP owned Tharmal Plant Loading at the Night Peak

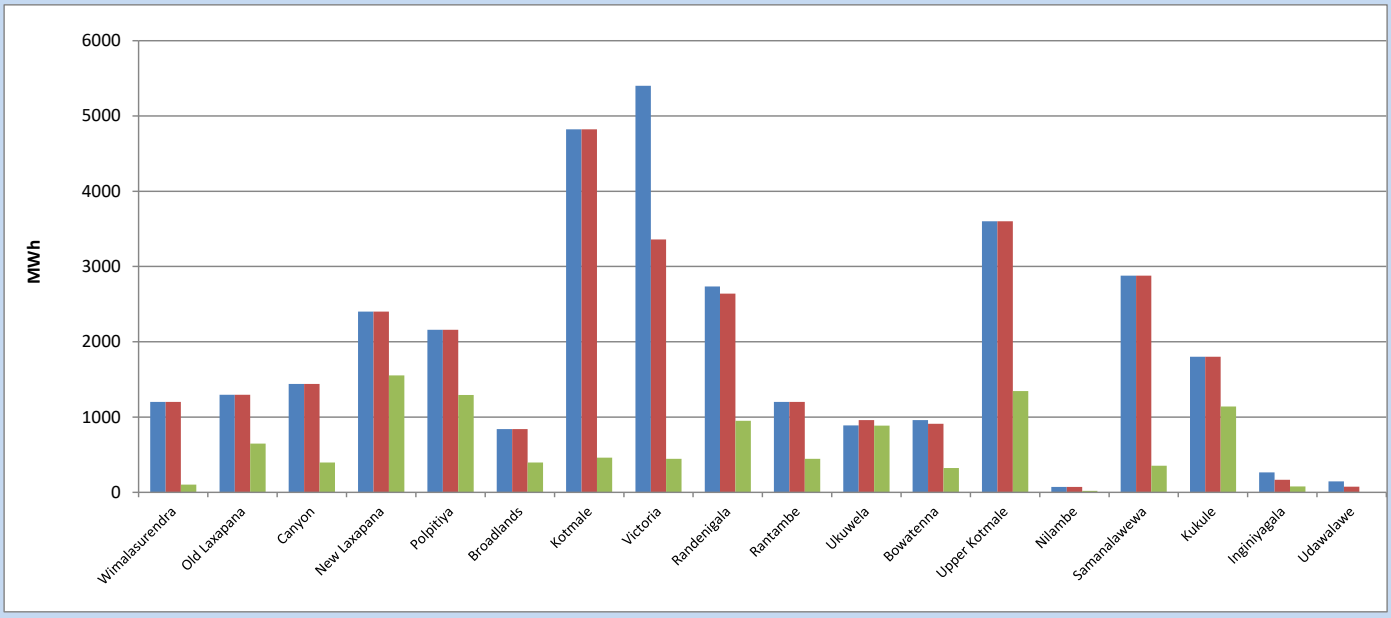


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	140

Plant avilability is recorded at 6.00 am on July 10, 2023

7. Major Hydro Plant Dispatch

July 9, 2023

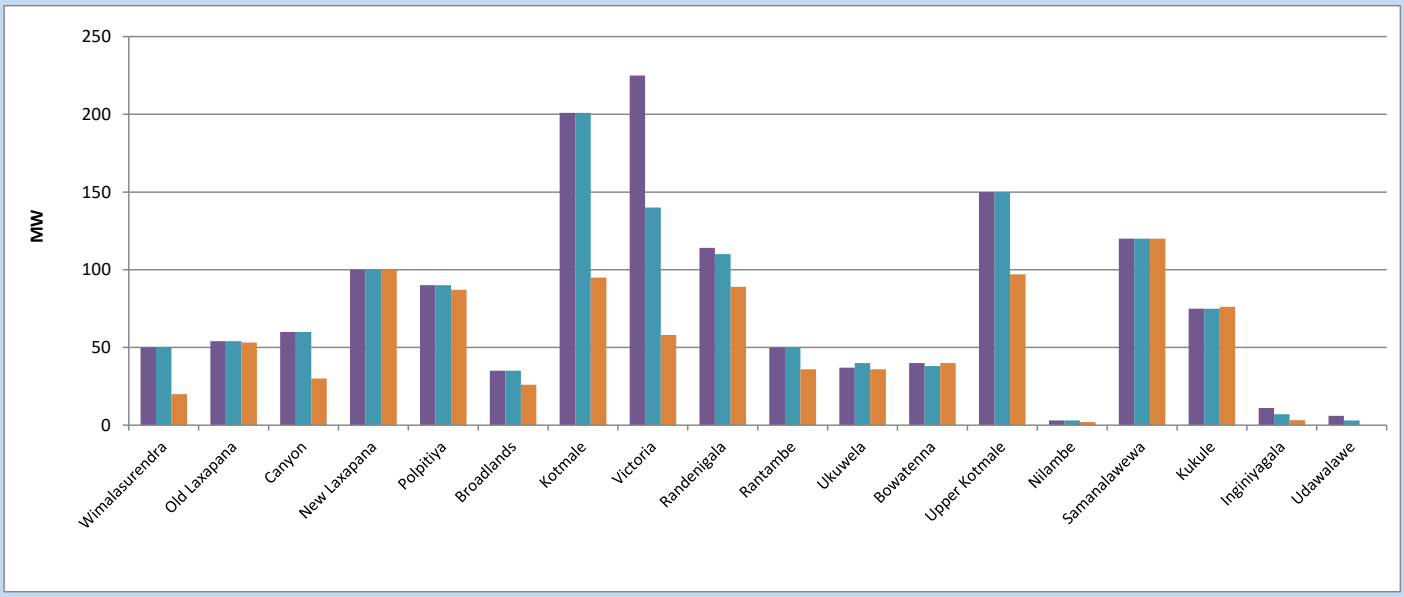


Available Generation is estimated based on plant availability at 6.00am on July 10, 2023

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

July 9, 2023



Plant avilability is recorded at 6.00 am on July 10, 2023

Broadlands power plant is operating in the Commissioning Stage

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	20	104
Old Laxapana	54	54	53	646
Canyon	60	60	30	396
New Laxapana	100	100	100	1,555
Polpitiya	90	90	87	1,292
Broadlands	35	35	26	397
Kotmale	201	201	95	460
Victoria	225	140	58	444
Randenigala	114	110	89	950
Rantambe	50	50	36	445
Ukuwela	37	40	36	885
Bowatenna	40	38	40	323
Upper Kotmale	150	150	97	1,346
Nilambe	3	3	2	21
Samanalawewa	120	120	120	355
Kukule	75	75	76	1,141
Inginiyagala	11	7	3	78
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,450
Puttalam Coal III	270	196	197	4,488
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	158	0	0
Sapugaskanda A	70	16	34	742
Sapugaskanda B	70	63	63	1,462
Uthura Janani	26	24	23	561
Barge CEB	60	45	45	921
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	140	3,277
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,670	1,928	32,766

Plant availability is the availability recorded at 6 am on July 10, 2023

10. Contribution to the Night Peak in MW

July 9, 2023

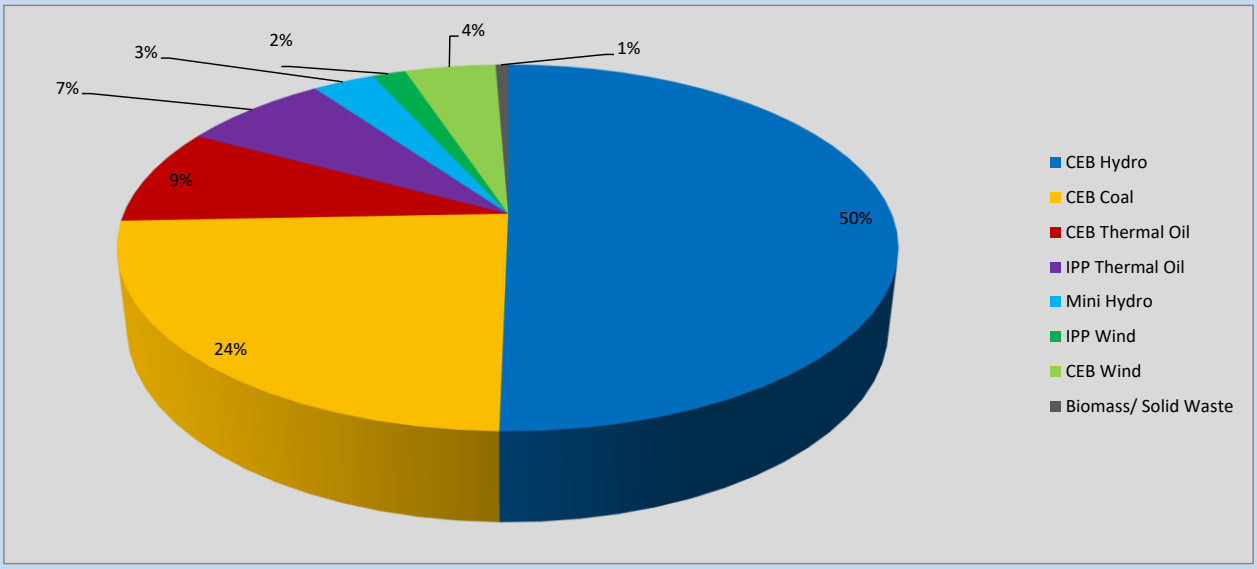


Table 05

CEB Hydro	972	MW
CEB Coal	465	MW
CEB Thermal Oil	165	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	59	MW
IPP Wind	31.9	MW
CEB Wind	86.8	MW
Biomass/ Solid Waste	12	MW

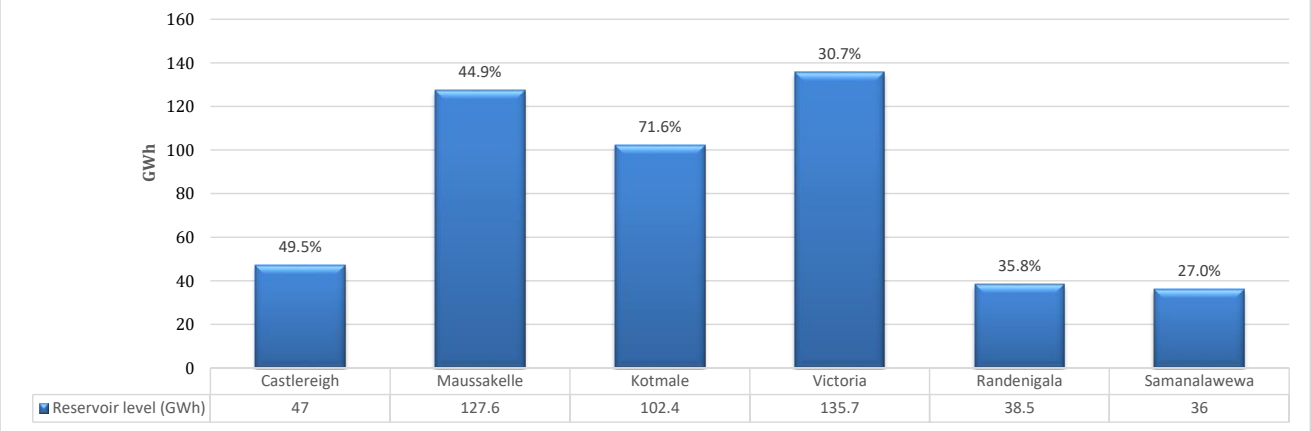
Recorded Peak Demand Data

Table 06

Night Peak*	1,931	MW
Day Peak Maximum Demand	1,299	MW
Day Peak Minimum Demand	1,133	MW
Off Peak Minimum Demand	1,165	MW

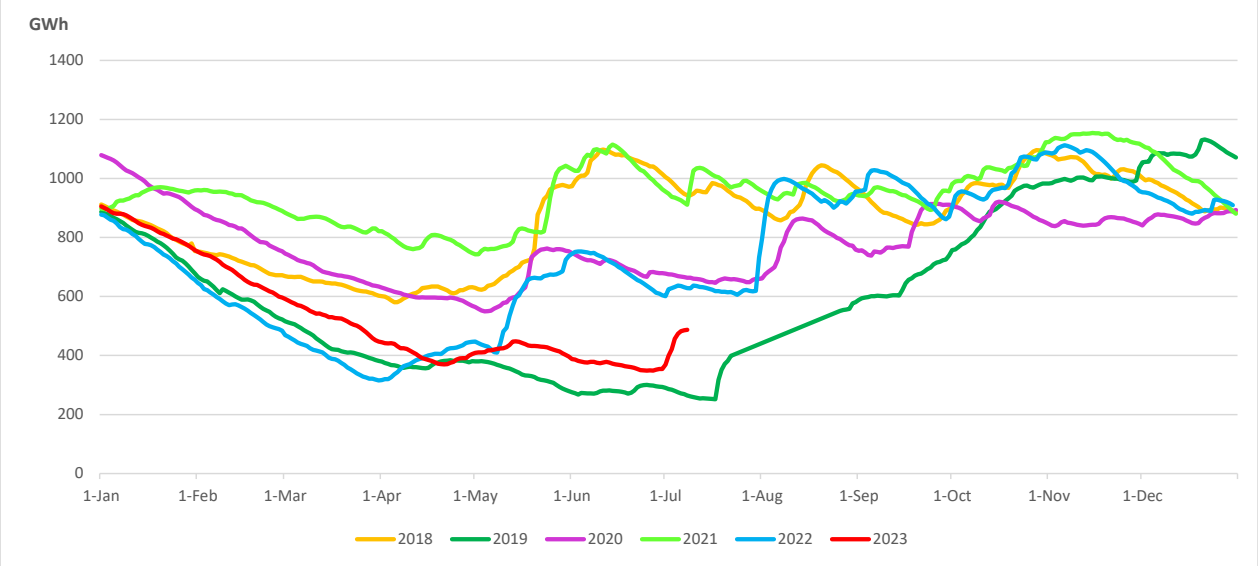
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on July 10, 2023

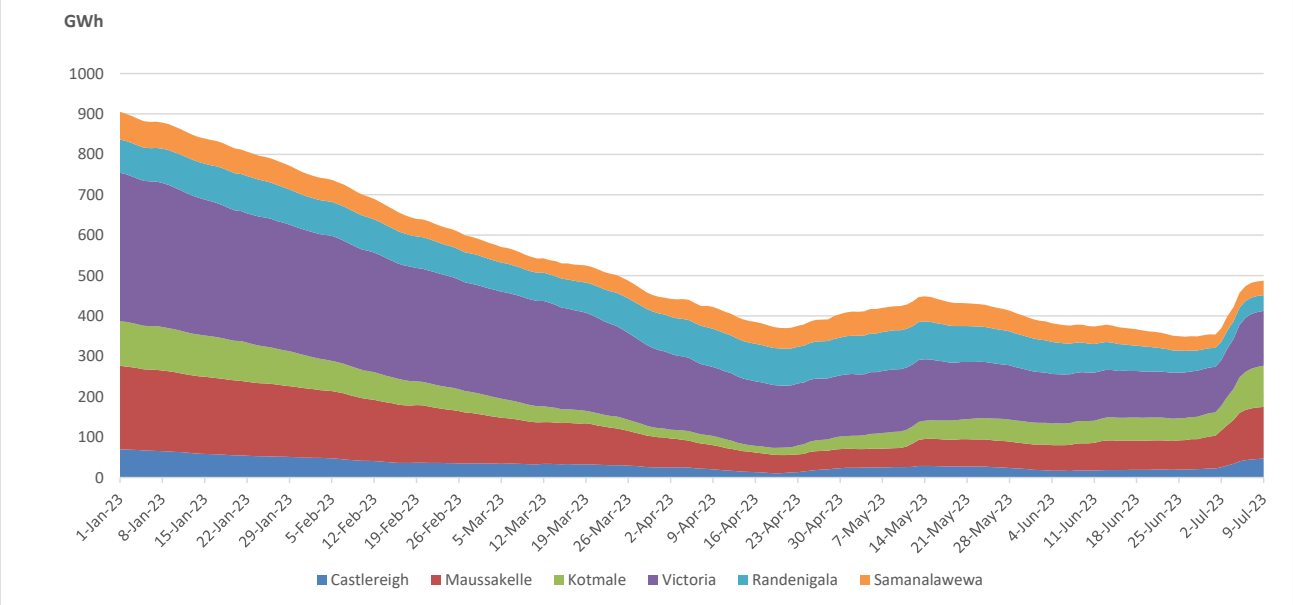


Total Reservoir Level	487.2 GWh
% of Total capacity	40.4%

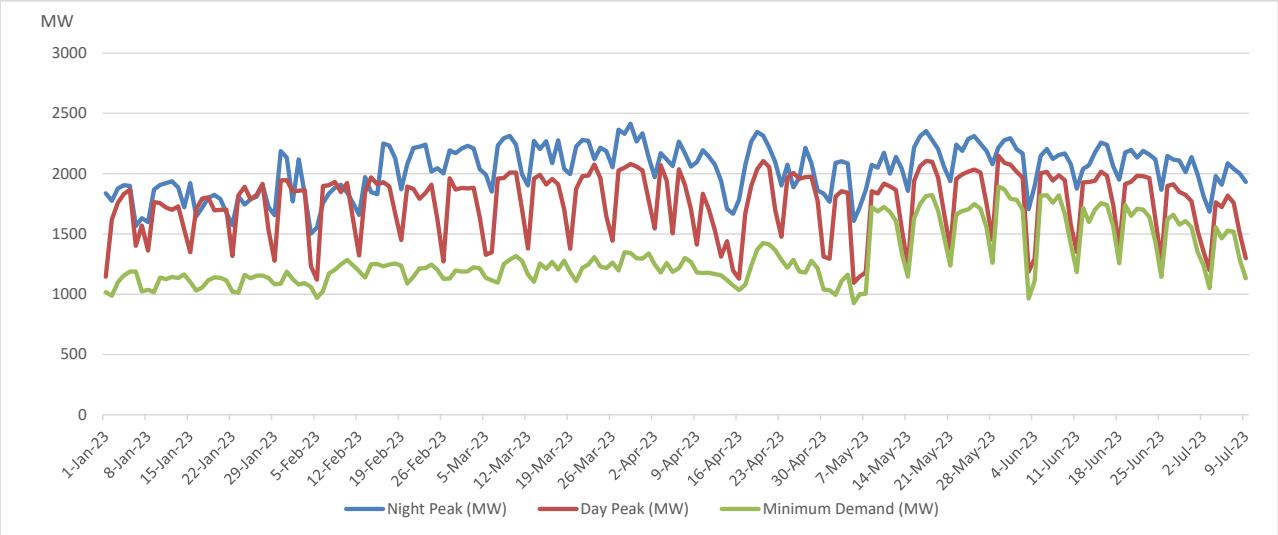
11. Comparison of Total Reservoir Storage Levels with Past Years



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



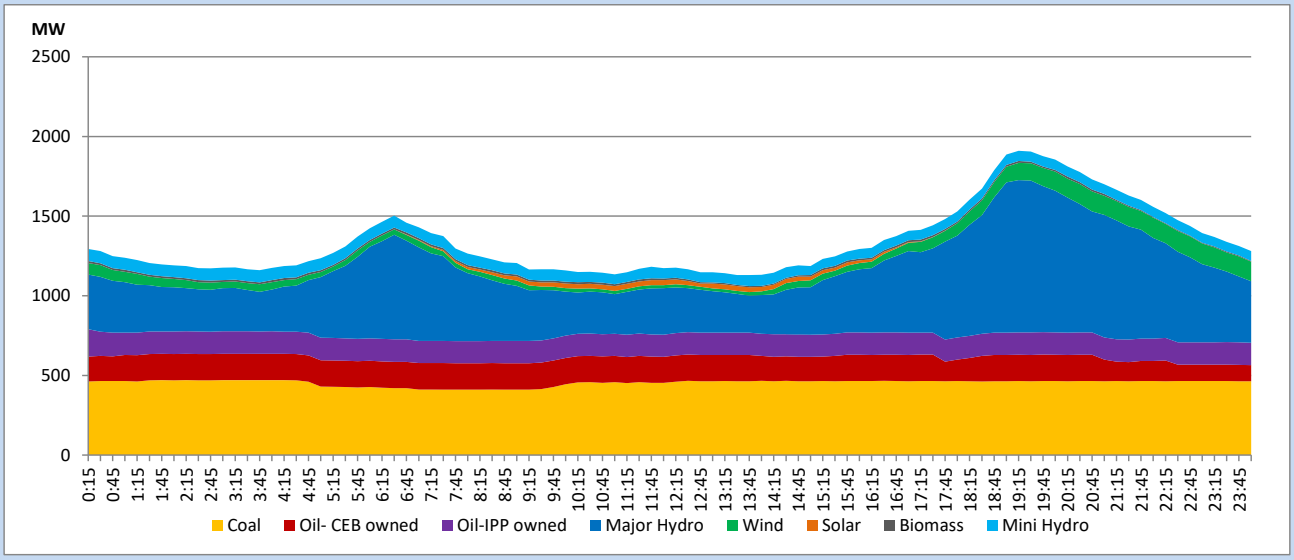
13. Variation of Demand during the current year



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

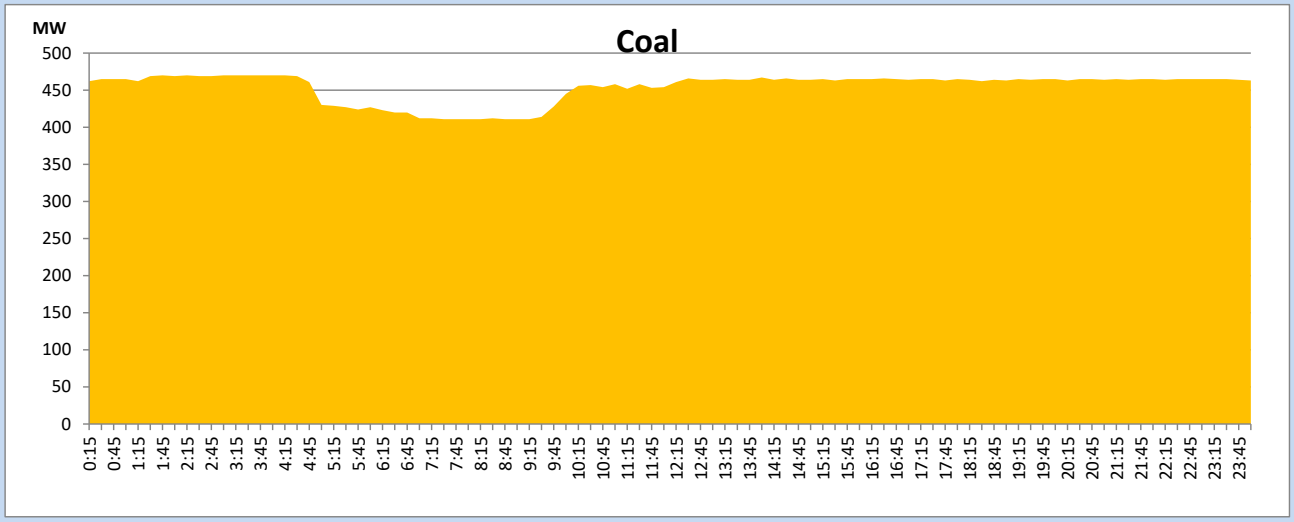
14. Daily Load Curve

July 9, 2023

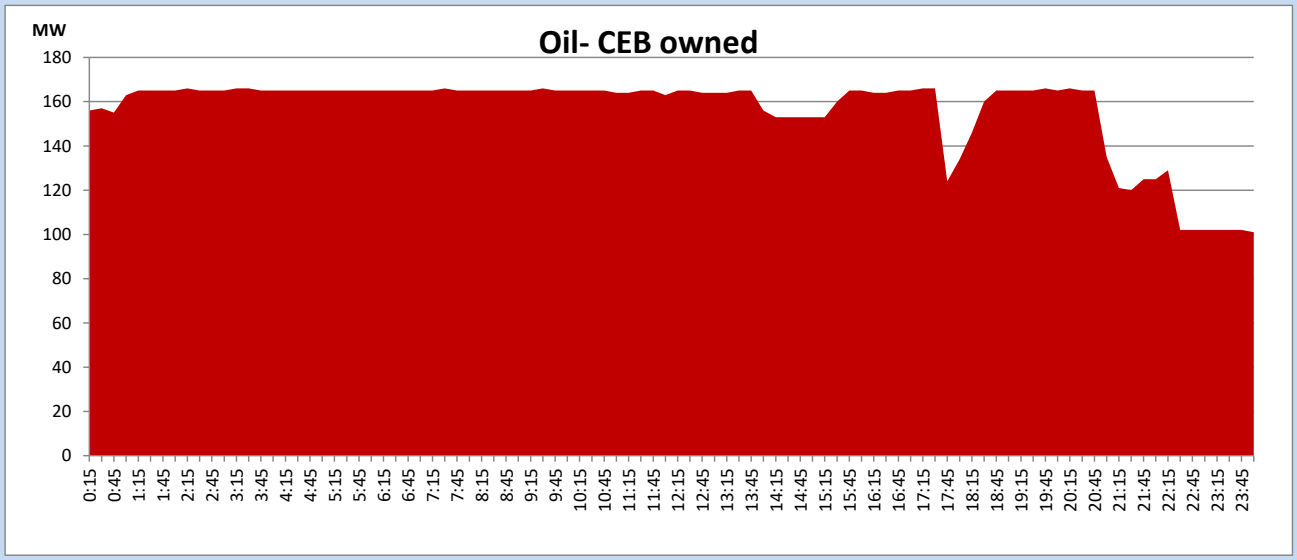


Solar and wind data is based on Telemetered Power Stations only

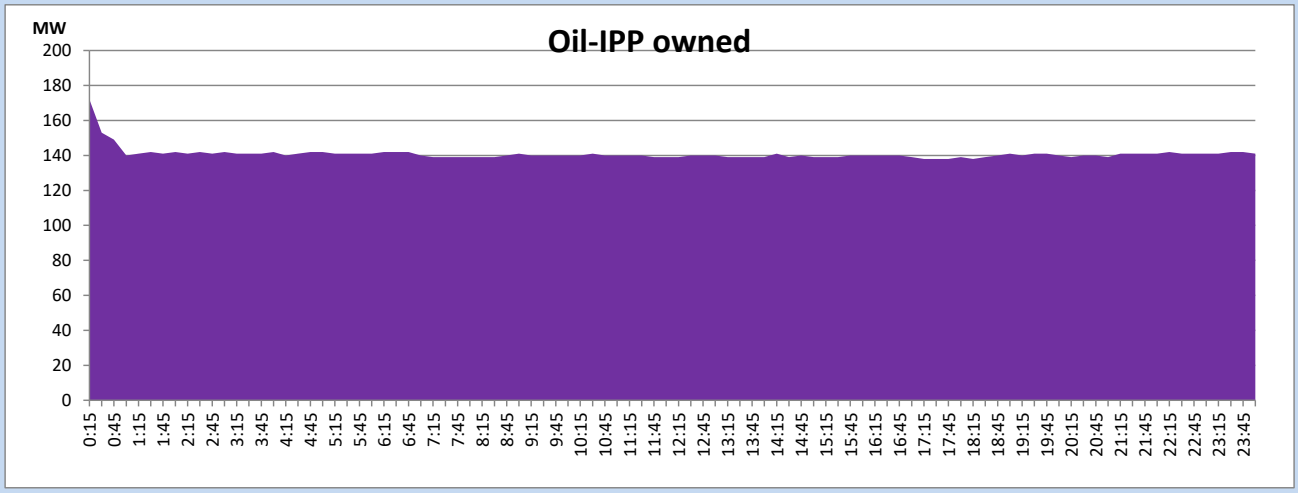
Coal Generation during July 9, 2023



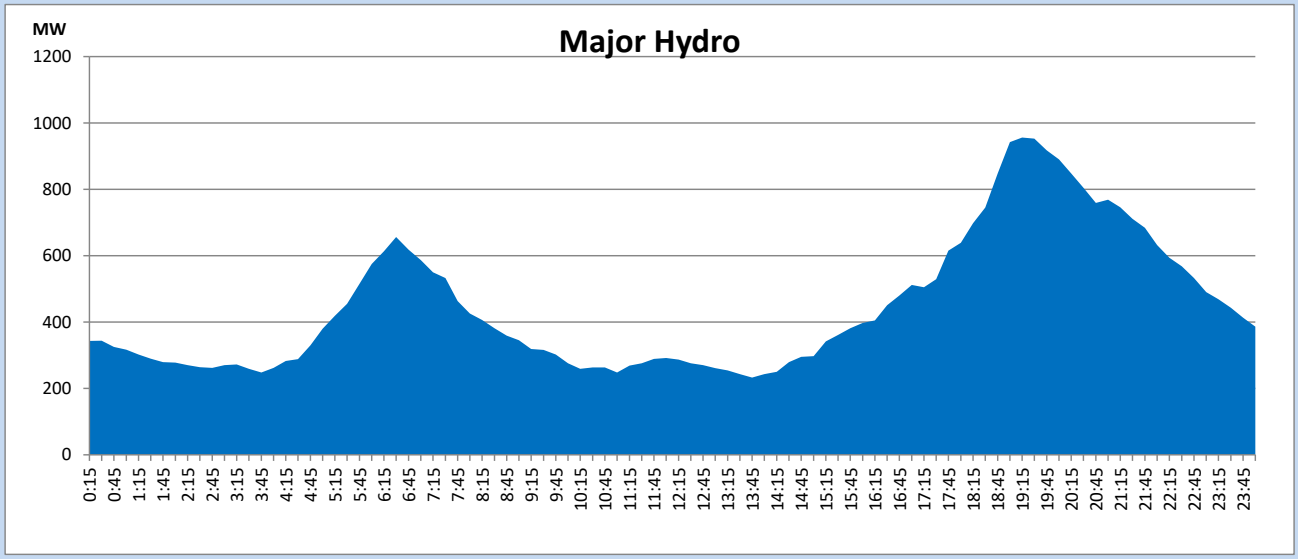
CEB Oil Plant Generation during July 9, 2023



IPP Oil Plant Generation during July 9, 2023

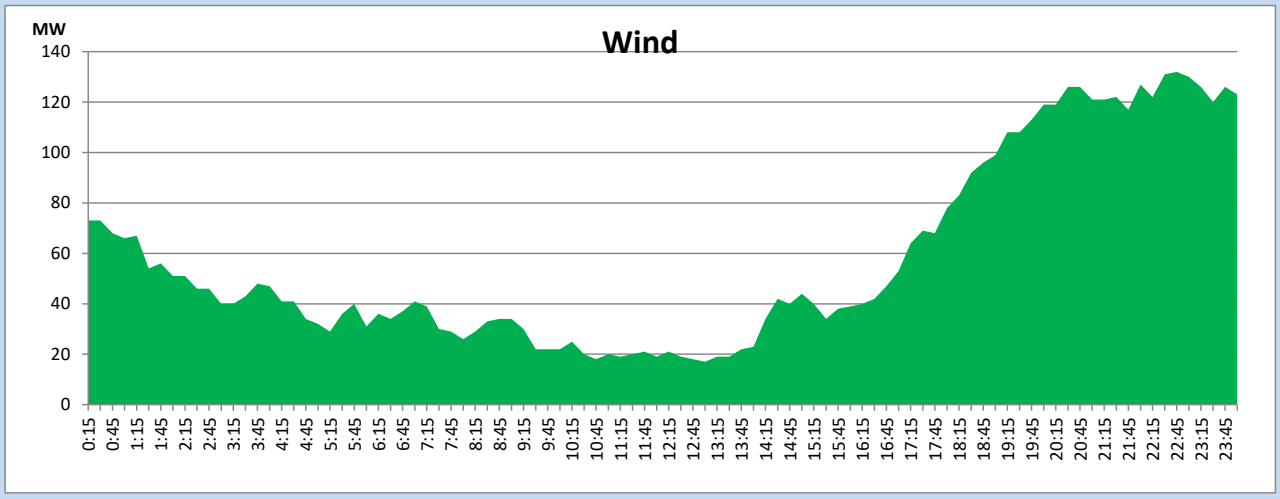


Major Hydro Generation during July 9, 2023



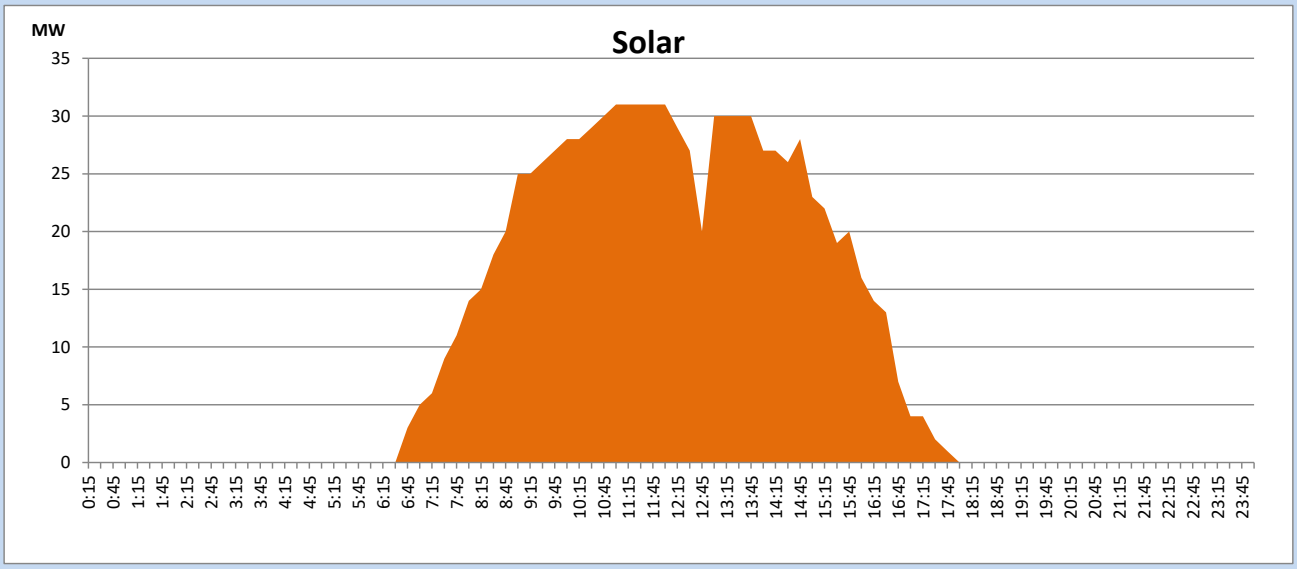
Wind Generation during July 9, 2023

Based on Telemetered Power Stations only

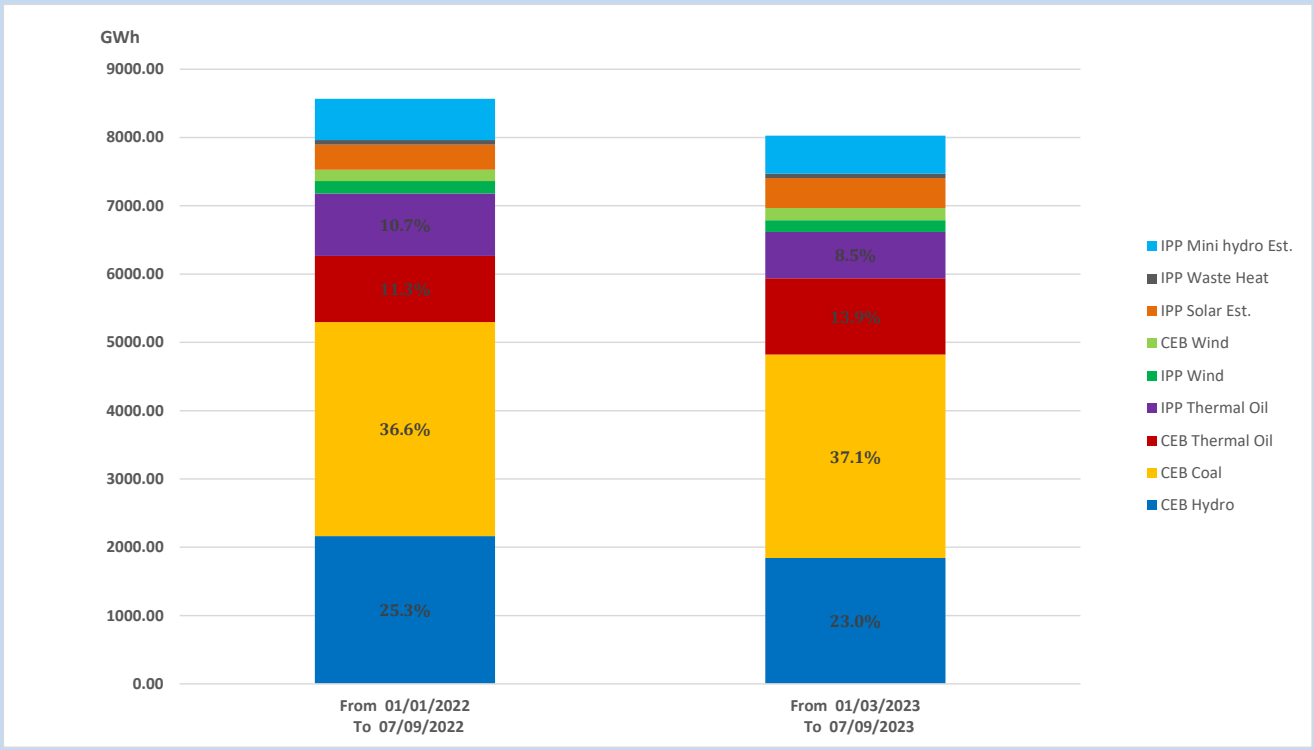


Solar Generation during July 9, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 07/09/2022	**8566 GWh**
From 01/01/2023 To 07/09/2023	**8026 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 9, 2023

1) LVPS unit 03 reached 197MW (net) at 12:20hrs.

2) Power Barge Gen 02 & 04 tripped at 07:25hrs rejecting 30MW from the system due to an auxiliary pump failure. Power Barge Gen 02 & 04 resumed generation at 17:47hrs & 17:52hrs respectively.

3) Power Barge Gen 01, 02 & 04 tripped at 20:54hrs rejecting 45MW from the system due to the operation of Turbo charger speed high alarm.Power Barge Gen 01, 02 & 04 made

4) Sapukankanda Gen 01 tripped at 22:16hrs rejecting 18MW from the system due to AVR failure. The generator is yet to resume generation.