Generation and Reservoirs Statistics

July 17, 2023

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

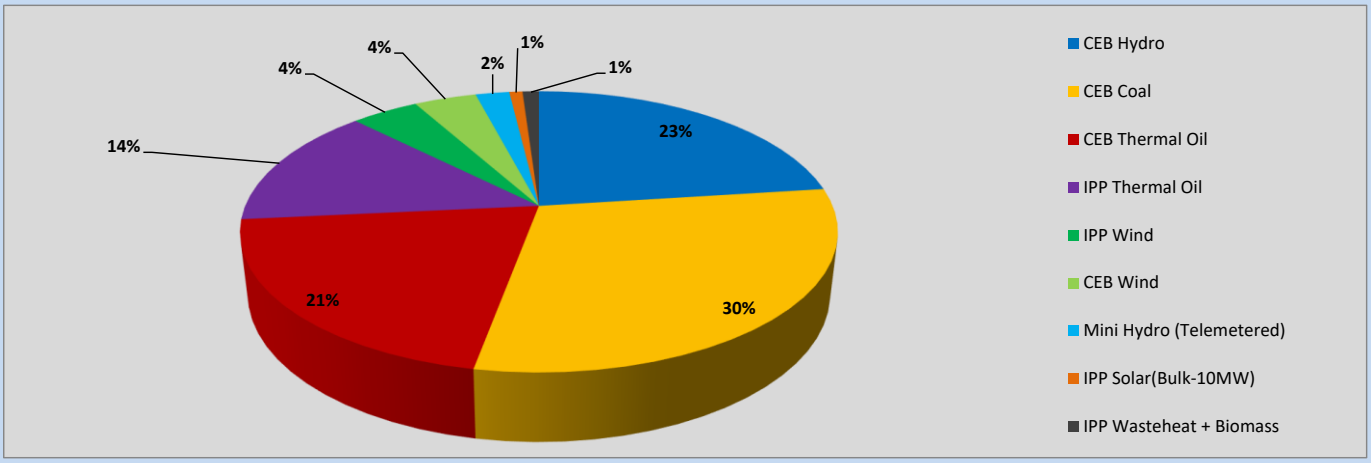


Table 01

CEB Hydro	9,694	MWh
CEB Coal	12,629	MWh
CEB Thermal Oil	8,670	MWh
IPP Thermal Oil	5,922	MWh
IPP Wind	1,843	MWh
CEB Wind	1,701	MWh
Mini Hydro (Telemetered)	923	MWh
IPP Solar (Bulk)	359	MWh
IPP Wasteheat + Biomass	447	MWh
Total Generation (Excluding estimated figures)	**42,188**	**MWh**
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	2587	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	**46,729**	**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

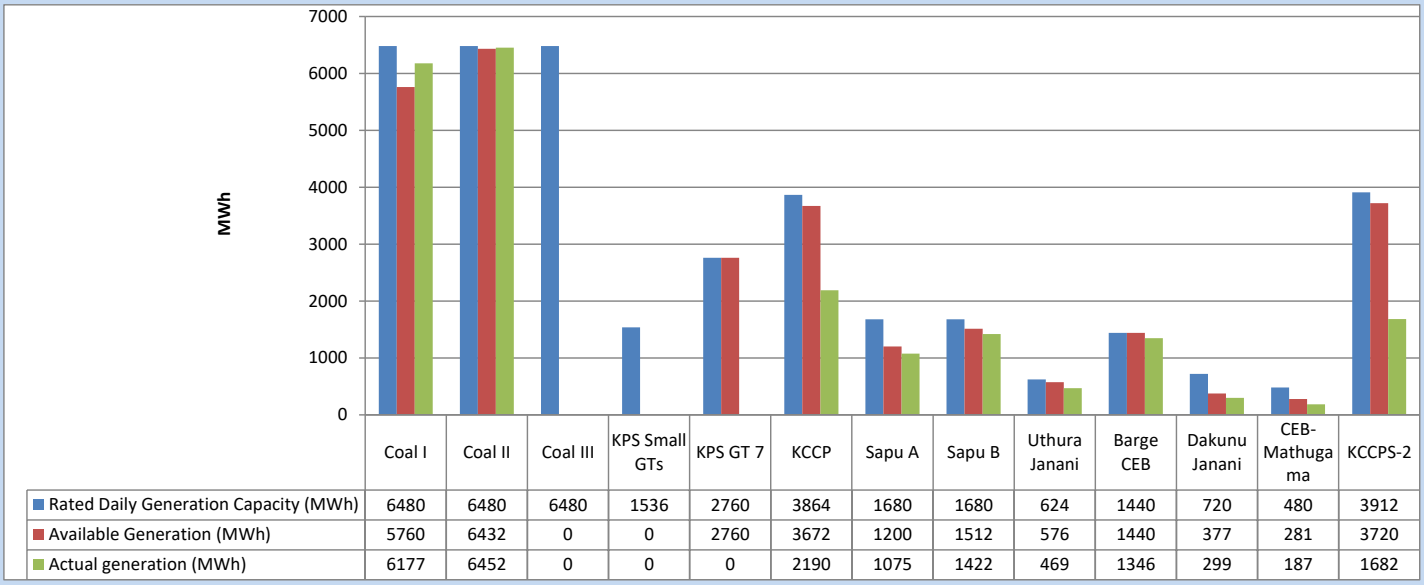
Category	Dispatch (GWh)	
CEB Hydro	186	28.98%
CEB Coal	195	30.49%
CEB Thermal Oil	93	14.50%
IPP Thermal	72	11.21%
SPP Wind	31	4.78%
CEB Wind	28	4.40%
Mini Hydro (Telemetered)	25	3.84%
IPP Solar(Bulk-10MW)	5	0.82%
IPP Wasteheat + BMP	6	0.97%
Total	**641**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,924	25.33%
CEB Coal	3,078	40.54%
CEB Thermal Oil	1,177	15.49%
IPP Thermal	726	9.56%
SPP Wind	182	2.39%
CEB Wind	192	2.53%
Mini Hydro (Telemetered)	191	2.51%
IPP Solar(Bulk-10MW)	58	0.77%
IPP Wasteheat	66	0.87%
Total	**7,594**	

3. CEB owned Thermal Plant Dispatch

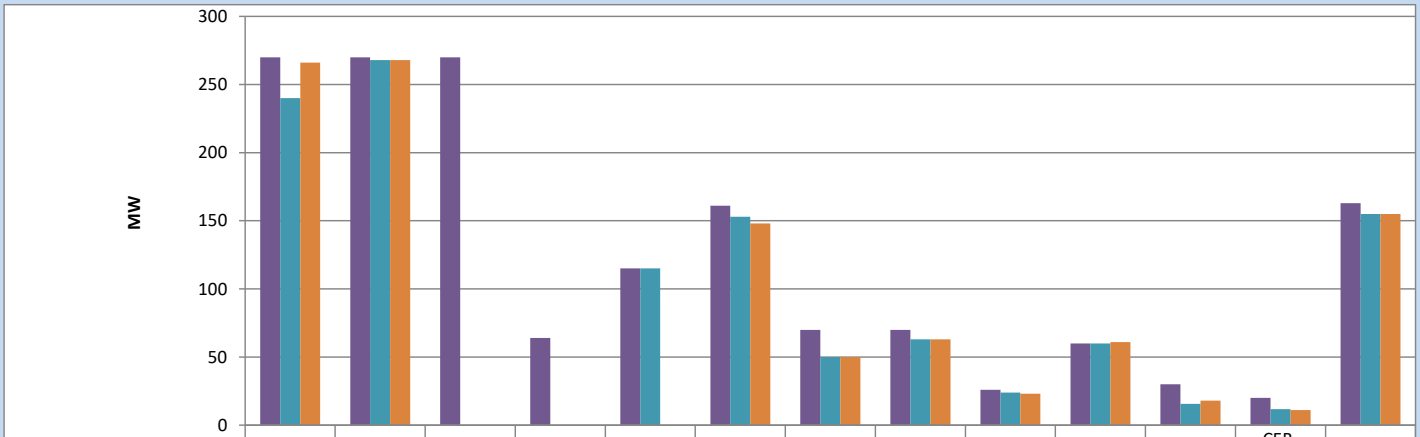
July 17, 2023



	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)	5760	6432	0	0	2760	3672	1200	1512	576	1440	377	281	3720
Actual generation (MWh)	6177	6452	0	0	0	2190	1075	1422	469	1346	299	187	1682

Available Generation is estimated based on plant availability at 6.00am on July 18, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

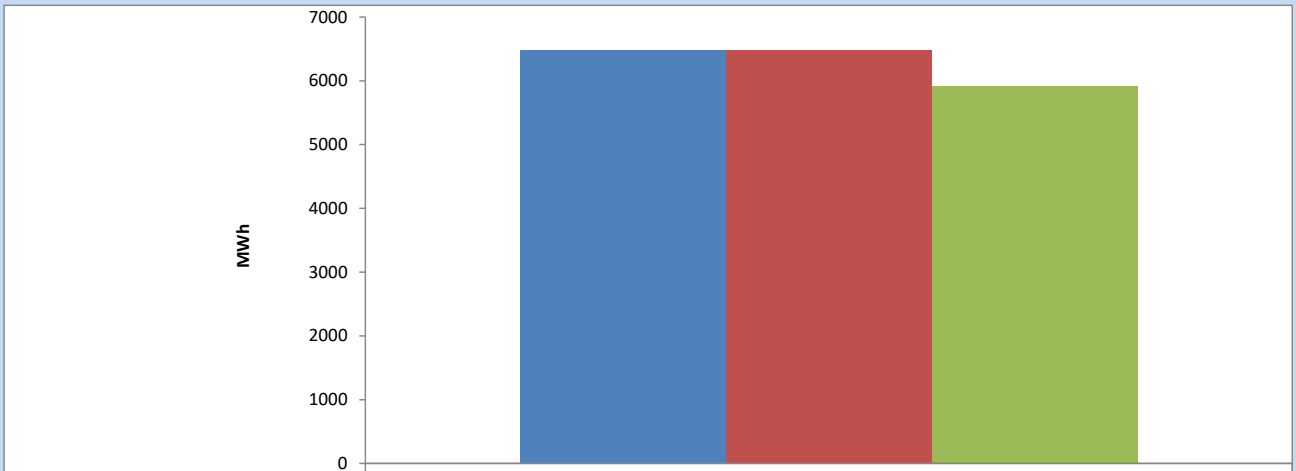


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	240	268	0	0	115	153	50	63	24	60	16	12	155
Night Peak Load (MW)	266	268	0	0	0	148	50	63	23	61	18	11	155

Plant avilability is recorded at 6.00 am on July 18, 2023

5. IPP owned Thermal Plant Dispatch

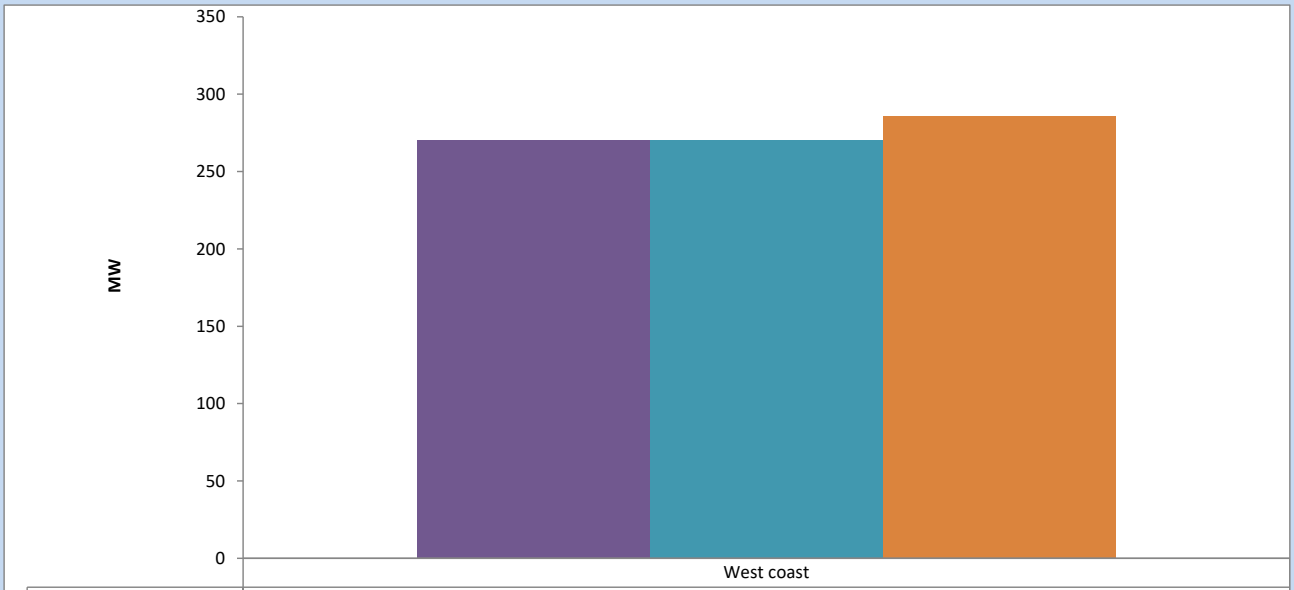
July 17, 2023



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	5922

Available Generation is estimated based on plant availability at 6.00am on July 18, 2023

6. IPP owned Tharmal Plant Loading at the Night Peak

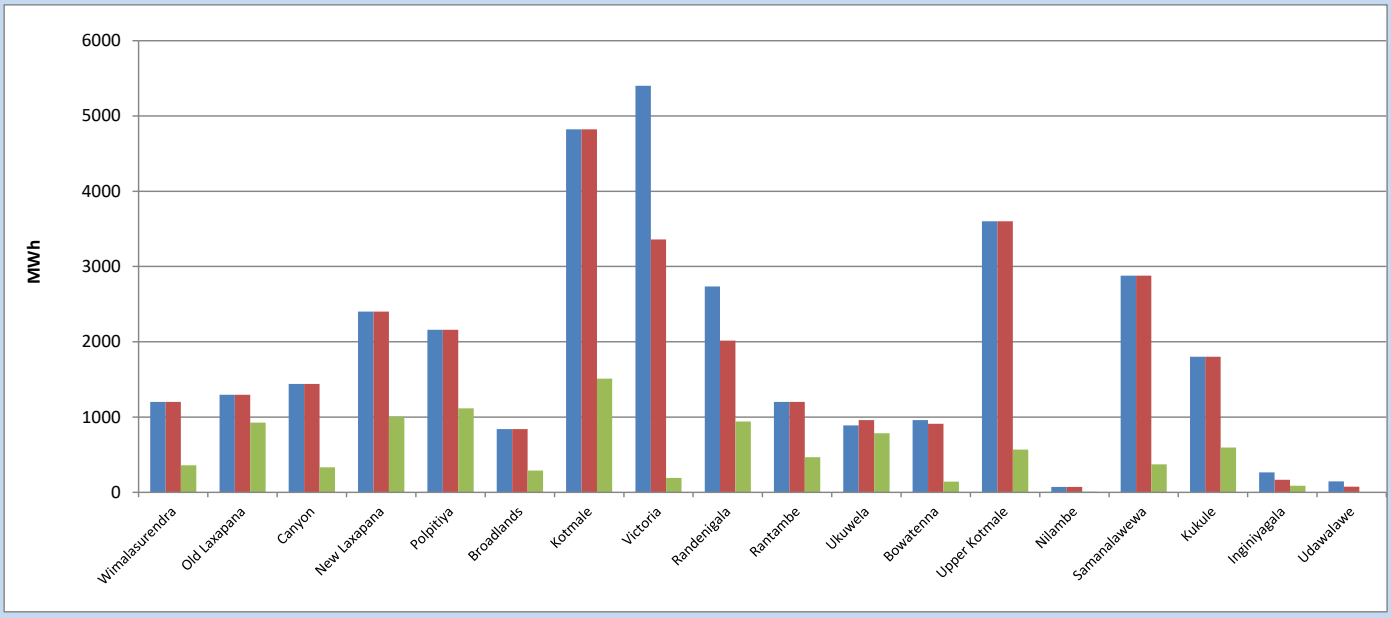


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	286

Plant avilability is recorded at 6.00 am on July 18, 2023

7. Major Hydro Plant Dispatch

July 17, 2023

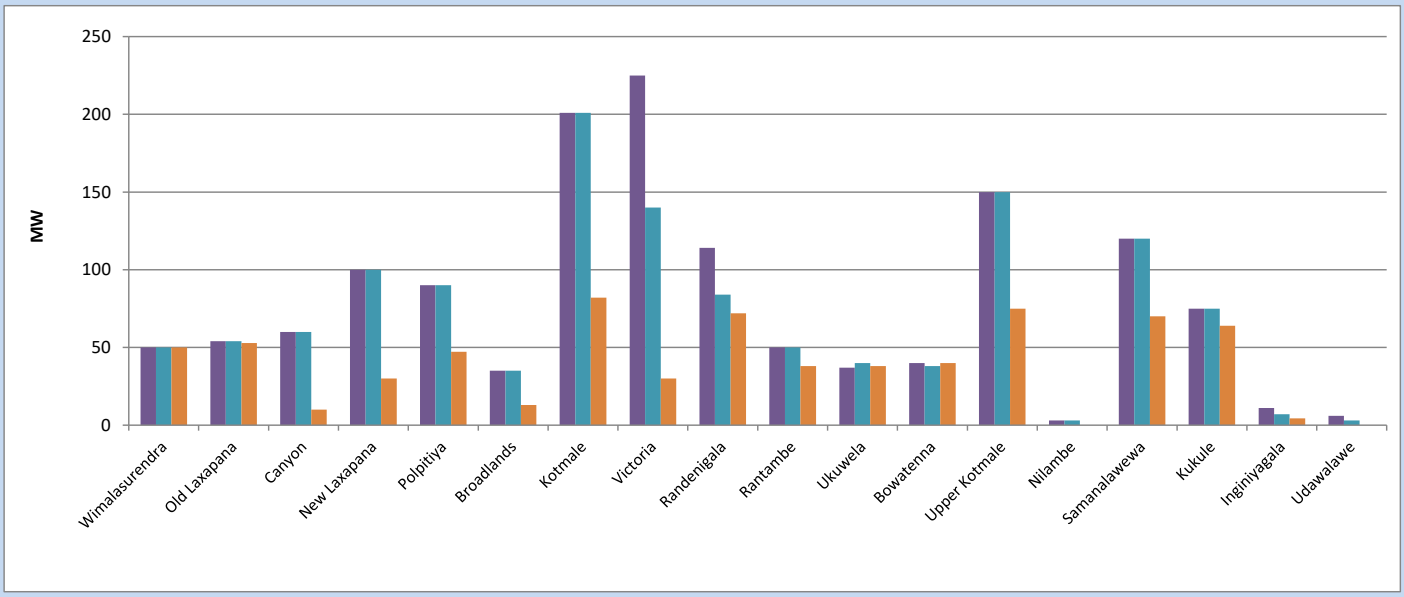


Available Generation is estimated based on plant availability at 6.00am on July 18, 2023

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

July 17, 2023



Plant avilability is recorded at 6.00 am on July 18, 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	50	360
Old Laxapana	54	54	53	927
Canyon	60	60	10	331
New Laxapana	100	100	30	1,005
Polpitiya	90	90	47	1,117
Broadlands	35	35	13	288
Kotmale	201	201	82	1,510
Victoria	225	140	30	190
Randenigala	114	84	72	941
Rantambe	50	50	38	467
Ukuwela	37	40	38	784
Bowatenna	40	38	40	142
Upper Kotmale	150	150	75	569
Nilambe	3	3	0	8
Samanalawewa	120	120	70	372
Kukule	75	75	64	596
Inginiyagala	11	7	4	87
Udawalawe	6	3	0	0
Puttalam Coal I	270	240	266	6,177
Puttalam Coal II	270	268	268	6,452
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	153	148	2,190
Sapugaskanda A	70	50	50	1,075
Sapugaskanda B	70	63	63	1,422
Uthura Janani	26	24	23	469
Barge CEB	60	60	61	1,346
CEB-Hambantota	30	16	18	299
CEB-Mathugama	20	12	11	187
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	155	1,682
West Coast	270	270	286	5,922
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,726	2,248	42,188

Plant availability is the availability recorded at 6 am on July 18, 2023

10. Contribution to the Night Peak in MW

July 17, 2023

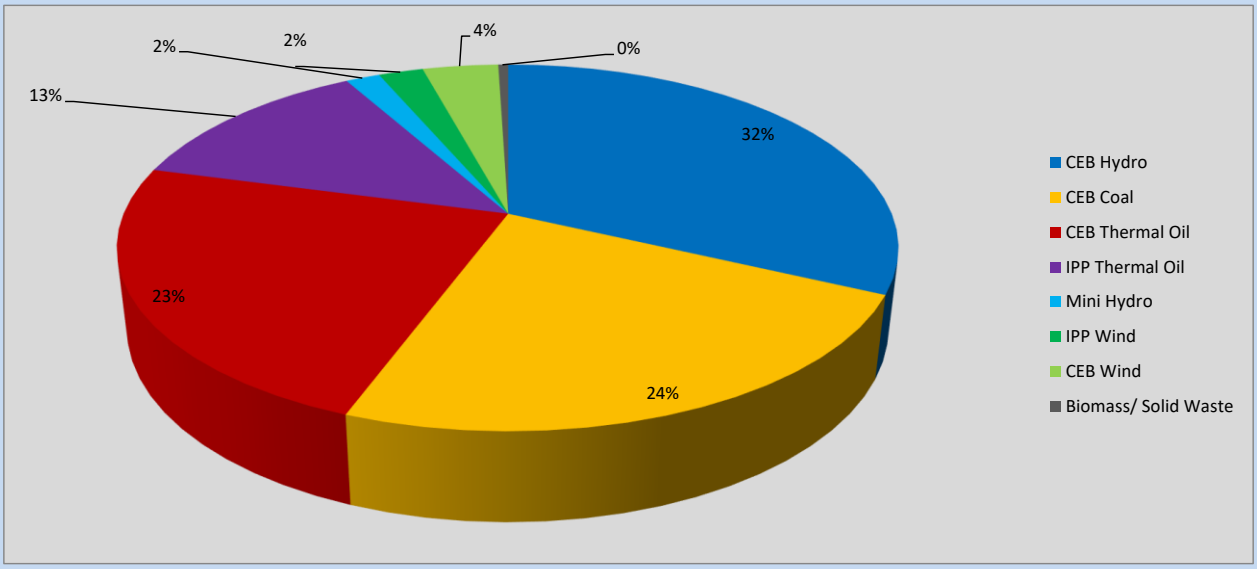


Table 05

CEB Hydro	719	MW
CEB Coal	534	MW
CEB Thermal Oil	529	MW
IPP Thermal Oil	286	MW
Mini Hydro (Telemetered)	38	MW
IPP Wind	49.7	MW
CEB Wind	84.2	MW
Biomass/ Solid Waste	11	MW

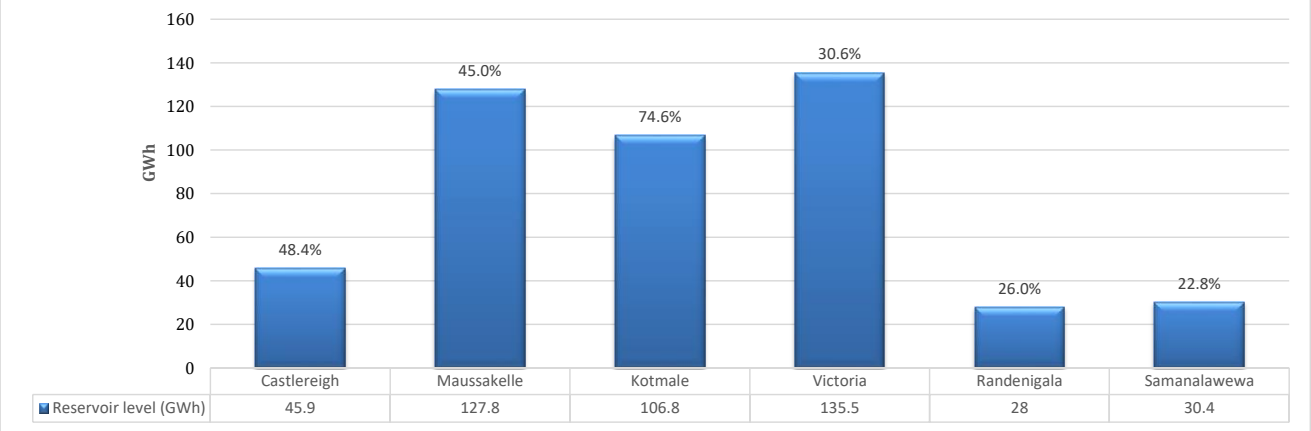
Recorded Peak Demand Data

Table 06

Night Peak*	2,251	MW
Day Peak Maximum Demand	1,985	MW
Day Peak Minimum Demand	1,726	MW
Off Peak Minimum Demand	1,229	MW

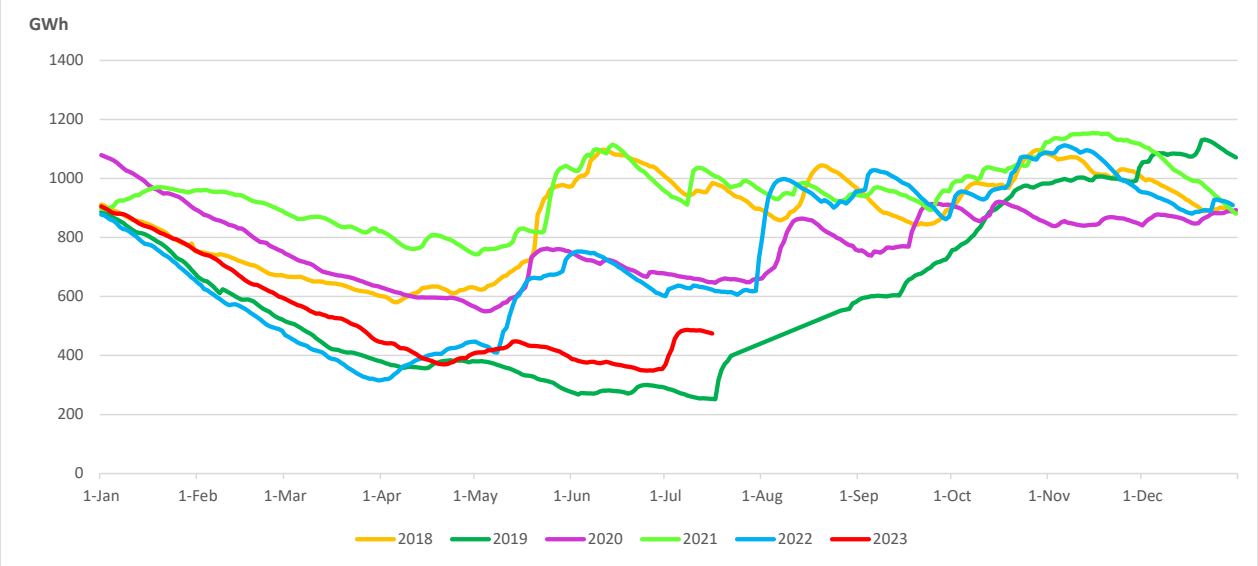
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on July 18, 2023

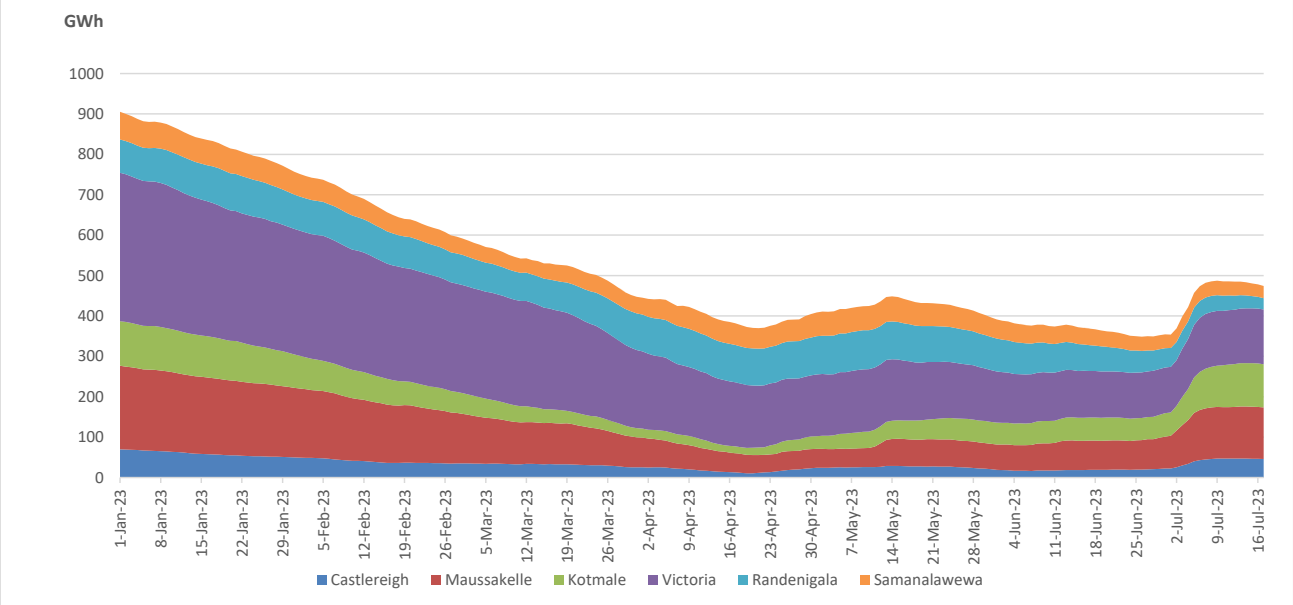


Total Reservoir Level	474.4 GWh
% of Total capacity	39.3%

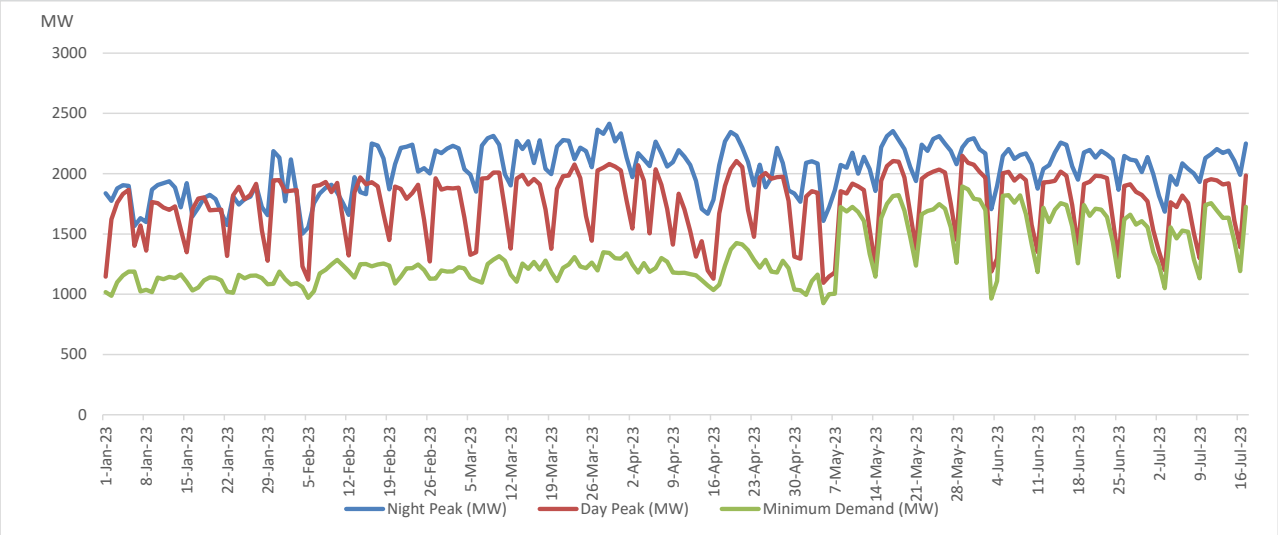
11. Comparison of Total Reservoir Storage Levels with Past Years



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



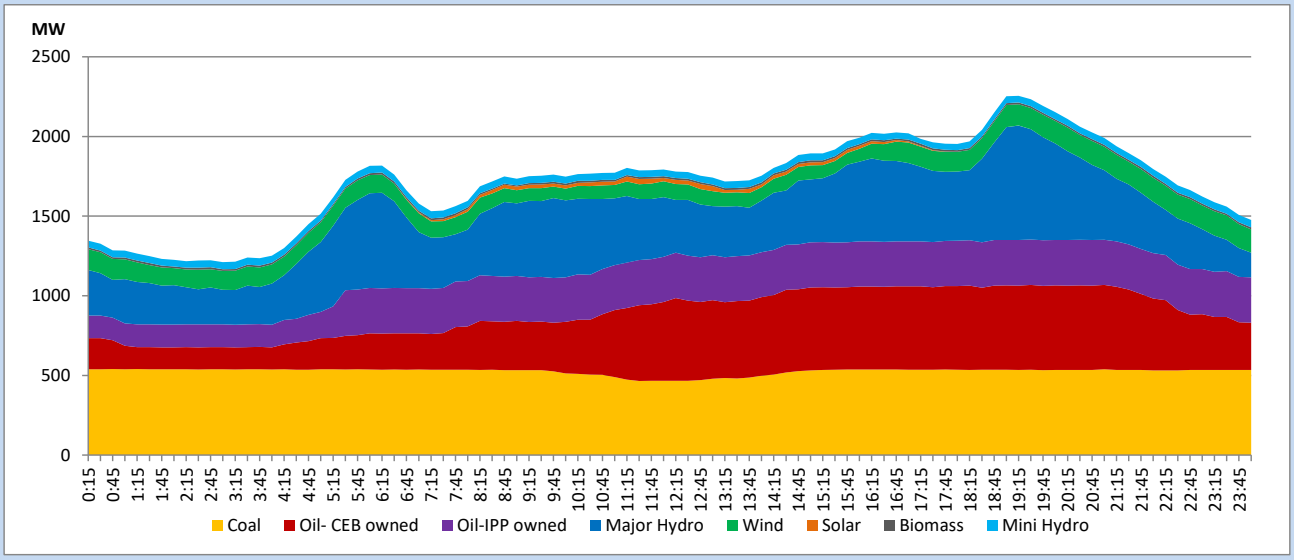
13. Variation of Demand during the current year



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

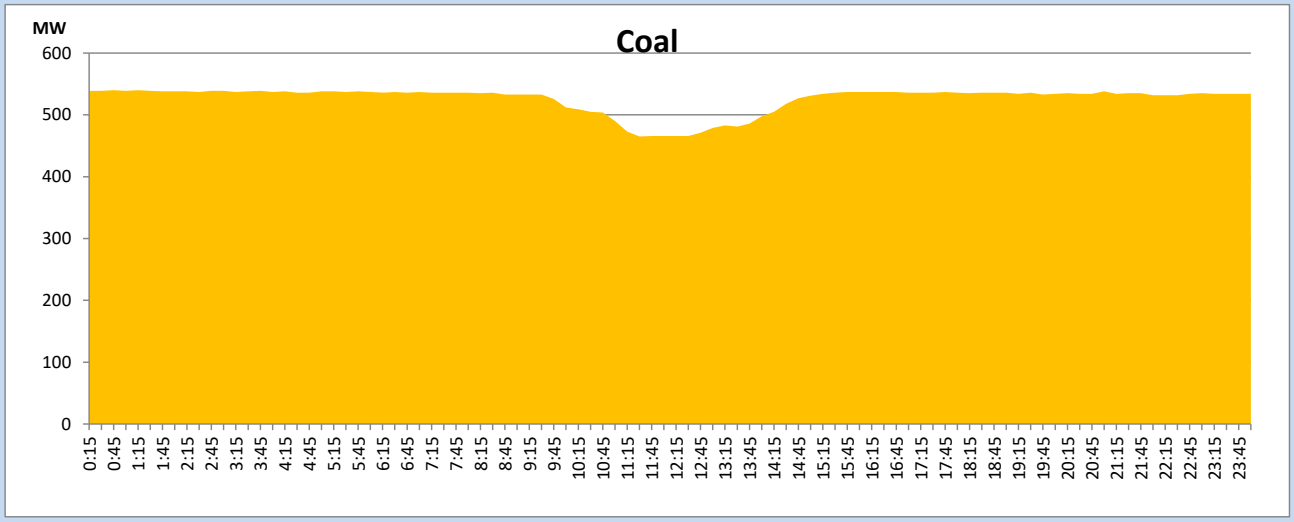
14. Daily Load Curve

July 17, 2023

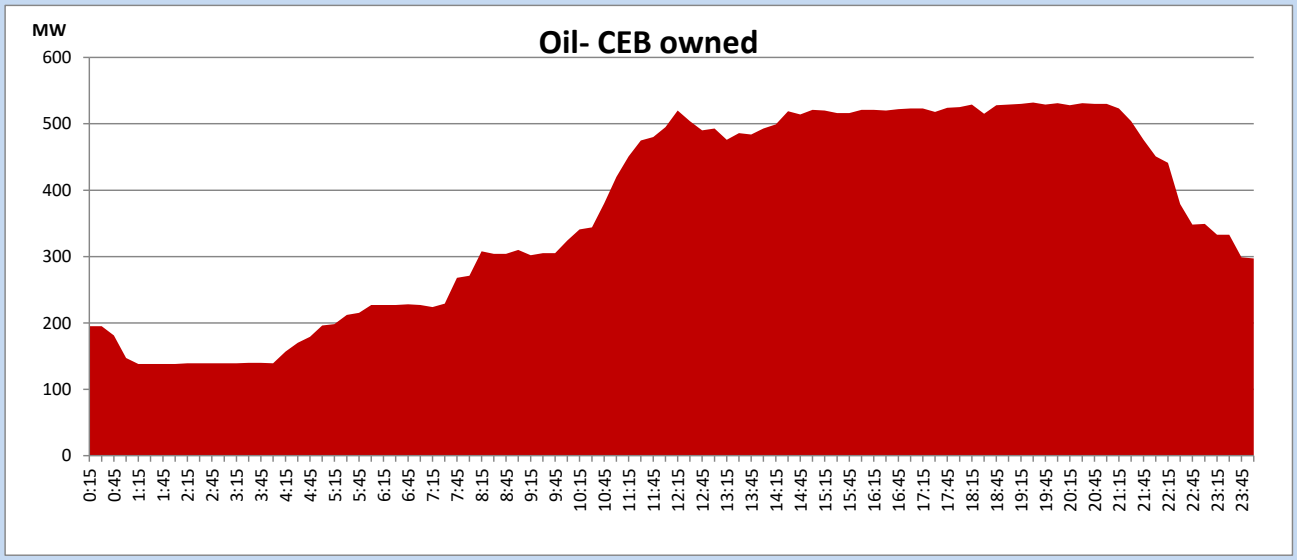


Solar and wind data is based on Telemetered Power Stations only

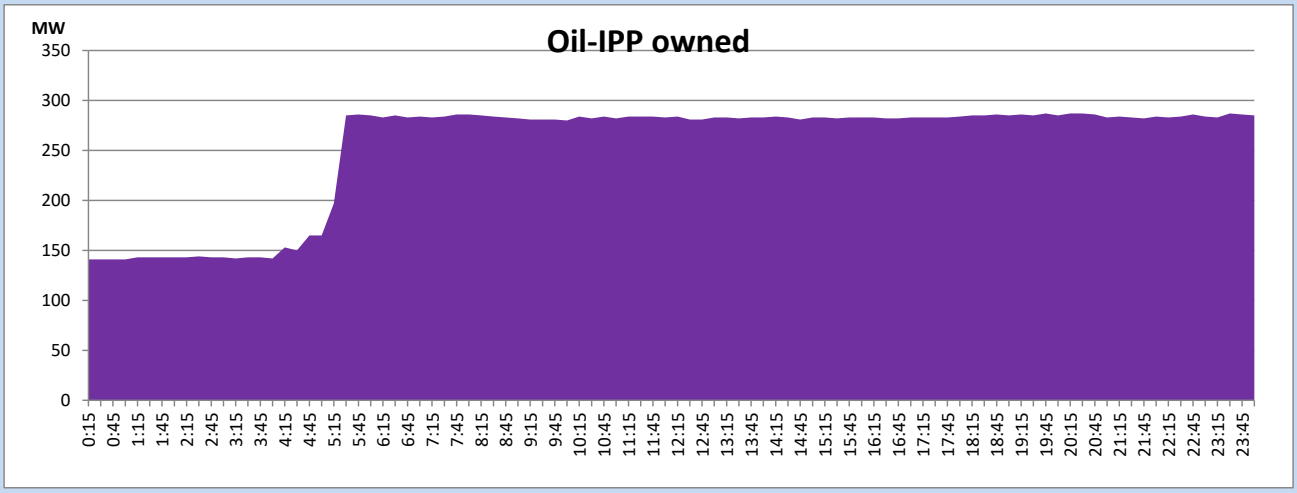
Coal Generation during July 17, 2023



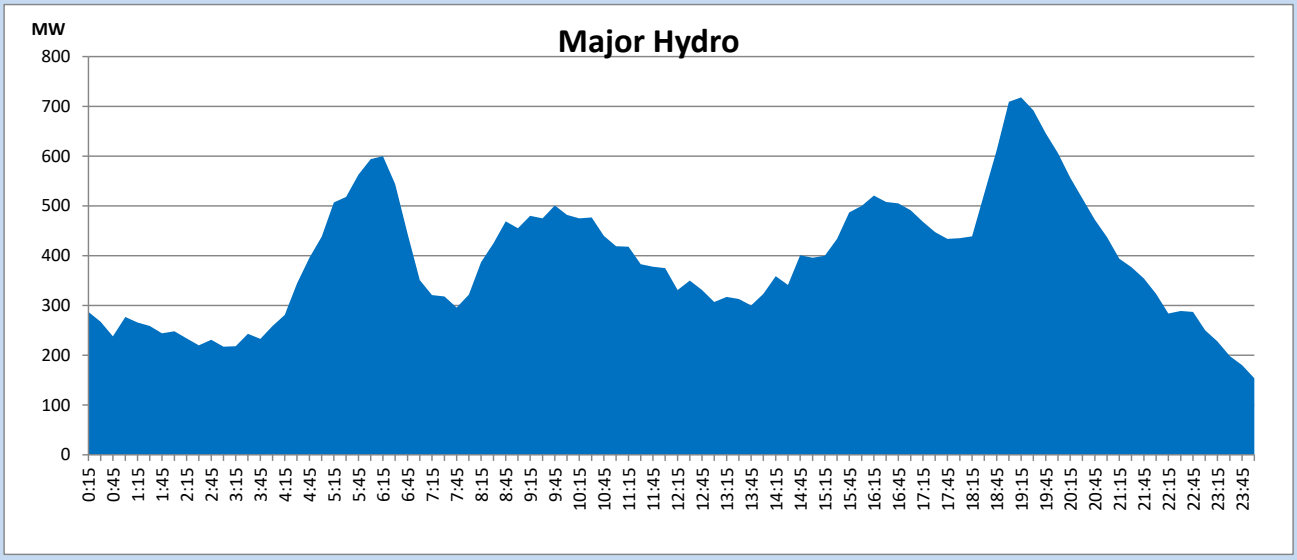
CEB Oil Plant Generation during July 17, 2023



IPP Oil Plant Generation during **July 17, 2023**

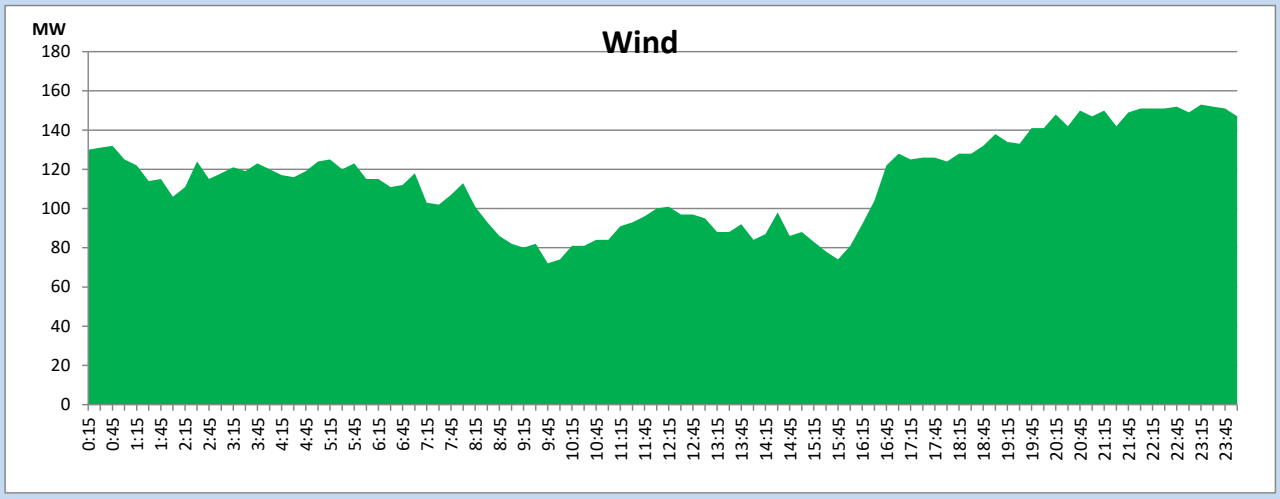


Major Hydro Generation during **July 17, 2023**



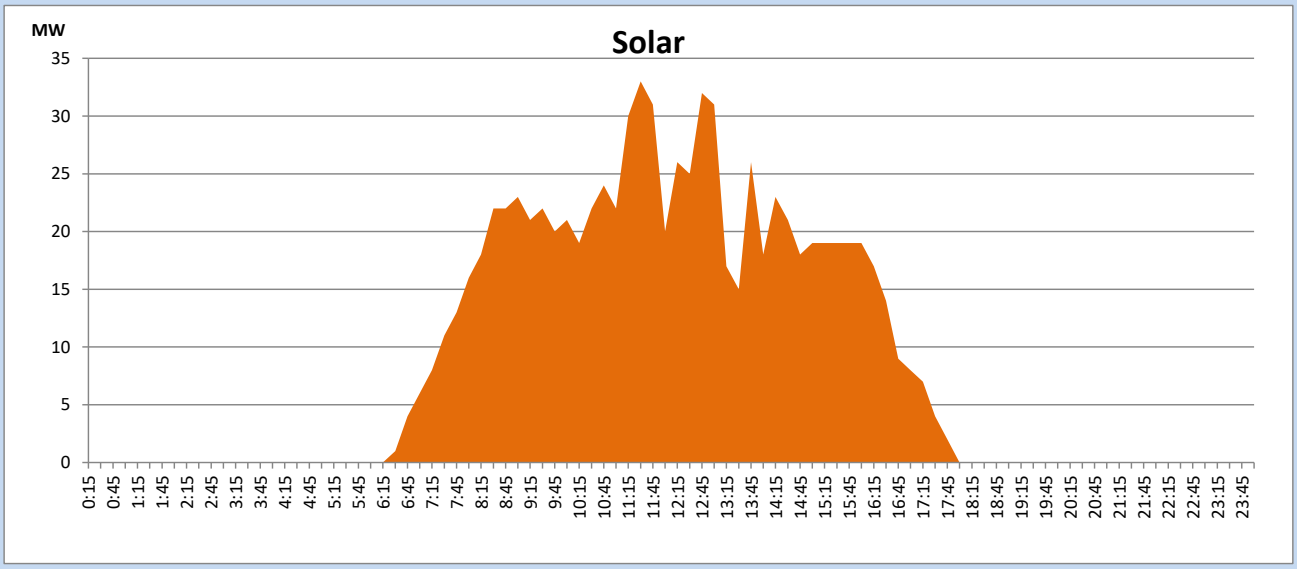
Wind Generation during July 17, 2023

Based on Telemetered Power Stations only

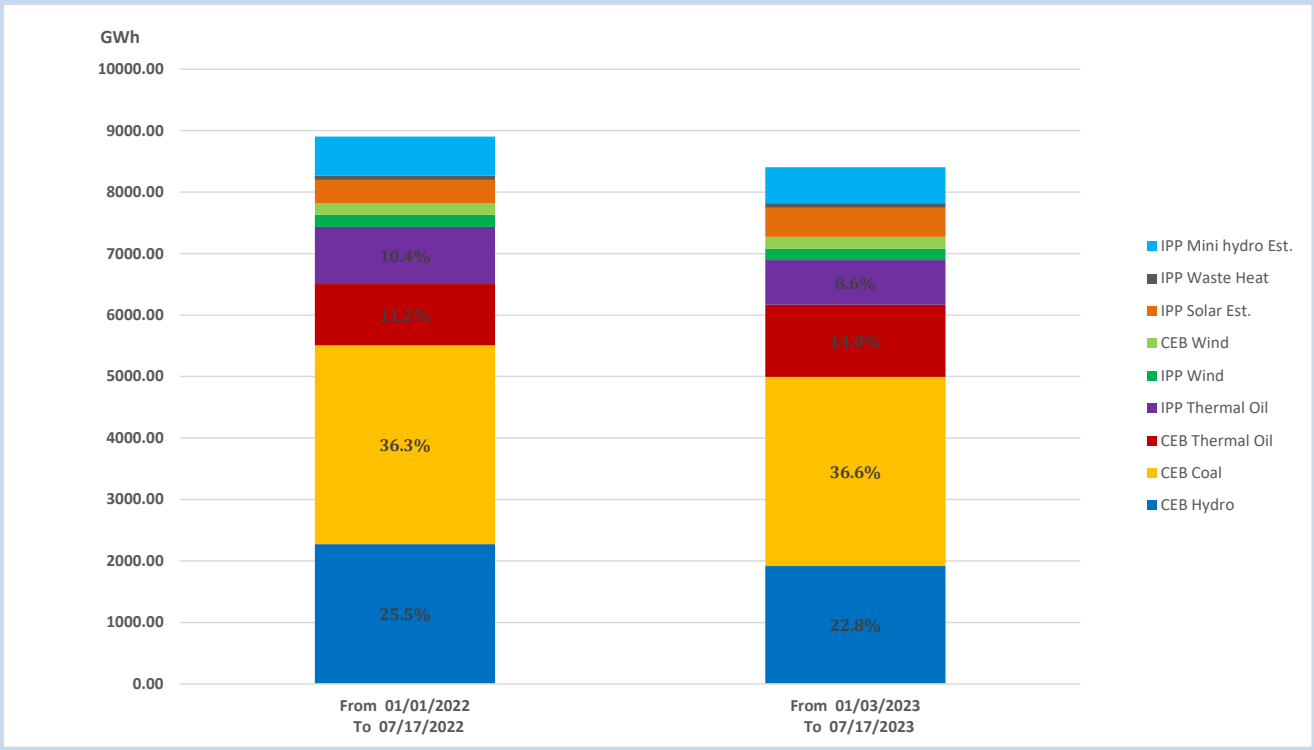


Solar Generation during July 17, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 07/17/2022	**8905 GWh**
From 01/01/2023 To 07/13/2023	**8405 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 17, 2023

1) New Laxapana Unit 02 was performed a forced shutdown at 10.31hrs due to high vibrations. The unit resumed generation at 14:47hrs.

2) LVPS Unit 01 de-loaded up to 240MW(net) and 200MW(net) at 10:08 and 11:55hrs respectively, due to a steam leak in HP heater vent.
The unit reached full load at 15:20hrs.
3) Kaluthara 132/33kV T/F 02 tripped at 04:23hrs(18.07.2023) due to the operation of LV REF protection. The T/F is yet to resume generation.

4) LVPS Unit 01 is being performed a forced shutdown from 05:31hrs(18.07.2023) due steam leak at boiler tubes. The net generation of
LVPS Unit 01 during the shutdown process is 240MW at 06:00hrs(18.07.2023).