

Generation and Reservoirs Statistics

July 12, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

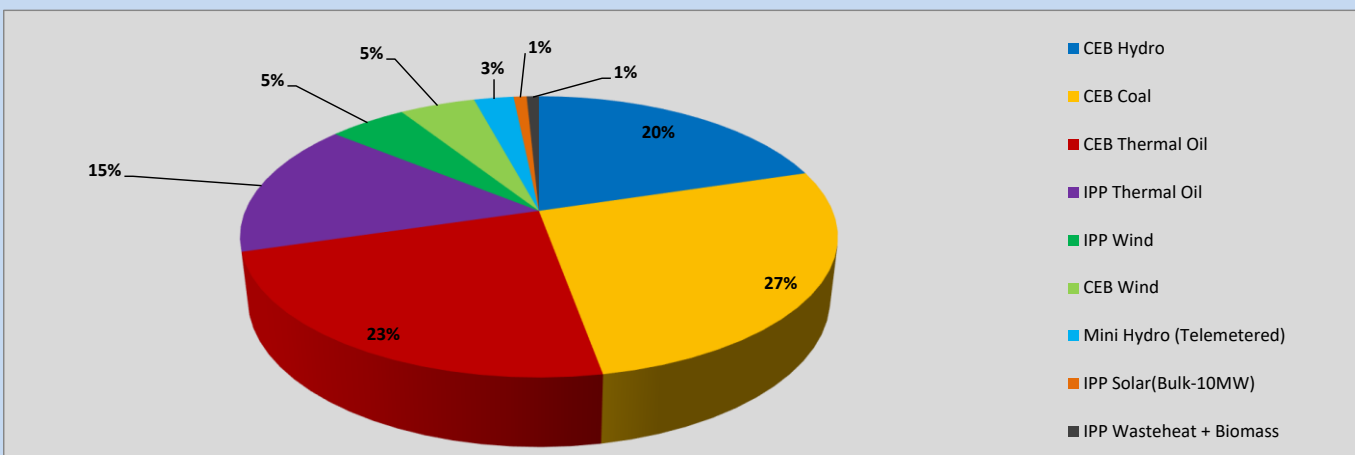


Table 01

CEB Hydro	8,462	MWh
CEB Coal	11,204	MWh
CEB Thermal Oil	9,699	MWh
IPP Thermal Oil	6,453	MWh
IPP Wind	2,104	MWh
CEB Wind	2,040	MWh
Mini Hydro (Telemetered)	1,070	MWh
IPP Solar (Bulk)	354	MWh
IPP Wasteheat + Biomass	328	MWh
Total Generation (Excluding estimated figures)	41,714	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	2440	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	46,108	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

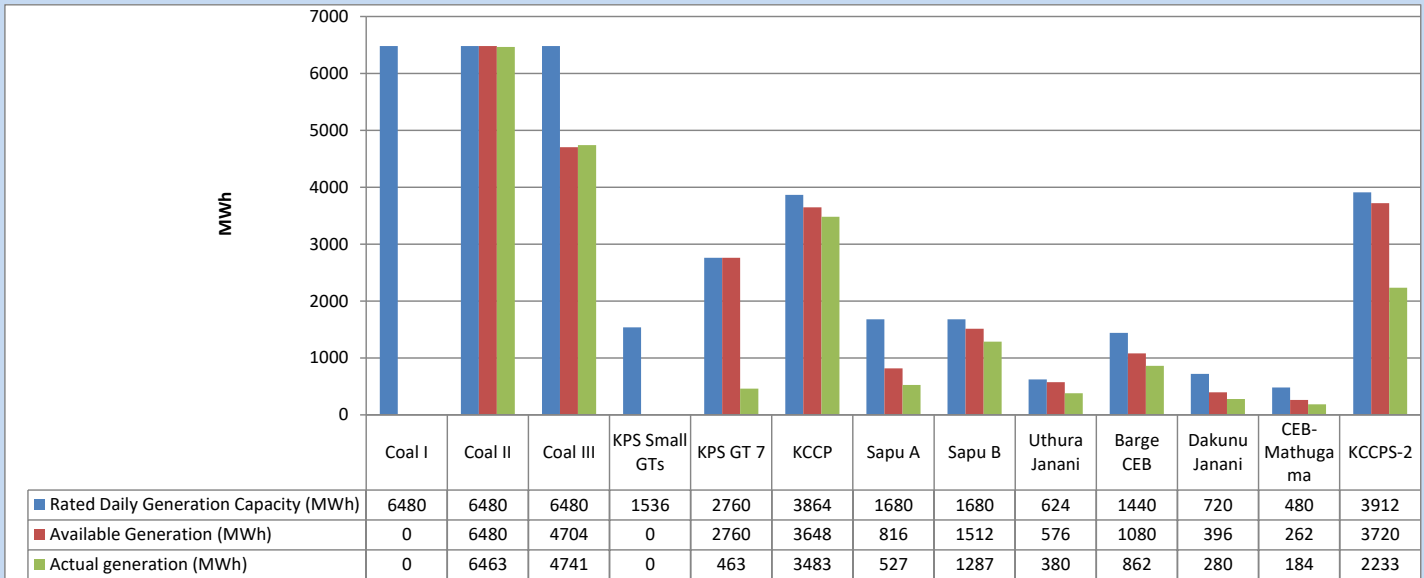
Category	Dispatch (GWh)	
CEB Hydro	140	31.75%
CEB Coal	131	29.56%
CEB Thermal Oil	60	13.50%
IPP Thermal	44	9.95%
SPP Wind	21	4.85%
CEB Wind	19	4.33%
Mini Hydro (Telemetered)	19	4.40%
IPP Solar (Bulk-10MW)	3	0.76%
IPP Wasteheat + BMP	4	0.90%
Total	442	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,878	25.40%
CEB Coal	3,014	40.75%
CEB Thermal Oil	1,143	15.46%
IPP Thermal	698	9.44%
SPP Wind	173	2.33%
CEB Wind	183	2.48%
Mini Hydro (Telemetered)	185	2.51%
IPP Solar (Bulk-10MW)	56	0.76%
IPP Wasteheat	64	0.87%
Total	7,395	

3. CEB owned Thermal Plant Dispatch

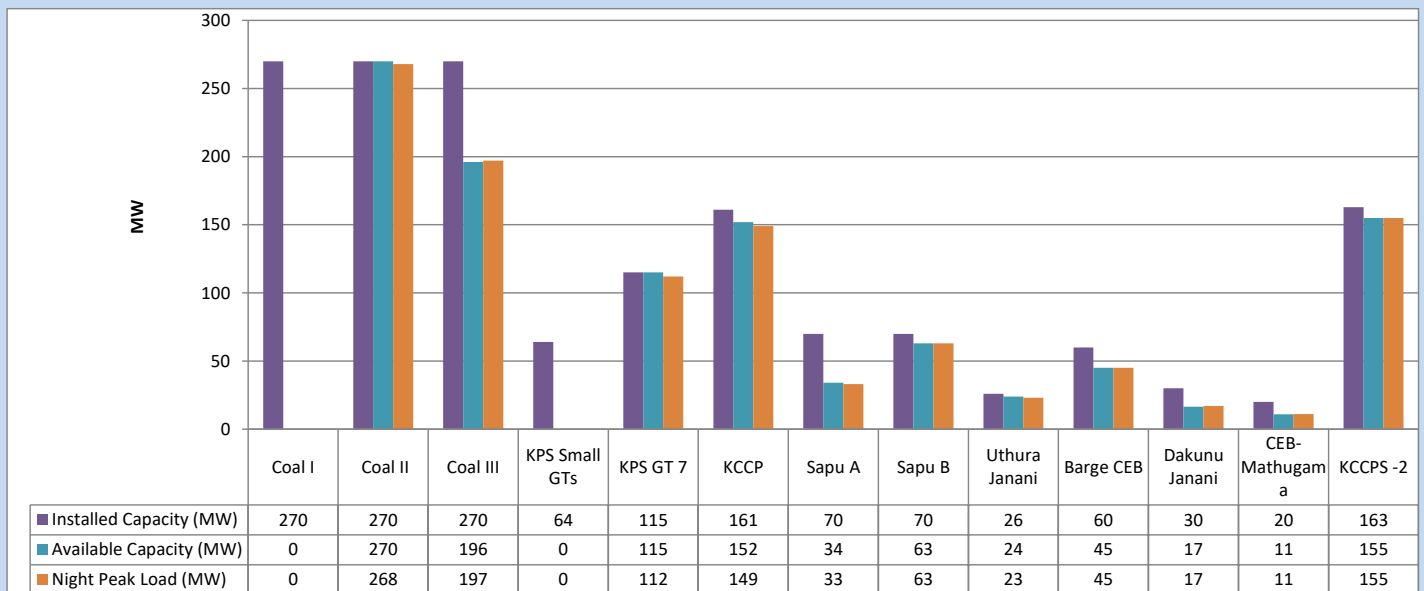
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Available Generation is estimated based on plant availability at 6.00am on

July 13, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

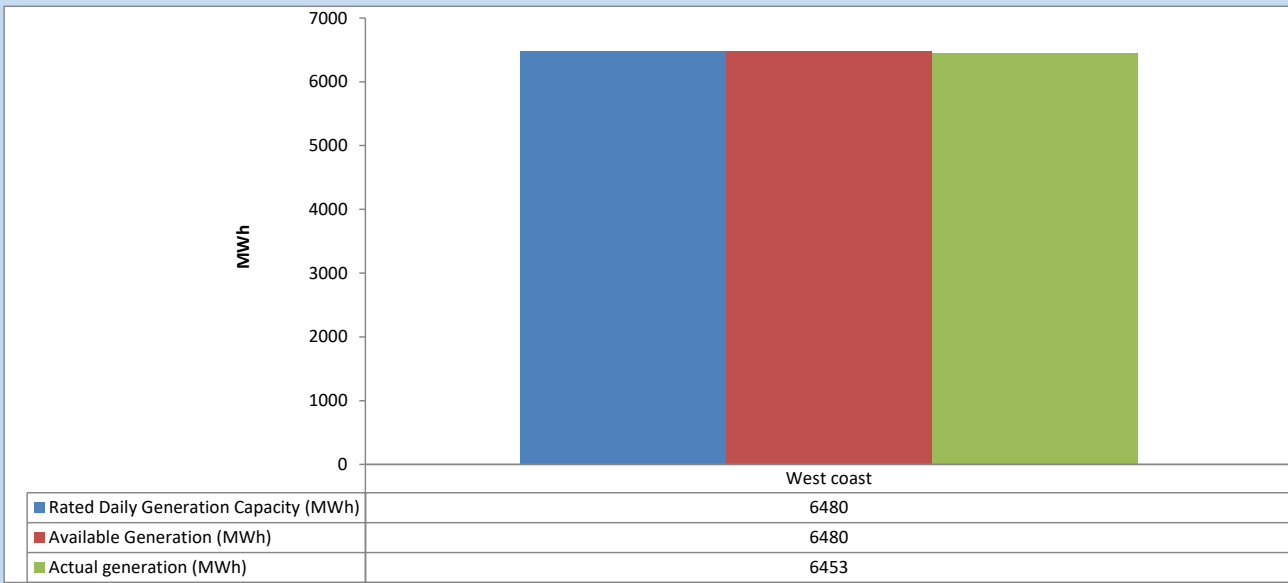


Plant availability is recorded at 6.00 am on

July 13, 2023

5. IPP owned Thermal Plant Dispatch

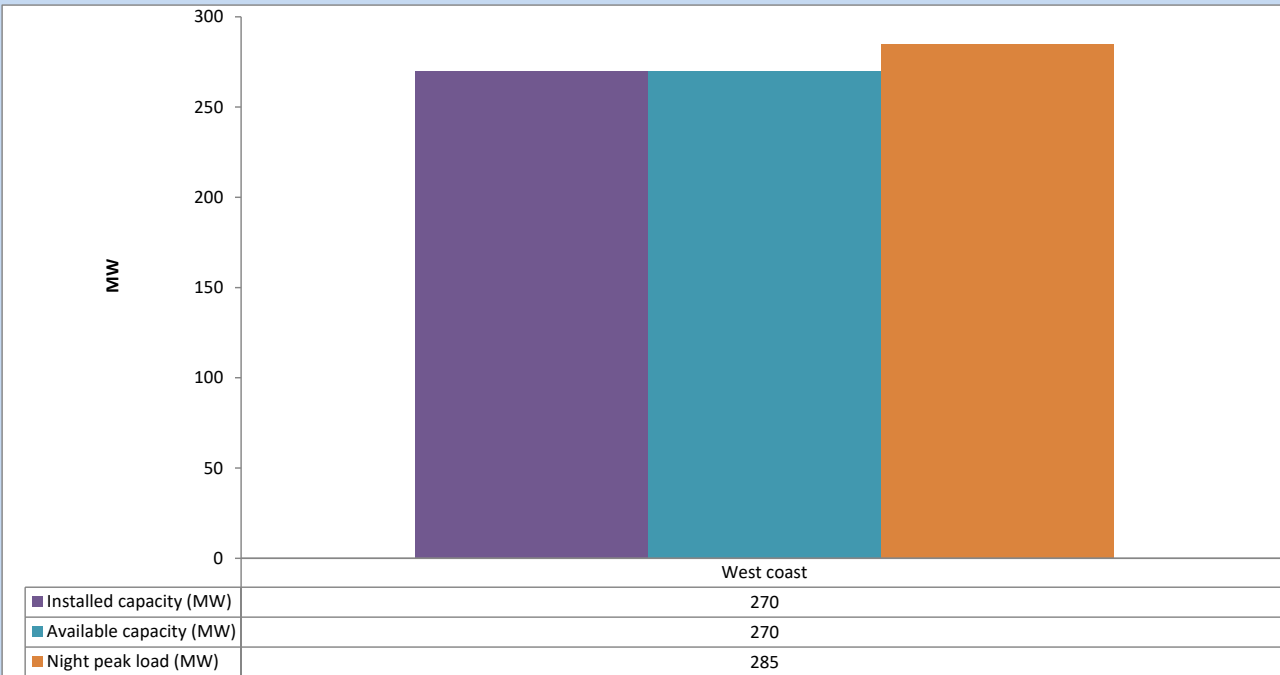
July 12, 2023



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

July 13, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

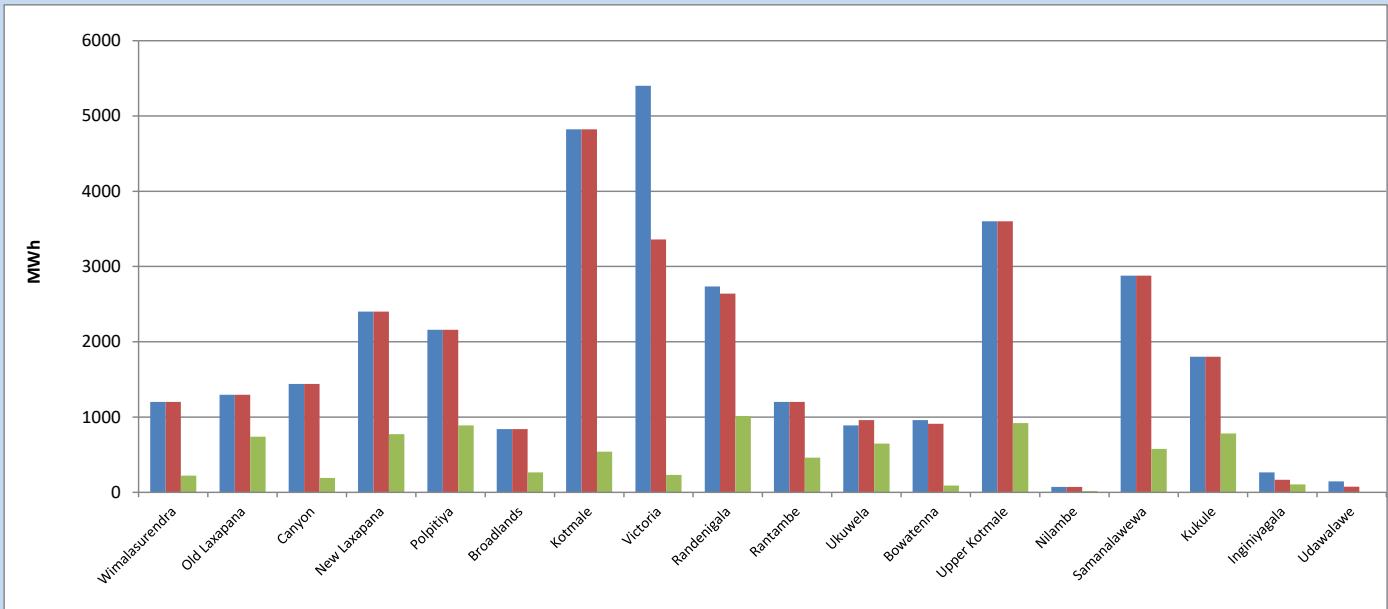


Plant availability is recorded at 6.00 am on

July 13, 2023

7. Major Hydro Plant Dispatch

July 12, 2023

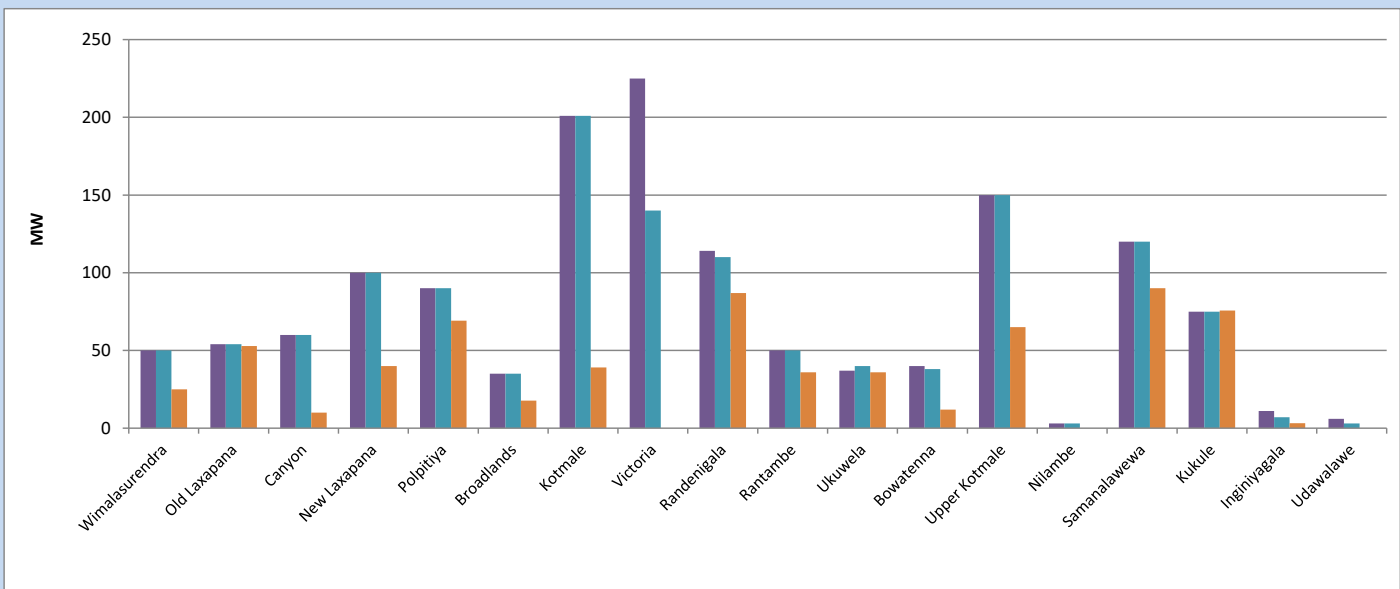


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 13, 2023

8. Major Hydro Plant Loading at Night Peak

July 12, 2023



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

July 13, 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	25	221
Old Laxapana	54	54	53	738
Canyon	60	60	10	190
New Laxapana	100	100	40	774
Polpitiya	90	90	69	890
Broadlands	35	35	18	264
Kotmale	201	201	39	540
Victoria	225	140	0	231
Randenigala	114	110	87	1,014
Rantambe	50	50	36	461
Ukuwela	37	40	36	648
Bowatenna	40	38	12	91
Upper Kotmale	150	150	65	919
Nilambe	3	3	0	16
Samanalawewa	120	120	90	577
Kukule	75	75	76	782
Inginiyagala	11	7	3	106
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,463
Puttalam Coal III	270	196	197	4,741
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	112	463
KCCP	161	152	149	3,483
Sapugaskanda A	70	34	33	527
Sapugaskanda B	70	63	63	1,287
Uthura Janani	26	24	23	380
Barge CEB	60	45	45	862
CEB-Hambantota	30	17	17	280
CEB-Mathugama	20	11	11	184
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	155	2,233
West Coast	270	270	285	6,453
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,678	2,201	41,714

Plant availability is the availability recorded at 6 am on

July 13, 2023

10. Contribution to the Night Peak in MW

July 12, 2023

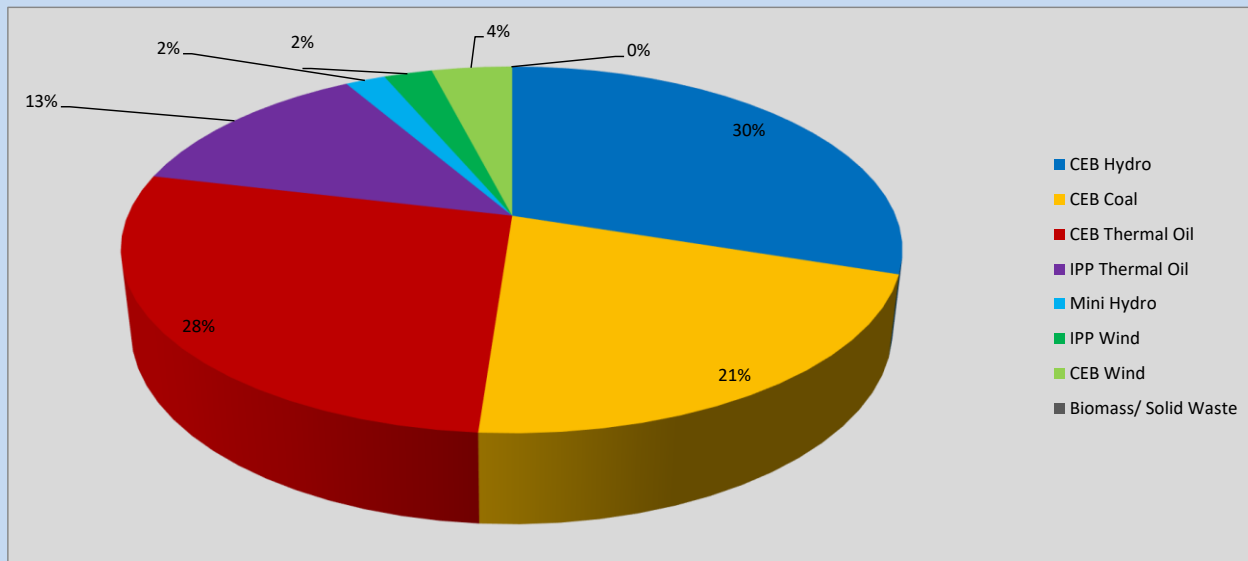


Table 05

CEB Hydro	663	MW
CEB Coal	465	MW
CEB Thermal Oil	608	MW
IPP Thermal Oil	285	MW
Mini Hydro (Telemetered)	44	MW
IPP Wind	52.7	MW
CEB Wind	87.7	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

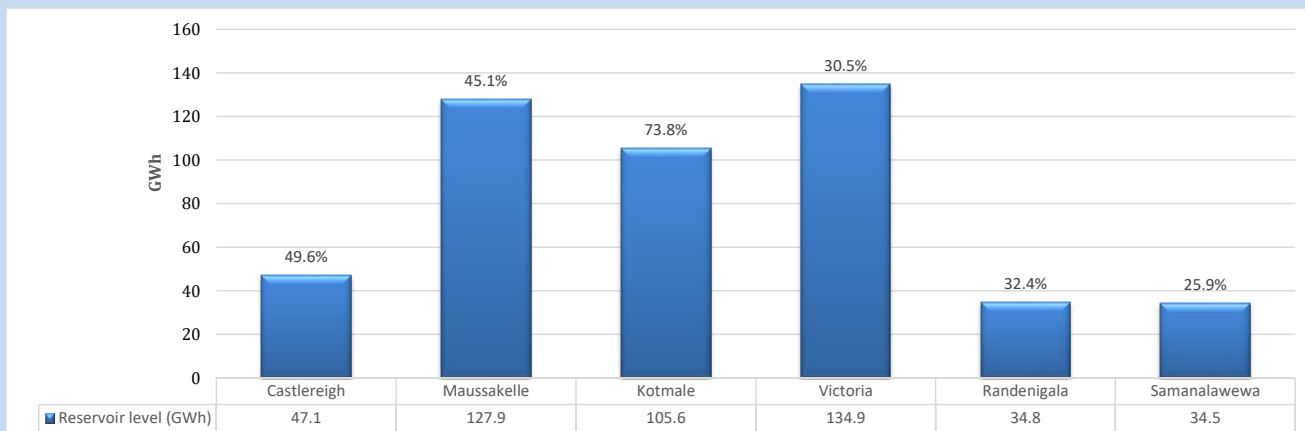
Table 06

Night Peak*	2,205	MW
Day Peak Maximum Demand	1,945	MW
Day Peak Minimum Demand	1,694	MW
Off Peak Minimum Demand	1,246	MW

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

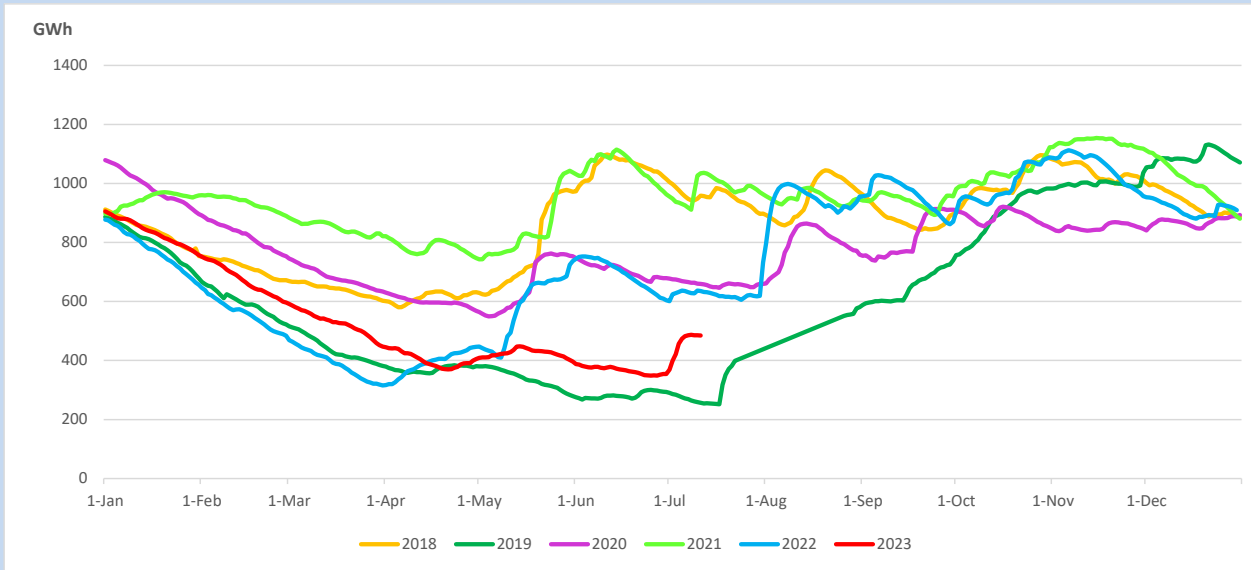
Reservoir Levels -

as at 06.00 Hr on July 13, 2023

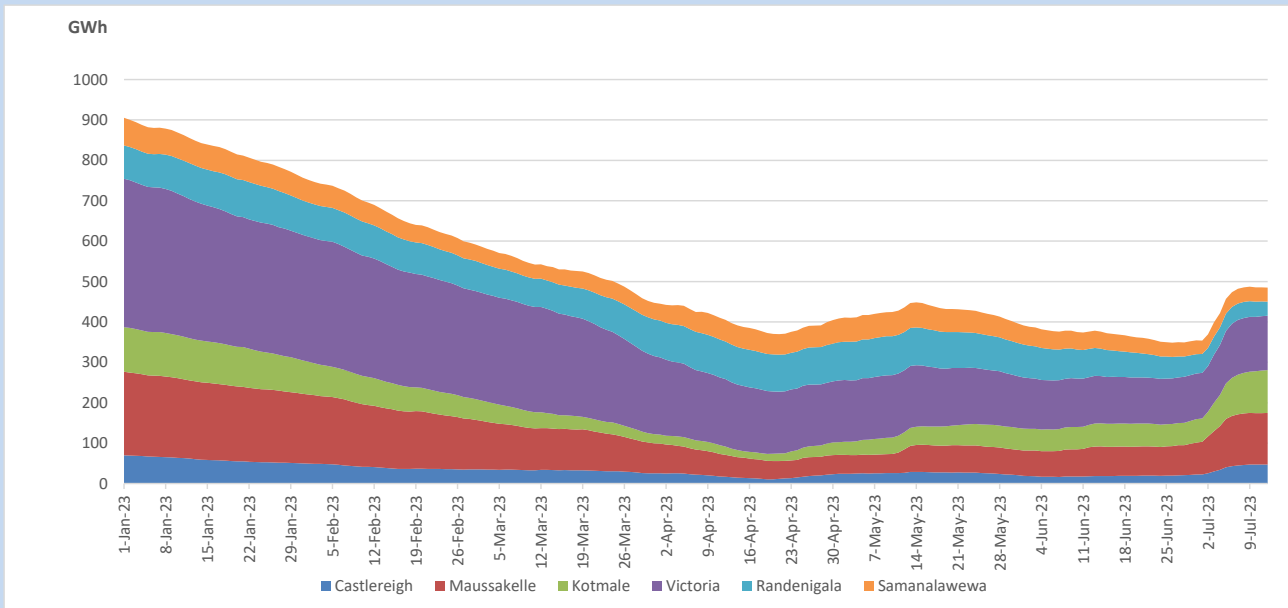


Total Reservoir Level 484.8 GWh
% of Total capacity 40.2%

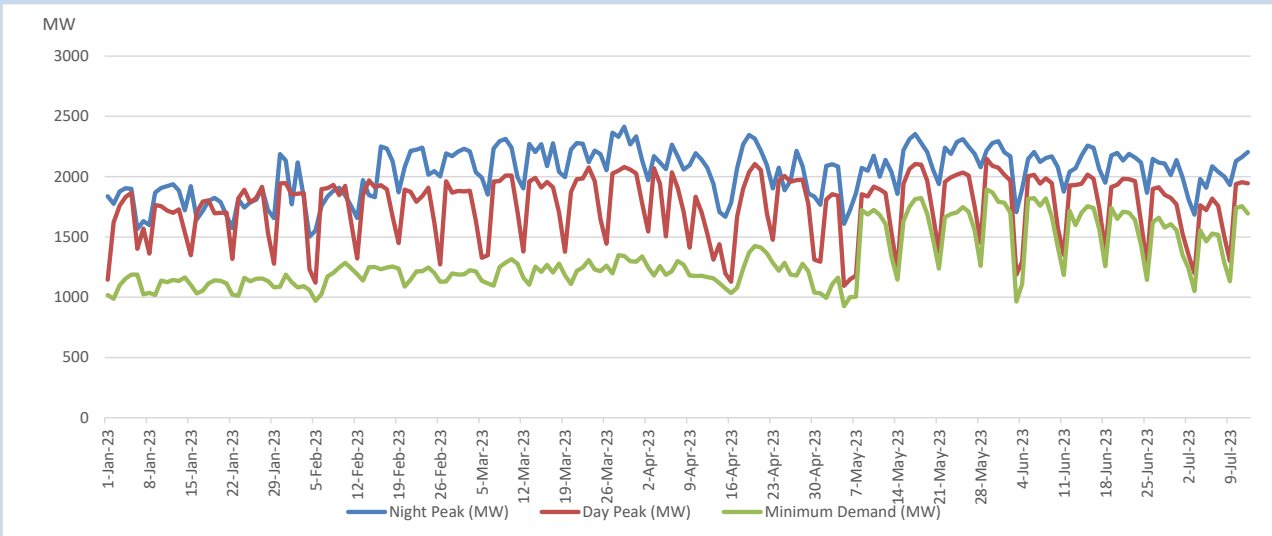
11. Comparison of Total Reservoir Storage Levels with Past Years



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



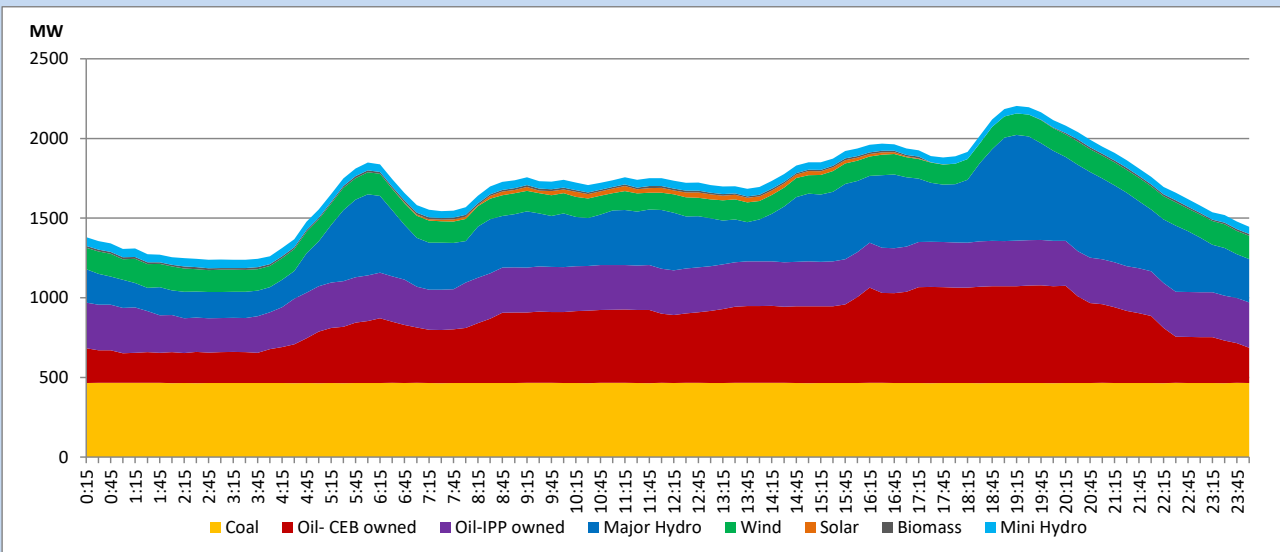
13. Variation of Demand during the current year



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

14. Daily Load Curve

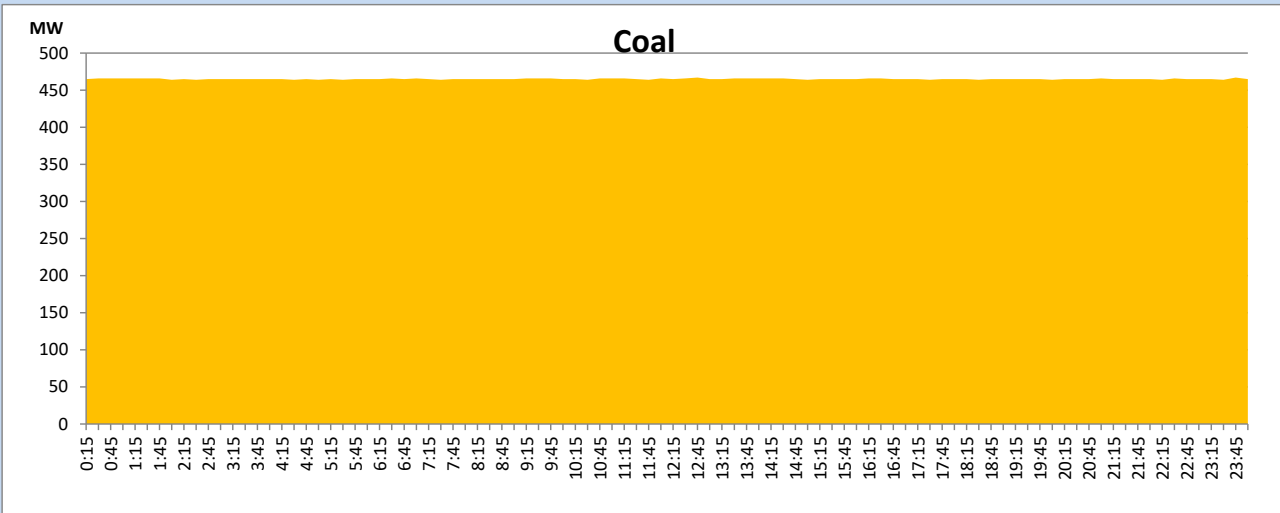
July 12, 2023



Solar and wind data is based on Telemetered Power Stations only

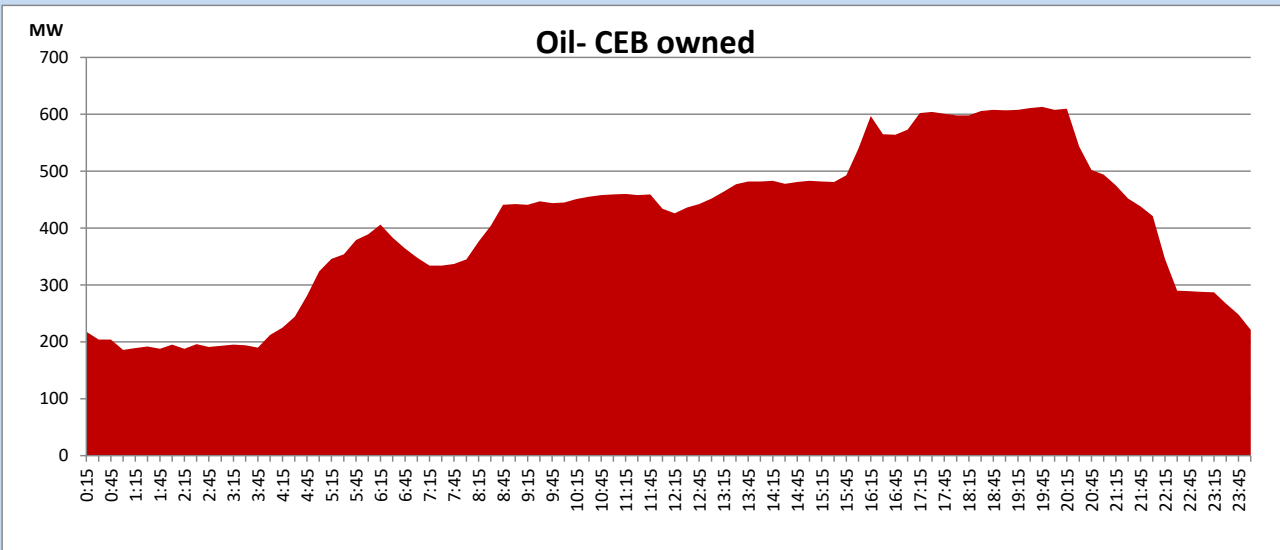
Coal Generation during

July 12, 2023



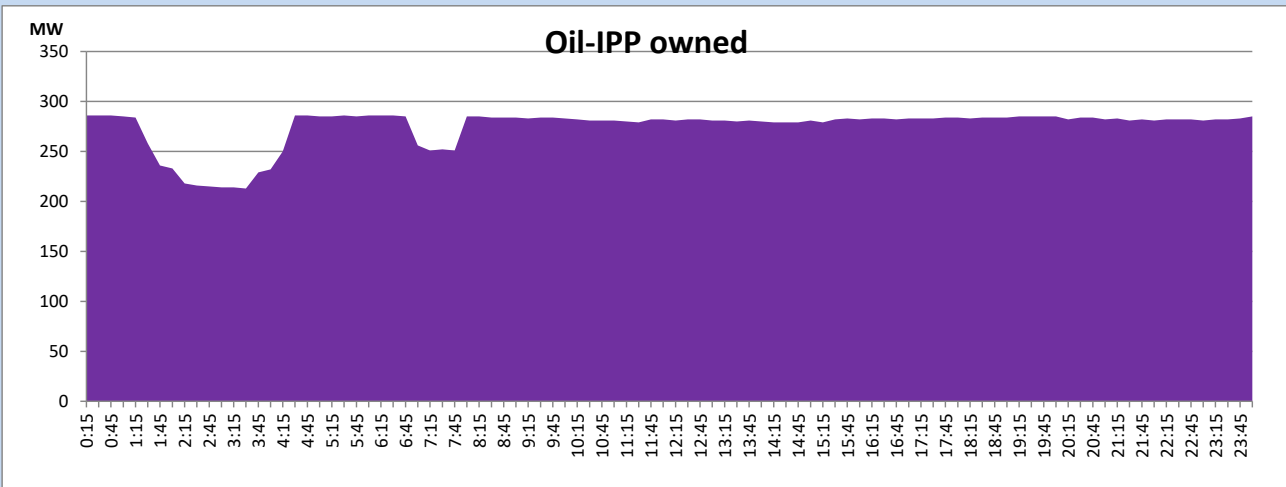
CEB Oil Plant Generation during

July 12, 2023



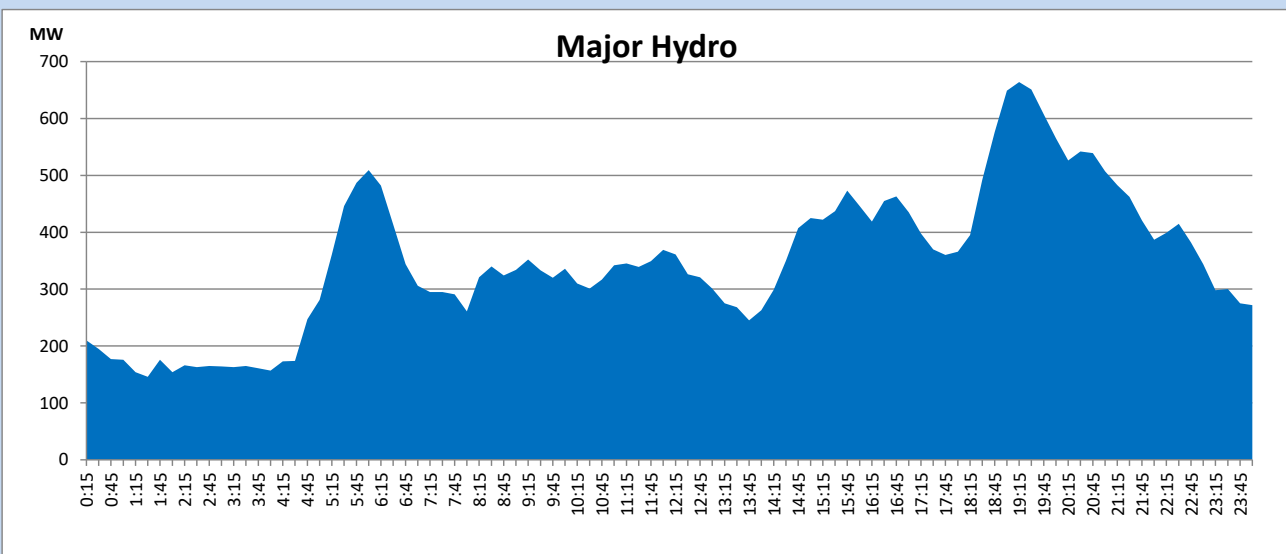
IPP Oil Plant Generation during

July 12, 2023



Major Hydro Generation during

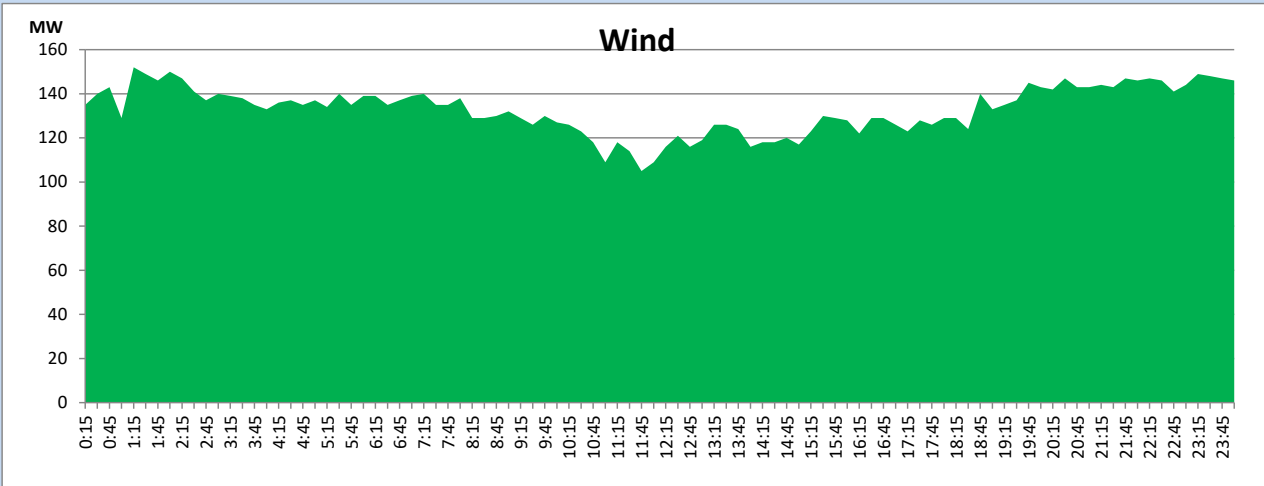
July 12, 2023



Wind Generation during

July 12, 2023

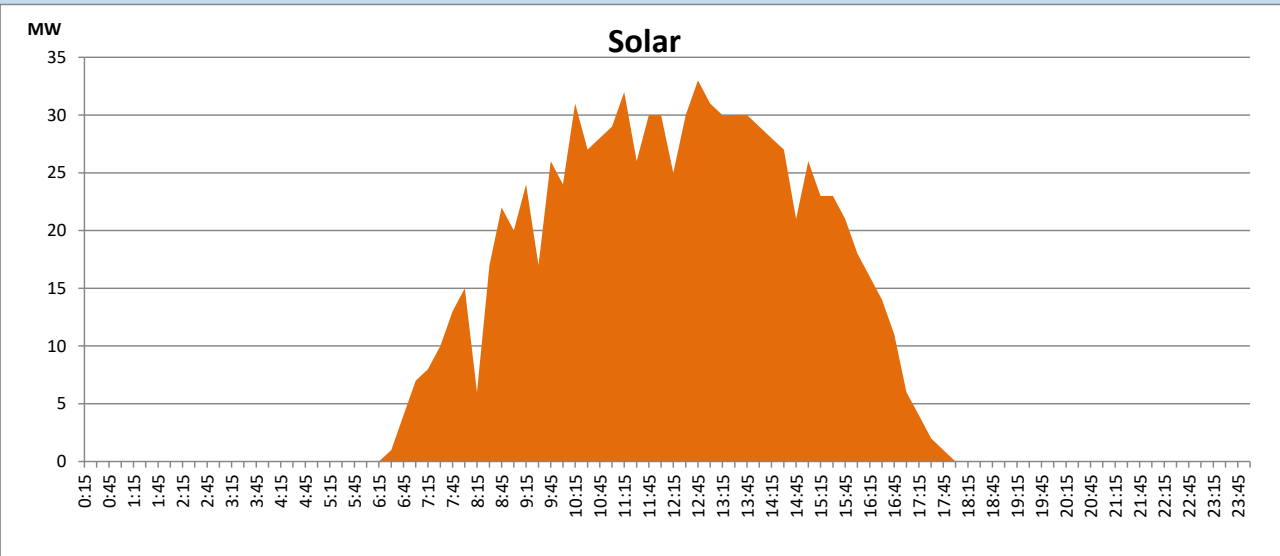
Based on Telemetered Power Stations only



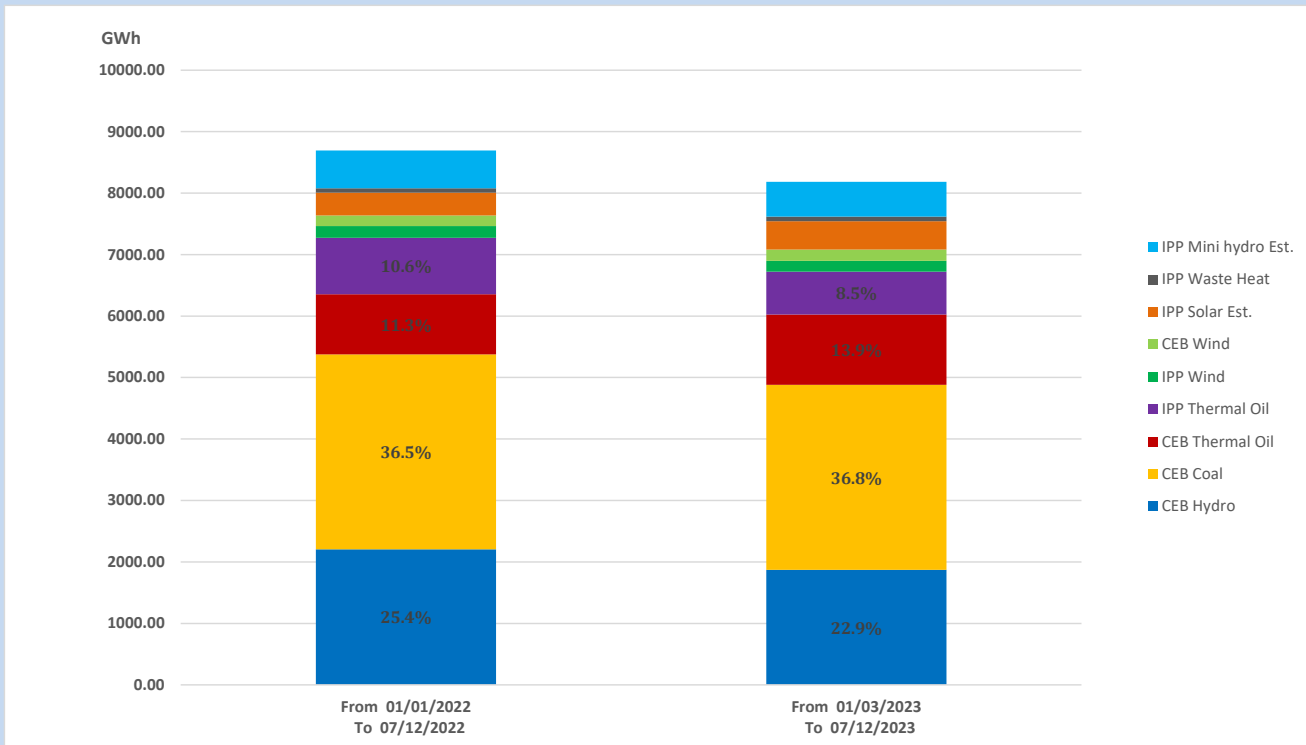
Solar Generation during

July 12, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 07/12/2022

8693 GWh

From 01/01/2023 To 07/12/2023

8184 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 12, 2023

- 1). Mathugama - Ambalangoda 132kV cct 01 tripped & A/R at 7:20hrs from both ends due to operation of Distance protection
- 2). Sapugaskanda PS unit 07 tripped at 8:07hrs due to a fuel leak. Sapugaskanda PS unit 07 resumed generation at 18:18hrs.
- 3). Kerawalapitiya GSS 33kV feeder 01, 02, & 03 tripped at 17:27hrs due to operation of O/C & E/F protection. At the same time, 220/33kV T/F 01 and 02 tripped from 33kV end only due to operation of O/C & E/F protection, causing all 33kV feeders to be dead. Kerawalapitiya GSS 220/33kV T/F 01 and 02 restored at 18:04hrs, and all 33kV feeders, except feeder 01, 02, 03, & 12, restored by 18:19hrs. Kerawalapitiya 33kV feeder 01, 02, 03, and 12 restored by 19:26hrs.