

Generation and Reservoirs Statistics

July 8, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

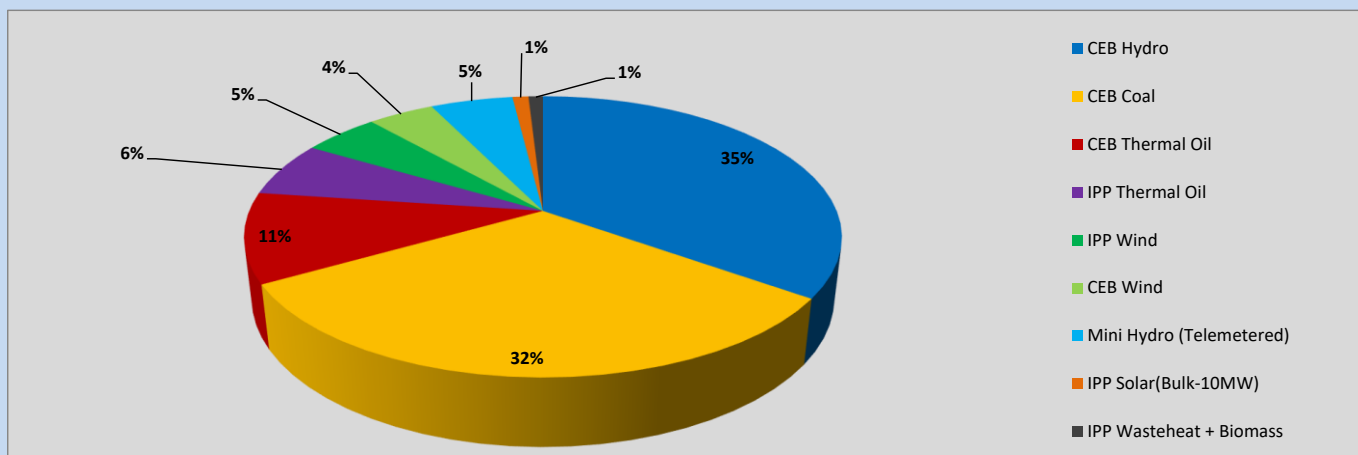


Table 01

CEB Hydro	12,259	MWh
CEB Coal	11,270	MWh
CEB Thermal Oil	3,644	MWh
IPP Thermal Oil	2,228	MWh
IPP Wind	1,738	MWh
CEB Wind	1,510	MWh
Mini Hydro (Telemetered)	1,879	MWh
IPP Solar (Bulk)	365	MWh
IPP Wasteheat + Biomass	328	MWh
Total Generation (Excluding estimated figures)	35,221	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	1631	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	38,806	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

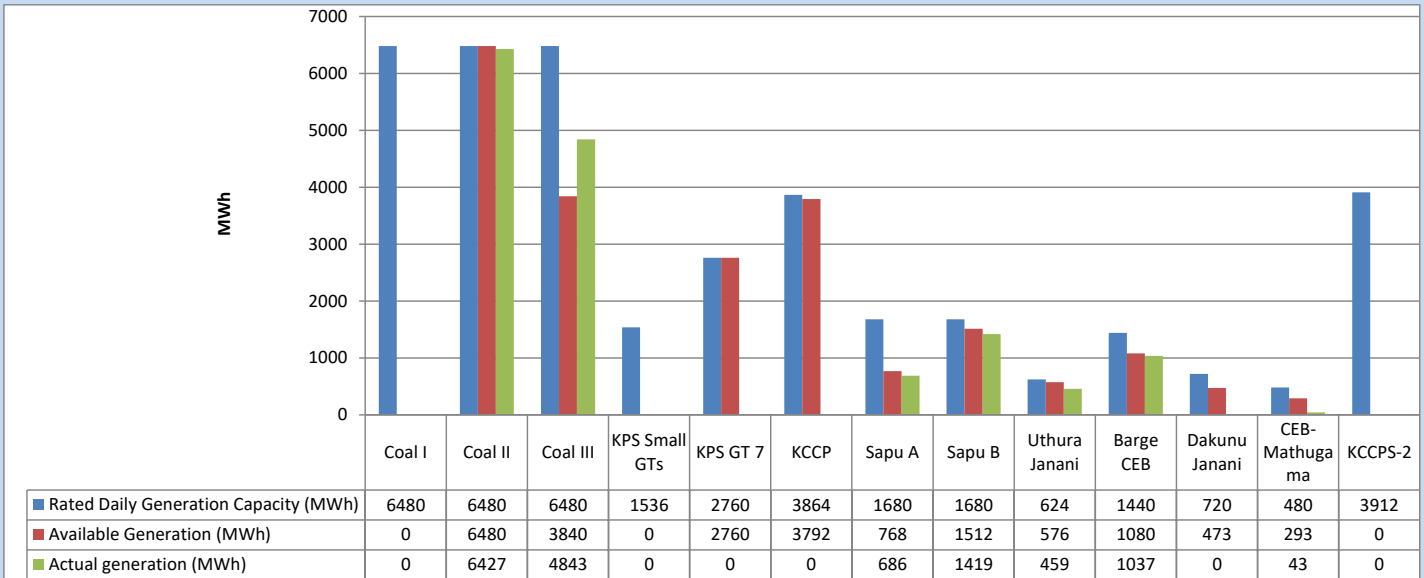
Category	Dispatch (GWh)	
CEB Hydro	99	34.80%
CEB Coal	86	30.20%
CEB Thermal Oil	30	10.39%
IPP Thermal	21	7.51%
SPP Wind	16	5.55%
CEB Wind	14	4.89%
Mini Hydro (Telemetered)	14	5.01%
IPP Solar (Bulk-10MW)	2	0.75%
IPP Wasteheat + BMP	3	0.90%
Total	286	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,837	25.38%
CEB Coal	2,969	41.02%
CEB Thermal Oil	1,113	15.38%
IPP Thermal	675	9.33%
SPP Wind	167	2.31%
CEB Wind	178	2.46%
Mini Hydro (Telemetered)	180	2.49%
IPP Solar (Bulk-10MW)	55	0.76%
IPP Wasteheat	63	0.86%
Total	7,238	

3. CEB owned Thermal Plant Dispatch

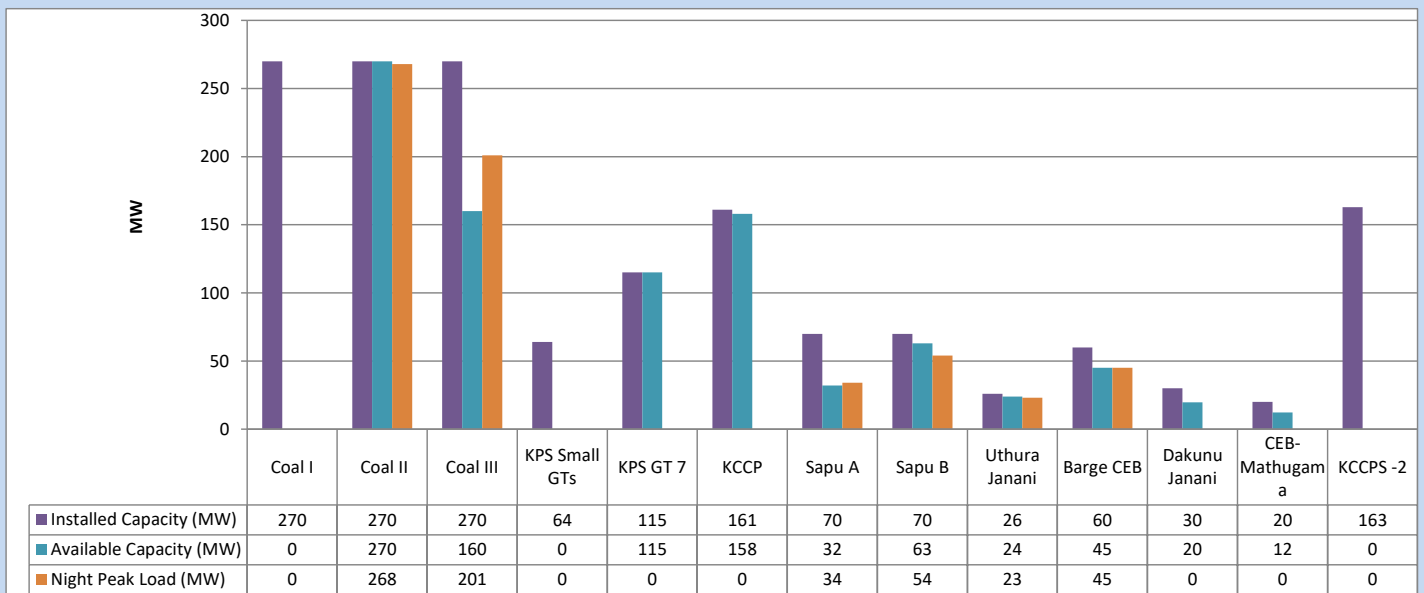
July 8, 2023



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

July 9, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

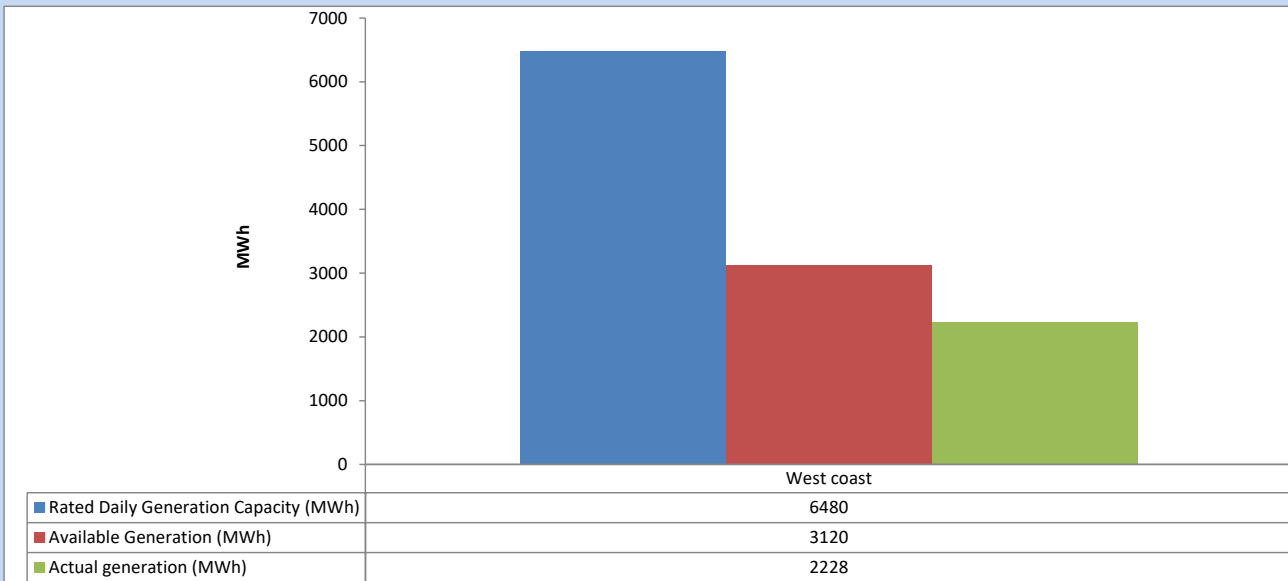


Plant availability is recorded at 6.00 am on

July 9, 2023

5. IPP owned Thermal Plant Dispatch

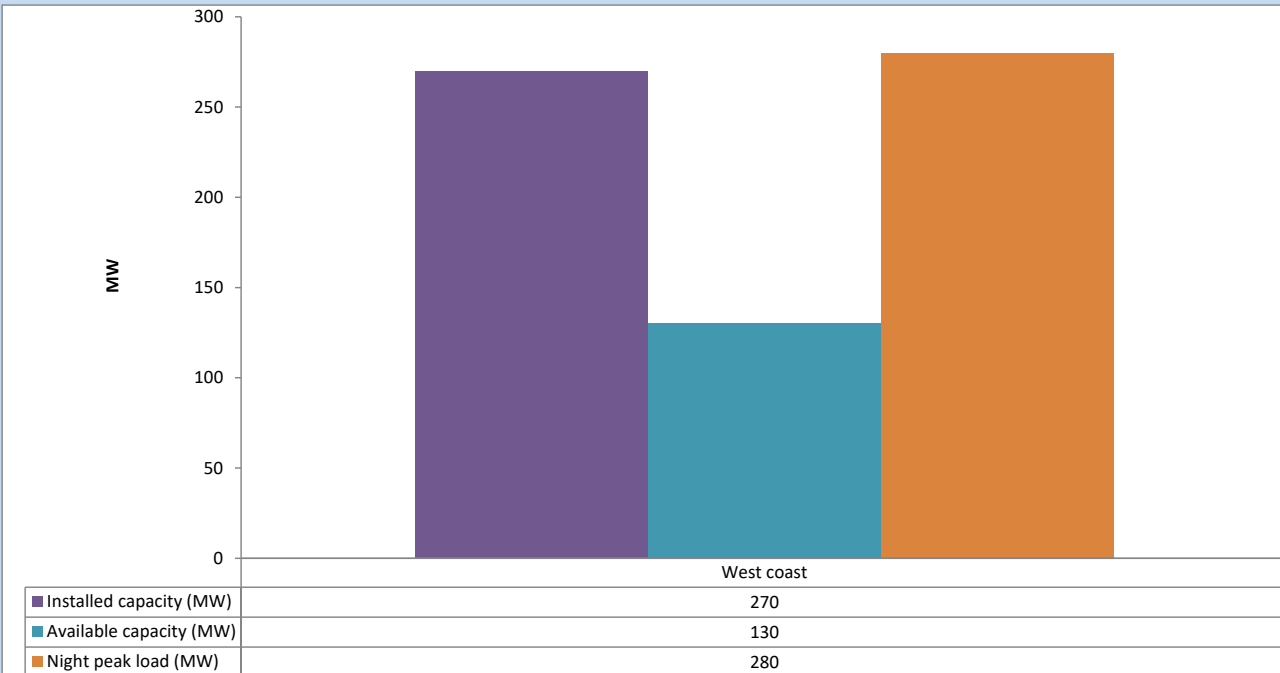
July 8, 2023



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

July 9, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

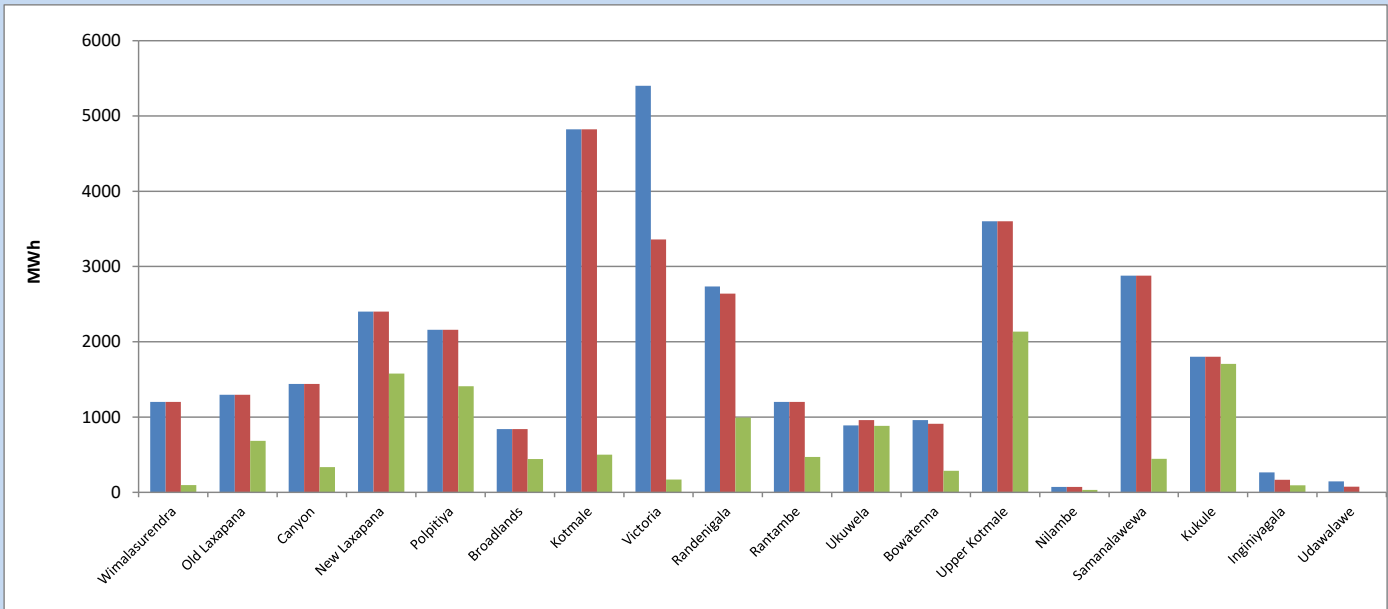


Plant availability is recorded at 6.00 am on

July 9, 2023

7. Major Hydro Plant Dispatch

July 8, 2023

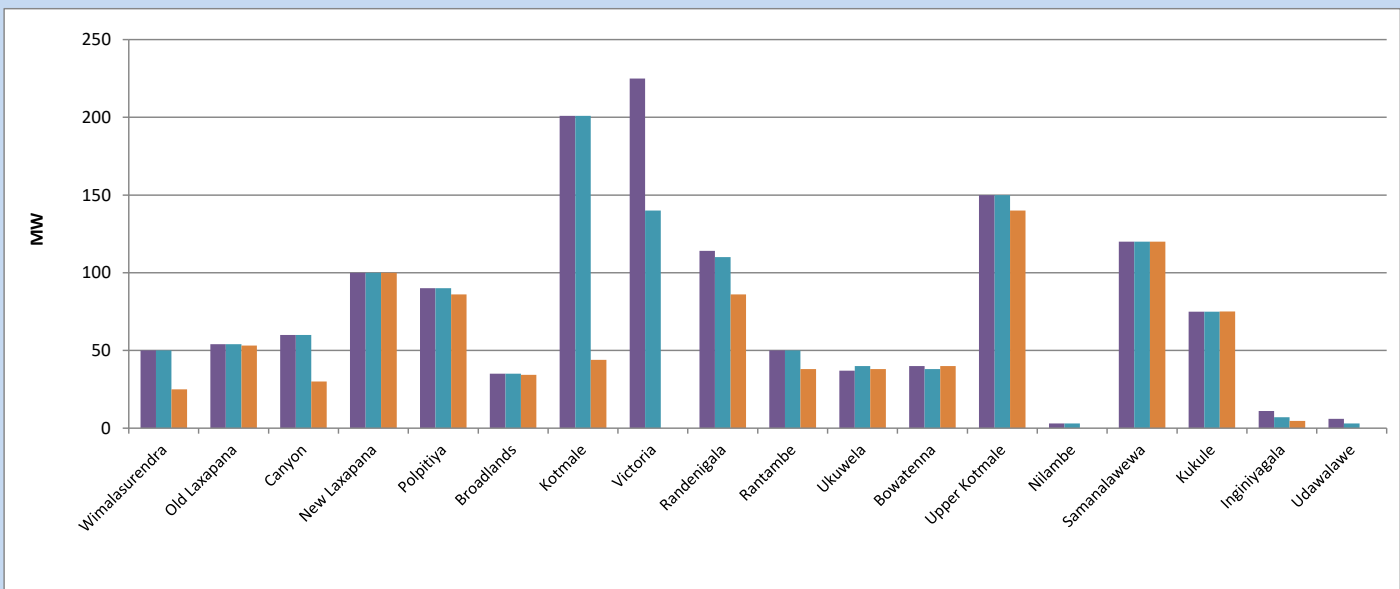


Available Generation is estimated based on plant availability at 6.00am on July 9, 2023
Broadlands power plant is operating in the Commissioning Stage

July 9, 2023

8. Major Hydro Plant Loading at Night Peak

July 8, 2023



Plant availability is recorded at 6.00 am on July 9, 2023
Broadlands power plant is operating in the Commissioning Stage

July 9, 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	97
Old Laxapana	54	54	53	683
Canyon	60	60	30	335
New Laxapana	100	100	100	1,579
Polpitiya	90	90	86	1,411
Broadlands	35	35	34	441
Kotmale	201	201	44	500
Victoria	225	140	0	171
Randenigala	114	110	86	993
Rantambe	50	50	38	469
Ukuwela	37	40	38	883
Bowatenna	40	38	40	287
Upper Kotmale	150	150	140	2,135
Nilambe	3	3	0	32
Samanalawewa	120	120	120	444
Kukule	75	75	75	1,705
Inginiyagala	11	7	5	94
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,427
Puttalam Coal III	270	160	201	4,843
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	158	0	0
Sapugaskanda A	70	32	34	686
Sapugaskanda B	70	63	54	1,419
Uthura Janani	26	24	23	459
Barge CEB	60	45	45	1,037
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	12	0	43
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	130	280	2,228
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,355	2,000	35,221

Plant availability is the availability recorded at 6 am on

July 9, 2023

10. Contribution to the Night Peak in MW

July 8, 2023

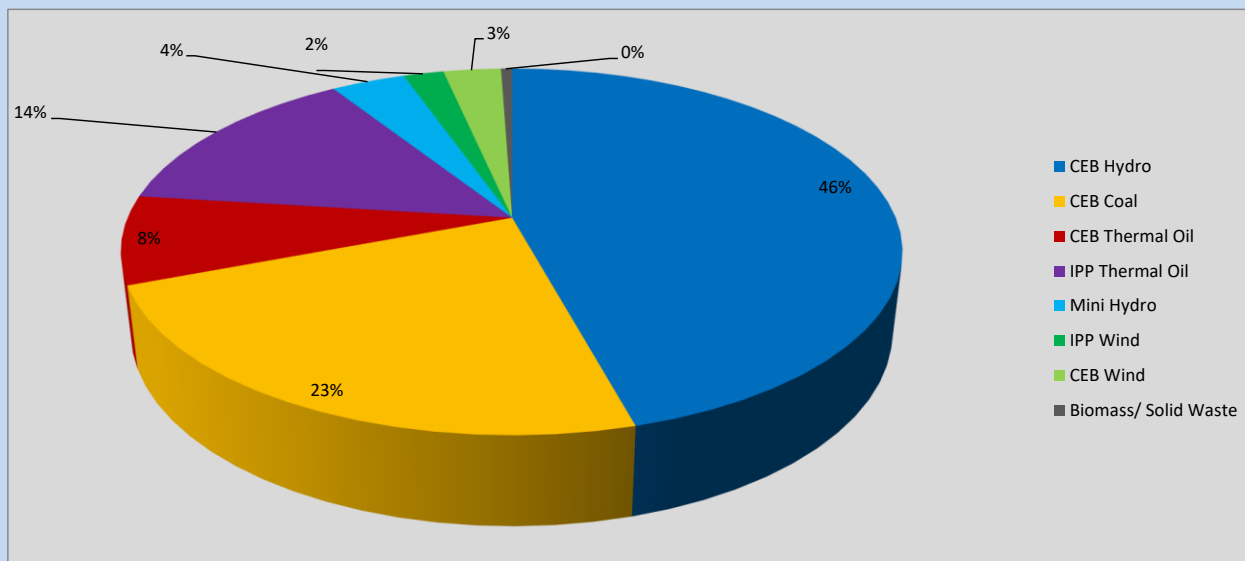


Table 05

CEB Hydro	916	MW
CEB Coal	469	MW
CEB Thermal Oil	156	MW
IPP Thermal Oil	280	MW
Mini Hydro (Telemetered)	73	MW
IPP Wind	39.7	MW
CEB Wind	57	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

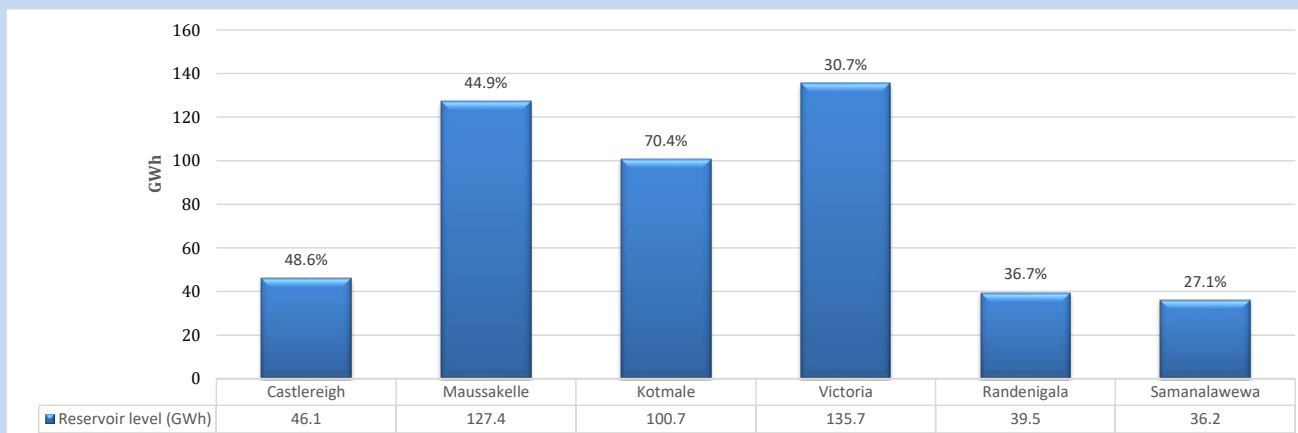
Table 06

Night Peak*	2,002	MW
Day Peak Maximum Demand	1,506	MW
Day Peak Minimum Demand	1,289	MW
Off Peak Minimum Demand	1,108	MW

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

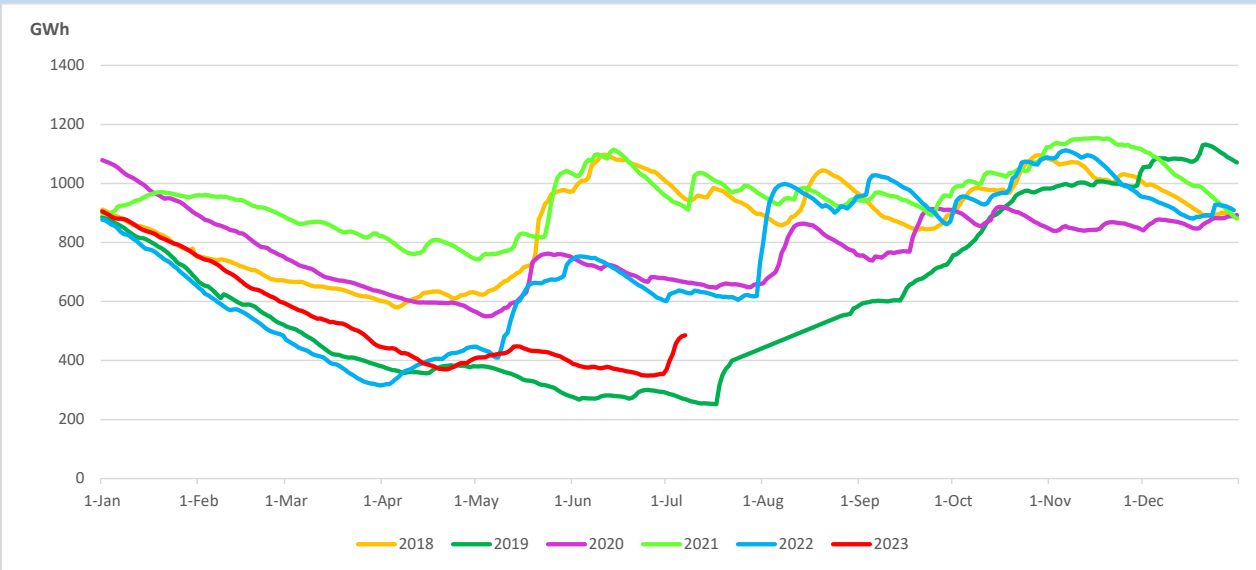
Reservoir Levels -

as at 06.00 Hr on July 9, 2023

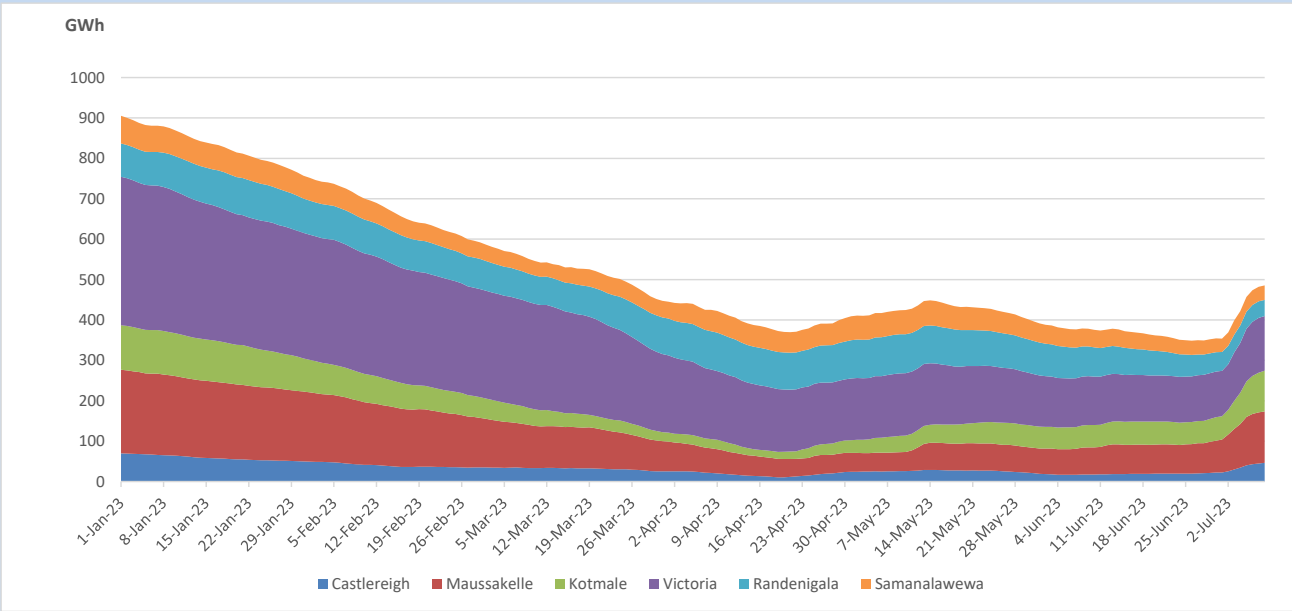


Total Reservoir Level 485.6 GWh
 % of Total capacity 40.3%

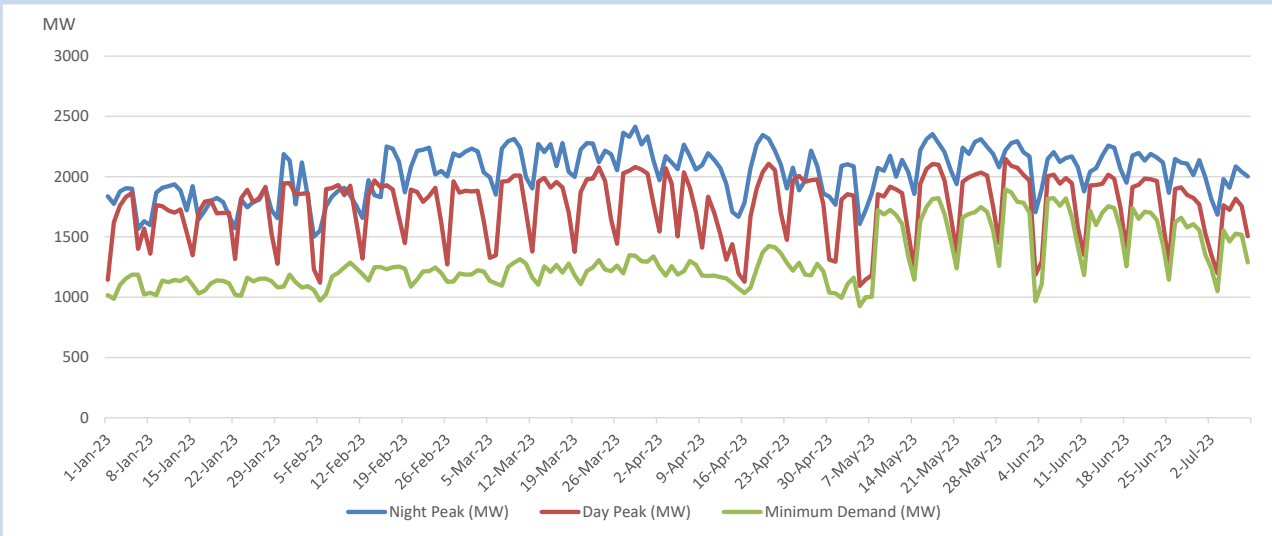
11. Comparison of Total Reservoir Storage Levels with Past Years



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



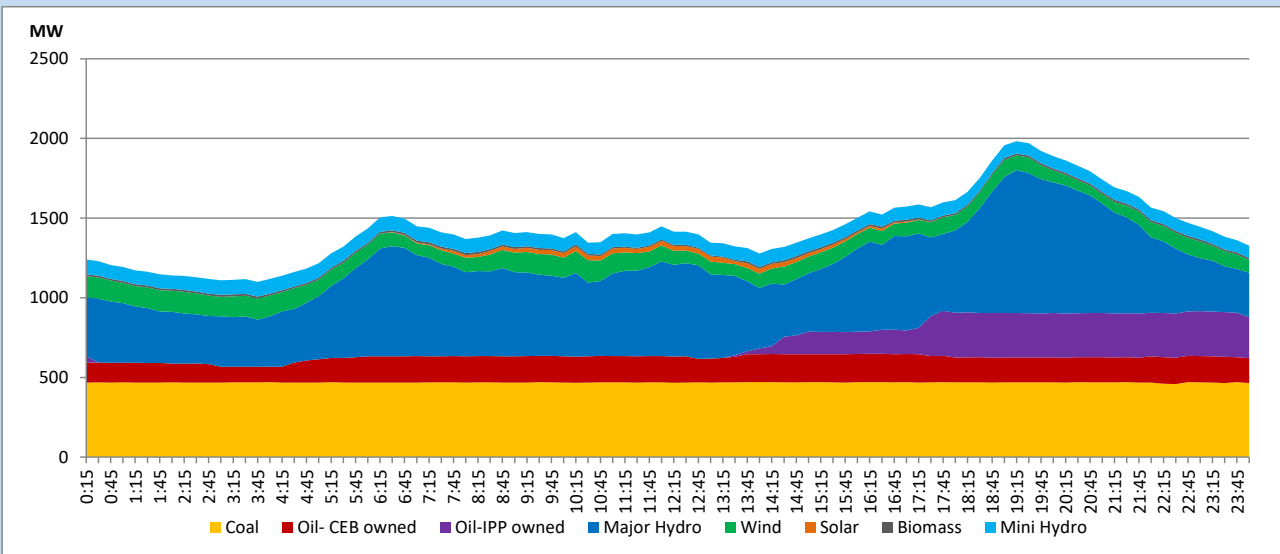
13. Variation of Demand during the current year



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

14. Daily Load Curve

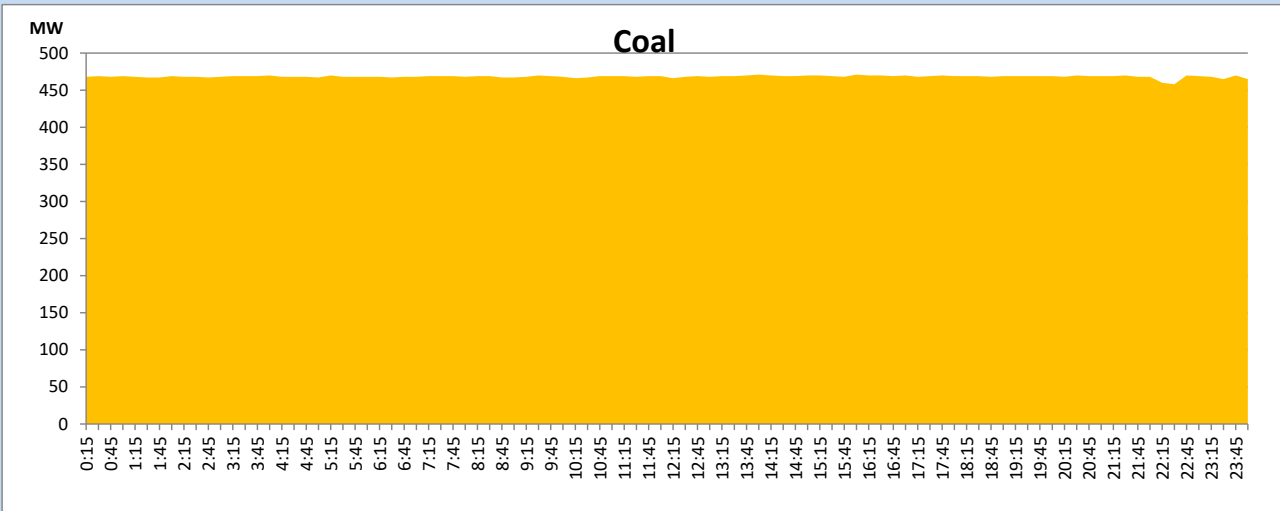
July 8, 2023



Solar and wind data is based on Telemetered Power Stations only

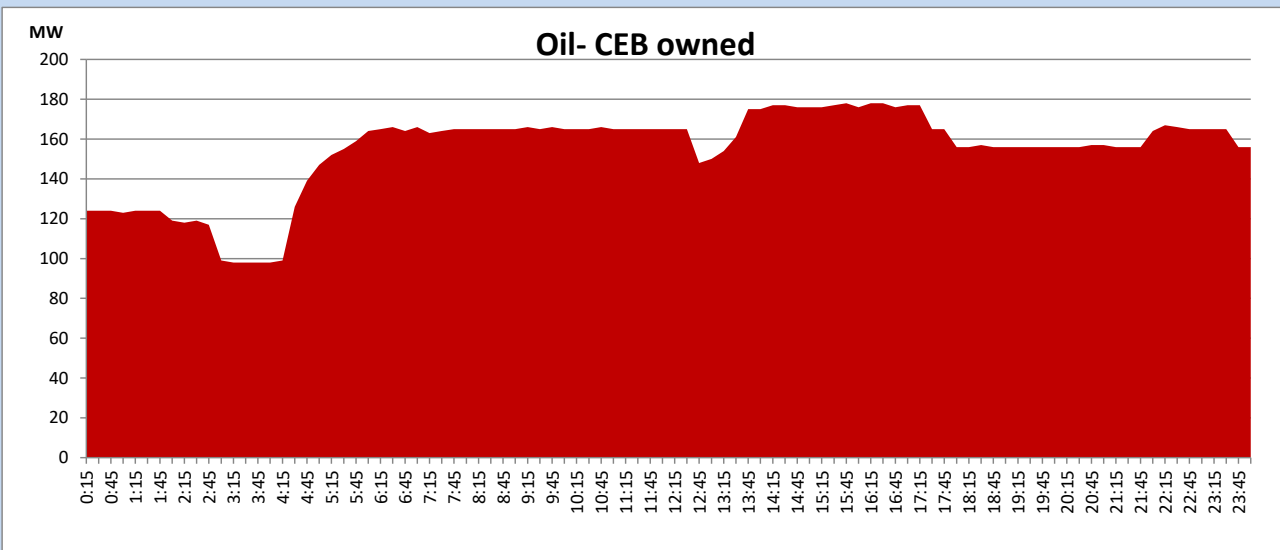
Coal Generation during

July 8, 2023



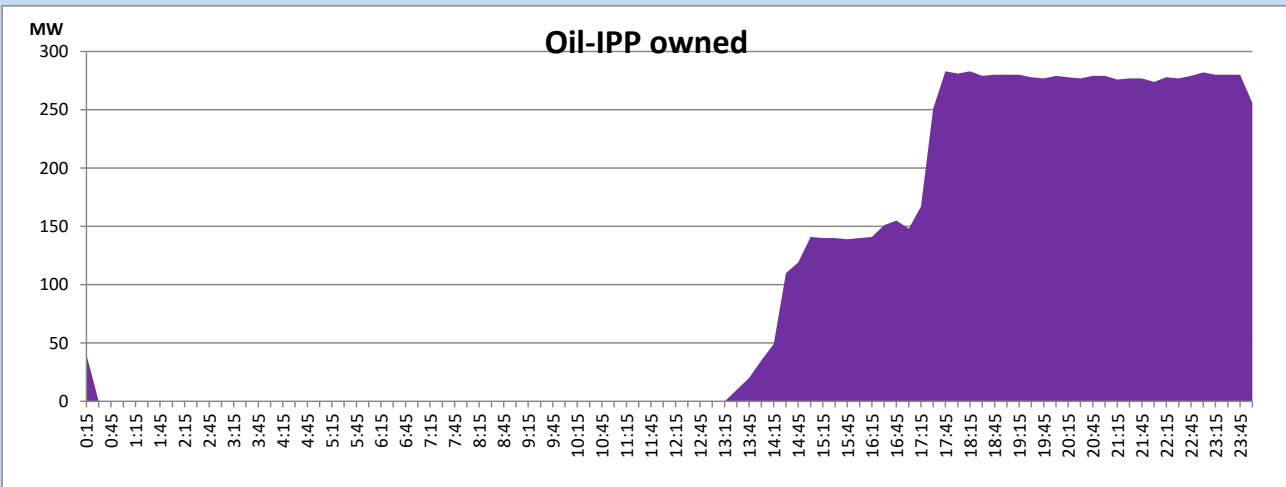
CEB Oil Plant Generation during

July 8, 2023



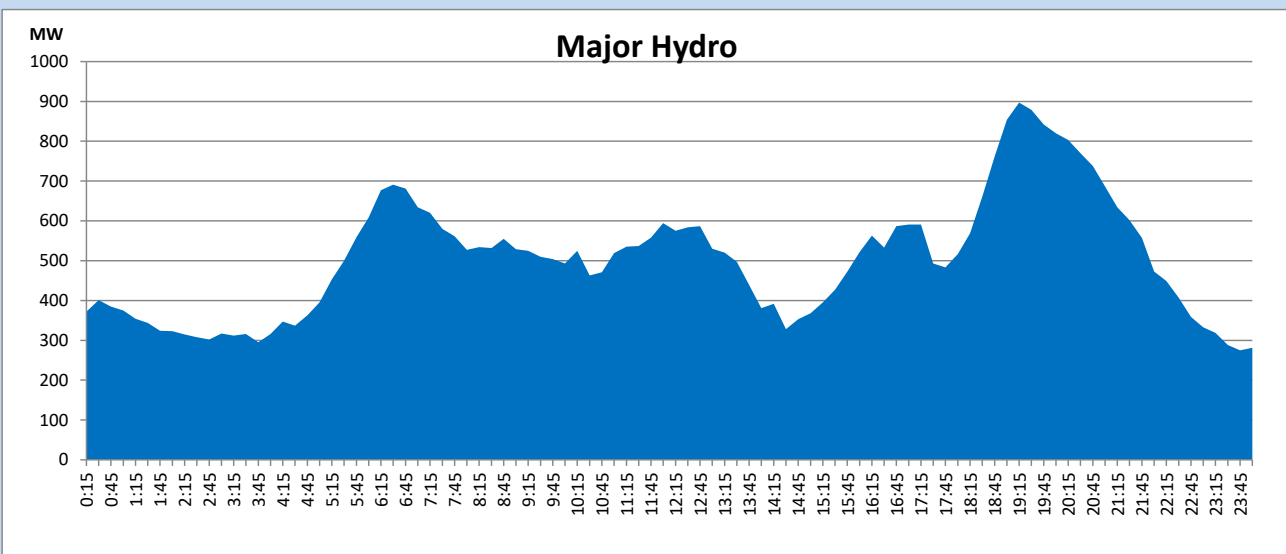
IPP Oil Plant Generation during

July 8, 2023



Major Hydro Generation during

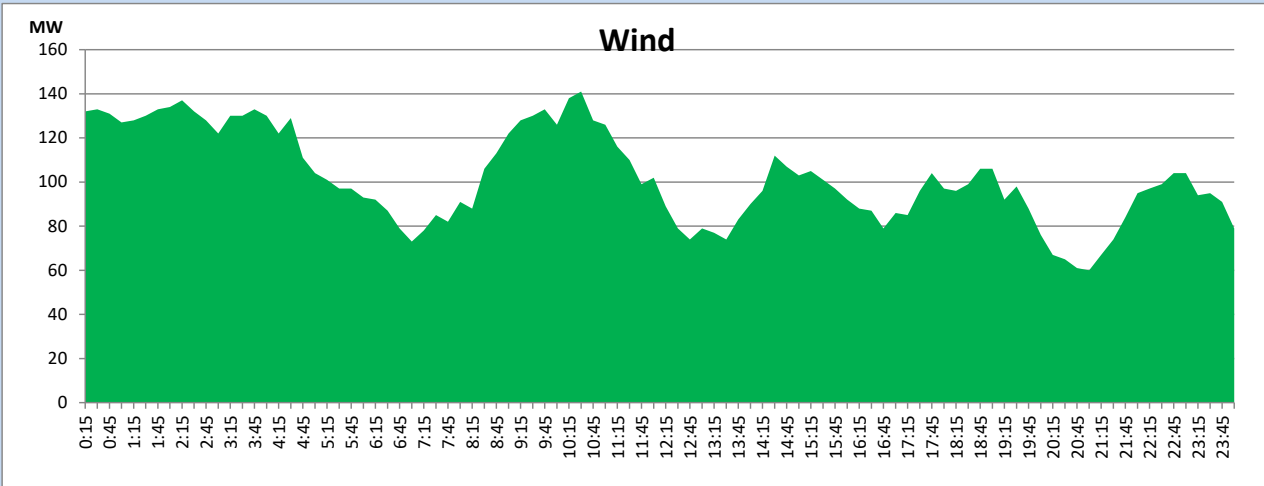
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Wind Generation during

July 8, 2023

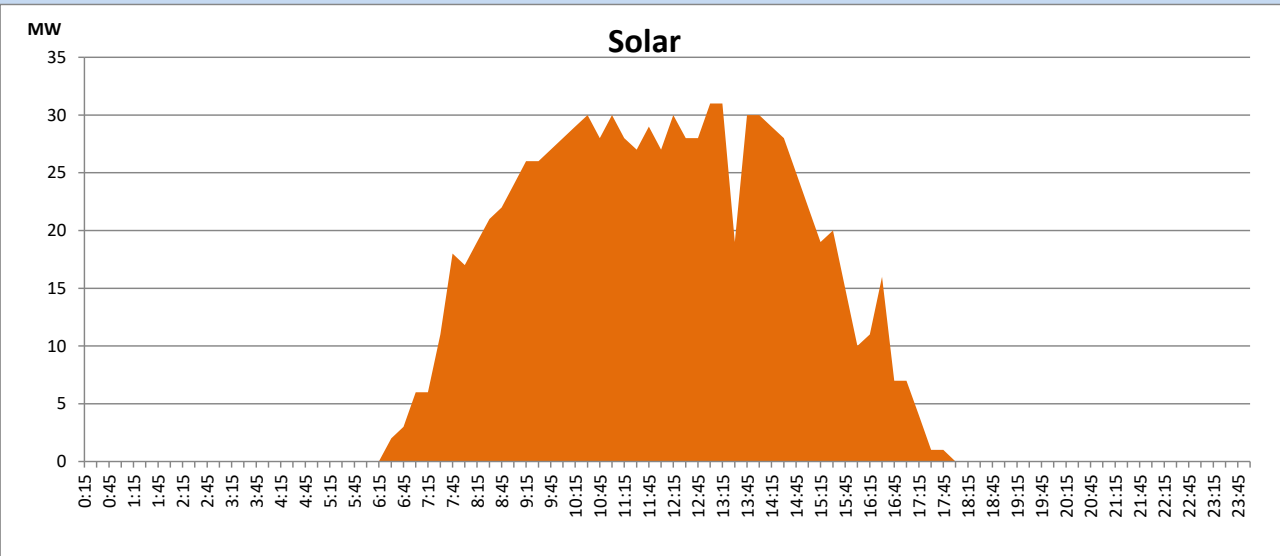
Based on Telemetered Power Stations only



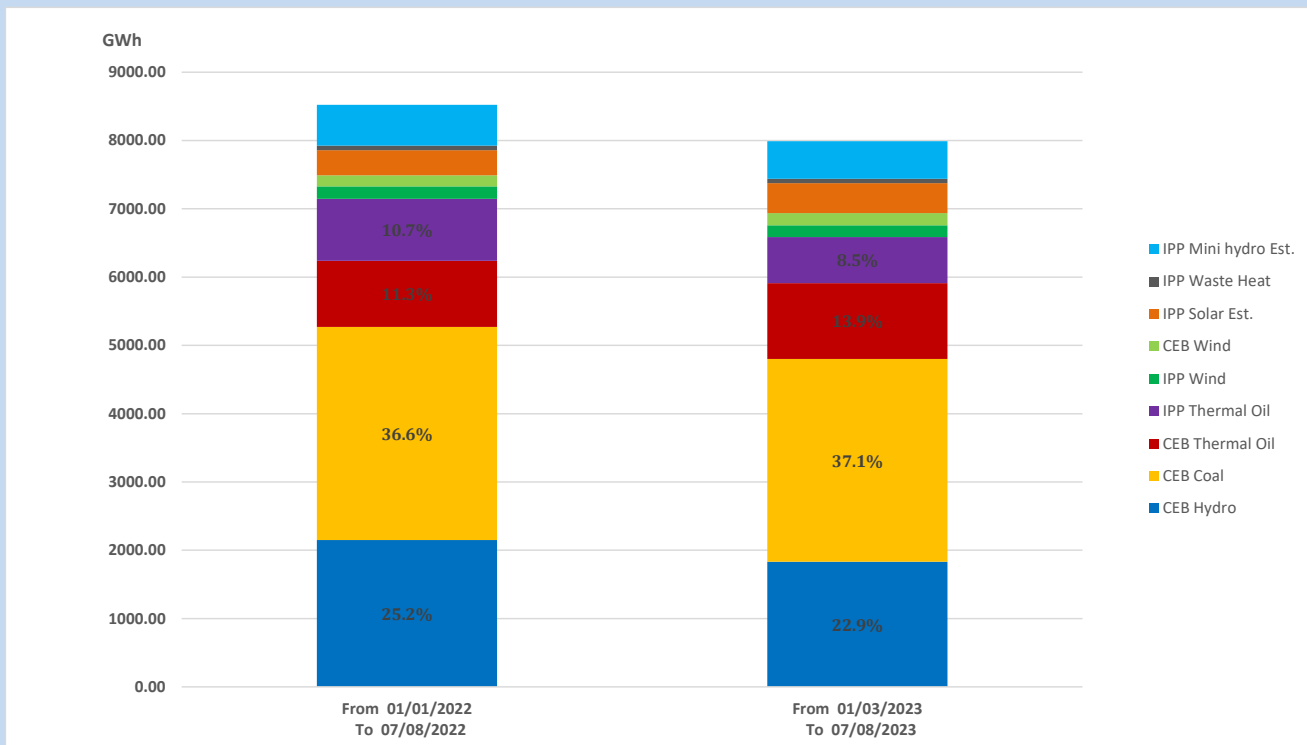
Solar Generation during

July 8, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 07/08/2022

8524 GWh

From 01/01/2023 To 07/08/2023

7994 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 8, 2023

- 1) Kolonnawa - Pannipitiya - Sri Jayawardenapura 132kV cct 01 tripped & A/R at 10:08hrs from all ends due to operation of distance protection. At 10:12hrs, Kolonnawa - Pannipitiya - Sri Jayawardenapura 132kV cct 01 tripped from all ends due to operation of distance protection. Kolonnawa - Pannipitiya - Sri Jayawardenapura cct 01 restored at 11:30hrs.
- 2). Sapugaskanda PS unit 8 tripped at 17:48hrs & 23:34hrs, respectively due to Lub oil pressure low. Sapugaskanda PS unit 08 resumed generation at 21:47hrs & 00:46hrs(09.07.23), respectively.
- 3). LVPS unit 03 de-loaded to 186MW(net) at 22:20hrs due to tripping of a coal mill and de-loaded to 160MW(net) at 05:00hrs(09.07.23) due to tripping of another mill.