

Generation and Reservoirs Statistics

August 10, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

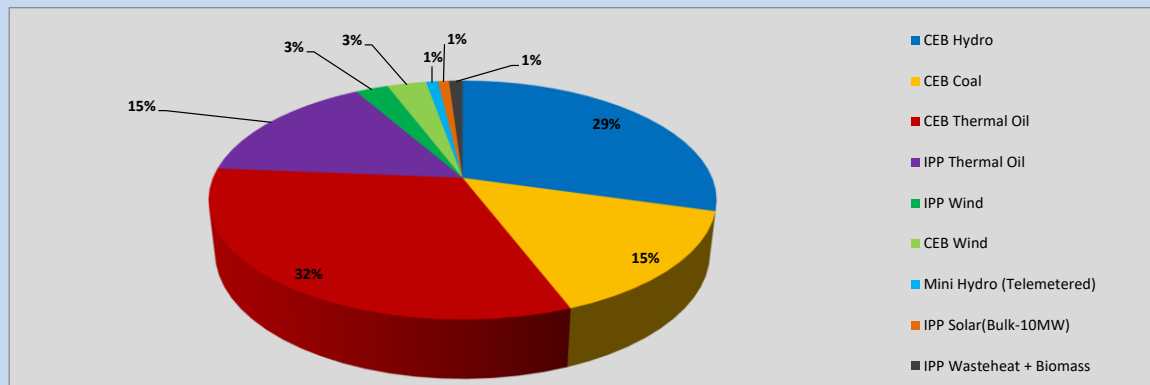


Table 01

CEB Hydro	12,990	MWh
CEB Coal	6,514	MWh
CEB Thermal Oil	14,187	MWh
IPP Thermal Oil	6,807	MWh
IPP Wind	1,108	MWh
CEB Wind	1,313	MWh
Mini Hydro (Telemetered)	397	MWh
IPP Solar (Bulk)	372	MWh
IPP Waste heat + Biomass	459	MWh
Total Generation (Excluding estimated figures)	44,147	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	3373	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	49,474	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

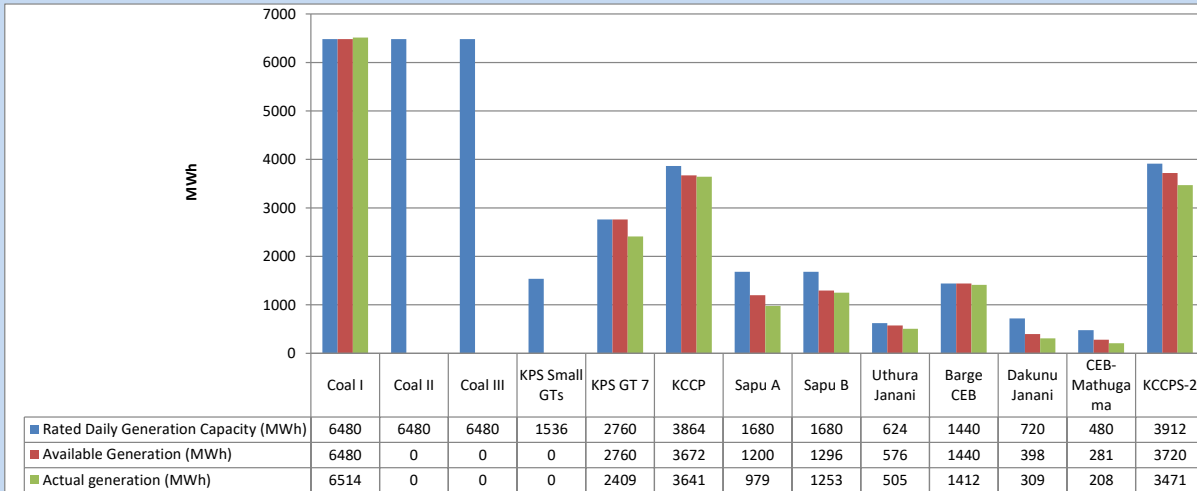
Category	Dispatch (GWh)	
CEB Hydro	94	22.41%
CEB Coal	98	23.46%
CEB Thermal Oil	123	29.51%
IPP Thermal	61	14.53%
SPP Wind	14	3.44%
CEB Wind	15	3.58%
Mini Hydro (Telemetered)	4	0.86%
IPP Solar (Bulk-10MW)	4	0.88%
IPP Waste heat + BMP	6	1.33%
Total	418	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,140	24.93%
CEB Coal	3,348	38.99%
CEB Thermal Oil	1,427	16.62%
IPP Thermal	864	10.07%
SPP Wind	224	2.61%
CEB Wind	231	2.70%
Mini Hydro (Telemetered)	205	2.38%
IPP Solar (Bulk-10MW)	67	0.78%
IPP Waste heat	78	0.91%
Total	8,586	

3. CEB owned Thermal Plant Dispatch

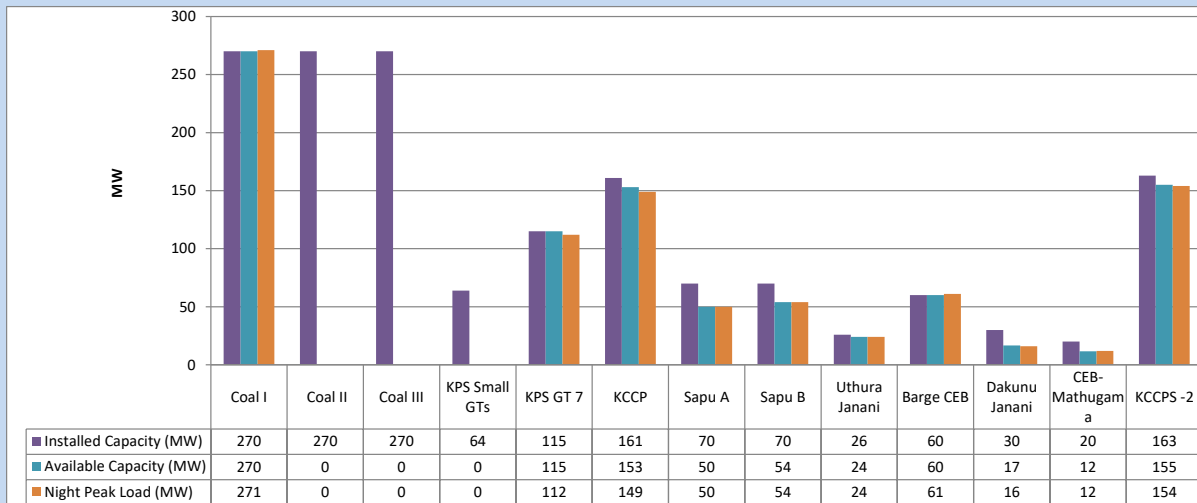
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Available Generation is estimated based on plant availability at 6.00am on

August 11, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

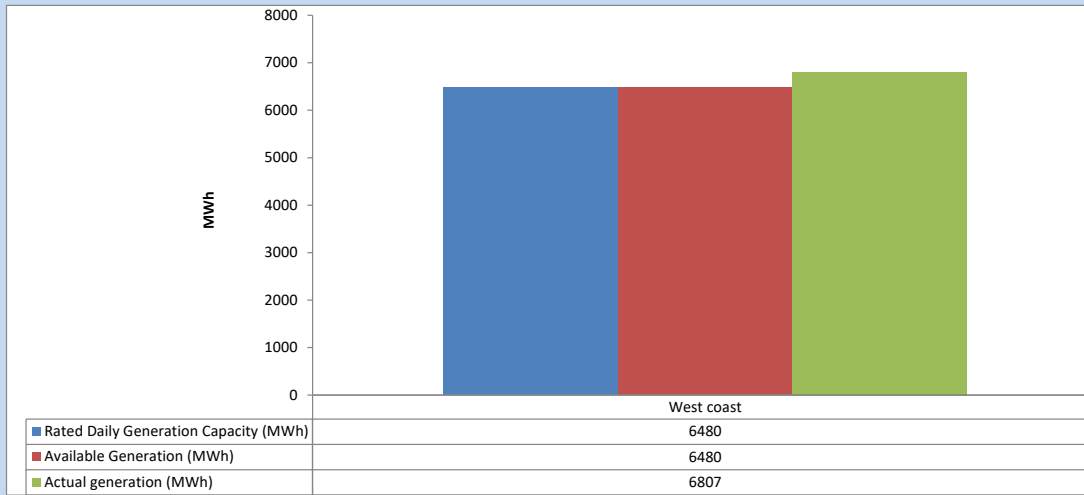


Plant availability is recorded at 6.00 am on

August 11, 2023

5. IPP owned Thermal Plant Dispatch

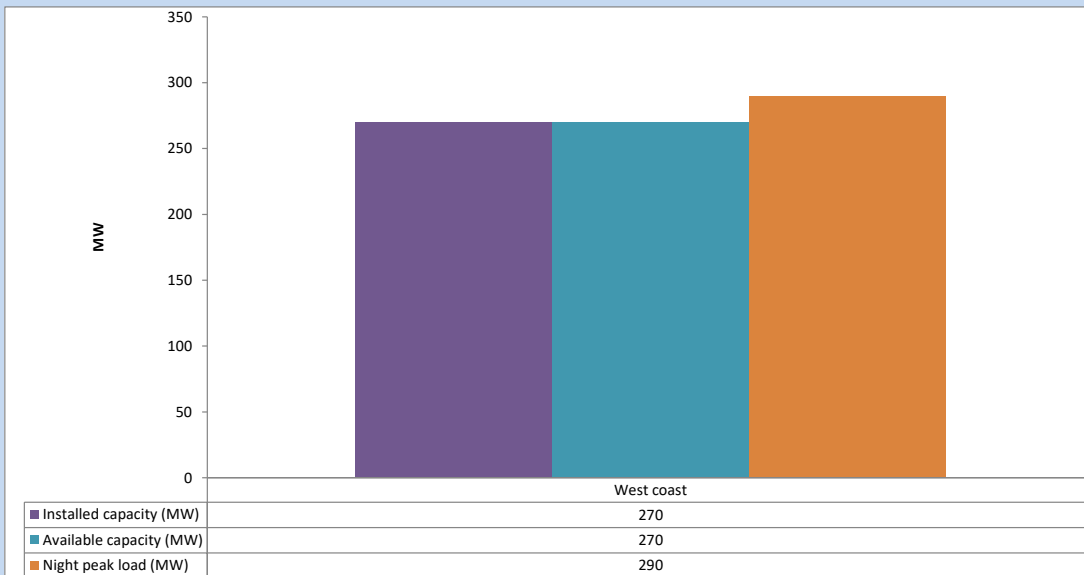
August 10, 2023



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

August 11, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

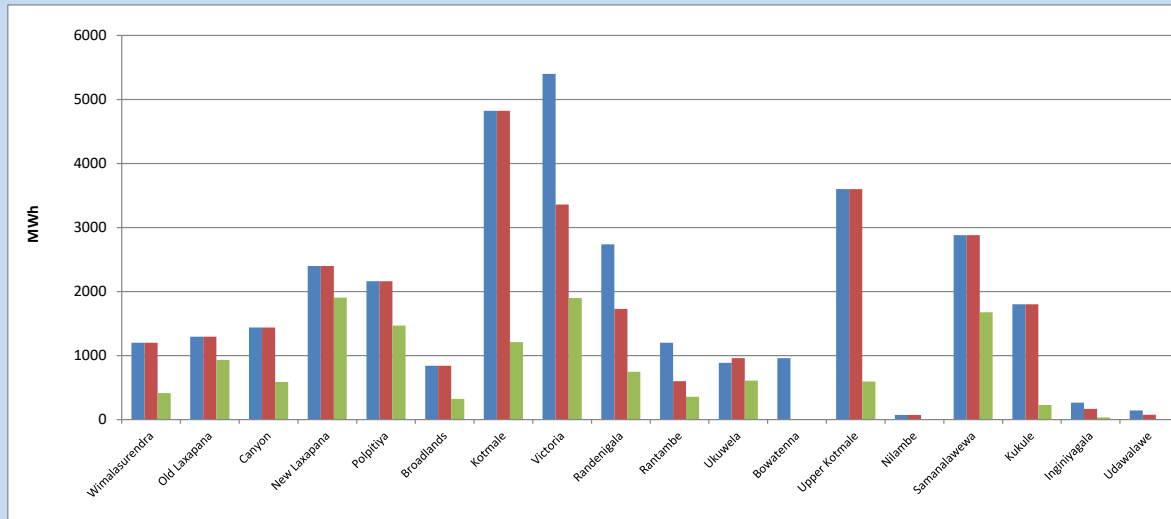


Plant availability is recorded at 6.00 am on

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7. Major Hydro Plant Dispatch

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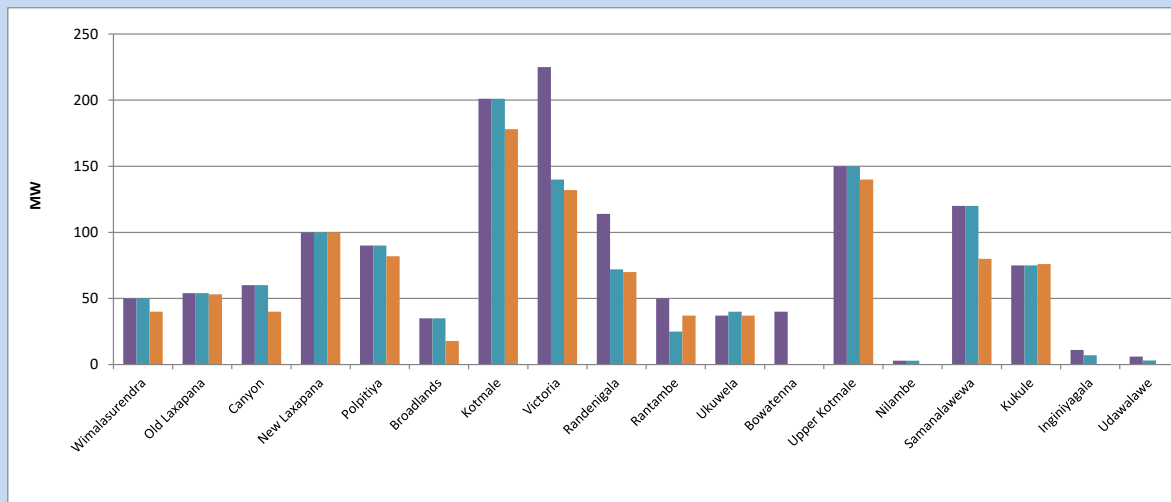


Available Generation is estimated based on plant availability at 6.00am on
 Broadlands power plant is operating in the Commissioning Stage

August 11, 2023

8. Major Hydro Plant Loading at Night Peak

August 10, 2023



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

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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	40	413
Old Laxapana	54	54	53	934
Canyon	60	60	40	589
New Laxapana	100	100	100	1,904
Polpitiya	90	90	82	1,470
Broadlands	35	35	18	323
Kotmale	201	201	178	1,210
Victoria	225	140	132	1,899
Randenigala	114	72	70	748
Rantambe	50	25	37	355
Ukuwela	37	40	37	609
Bowatenna	40	0	0	0
Upper Kotmale	150	150	140	594
Nilambe	3	3	0	3
Samanalawewa	120	120	80	1,676
Kukule	75	75	76	229
Inginiyagala	11	7	0	34
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,514
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	112	2,409
KCCP	161	153	149	3,641
Sapugaskanda A	70	50	50	979
Sapugaskanda B	70	54	54	1,253
Uthura Janani	26	24	24	505
Barge CEB	60	60	61	1,412
CEB-Hambantota	30	17	16	309
CEB-Mathugama	20	12	12	208
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	154	3,471
West Coast	270	270	290	6,807
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,404	2,373	44,147

Plant availability is the availability recorded at 6 am on

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10. Contribution to the Night Peak in MW

August 10, 2023

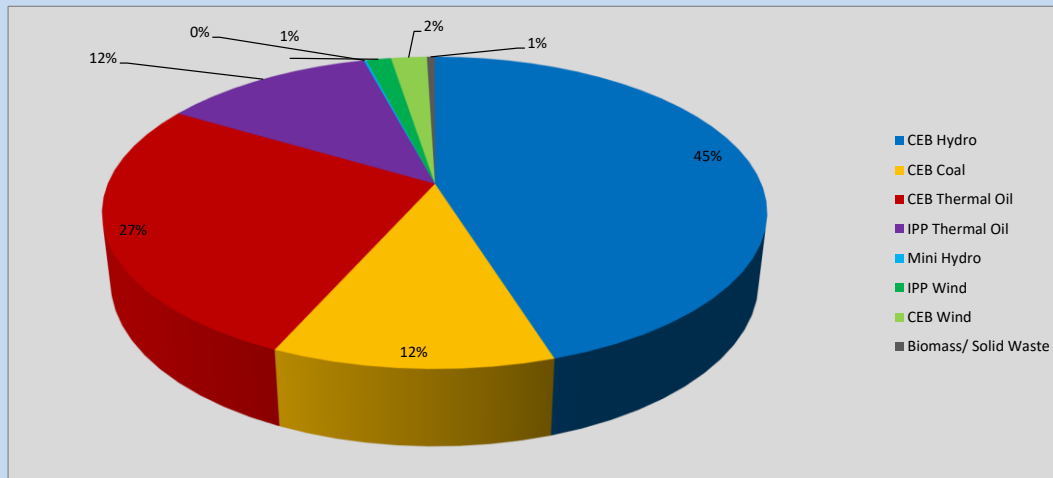


Table 05

CEB Hydro	1062	MW
CEB Coal	271	MW
CEB Thermal Oil	632	MW
IPP Thermal Oil	290	MW
Mini Hydro (Telemetered)	4	MW
IPP Wind	33.9	MW
CEB Wind	49	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

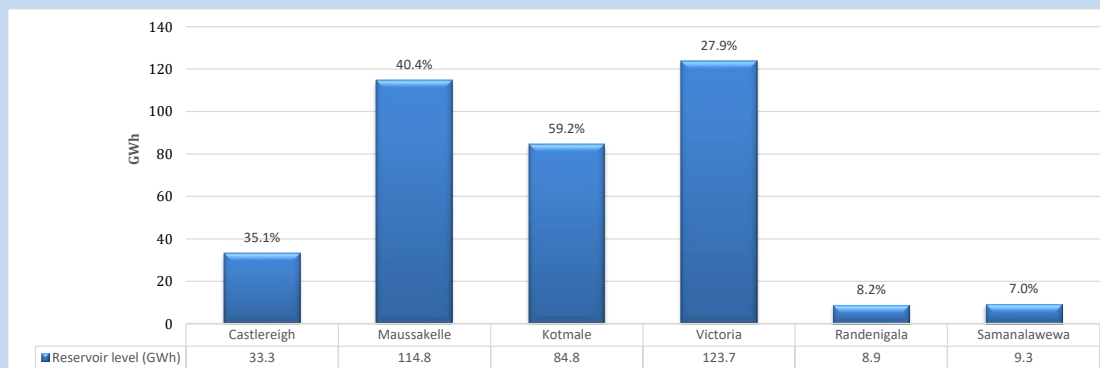
Table 06

Night Peak*	2,352	MW
Day Peak Maximum Demand	2,074	MW
Day Peak Minimum Demand	1,781	MW
Off Peak Minimum Demand	1,358	MW

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

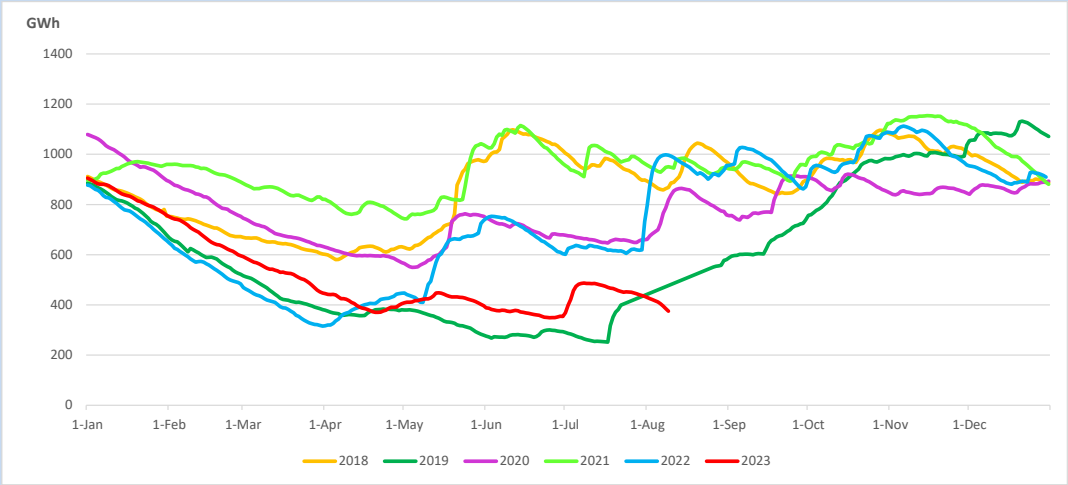
Reservoir Levels -

as at 06.00 Hr on August 11, 2023

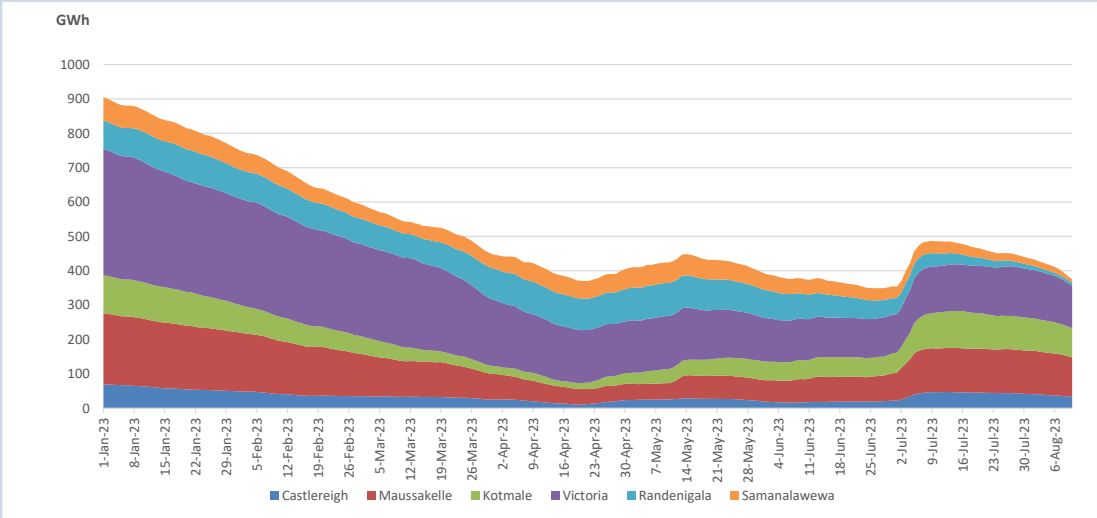


Total Reservoir Level 374.8 GWh
 % of Total capacity 31.1%

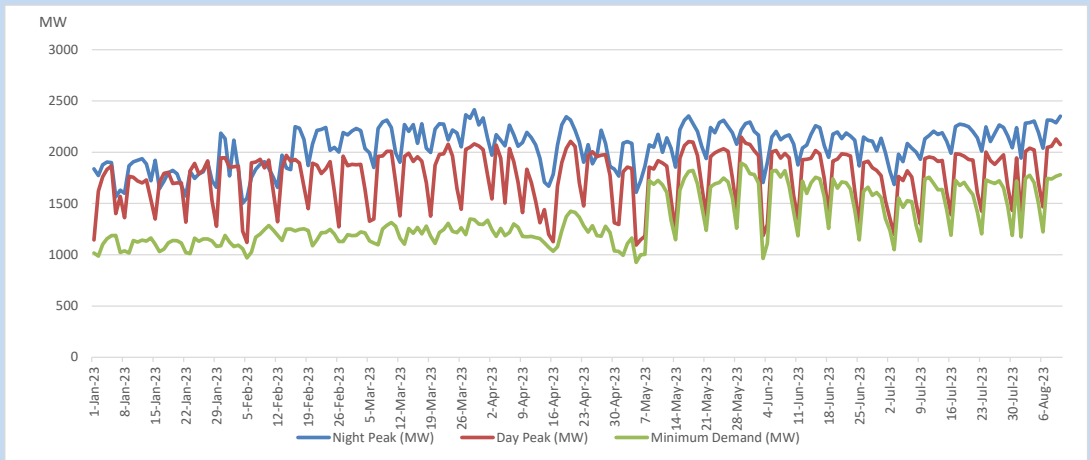
11. Comparison of Total Reservoir Storage Levels with Past Years



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



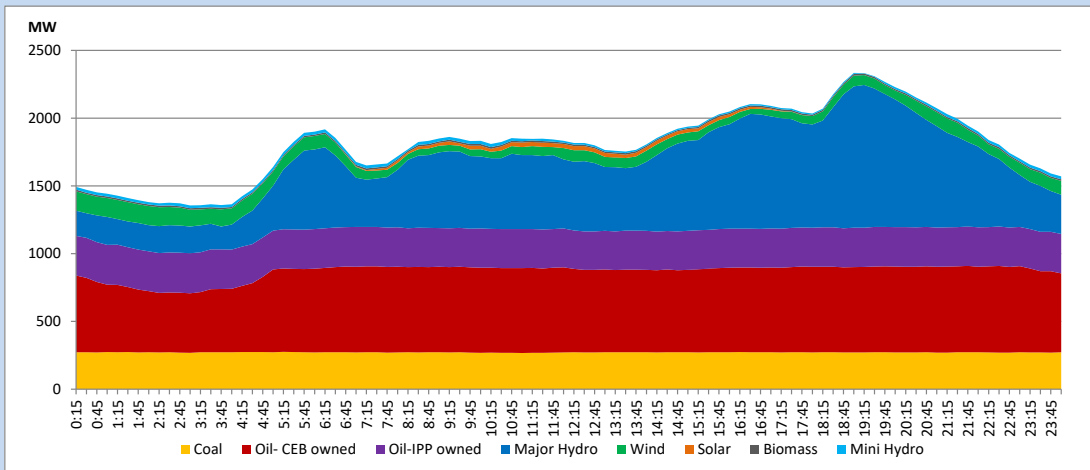
13. Variation of Demand during the current year



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

14. Daily Load Curve

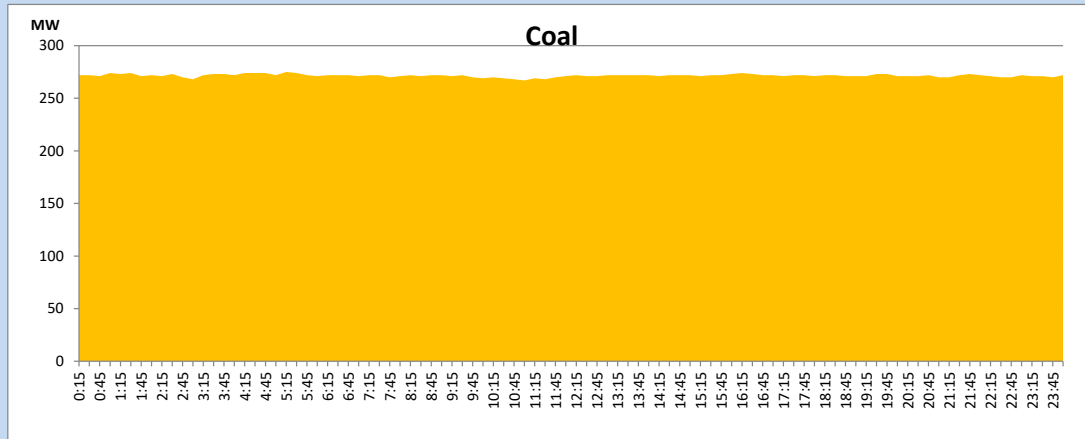
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Solar and wind data is based on Telemetered Power Stations only

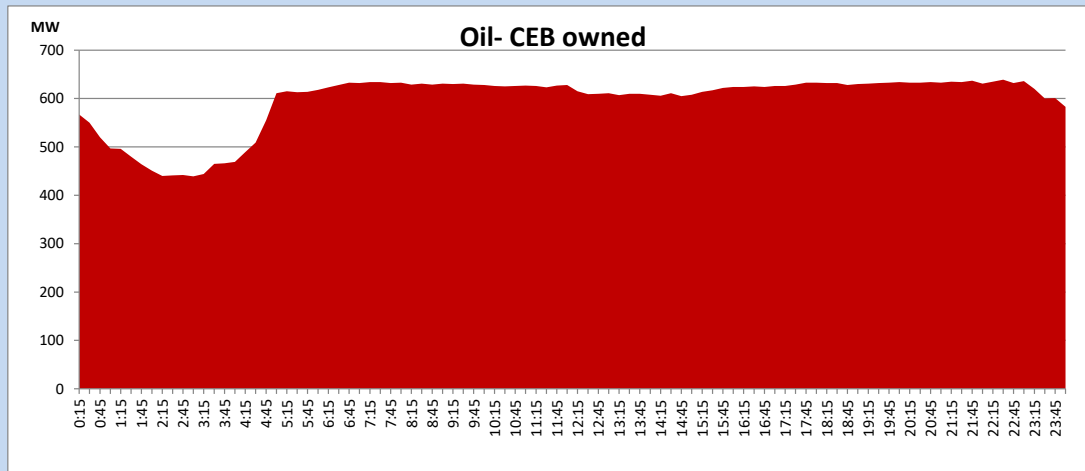
Coal Generation during

August 10, 2023



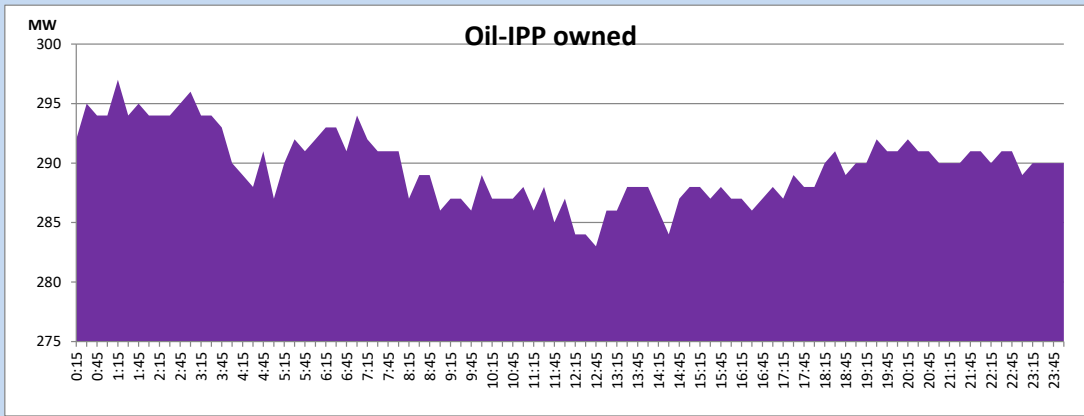
CEB Oil Plant Generation during

August 10, 2023



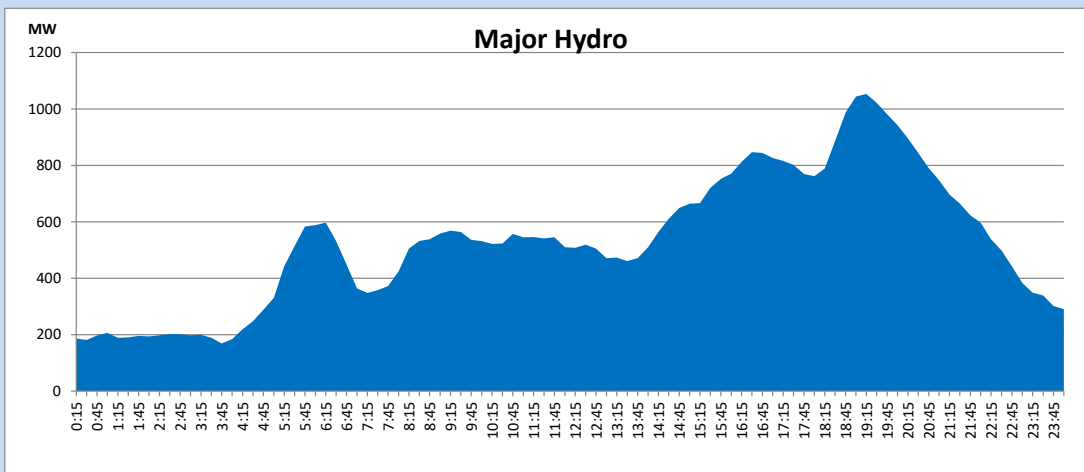
IPP Oil Plant Generation during

August 10, 2023



Major Hydro Generation during

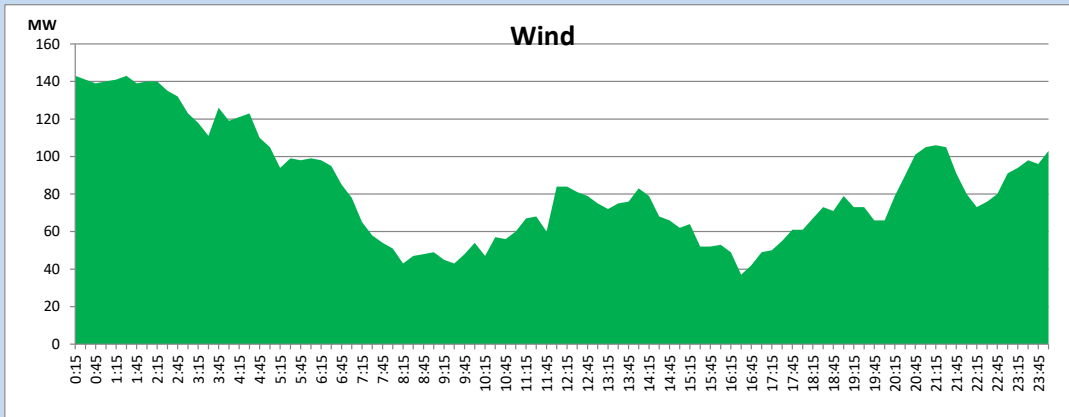
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Wind Generation during

August 10, 2023

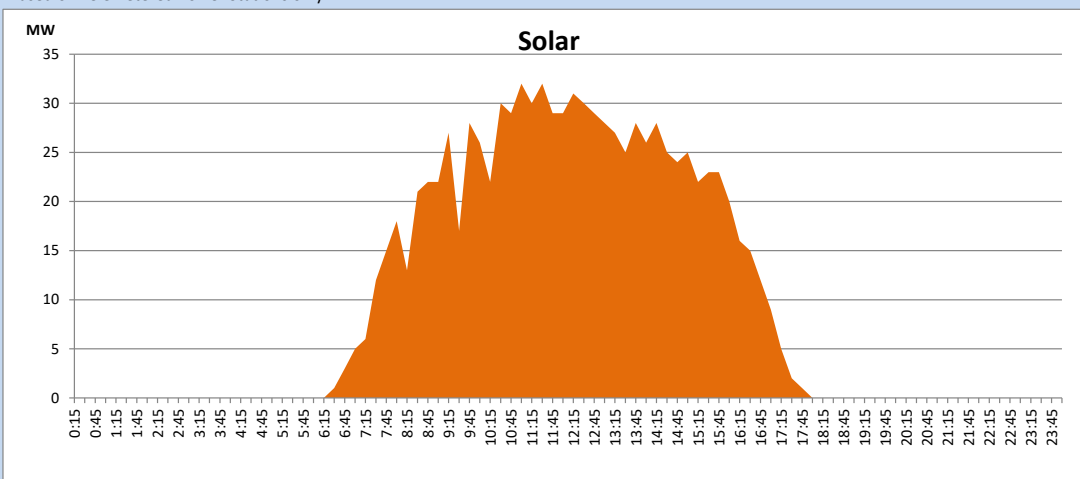
Based on Telemetered Power Stations only



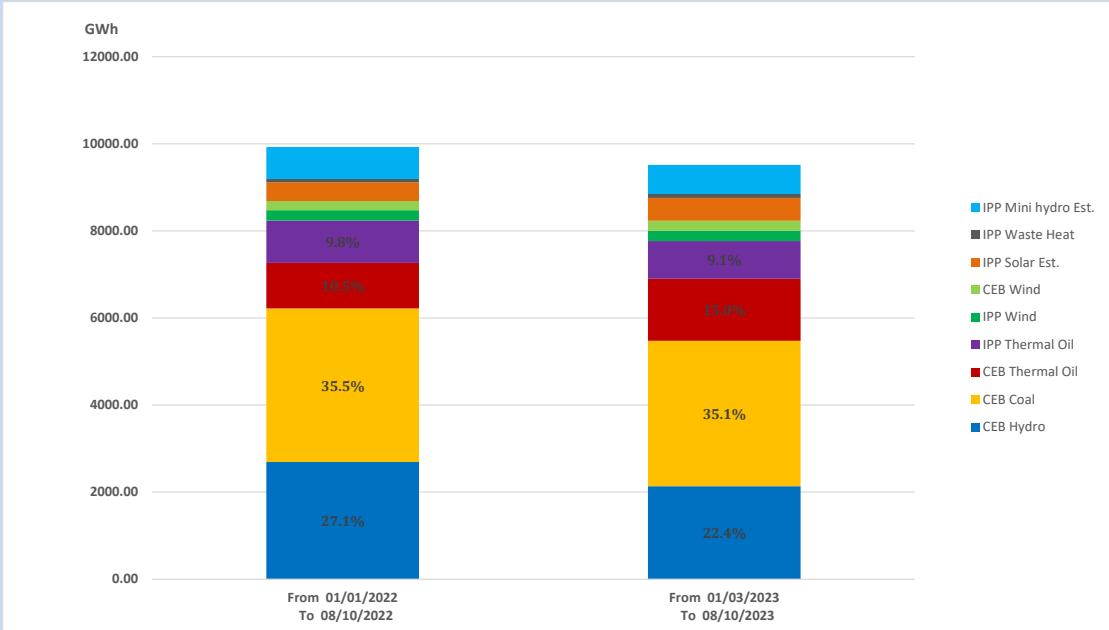
Solar Generation during

August 10, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 08/10/2022
 From 01/01/2023 To 08/10/2023

9926 GWh
 9515 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

August 10, 2023

- 1) Deniyaya - Galle 132kV cct tripped and A/R from both ends at 08:40hrs due to the operation of distance protection.
- 2) Samanalawewa full load generation restricted, in order to comply with the operation constraints initiated by propagation of air bubbles at reservoir intake which would further course for the possible formation of vortex at the same place, due to the drastic depletion of Samanalawewa reservoir storage.