

Generation and Reservoirs Statistics

August 6, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

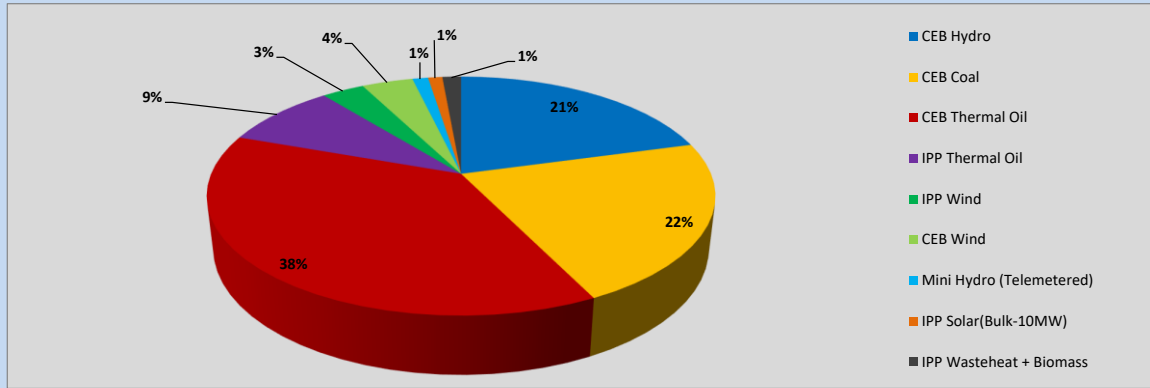


Table 01

CEB Hydro	7,516	MWh
CEB Coal	7,956	MWh
CEB Thermal Oil	13,669	MWh
IPP Thermal Oil	3,166	MWh
IPP Wind	1,171	MWh
CEB Wind	1,410	MWh
Mini Hydro (Telemetered)	433	MWh
IPP Solar (Bulk)	392	MWh
IPP Waste heat + Biomass	516	MWh
Total Generation (Excluding estimated figures)	36,229	MWh
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	3337	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
Total Generation (Including estimated figures)	41,520	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

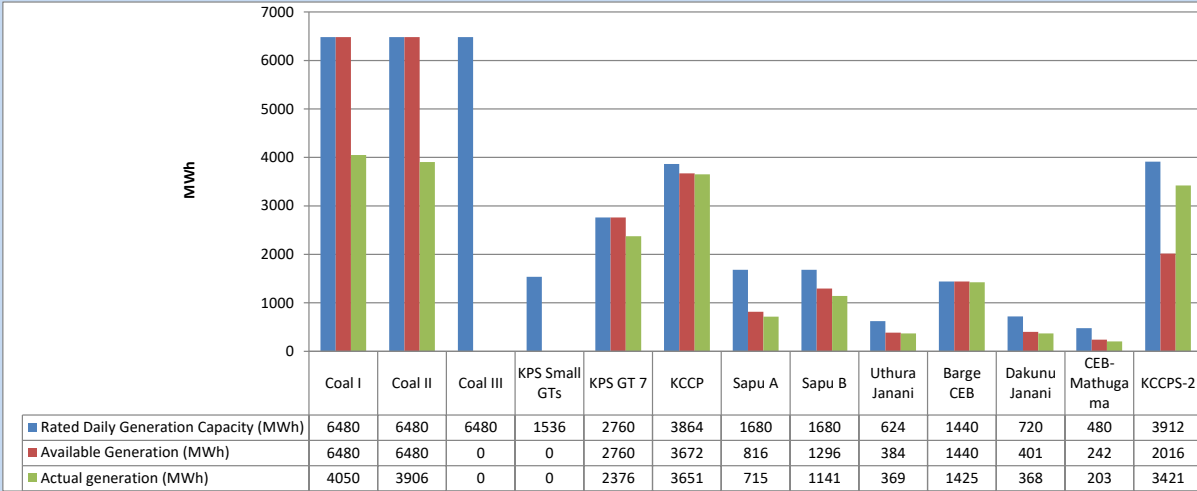
Category	Dispatch (GWh)	
CEB Hydro	46	18.86%
CEB Coal	68	27.84%
CEB Thermal Oil	69	28.43%
IPP Thermal	34	14.13%
SPP Wind	9	3.74%
CEB Wind	9	3.66%
Mini Hydro (Telemetered)	2	0.92%
IPP Solar (Bulk-10MW)	2	0.91%
IPP Waste heat + BMP	4	1.51%
Total	243	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,093	24.88%
CEB Coal	3,317	39.44%
CEB Thermal Oil	1,373	16.32%
IPP Thermal	838	9.96%
SPP Wind	219	2.61%
CEB Wind	225	2.68%
Mini Hydro (Telemetered)	203	2.42%
IPP Solar (Bulk-10MW)	65	0.78%
IPP Waste heat	76	0.91%
Total	8,411	

3. CEB owned Thermal Plant Dispatch

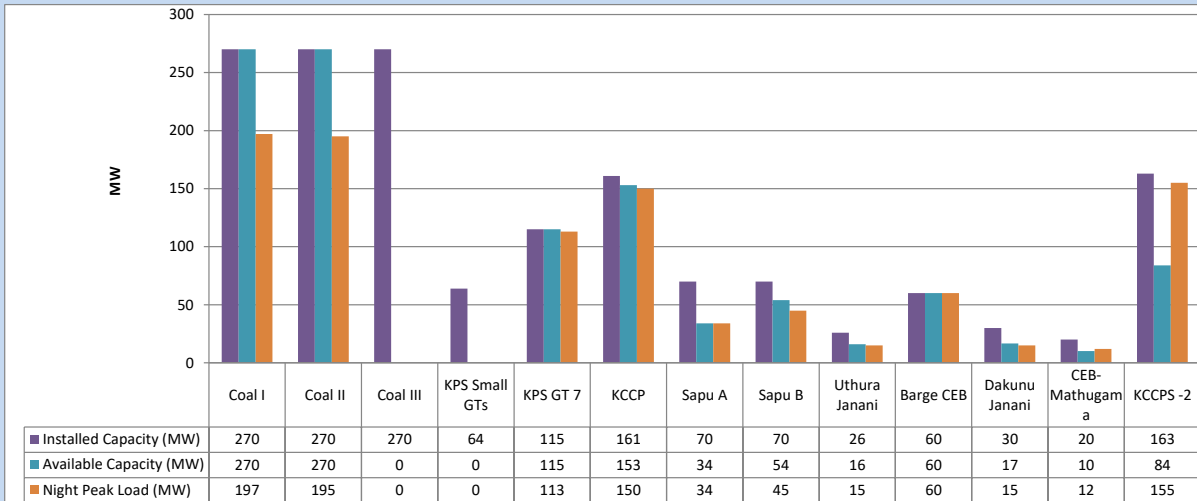
August 6, 2023



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

August 7, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

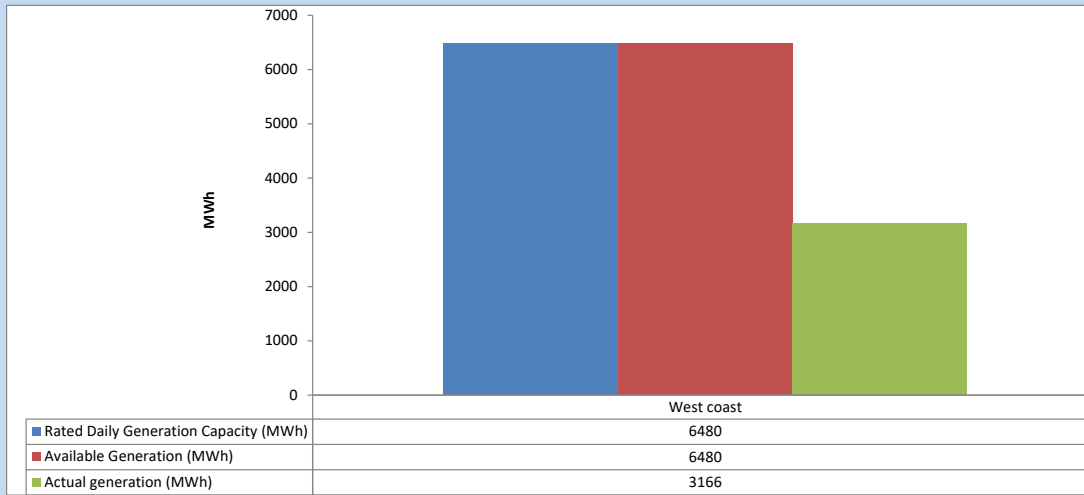


Plant availability is recorded at 6.00 am on

August 7, 2023

5. IPP owned Thermal Plant Dispatch

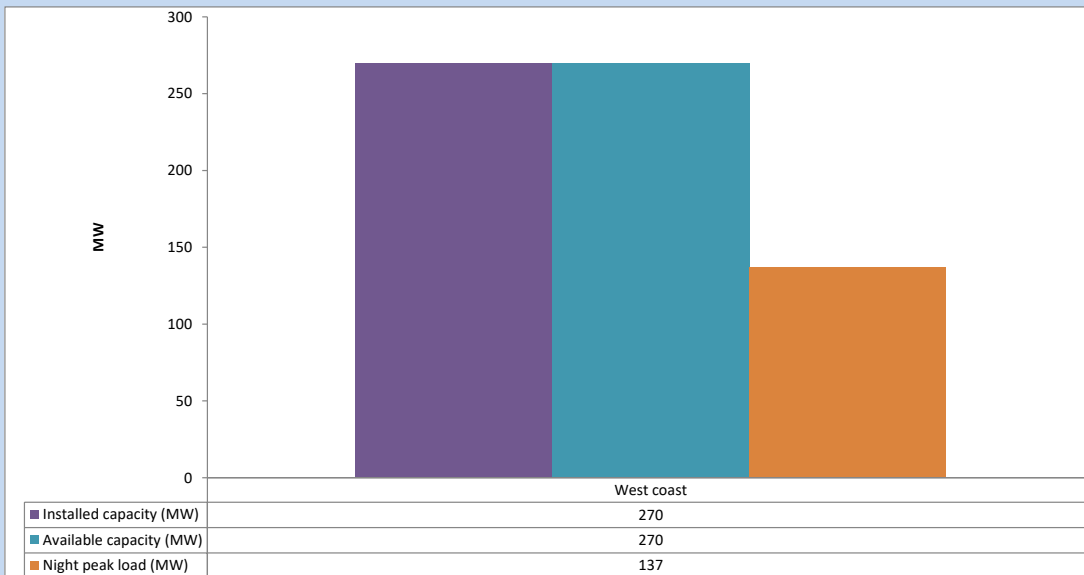
August 6, 2023



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

August 7, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

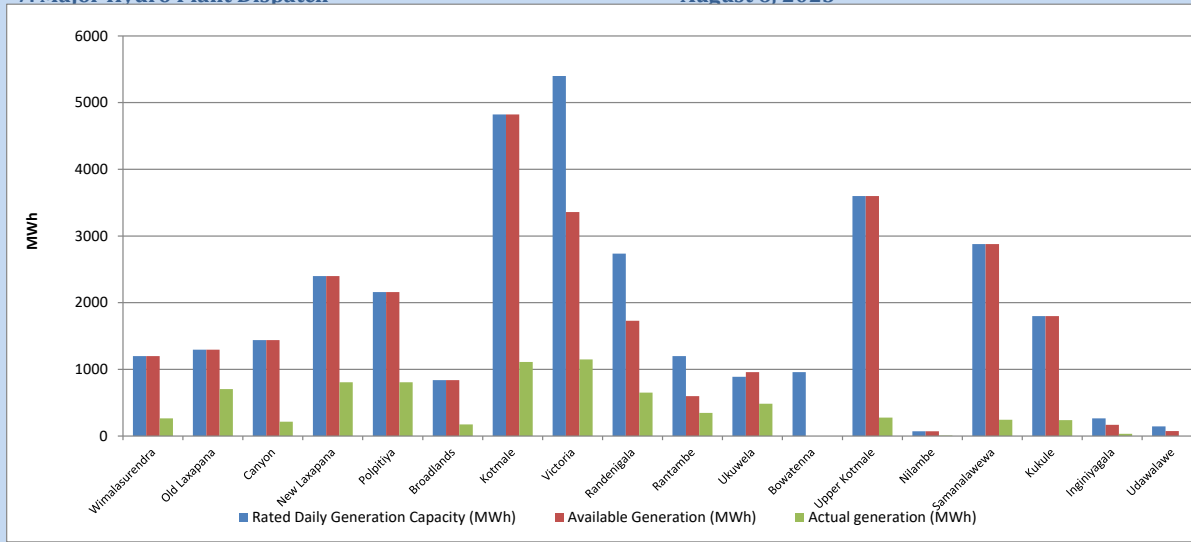


Plant availability is recorded at 6.00 am on

August 7, 2023

7. Major Hydro Plant Dispatch

August 6, 2023

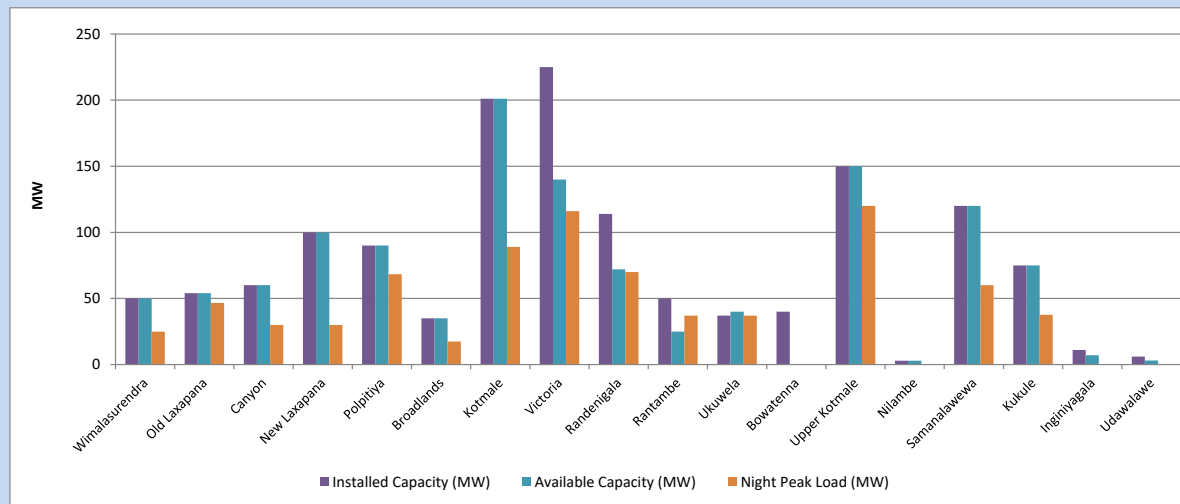


Available Generation is estimated based on plant availability at 6.00am on August 7, 2023
 Broadlands power plant is operating in the Commissioning Stage

August 7, 2023

8. Major Hydro Plant Loading at Night Peak

August 6, 2023



Plant availability is recorded at 6.00 am on August 7, 2023
 Broadlands power plant is operating in the Commissioning Stage

August 7, 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	264
Old Laxapana	54	54	47	704
Canyon	60	60	30	216
New Laxapana	100	100	30	808
Polpitiya	90	90	68	806
Broadlands	35	35	17	173
Kotmale	201	201	89	1,110
Victoria	225	140	116	1,150
Randenigala	114	72	70	652
Rantambe	50	25	37	348
Ukuwela	37	40	37	484
Bowatenna	40	0	0	0
Upper Kotmale	150	150	120	277
Nilambe	3	3	0	7
Samanalawewa	120	120	60	244
Kukule	75	75	38	239
Inginiyagala	11	7	0	34
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	197	4,050
Puttalam Coal II	270	270	195	3,906
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	113	2,376
KCCP	161	153	150	3,651
Sapugaskanda A	70	34	34	715
Sapugaskanda B	70	54	45	1,141
Uthura Janani	26	16	15	369
Barge CEB	60	60	60	1,425
CEB-Hambantota	30	17	15	368
CEB-Mathugama	20	10	12	203
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	84	155	3,421
West Coast	270	270	137	3,166
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,578	2,063	36,229

Plant availability is the availability recorded at 6 am on

August 7, 2023

10. Contribution to the Night Peak in MW

August 6, 2023

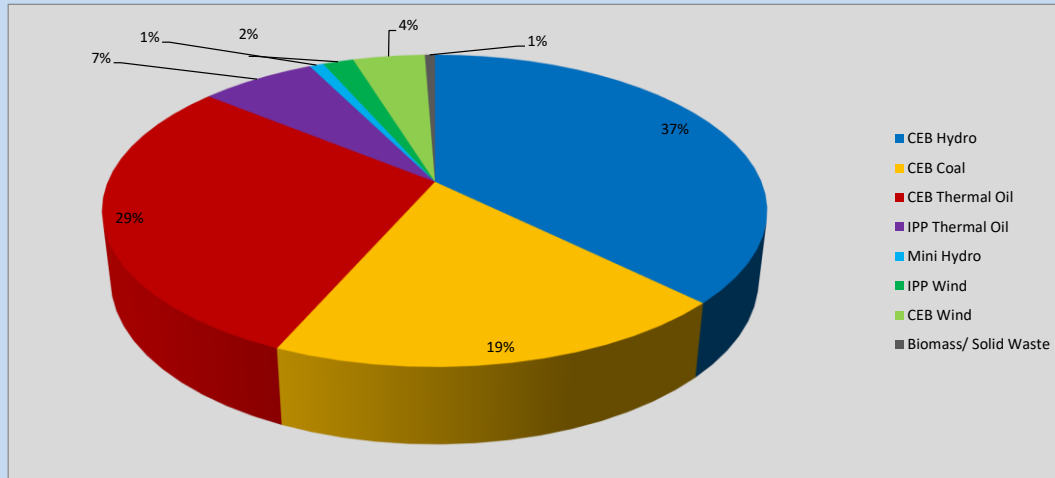


Table 05

CEB Hydro	762	MW
CEB Coal	392	MW
CEB Thermal Oil	599	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	17	MW
IPP Wind	36.4	MW
CEB Wind	85.3	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

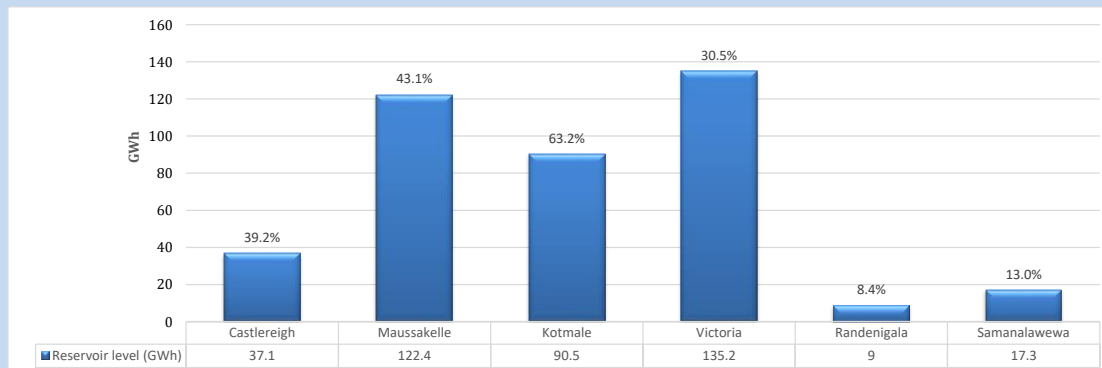
Table 06

Night Peak*	2,041	MW
Day Peak Maximum Demand	1,467	MW
Day Peak Minimum Demand	1,223	MW
Off Peak Minimum Demand	1,325	MW

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

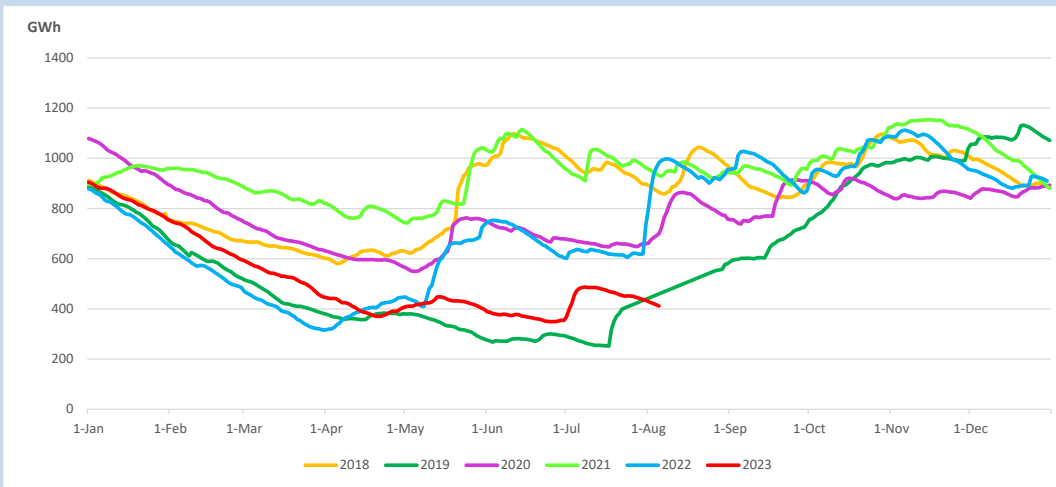
Reservoir Levels -

as at 06.00 Hr on August 7, 2023

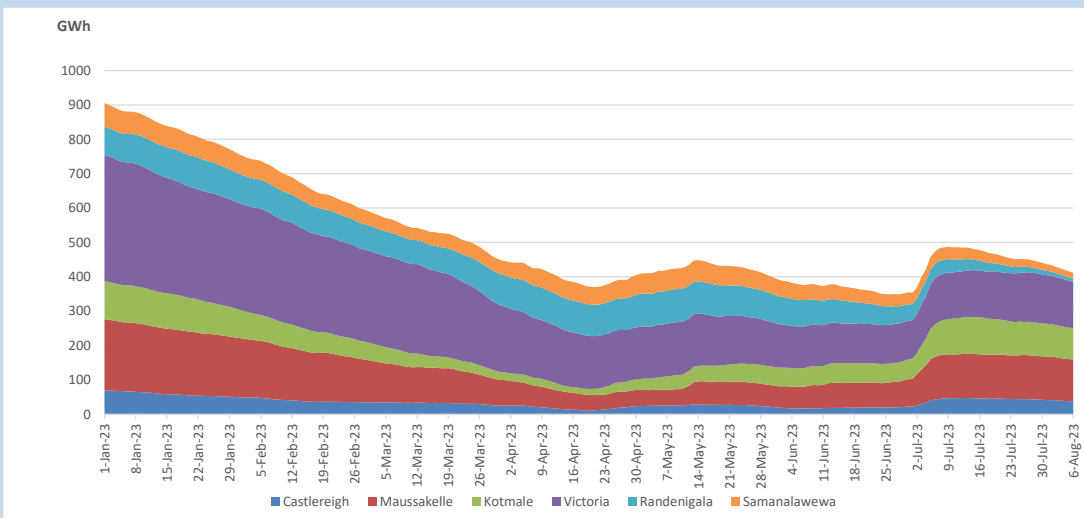


Total Reservoir Level 411.5 GWh
 % of Total capacity 34.1%

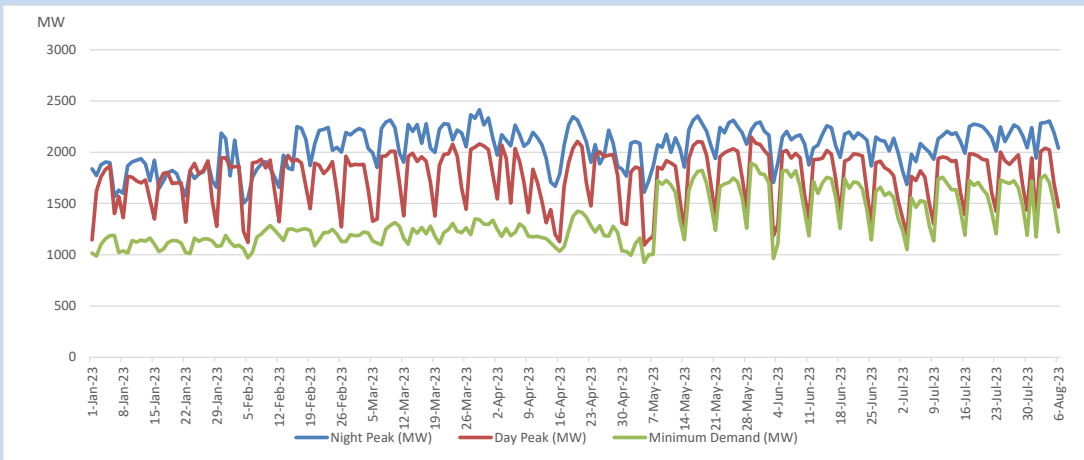
11. Comparison of Total Reservoir Storage Levels with Past Years



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



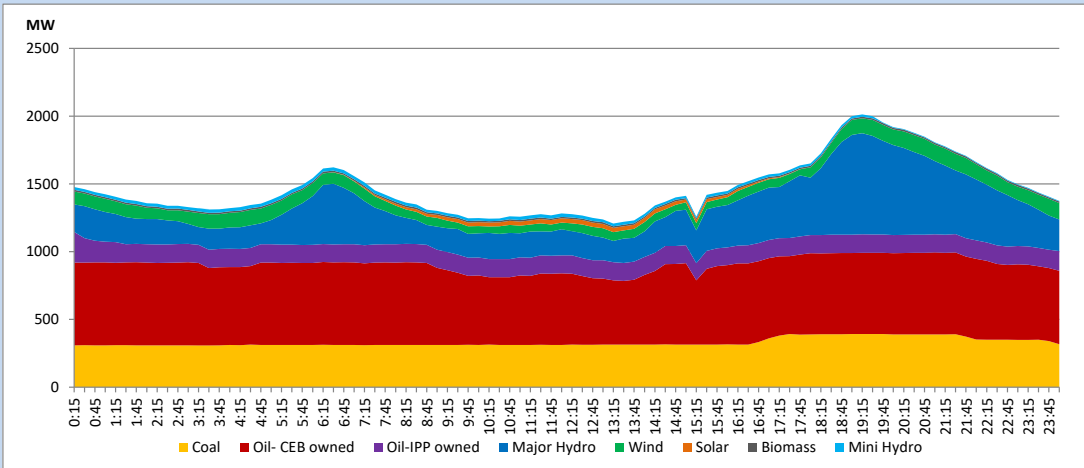
13. Variation of Demand during the current year



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

14. Daily Load Curve

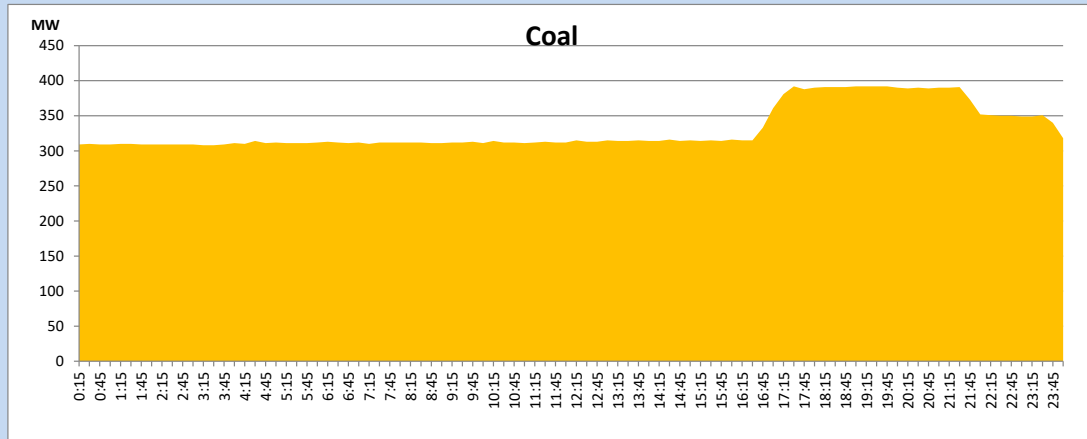
August 6, 2023



Solar and wind data is based on Telemetered Power Stations only

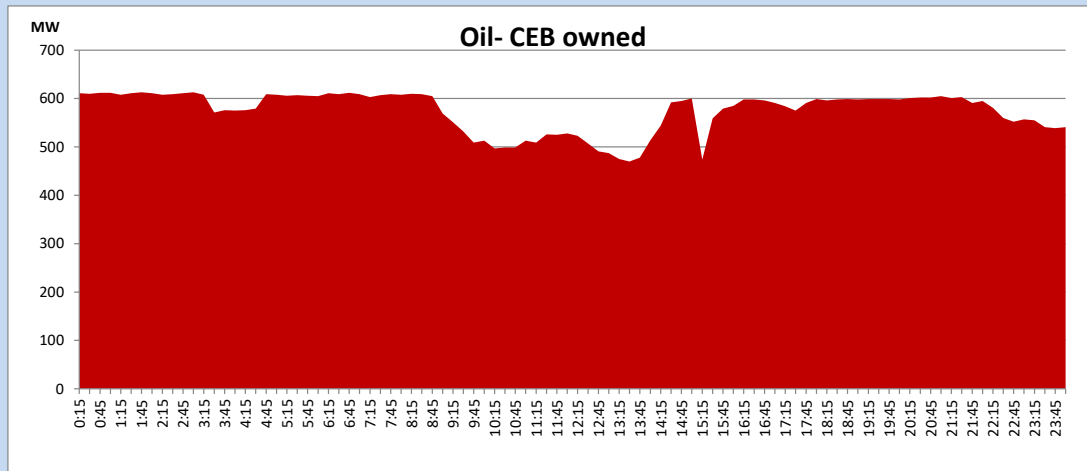
Coal Generation during

August 6, 2023



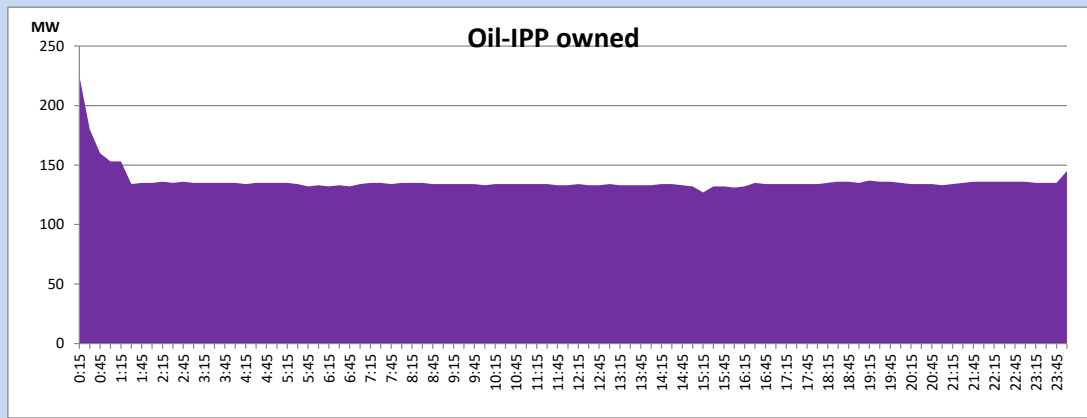
CEB Oil Plant Generation during

August 6, 2023



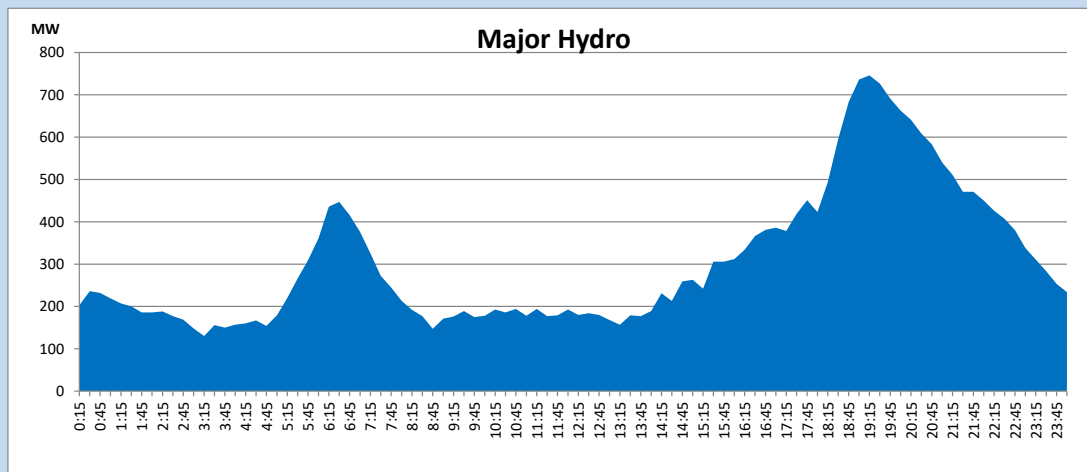
IPP Oil Plant Generation during

August 6, 2023



Major Hydro Generation during

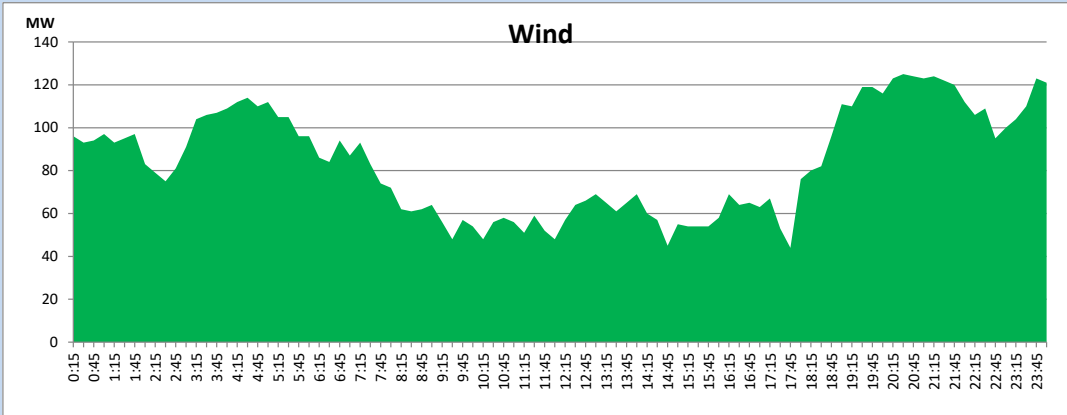
August 6, 2023



Wind Generation during

August 6, 2023

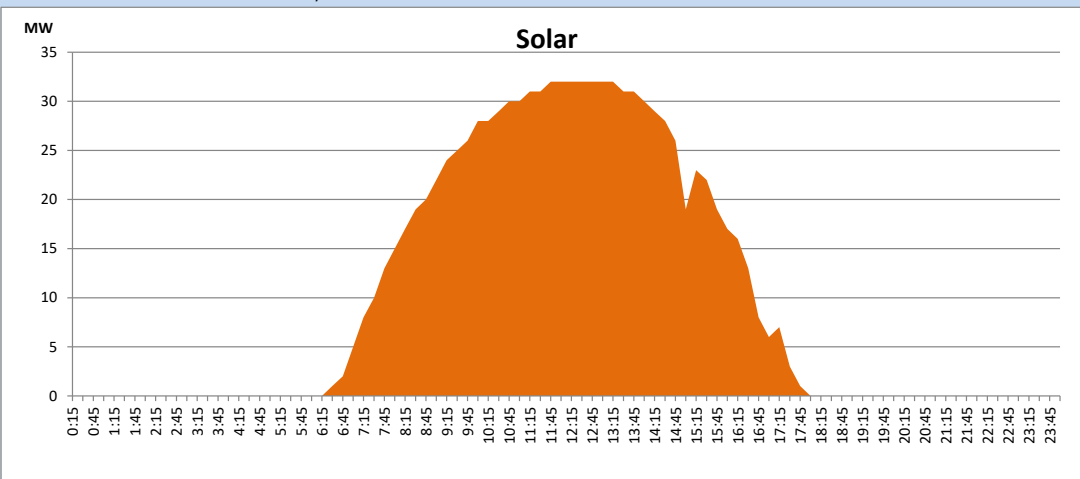
Based on Telemetered Power Stations only



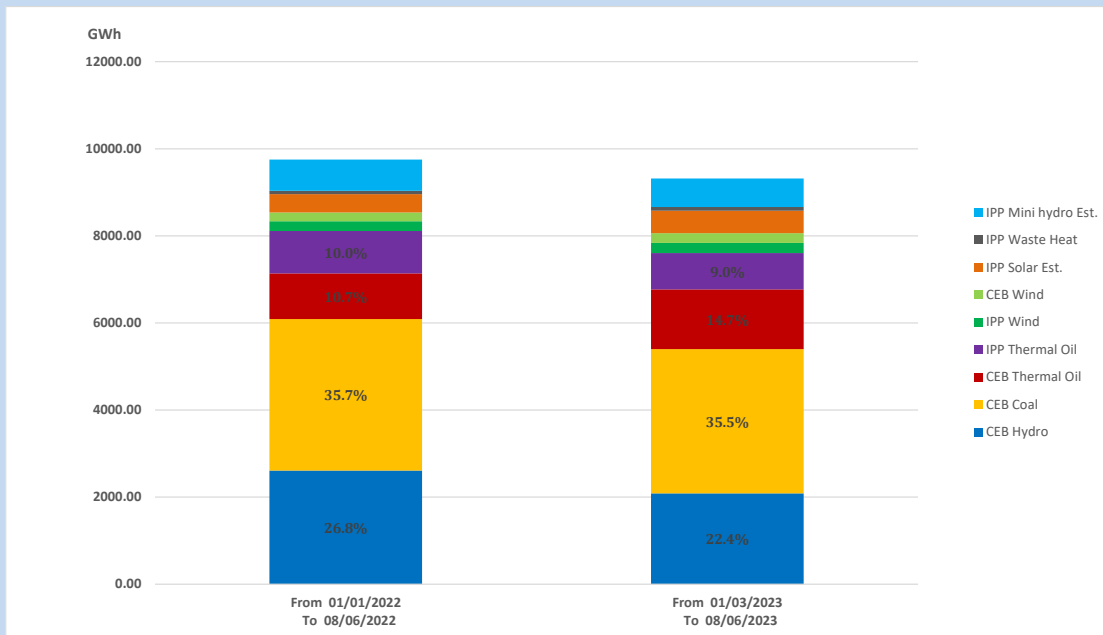
Solar Generation during

August 6, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 08/06/2022
 From 01/01/2023 To 08/06/2023

9751 GWh
 9319 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 6, 2023

- 1) Habarana-New Anuradhapura 132kV cct tripped from both ends at 14:40hrs due to the operation of distance protection. At the same time, Habarana-New Habarana 132kV cct 01 tripped from New Habarana end due to the operation of distance protection. Both ccts were normalized by 15:08hrs.
- 2) Pannipitya-Panadura-Kaluthara 132kV cct tripped from Pannipitya and Panadura ends while being tripped & A/R from Kaluthara end at 14:59hrs due to the operation of distance protection. Consequently, Pannipitya-Kesbewa 132kV cct tripped from Pannipitya end due to the operation of overcurrent protection. This caused Kesbewa GSS, Panadura GSS, Horana GSS, Kaluthara GSS, Mathugama GSS, Ambalangoda GSS and New Galle GSS(All three T/Fs) to be dead. Pannipitya-Kesbewa 132kV cct was normalized at 15:10hrs. Pannipitya-Panadura-Kaluthara 132kV cct was normalized at 15:16hrs. All affected GSSs were normalized by 15:21hrs. All affected 33kV feeders were normalized by 15:23hrs.