

Generation and Reservoirs Statistics

July 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

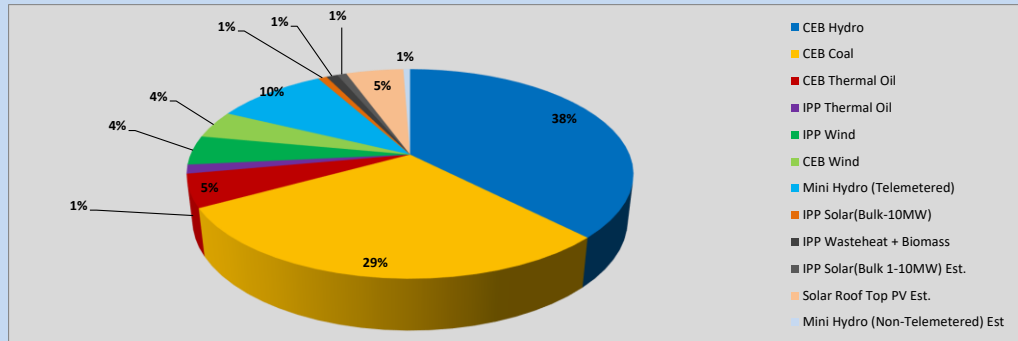


Table 01

	Generation (MWh)
CEB Hydro	16,415
CEB Coal	12,807
CEB Thermal Oil	2,222
IPP Thermal Oil	597
IPP Wind	1,966
CEB Wind	1,862
Mini Hydro (Telemetered)	4,219
IPP Solar (Bulk)	333
IPP Waste heat + Biomass	426
Total Generation (Excluding estimated figures)	40,847
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	254
* Estimated IPP Solar PV (Bulk 1-10MW)	351
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	43,622

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1533
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	326
Rooftop Solar (LT Bulk)	285
Rooftop Solar (HT Bulk)	79

Data Source - Monthly Review Report [Jan-2024]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	99	34.92%
CEB Coal	90	31.80%
CEB Thermal Oil	20	6.94%
IPP Thermal	11	3.80%
SPP Wind	11	3.75%
CEB Wind	11	4.04%
Mini Hydro *	22	7.72%
IPP Solar *	18	6.18%
IPP Waste heat + BMP	2	0.85%
Total	284	

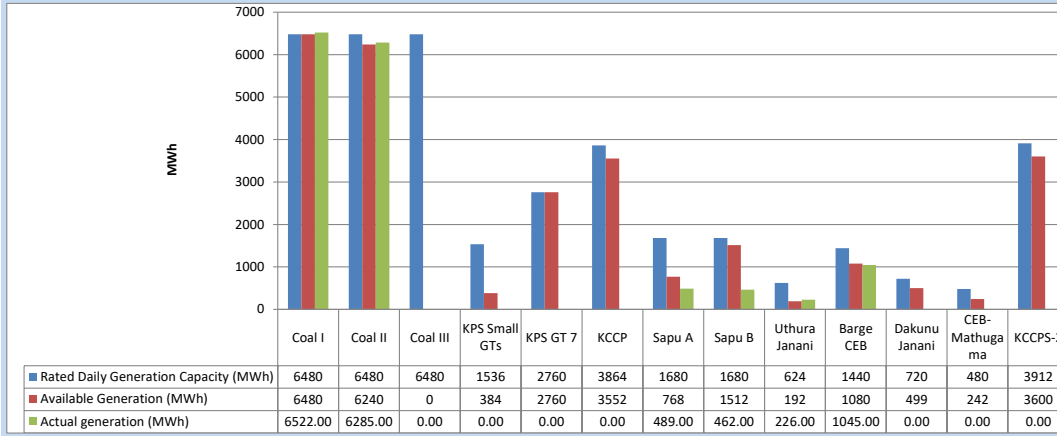
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,607	30.71%
CEB Coal	3,095	36.46%
CEB Thermal Oil	836	9.85%
IPP Thermal	444	5.24%
SPP Wind	163	1.92%
CEB Wind	167	1.97%
Mini Hydro *	571	6.73%
IPP Solar *	524	6.17%
IPP Waste heat	80	0.94%
Total	8,487	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

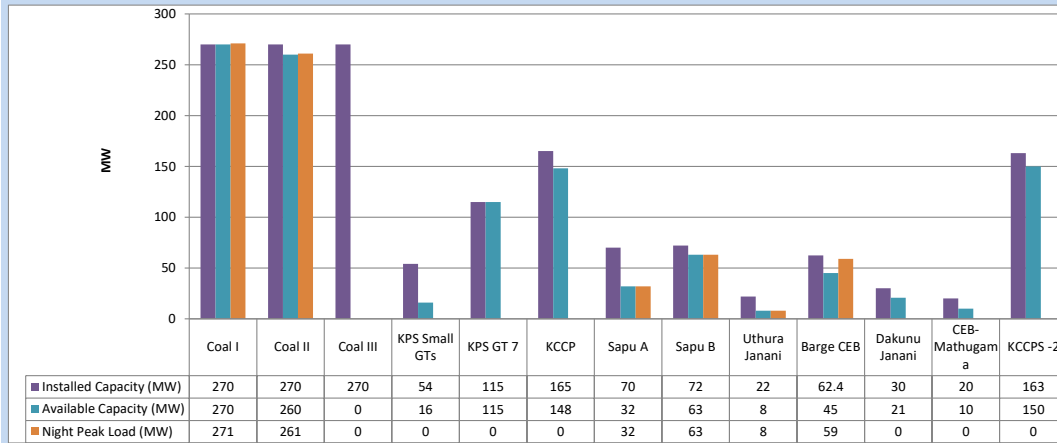
July 6, 2024



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

July 7, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

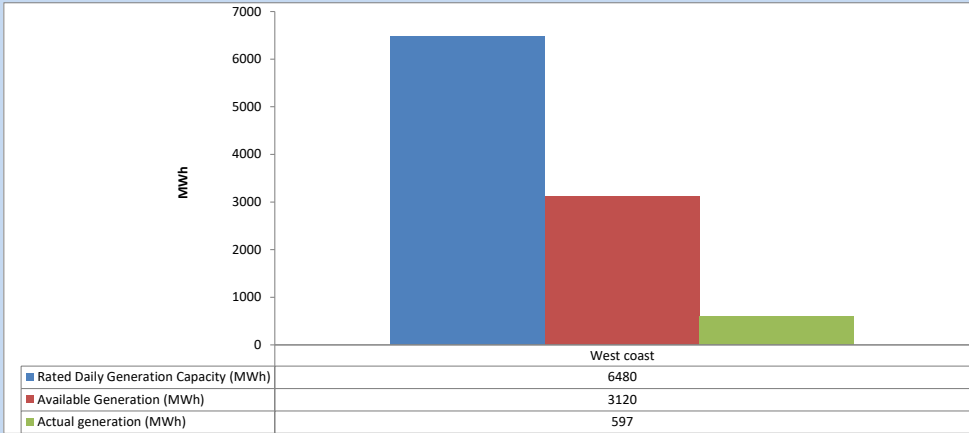


Plant availability is recorded at 6.00 am on

July 7, 2024

5. IPP owned Thermal Plant Dispatch

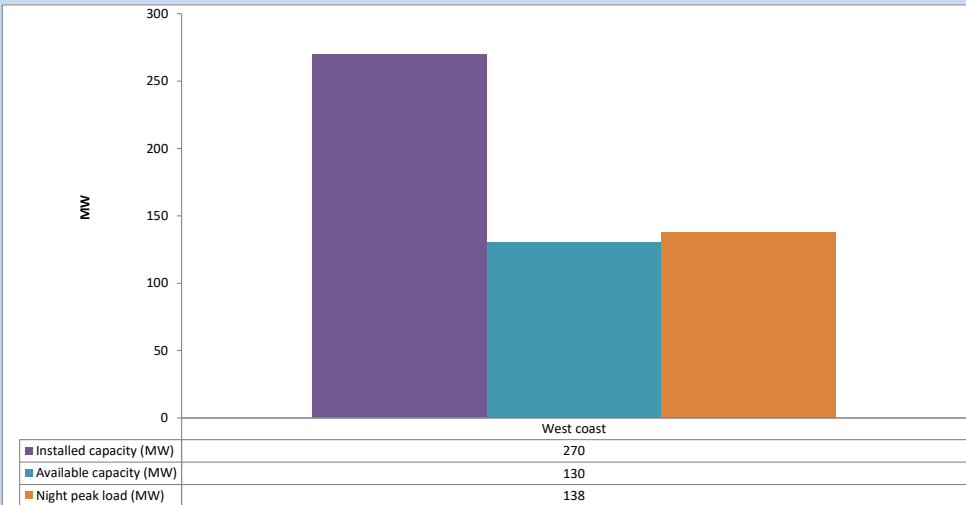
July 6, 2024



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

July 7, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

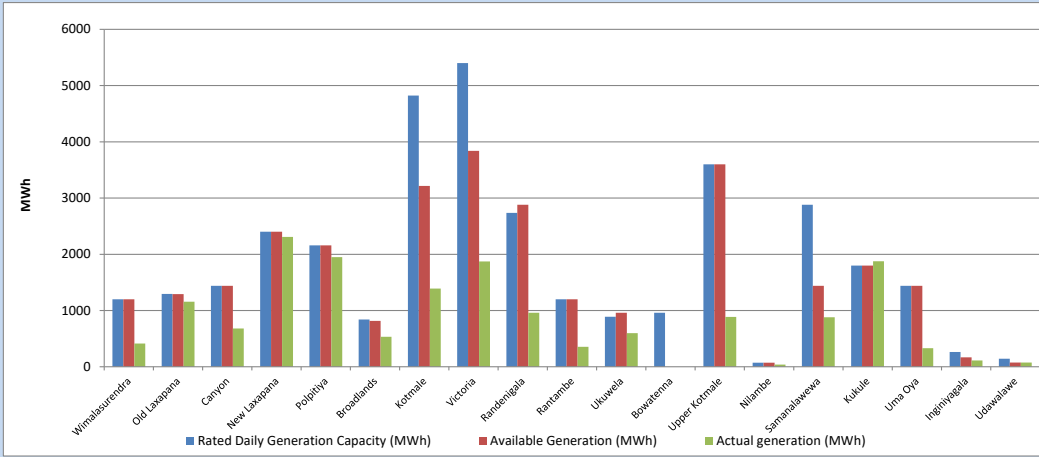


Plant availability is recorded at 6.00 am on

July 7, 2024

7. Major Hydro Plant Dispatch

July 6, 2024

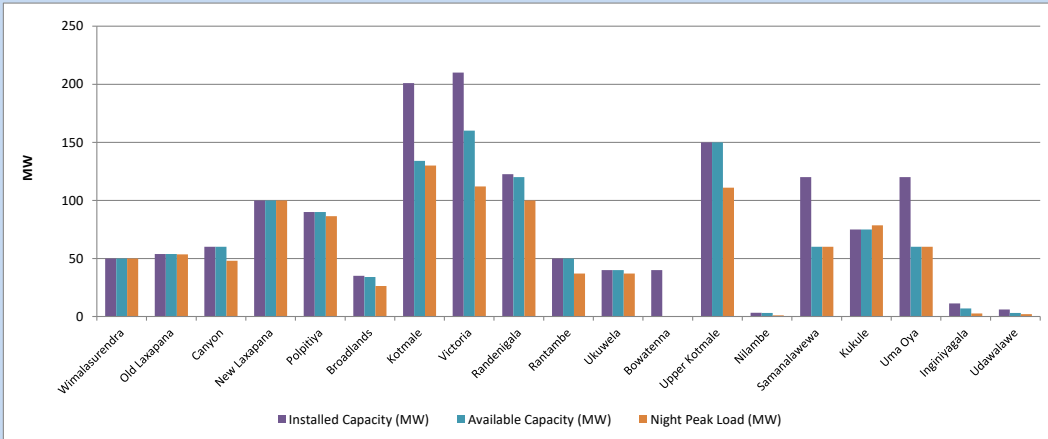


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 7, 2024

8. Major Hydro Plant Loading at Night Peak

July 6, 2024



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

July 7, 2024

9. Summary of Major Plant performance

Table 05

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	414
Old Laxapana	54	54	54	1,156
Canyon	60	60	48	679
New Laxapana	100	100	100	2,309
Polpitiya	90	90	86	1,950
Broadlands	35	34	26	534
Kotmale	201	134	130	1,390
Victoria	210	160	112	1,873
Randenigala	123	120	100	960
Rantambe	50	50	37	356
Ukuwela	40	40	37	596
Bowatenna	40	0	0	0
Upper Kotmale	150	150	111	887
Nilambe	3	3	1	38
Samanalawewa	120	60	60	881
Kukule	75	75	79	1,877
Uma Oya (Testing)	120	60	60	330
Inginiyagala	11	7	3	112
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	271	6,522
Puttalam Coal II	270	260	261	6,285
Puttalam Coal III	270	0	0	0
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	0	0
Sapugaskanda A	70	32	32	489
Sapugaskanda B	72	63	63	462
Uthura Janani	22	8	8	226
Barge CEB	62	45	59	1,045
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	10	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	138	597
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,518	2,266	40,848

Note-

Plant availability is the availability recorded at 6 am on

July 7, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 6, 2024

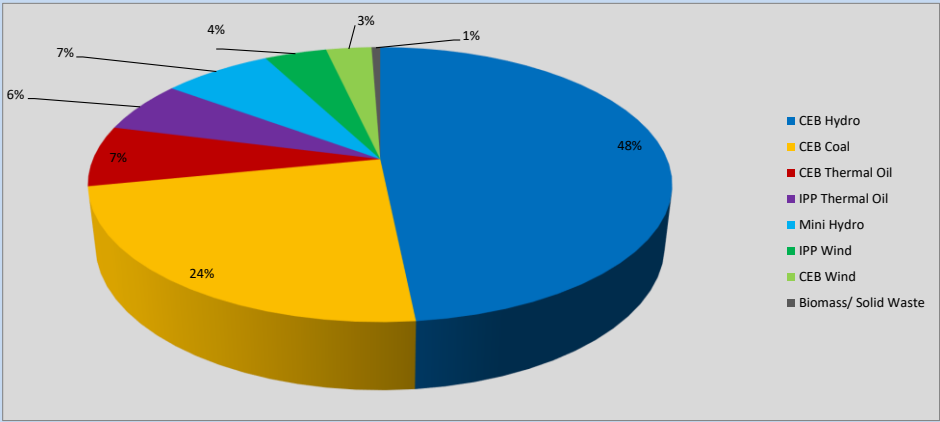


Table 06

CEB Hydro	1097	MW
CEB Coal	532	MW
CEB Thermal Oil	162	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	164	MW
IPP Wind	93.5	MW
CEB Wind	68.3	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

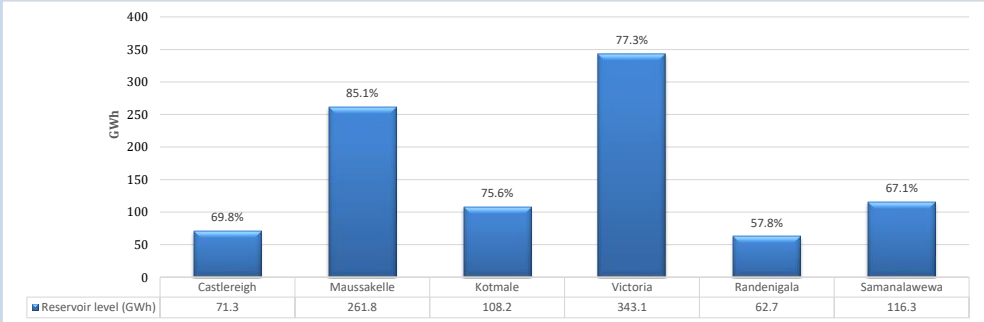
Table 07

Night Peak*	2,268	MW
Day Peak Maximum Demand	1,795	MW
Day Peak Minimum Demand	1,555	MW
Off Peak Minimum Demand	1,363	MW

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

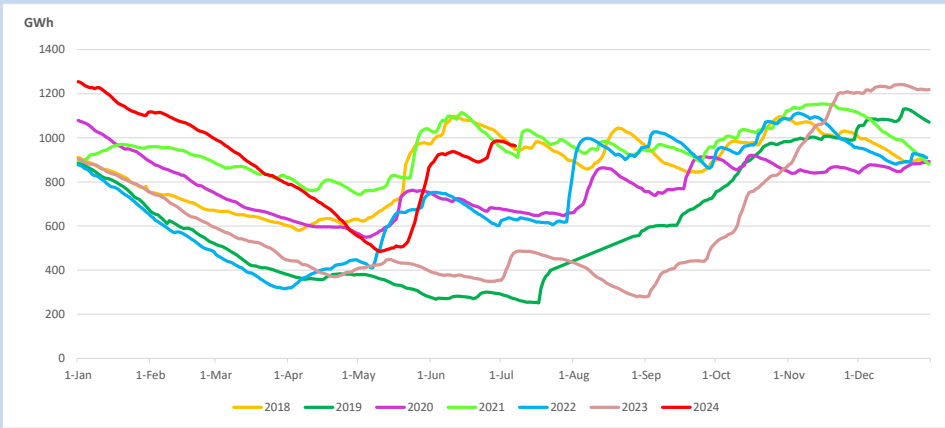
Reservoir Levels -

as at 06.00 Hr on July 7, 2024

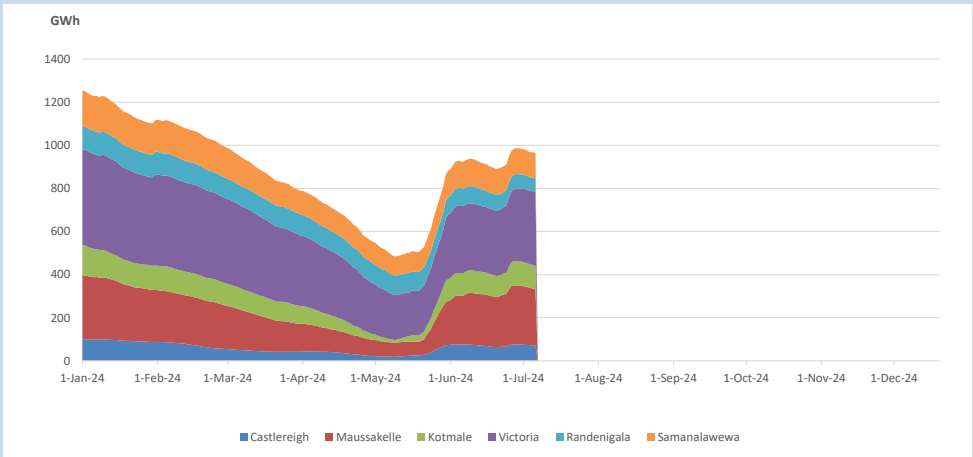


Total Reservoir Level 963.4 GWh
% of Total capacity 75.4%

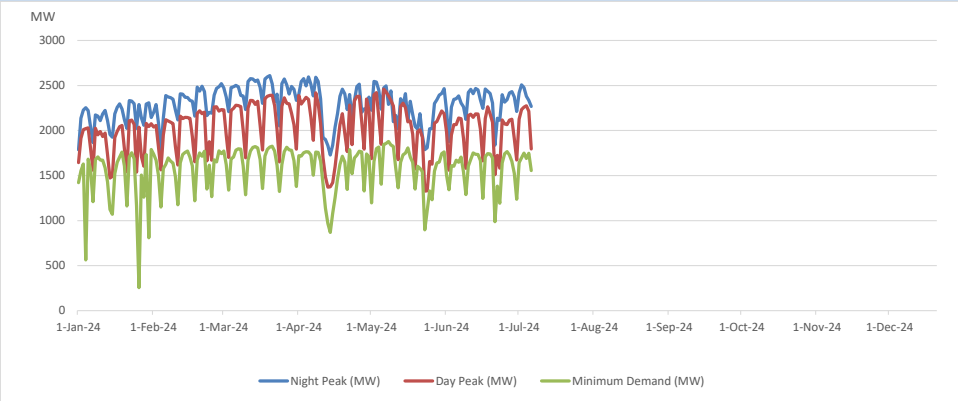
11. Comparison of Total Reservoir Storage Levels with Past Years



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



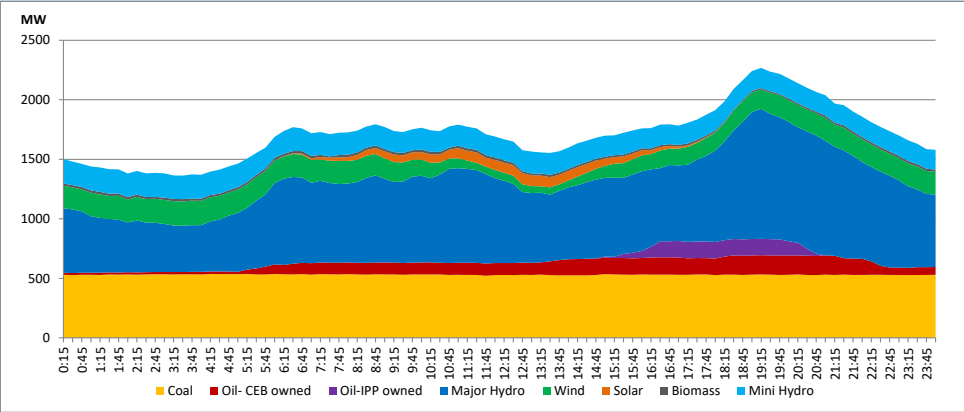
13. Variation of Demand during the current year



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

14. Daily Load Curve

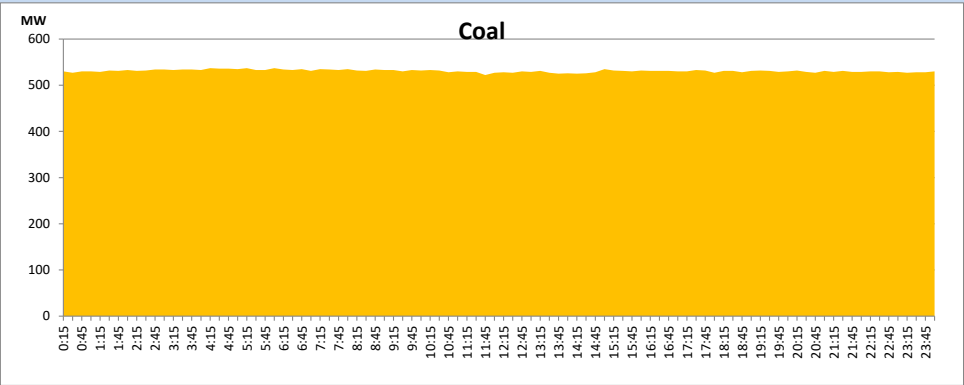
July 6, 2024



Solar and wind data is based on Telemetered Power Stations only

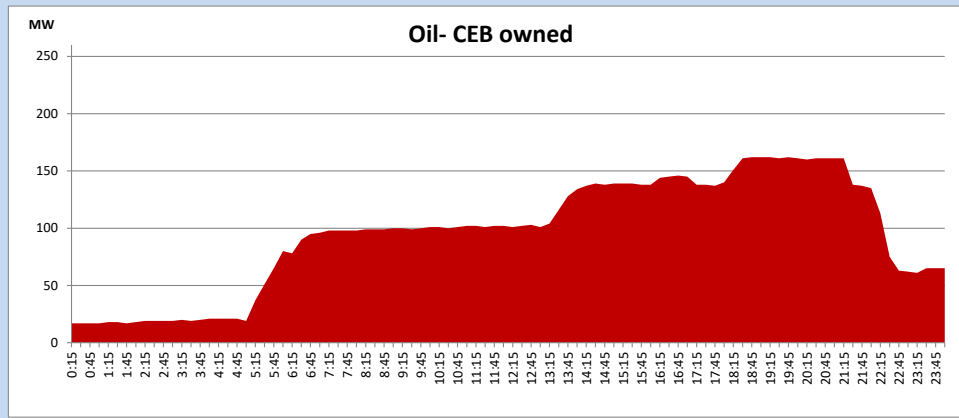
Coal Generation during

July 6, 2024



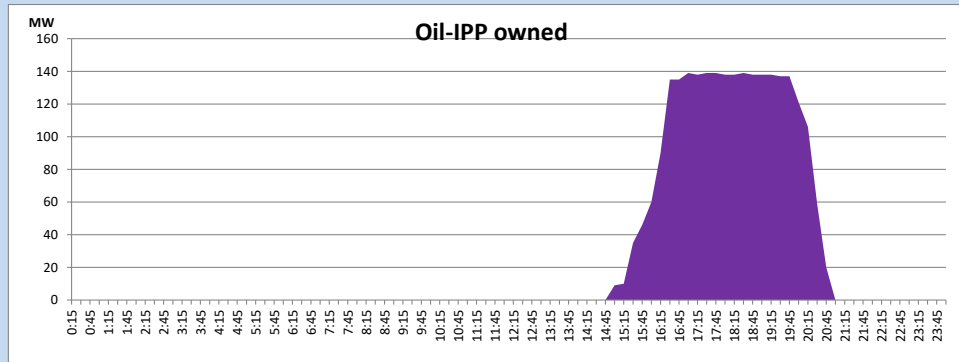
CEB Oil Plant Generation during

July 6, 2024



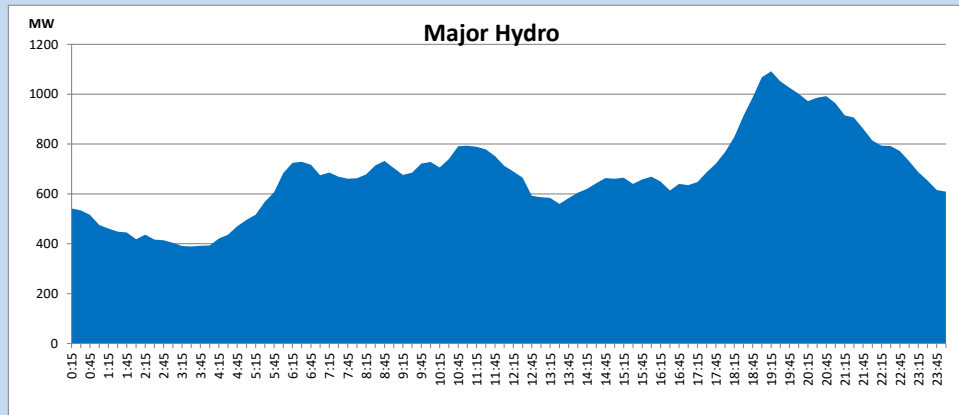
IPP Oil Plant Generation during

July 6, 2024



Major Hydro Generation during

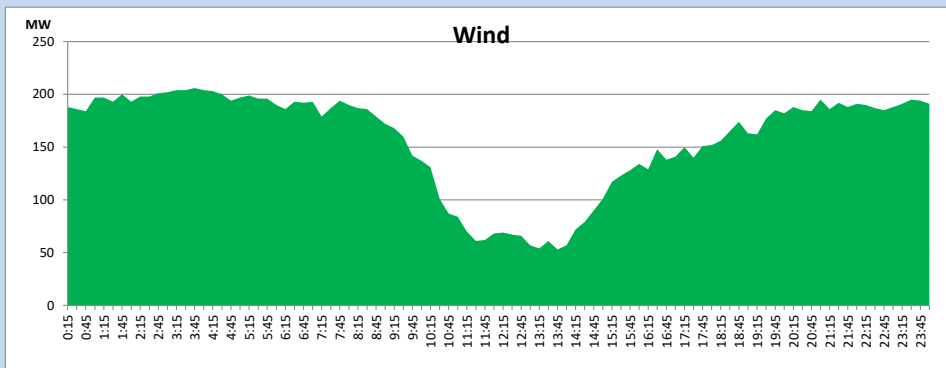
July 6, 2024



Wind Generation during

July 6, 2024

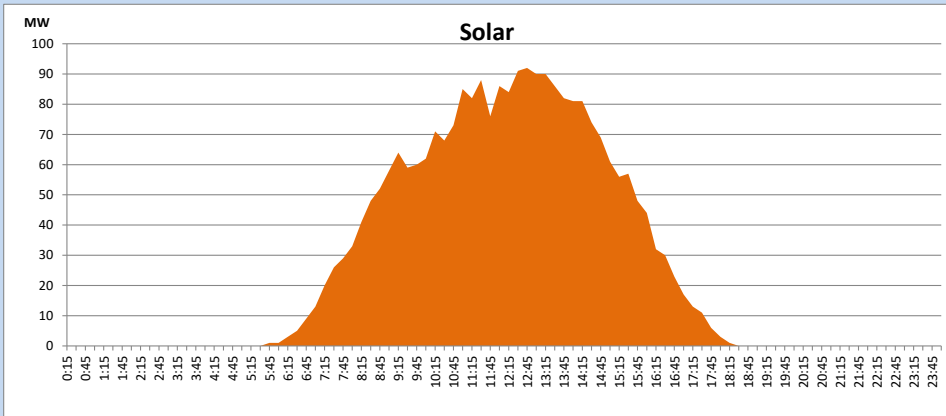
Based on Telemetered Power Stations only



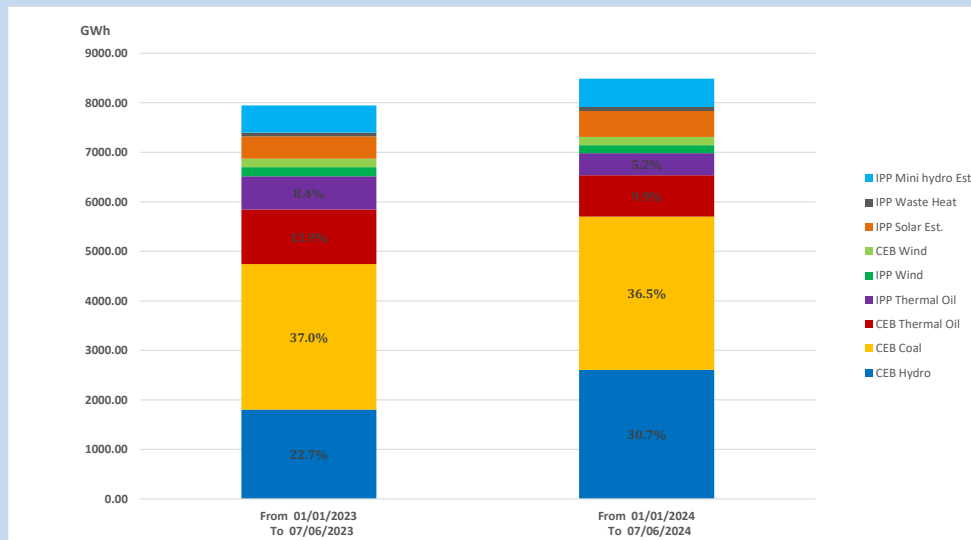
Solar Generation during

July 6, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/06/2023

7947 GWh

From 01/01/2024 To 07/06/2024

8487 GWh

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

Unservd energy due to power cuts has been excluded in 2023

Thermal Plant Fuel types

Table 08

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
Sobadhanavi	Auto Diesel

Major Incidents reported during the day

July 6, 2024

- 1) New Laxapana Unit 02 tripped at 13:07hrs rejecting 50MW from the system, due to generator stable status loss. The unit resumed generation at 14:10hrs.
- 2) Biyagama 220/132/33kV T/F 02 tripped from all ends at 14:04hrs due to the operation of LV REF. The T/F normalized at 14:48hrs.
- 3) Kukule pond spilling stopped at 05:00hrs (07.07.2024).