

Generation and Reservoirs Statistics

July 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

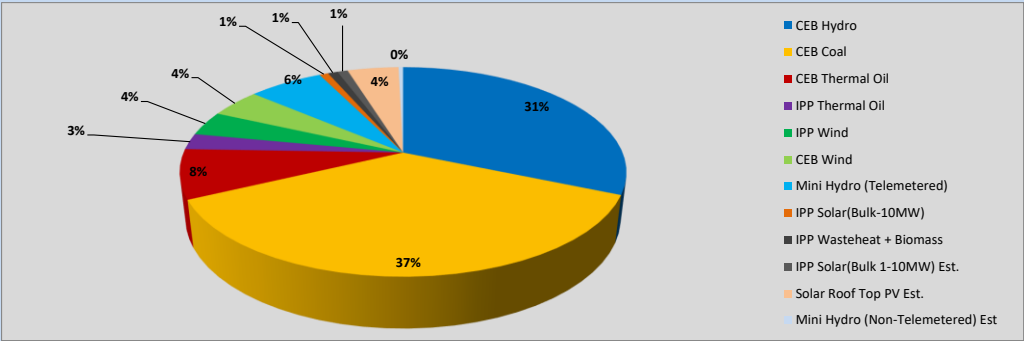


Table 01

	Generation (MWh)
CEB Hydro	15,372
CEB Coal	17,932
CEB Thermal Oil	3,730
IPP Thermal Oil	1,211
IPP Wind	1,851
CEB Wind	2,169
Mini Hydro (Telemetered)	3,163
IPP Solar (Bulk)	378
IPP Waste heat + Biomass	412
Total Generation (Excluding estimated figures)	46,218
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	191
* Estimated IPP Solar PV (Bulk 1-10MW)	442
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	49,021

* 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	48	33.33%
CEB Coal	52	35.90%
CEB Thermal Oil	10	7.25%
IPP Thermal	3	1.87%
SPP Wind	5	3.69%
CEB Wind	6	4.04%
Mini Hydro *	10	6.85%
IPP Solar *	9	6.32%
IPP Waste heat + BMP	1	0.76%
Total	144	

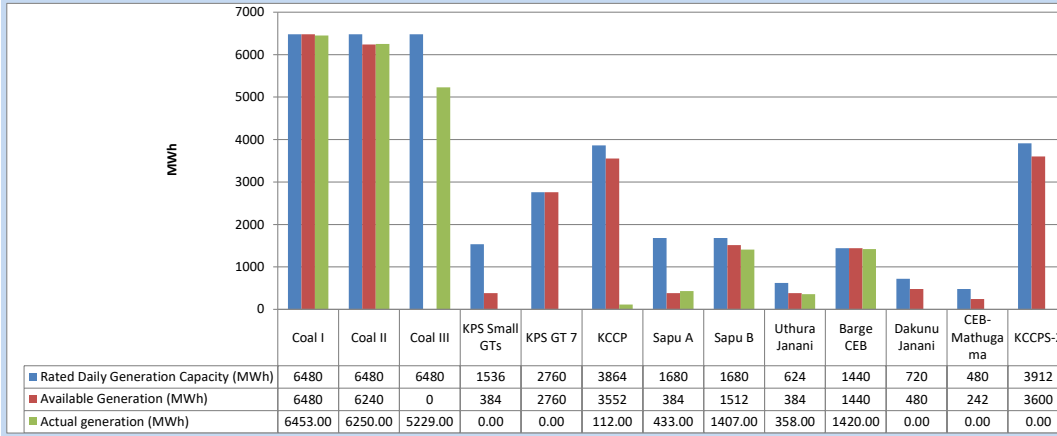
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,557	30.66%
CEB Coal	3,056	36.65%
CEB Thermal Oil	827	9.92%
IPP Thermal	435	5.22%
SPP Wind	156	1.87%
CEB Wind	162	1.94%
Mini Hydro *	571	6.85%
IPP Solar *	500	6.00%
IPP Waste heat	74	0.89%
Total	8,340	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

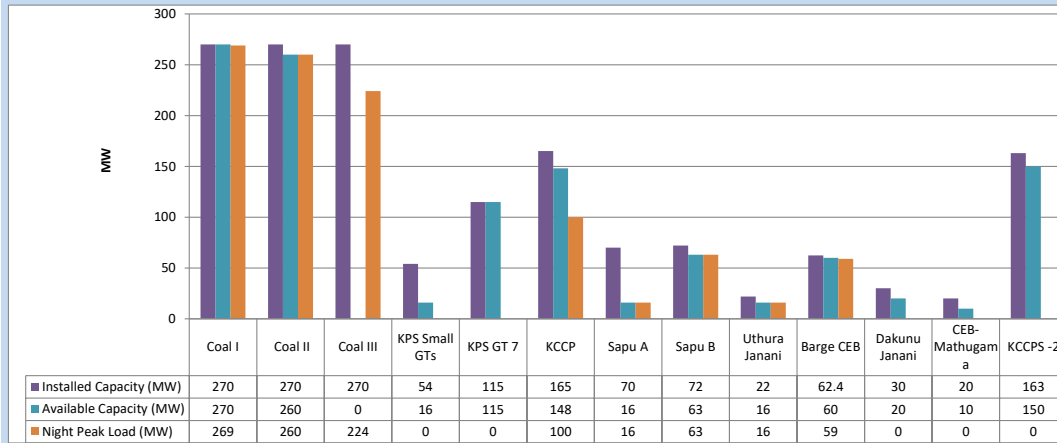
July 3, 2024



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

July 4, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

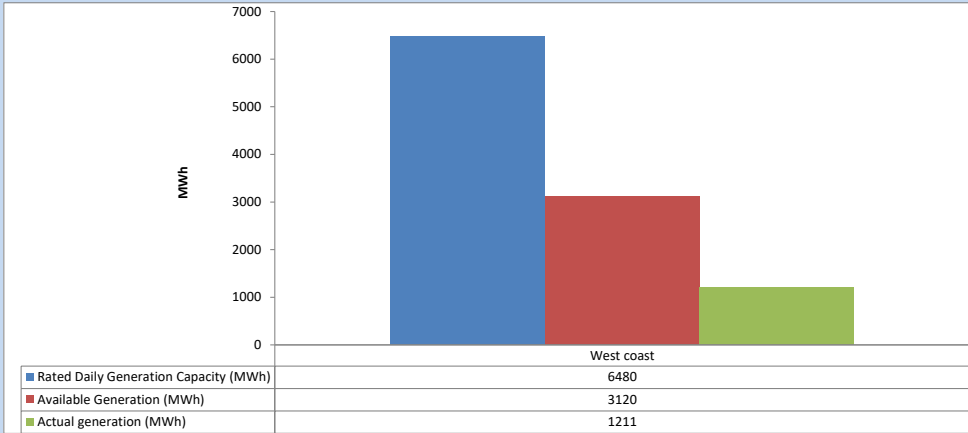


Plant availability is recorded at 6.00 am on

July 4, 2024

5. IPP owned Thermal Plant Dispatch

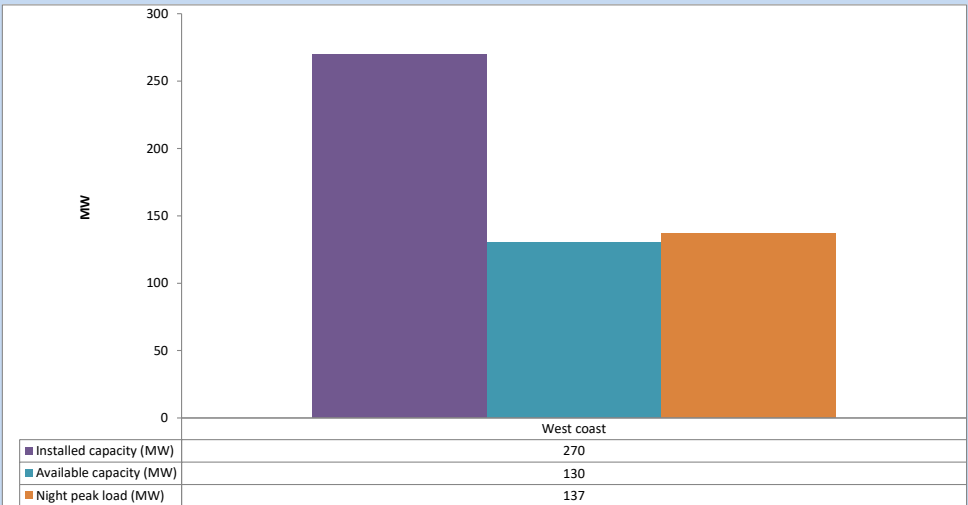
July 3, 2024



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

July 4, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

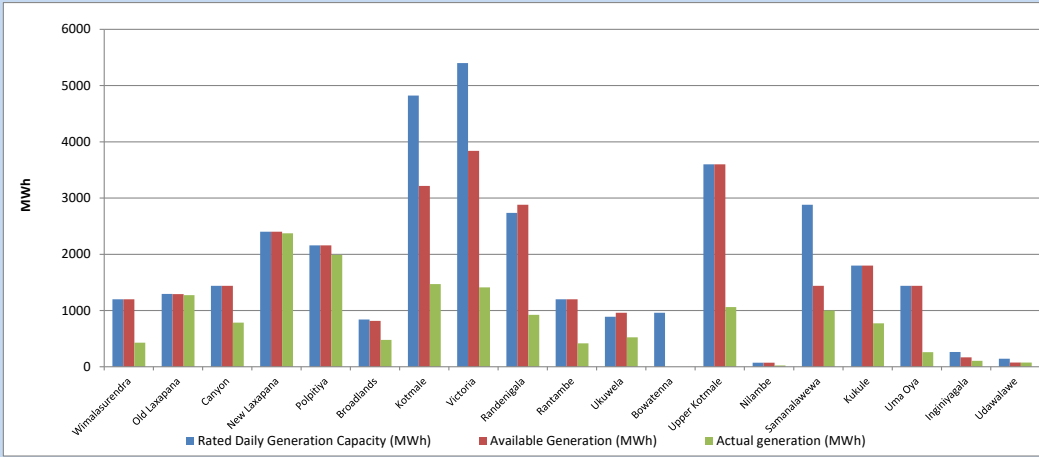


Plant availability is recorded at 6.00 am on

July 4, 2024

7. Major Hydro Plant Dispatch

July 3, 2024

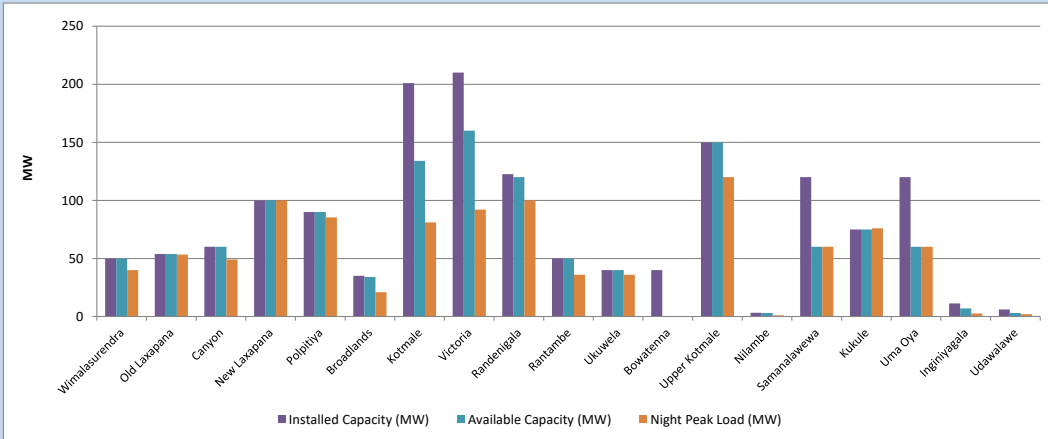


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 4, 2024

8. Major Hydro Plant Loading at Night Peak

July 3, 2024



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

July 4, 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	40	427
Old Laxapana	54	54	53	1,272
Canyon	60	60	49	785
New Laxapana	100	100	100	2,375
Polpitiya	90	90	85	1,990
Broadlands	35	34	21	477
Kotmale	201	134	81	1,470
Victoria	210	160	92	1,411
Randenigala	123	120	100	924
Rantambe	50	50	36	415
Ukuwela	40	40	36	525
Bowatenna	40	0	0	0
Upper Kotmale	150	150	120	1,063
Nilambe	3	3	1	24
Samanalawewa	120	60	60	1,001
Kukule	75	75	76	774
Uma Oya (Testing)	120	60	60	259
Inginiyagala	11	7	3	106
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	269	6,453
Puttalam Coal II	270	260	260	6,250
Puttalam Coal III	270	0	224	5,229
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	100	112
Sapugaskanda A	70	16	16	433
Sapugaskanda B	72	63	63	1,407
Uthura Janani	22	16	16	358
Barge CEB	62	60	59	1,420
CEB-Hambantota	30	20	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	137	1,211
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,524	2,471	46,218

Note-

Plant availability is the availability recorded at 6 am on

July 4, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 3, 2024

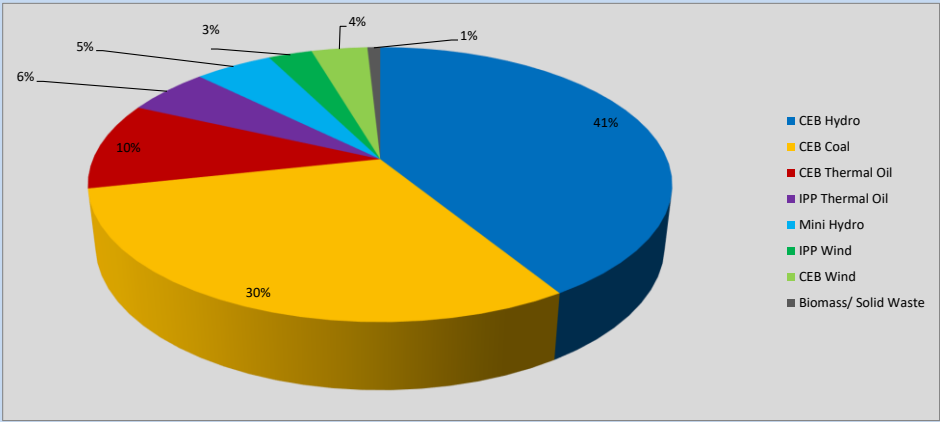


Table 06

CEB Hydro	1020	MW
CEB Coal	753	MW
CEB Thermal Oil	254	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	127	MW
IPP Wind	71.9	MW
CEB Wind	91.8	MW
Biomass/ Solid Waste	21	MW

Recorded Peak Demand Data

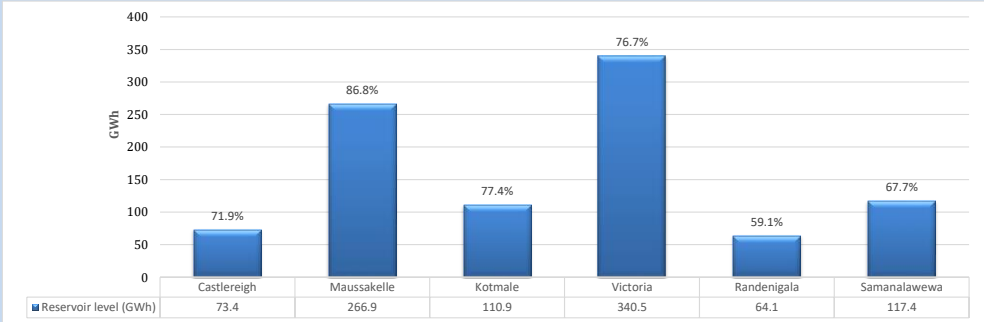
Table 07

Night Peak*	2,476	MW
Day Peak Maximum Demand	2,259	MW
Day Peak Minimum Demand	1,750	MW
Off Peak Minimum Demand	1,517	MW

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

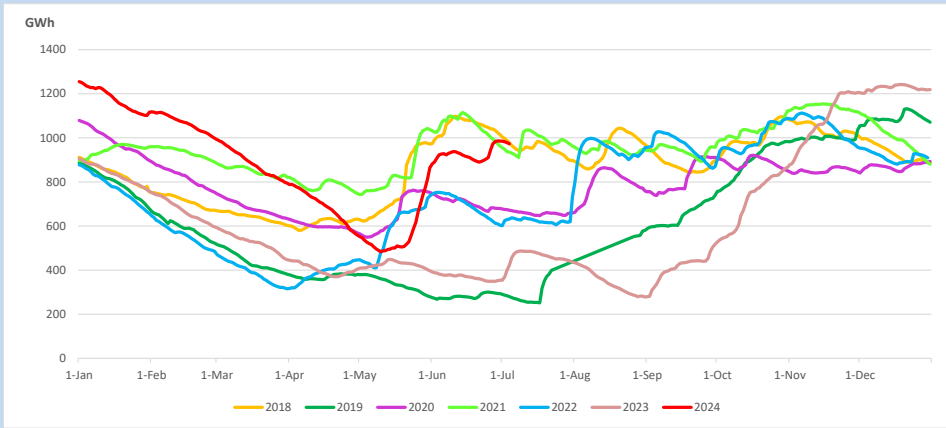
Reservoir Levels -

as at 06.00 Hr on July 4, 2024

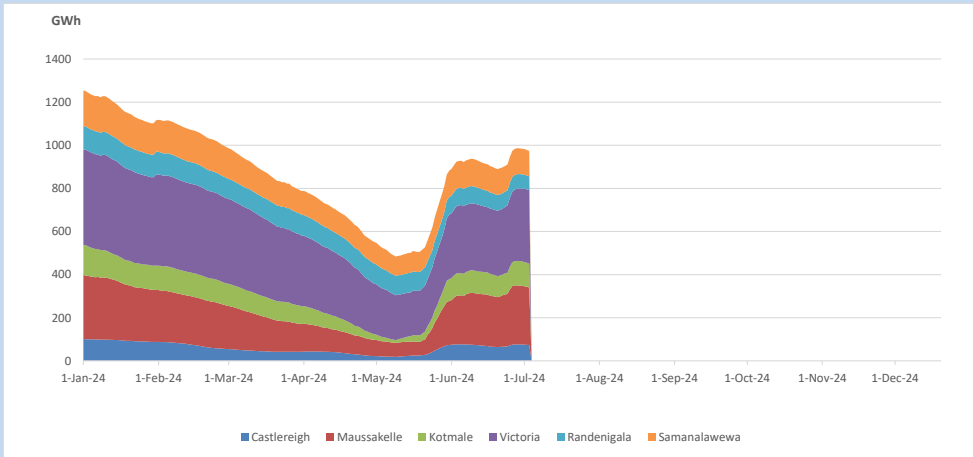


Total Reservoir Level 973.2 GWh
% of Total capacity 76.1%

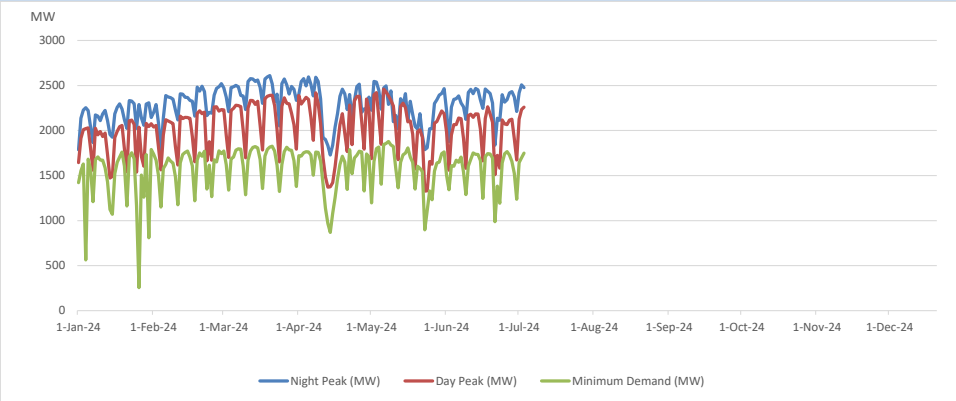
11. Comparison of Total Reservoir Storage Levels with Past Years



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



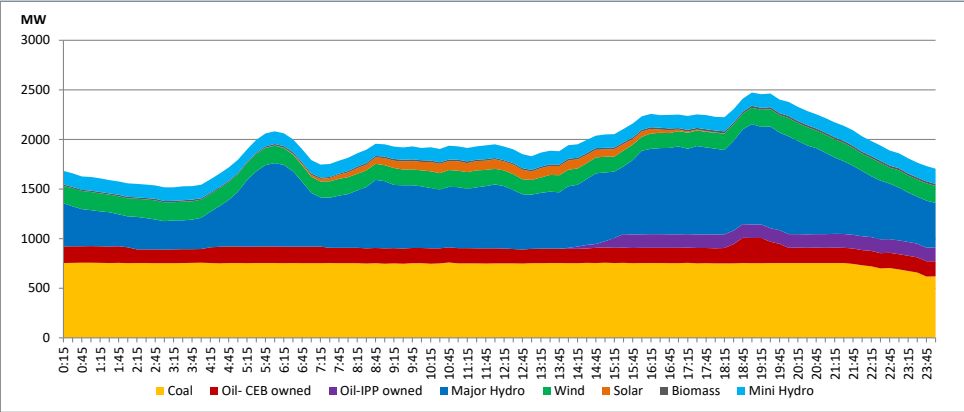
13. Variation of Demand during the current year



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

14. Daily Load Curve

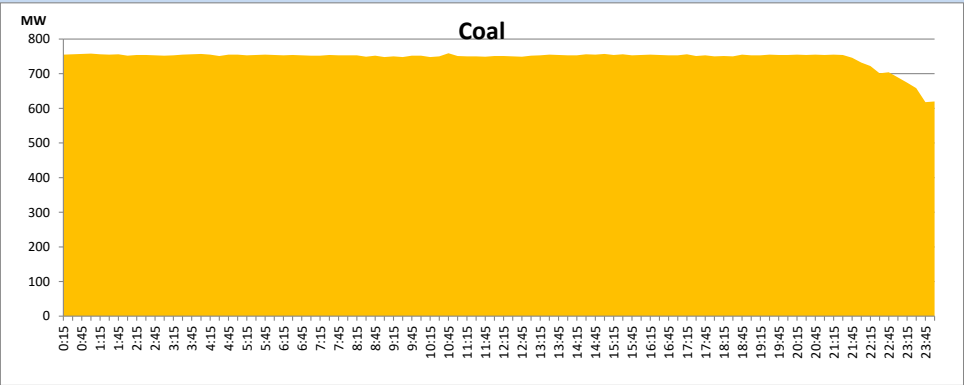
July 3, 2024



Solar and wind data is based on Telemetered Power Stations only

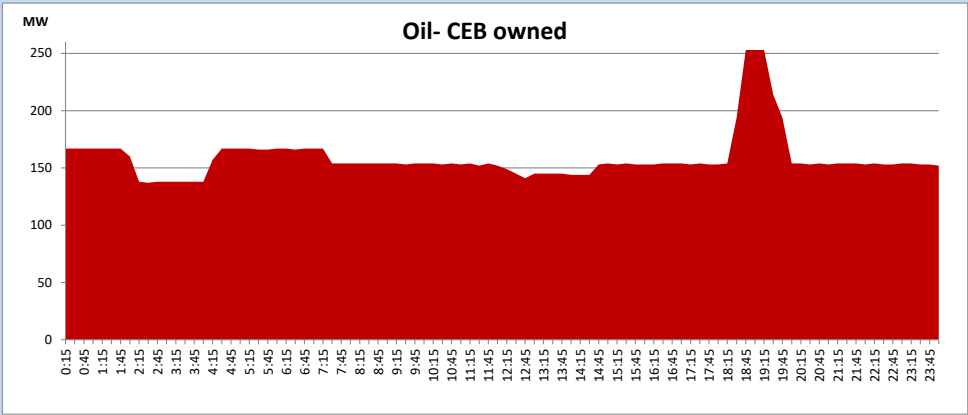
Coal Generation during

July 3, 2024



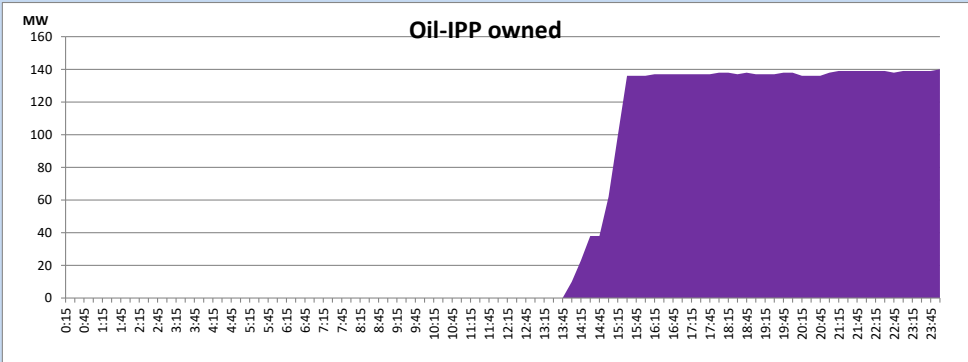
CEB Oil Plant Generation during

July 3, 2024



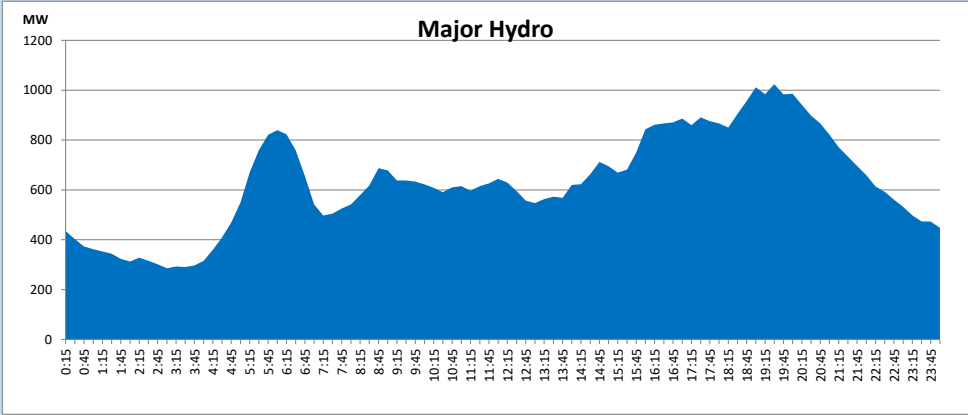
IPP Oil Plant Generation during

July 3, 2024



Major Hydro Generation during

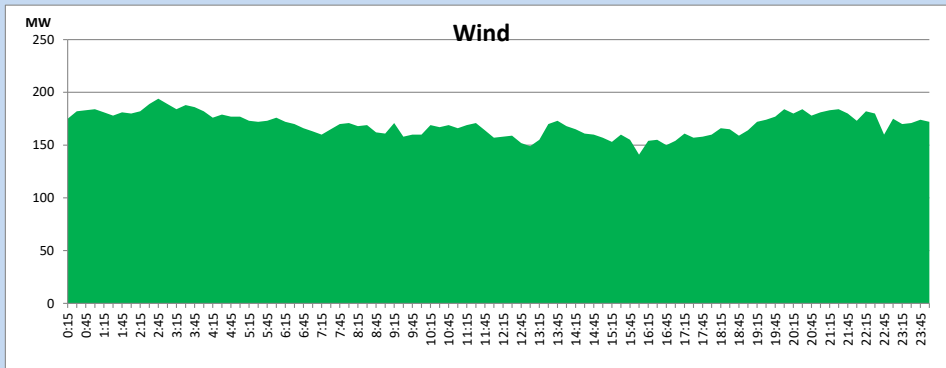
July 3, 2024



Wind Generation during

July 3, 2024

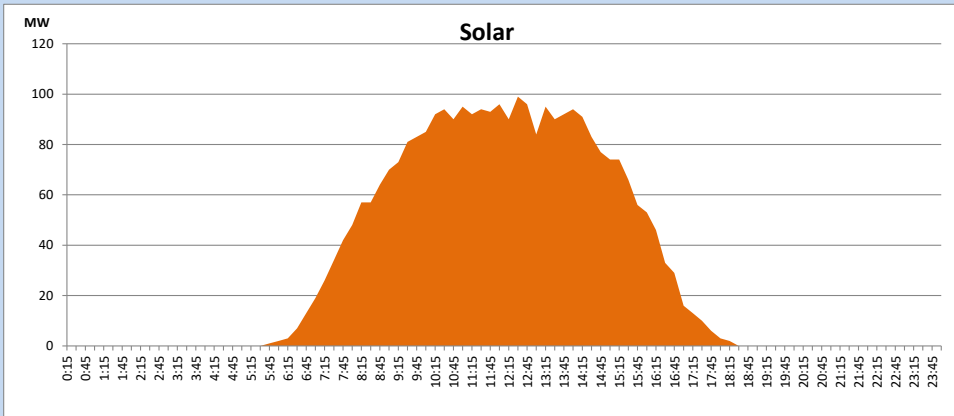
Based on Telemetered Power Stations only



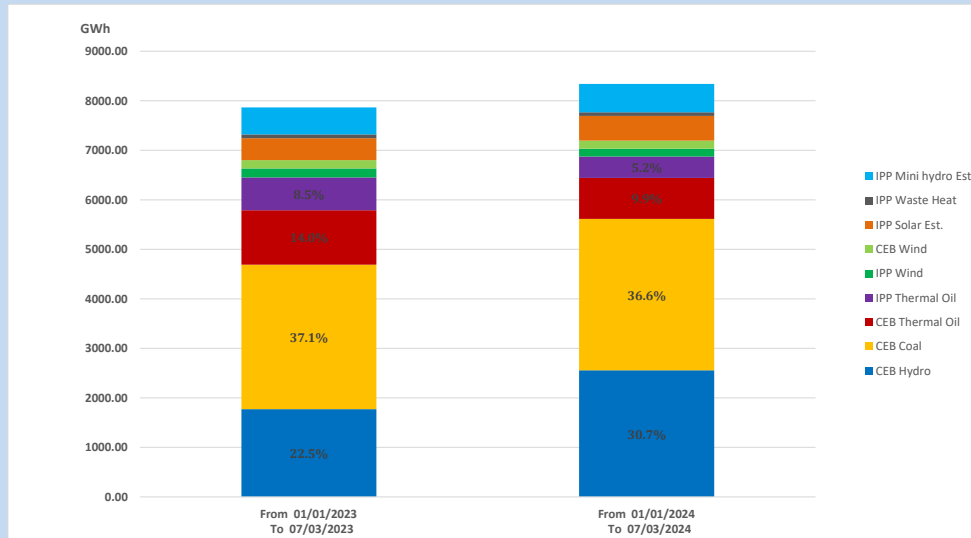
Solar Generation during

July 3, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/03/2023

7865 GWh

From 01/01/2024 To 07/03/2024

8340 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 3, 2024

- 1) Biyagama - Kotmale 220kV cct 02 manually switched off at 13:30hrs due to an insulator breakdown at Kotmale end. Biyagama Kotmale cct 02 restored at 19:04hrs.
- 2) Biyagama 220/132/33kV T/F 02, which was manually switched off on 25/06/2024, was normalized at 18:37hrs.
- 3) LVPS unit 03 shut down and desynchronized from the system at 00:40hrs (04/07/2024) due to an ovation communication rectification. LVPS unit 03 is yet to resumegeneration.