

Generation and Reservoirs Statistics

June 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

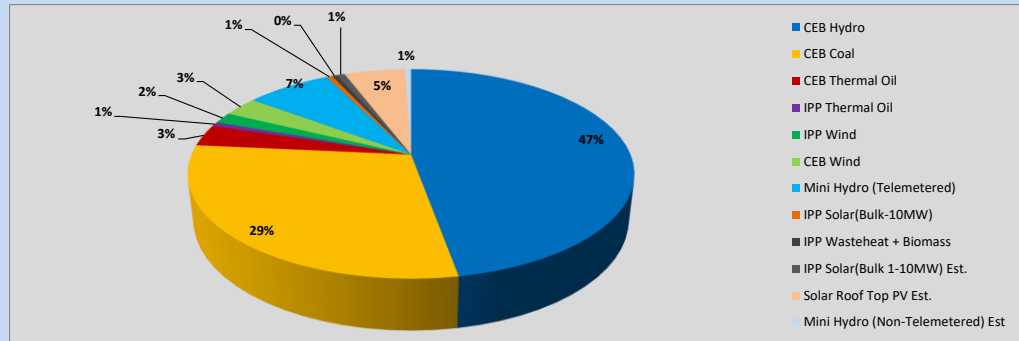


Table 01

	Generation (MWh)
CEB Hydro	20,763
CEB Coal	12,918
CEB Thermal Oil	1,462
IPP Thermal Oil	302
IPP Wind	735
CEB Wind	1,327
Mini Hydro (Telemetered)	3,247
IPP Solar (Bulk)	224
IPP Waste heat + Biomass	191
Total Generation (Excluding estimated figures)	41,169
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	234
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	44,027

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1530
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	148
CEB Wind	100
Mini Hydro	416
IPP Waste heat + Biomass	50
IPP Solar	110
Rooftop Solar (Ordinary)	250
Rooftop Solar (LT Bulk)	234
Rooftop Solar (HT Bulk)	56

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	21	47.17%
CEB Coal	13	29.36%
CEB Thermal Oil	1	3.32%
IPP Thermal	0	0.68%
SPP Wind	1	1.66%
CEB Wind	1	3.02%
Mini Hydro *	3	7.91%
IPP Solar *	3	6.45%
IPP Waste heat + BMP	0	0.43%
Total	44	

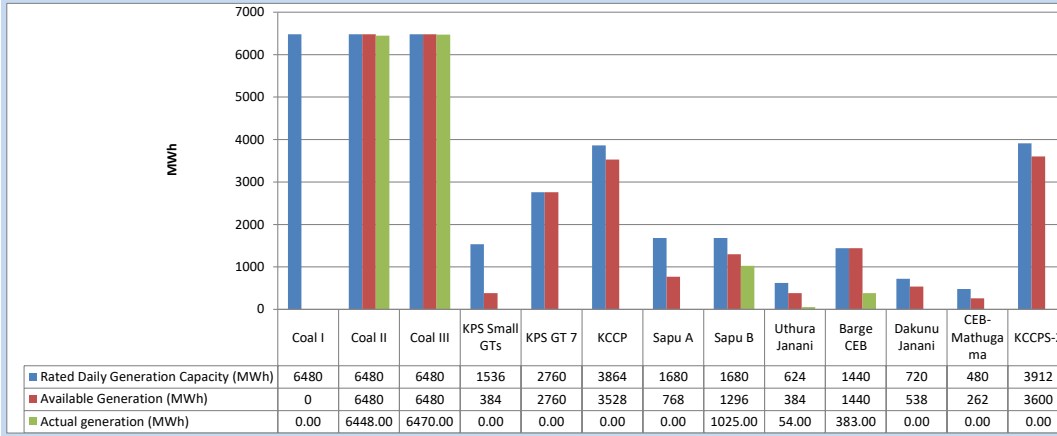
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,061	30.07%
CEB Coal	2,492	36.36%
CEB Thermal Oil	836	12.20%
IPP Thermal	418	6.10%
SPP Wind	88	1.29%
CEB Wind	96	1.39%
Mini Hydro *	419	6.11%
IPP Solar *	384	5.60%
IPP Waste heat	60	0.88%
Total	6,855	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

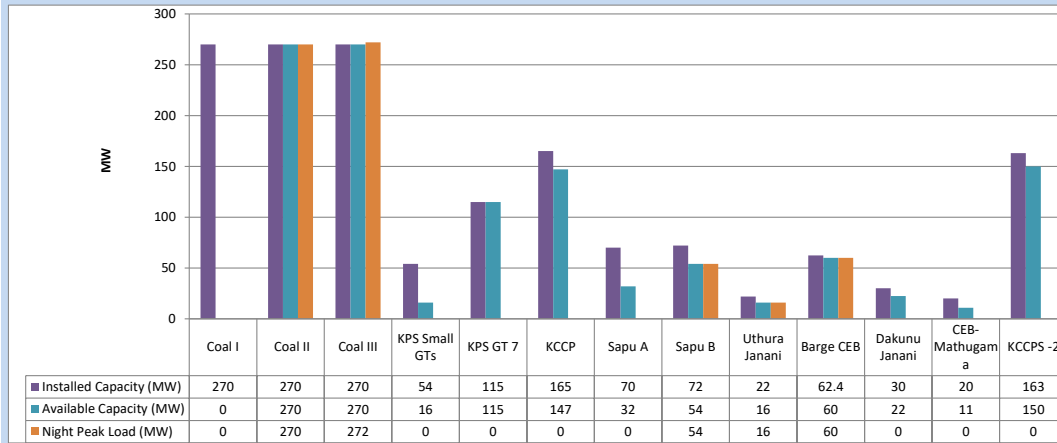
June 1, 2024



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

June 2, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

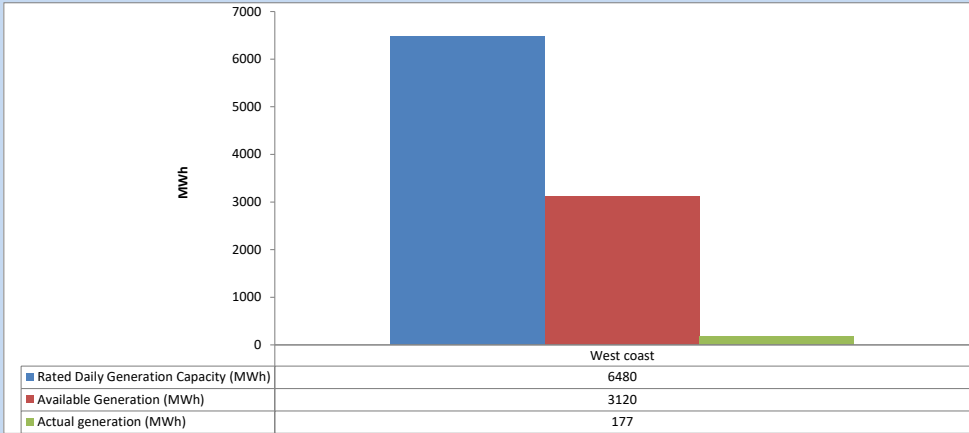


Plant availability is recorded at 6.00 am on

June 2, 2024

5. IPP owned Thermal Plant Dispatch

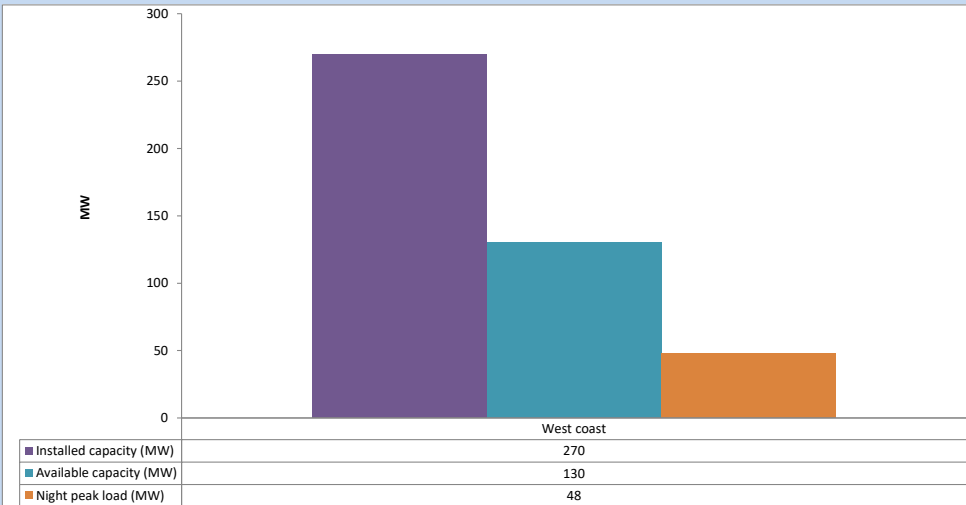
June 1, 2024



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

June 2, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

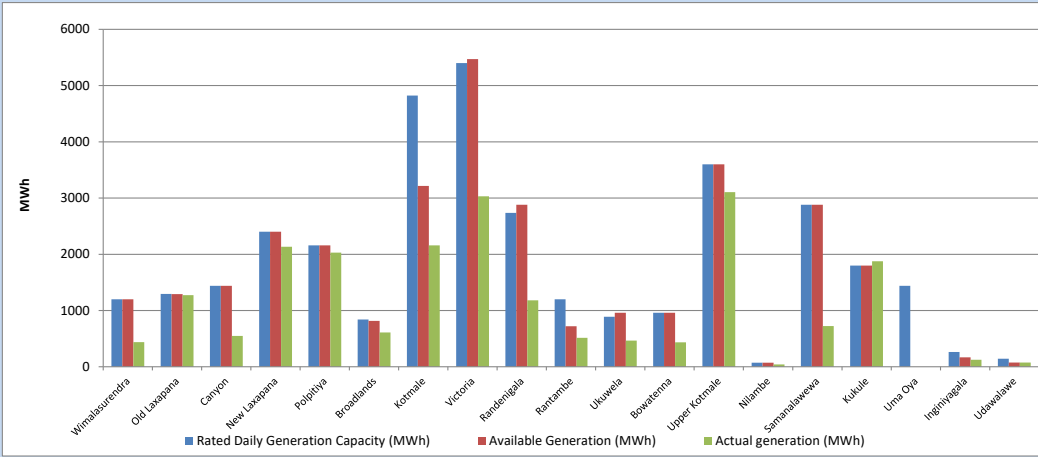


Plant availability is recorded at 6.00 am on

June 2, 2024

7. Major Hydro Plant Dispatch

June 1, 2024

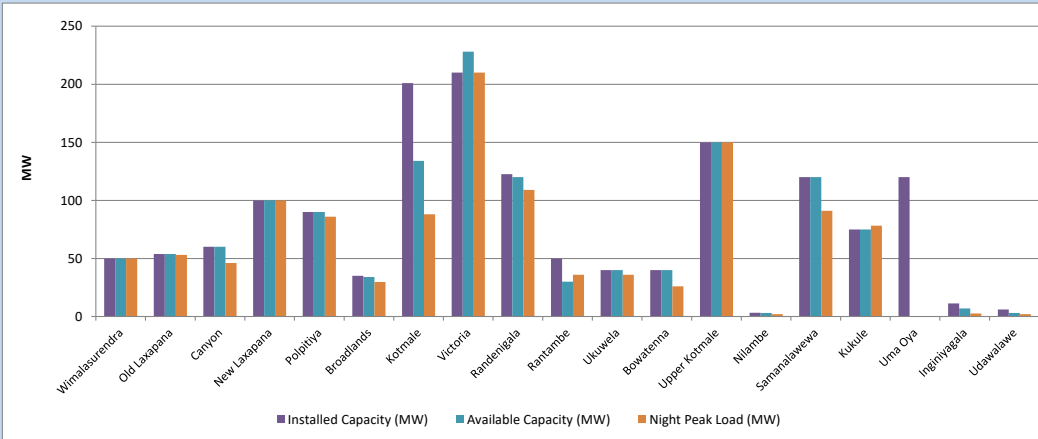


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 2, 2024

8. Major Hydro Plant Loading at Night Peak

June 1, 2024



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

June 2, 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	439
Old Laxapana	54	54	53	1,273
Canyon	60	60	46	547
New Laxapana	100	100	100	2,133
Polpitiya	90	90	86	2,030
Broadlands	35	34	30	610
Kotmale	201	134	88	2,160
Victoria	210	228	210	3,032
Randenigala	123	120	109	1,181
Rantambe	50	30	36	516
Ukuwela	40	40	36	464
Bowatenna	40	40	26	434
Upper Kotmale	150	150	150	3,105
Nilambe	3	3	2	41
Samanalawewa	120	120	91	725
Kukule	75	75	78	1,877
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	123
Udawalawe	6	3	2	74
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,448
Puttalam Coal III	270	270	272	6,470
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	54	54	1,025
Uthura Janani	22	16	16	54
Barge CEB	62	60	60	383
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	48	177
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	125
Total	3,594	2,631	2,217	41,170

Note-

Plant availability is the availability recorded at 6 am on

June 2, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

June 1, 2024

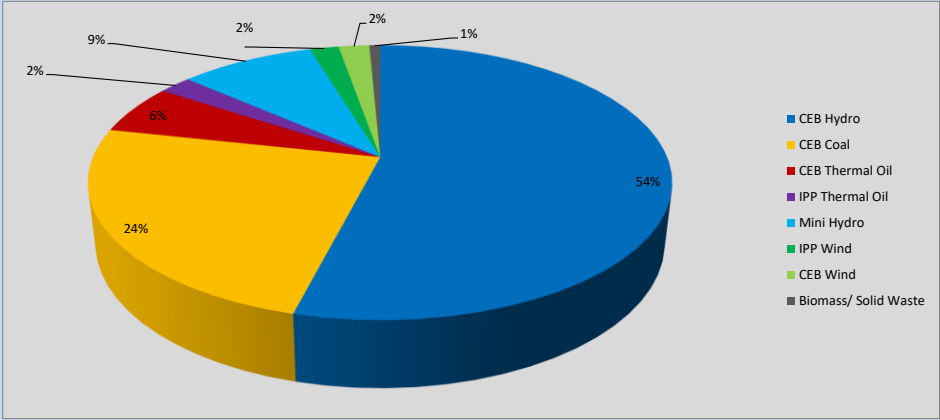


Table 06

CEB Hydro	1199	MW
CEB Coal	542	MW
CEB Thermal Oil	130	MW
IPP Thermal Oil	48	MW
Mini Hydro (Telemetered)	198	MW
IPP Wind	42.6	MW
CEB Wind	45.1	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

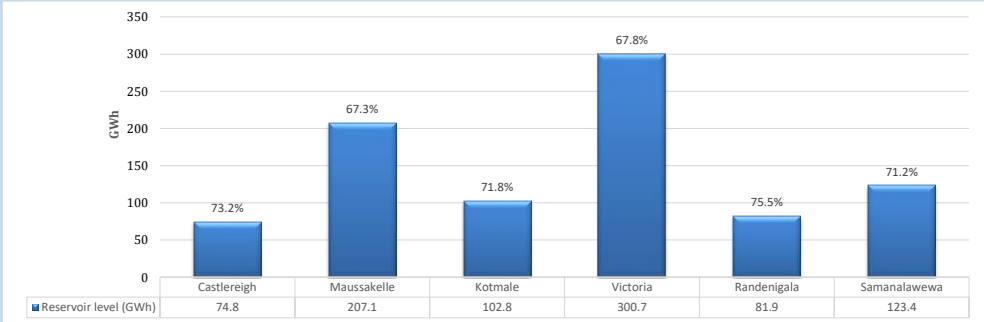
Table 07

Night Peak*	2,220	MW
Day Peak Maximum Demand	1,982	MW
Day Peak Minimum Demand	1,502	MW
Off Peak Minimum Demand	1,279	MW

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

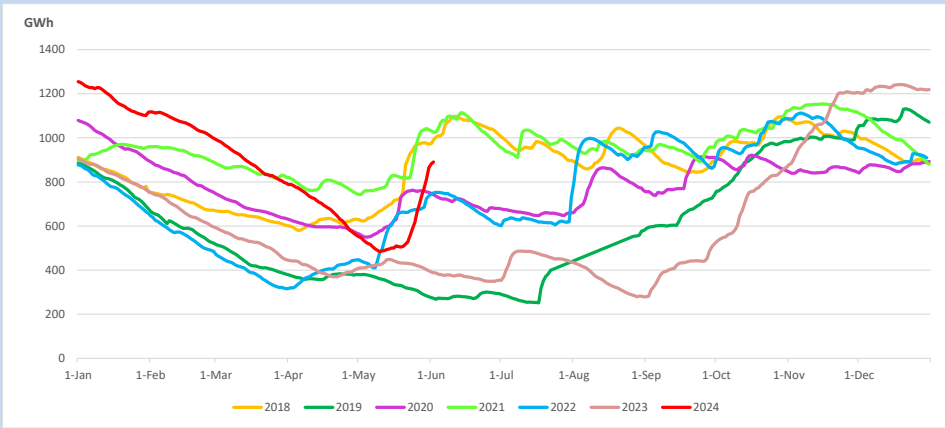
Reservoir Levels -

as at 06.00 Hr on June 2, 2024

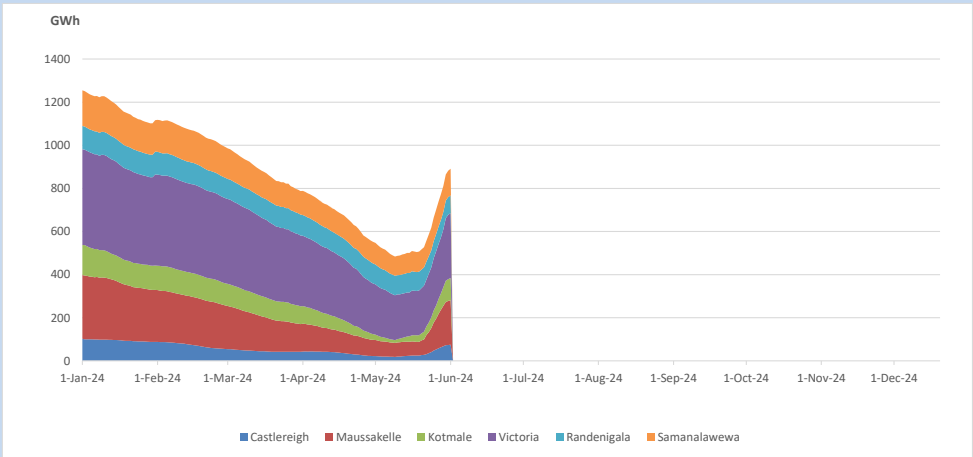


Total Reservoir Level 890.7 GWh
% of Total capacity 69.7%

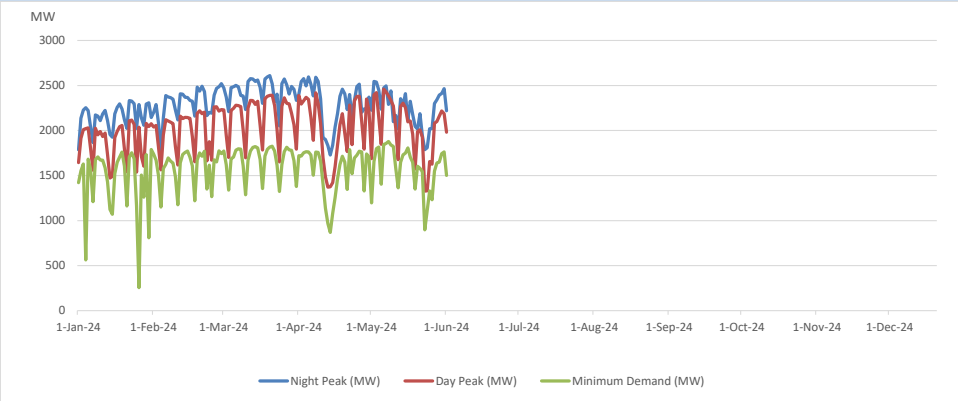
11. Comparison of Total Reservoir Storage Levels with Past Years



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



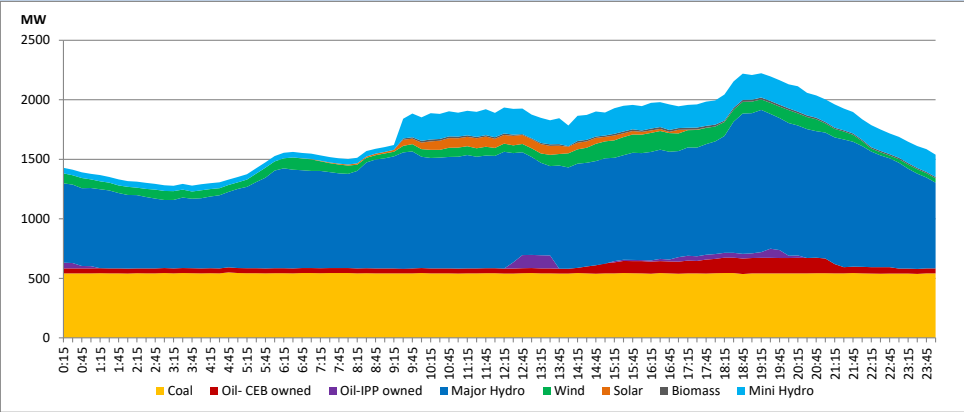
13. Variation of Demand during the current year



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

14. Daily Load Curve

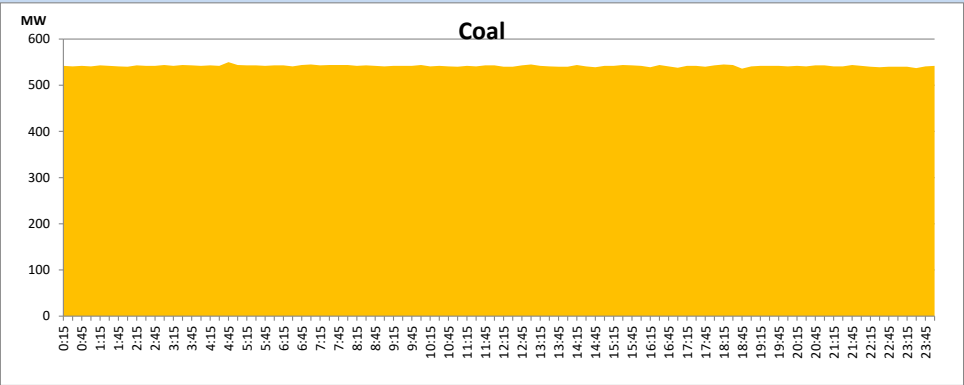
June 1, 2024



Solar and wind data is based on Telemetered Power Stations only

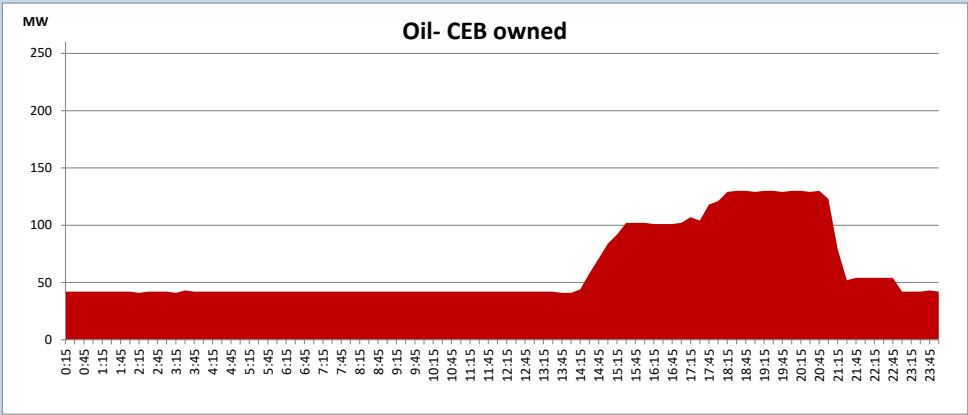
Coal Generation during

June 1, 2024



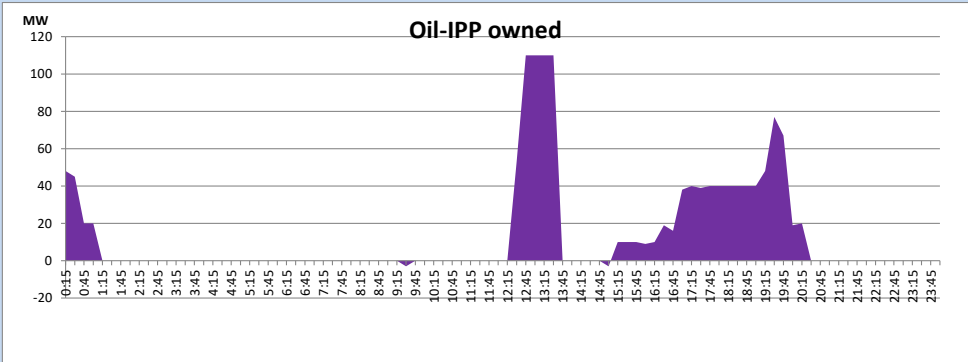
CEB Oil Plant Generation during

June 1, 2024



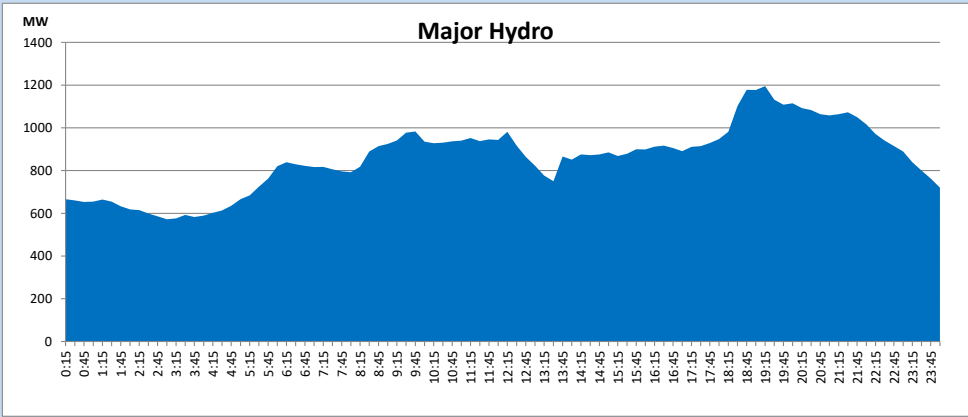
IPP Oil Plant Generation during

June 1, 2024



Major Hydro Generation during

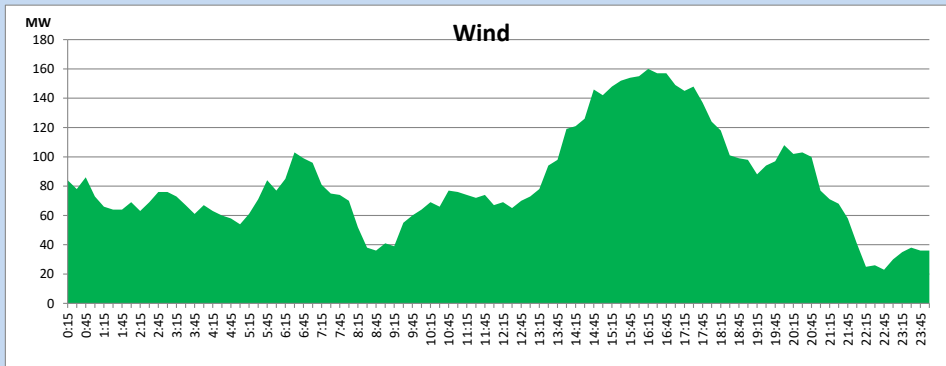
June 1, 2024



Wind Generation during

June 1, 2024

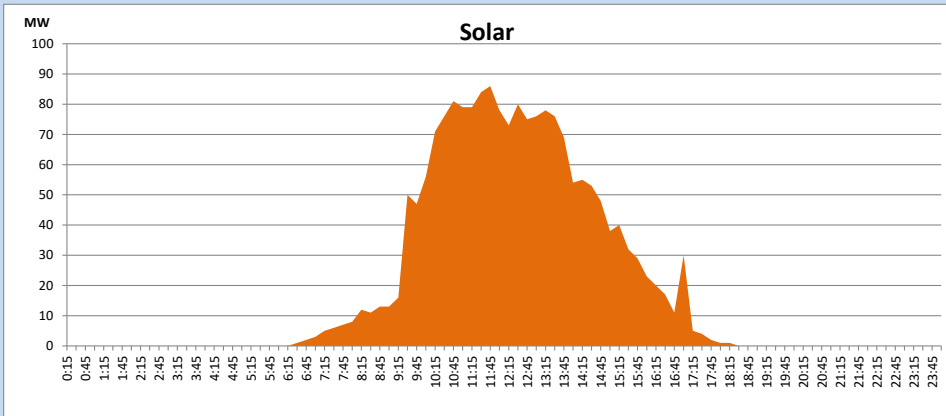
Based on Telemetered Power Stations only



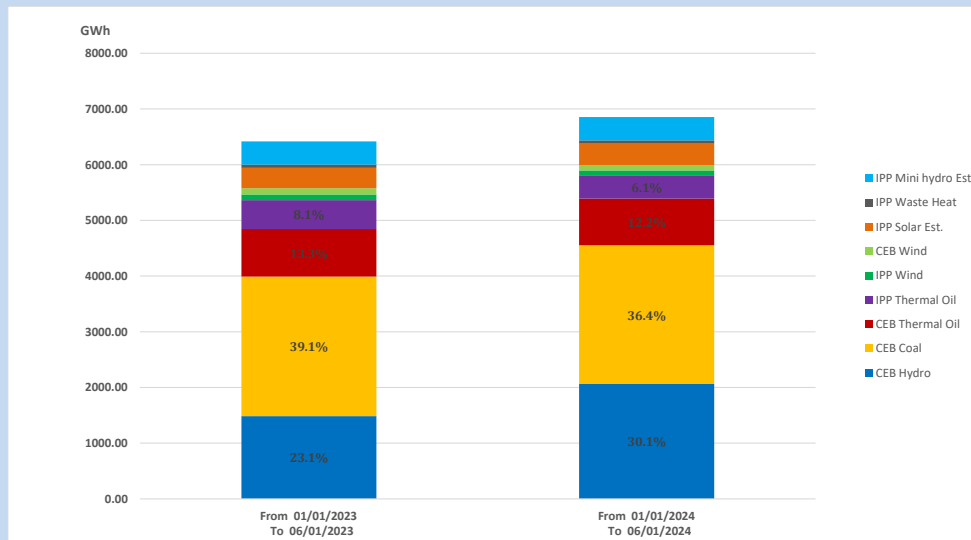
Solar Generation during

June 1, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

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

6418 GWh

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

6855 GWh

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

Unserviced 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

June 1, 2024

- 1) Mathugama - Kukule 132kV cct 02 tripped from Kukule end and tripped and A/R from Mathugama end at 09:31hrs due to the operation of distance protection. The cct was normalized by 09:38hrs.
- 2) WCP GT1 was made available for generation from 12:00hrs after the plant outage which was facilitated on 17.04.2024.
- 3) Sobadhanavi GT tripped at 13:33hrs rejecting 110MW from the system, while conducting a test run. The system recovered with the operation of UFLS stage (I). All affected feeders were restored by 13:39hrs.
- 4) Kolonnawa - Kosgama 132kV cct tripped and A/R from both ends at 01:03hrs (02.06.2024) due to the operation of distance protection.
- 5) Ukuwela 132/33kV T/F 02 tripped only from 33kV end at 04:53hrs due to the operation of O/C protection along with 33kV B/S 02 CB causing 33kV B/S 02 to be dead. At the same time, Ukuwela Generator 01 tripped rejecting 20MW from the system. The T/F 01, B/S CB and all affected feeders were normalized by 05:20hrs. Ukuwela Generator01 was normalized by 05:40hrs.
- 6) Kukule Ganga pond spilling continues to the present hour.