

Generation and Reservoirs Statistics

June 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

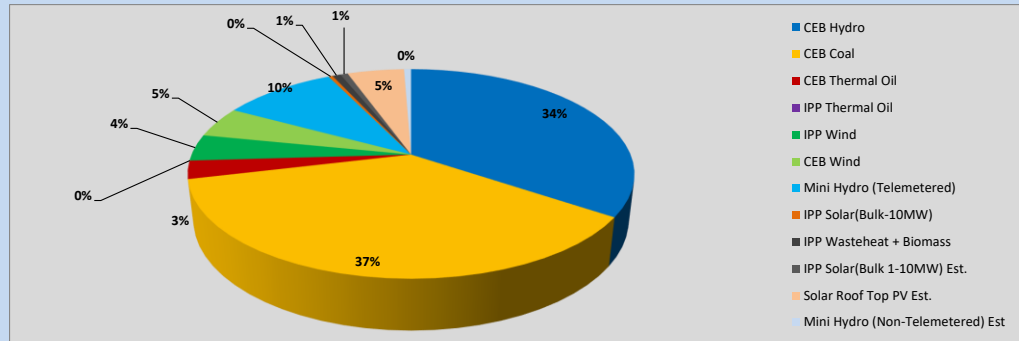


Table 01

	Generation (MWh)
CEB Hydro	16,246
CEB Coal	17,424
CEB Thermal Oil	1,321
IPP Thermal Oil	-
IPP Wind	1,931
CEB Wind	2,243
Mini Hydro (Telemetered)	4,659
IPP Solar (Bulk)	165
IPP Waste heat + Biomass	340
Total Generation (Excluding estimated figures)	44,329
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	288
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	47,241

* 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	124	39.89%
CEB Coal	92	29.66%
CEB Thermal Oil	14	4.41%
IPP Thermal	4	1.25%
SPP Wind	10	3.14%
CEB Wind	13	4.02%
Mini Hydro *	33	10.57%
IPP Solar *	20	6.47%
IPP Waste heat + BMP	2	0.59%
Total	311	

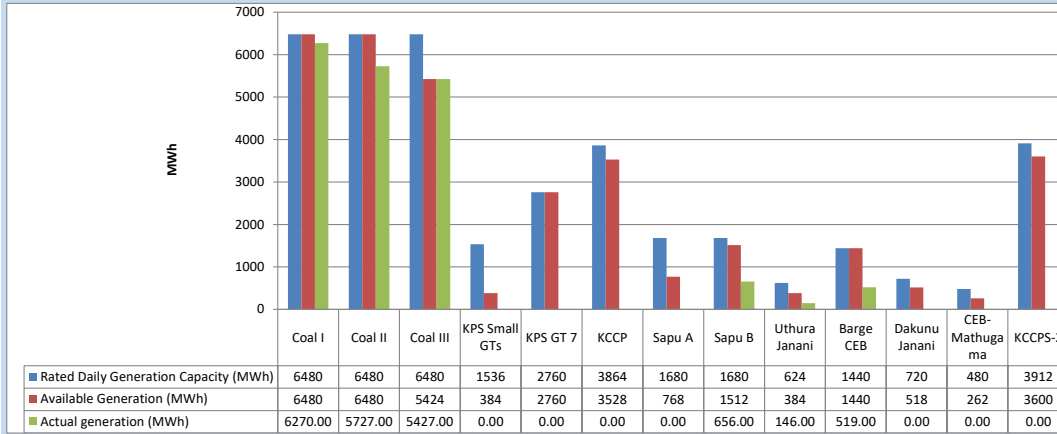
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,164	30.39%
CEB Coal	2,572	36.11%
CEB Thermal Oil	849	11.91%
IPP Thermal	422	5.93%
SPP Wind	97	1.37%
CEB Wind	107	1.50%
Mini Hydro *	448	6.30%
IPP Solar *	401	5.63%
IPP Waste heat	62	0.87%
Total	7,122	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

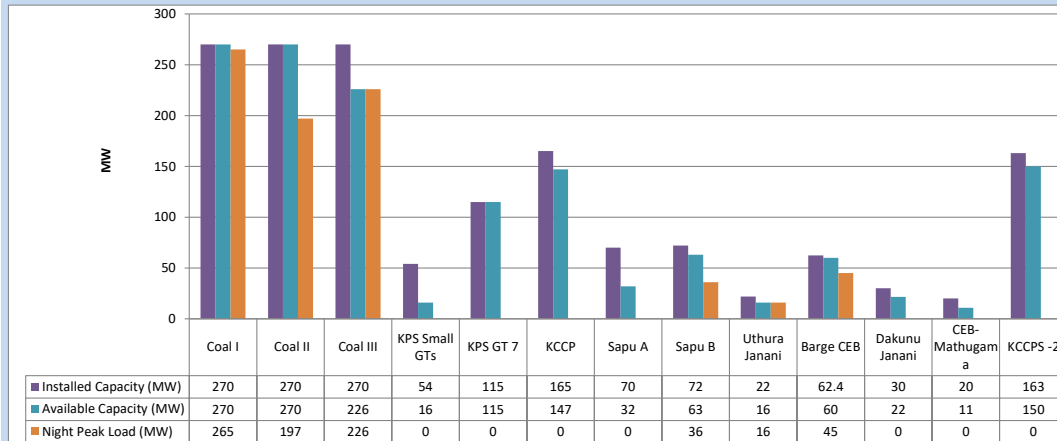
June 7, 2024



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

June 8, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

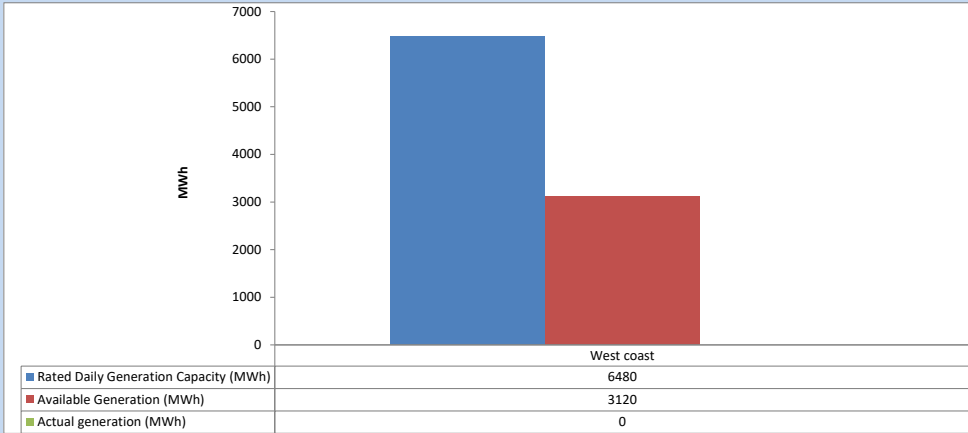


Plant availability is recorded at 6.00 am on

June 8, 2024

5. IPP owned Thermal Plant Dispatch

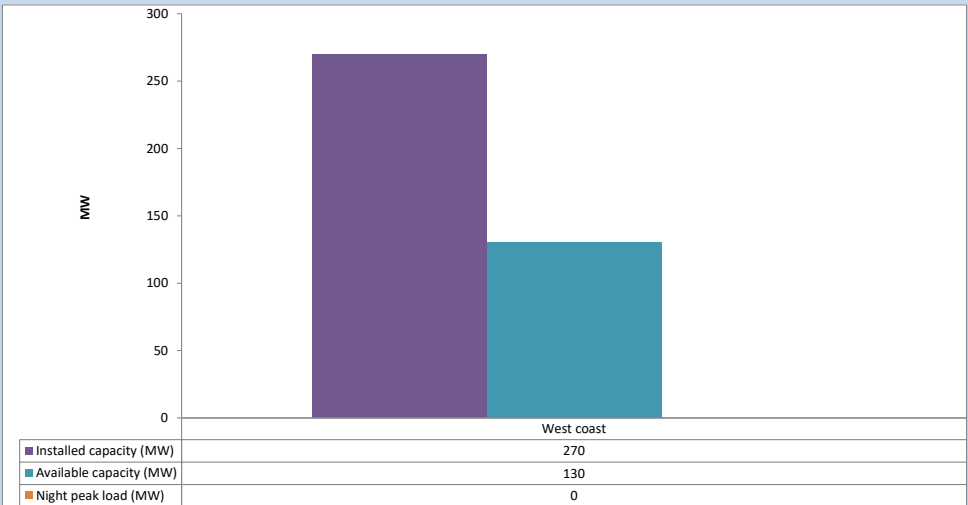
June 7, 2024



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

June 8, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

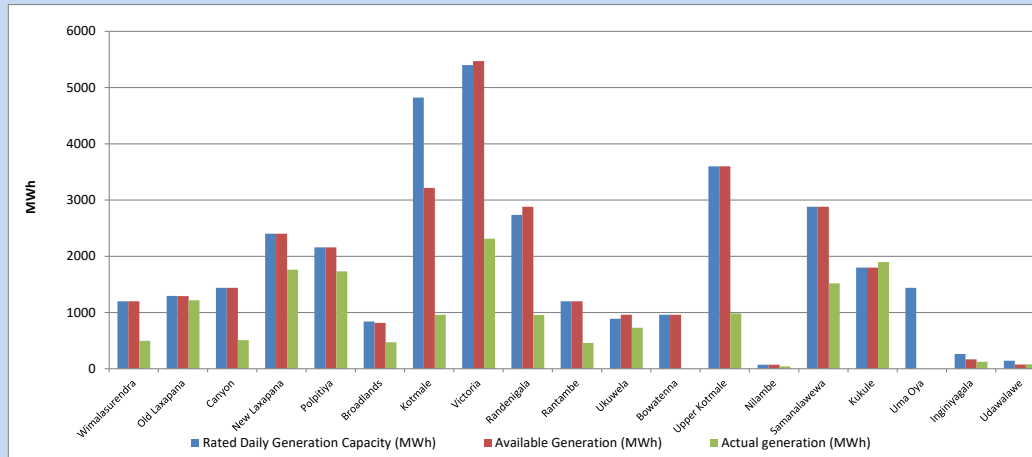


Plant availability is recorded at 6.00 am on

June 8, 2024

7. Major Hydro Plant Dispatch

June 7, 2024

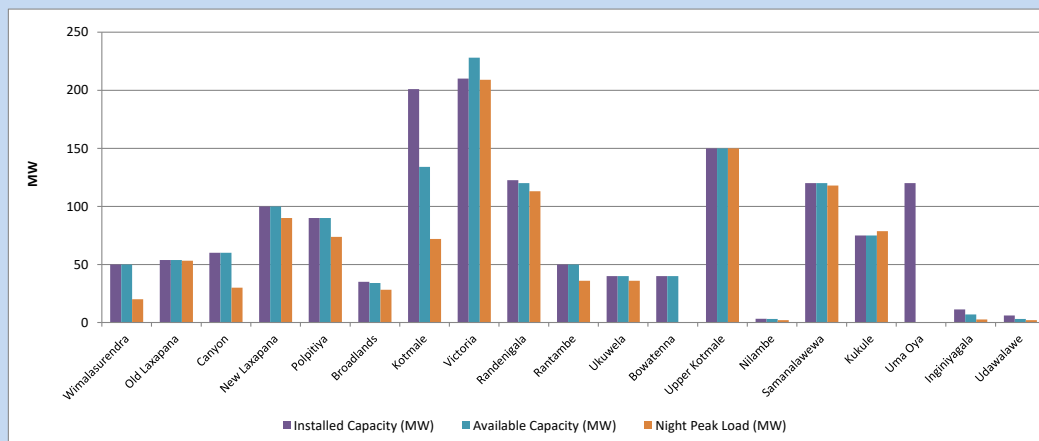


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 8, 2024

8. Major Hydro Plant Loading at Night Peak

June 7, 2024



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

June 8, 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	20	496
Old Laxapana	54	54	53	1,217
Canyon	60	60	30	509
New Laxapana	100	100	90	1,762
Polpitiya	90	90	74	1,730
Broadlands	35	34	28	471
Kotmale	201	134	72	960
Victoria	210	228	209	2,313
Randenigala	123	120	113	956
Rantambe	50	50	36	460
Ukuwela	40	40	36	729
Bowatenna	40	40	0	0
Upper Kotmale	150	150	150	984
Nilambe	3	3	2	41
Samanalawewa	120	120	118	1,520
Kukule	75	75	79	1,896
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	125
Udawalawe	6	3	2	78
Puttalam Coal I	270	270	265	6,270
Puttalam Coal II	270	270	197	5,727
Puttalam Coal III	270	226	226	5,427
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	63	36	656
Uthura Janani	22	16	16	146
Barge CEB	62	60	45	519
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	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,885	2,303	44,330

Note-

Plant availability is the availability recorded at 6 am on

June 8, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

June 7, 2024

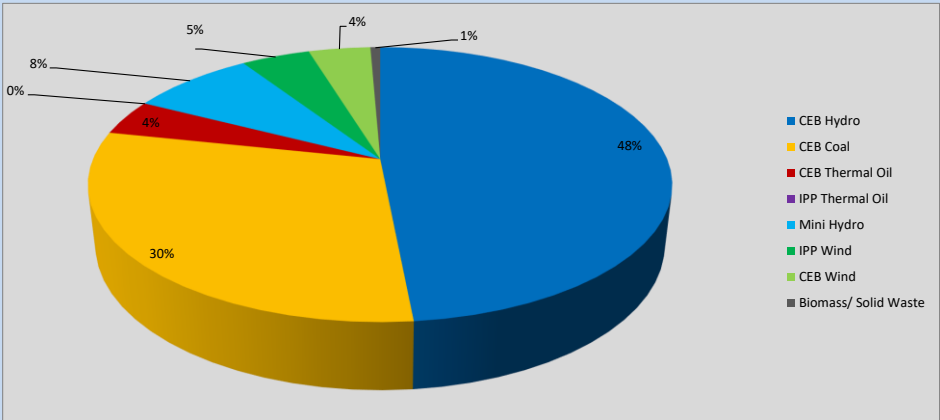


Table 06

CEB Hydro	1118	MW
CEB Coal	688	MW
CEB Thermal Oil	97	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	189	MW
IPP Wind	104.8	MW
CEB Wind	94.4	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

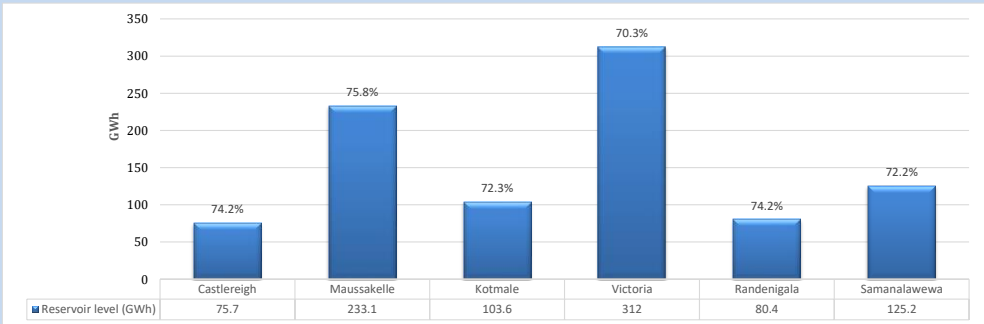
Table 07

Night Peak*	2,306	MW
Day Peak Maximum Demand	2,131	MW
Day Peak Minimum Demand	1,705	MW
Off Peak Minimum Demand	1,413	MW

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

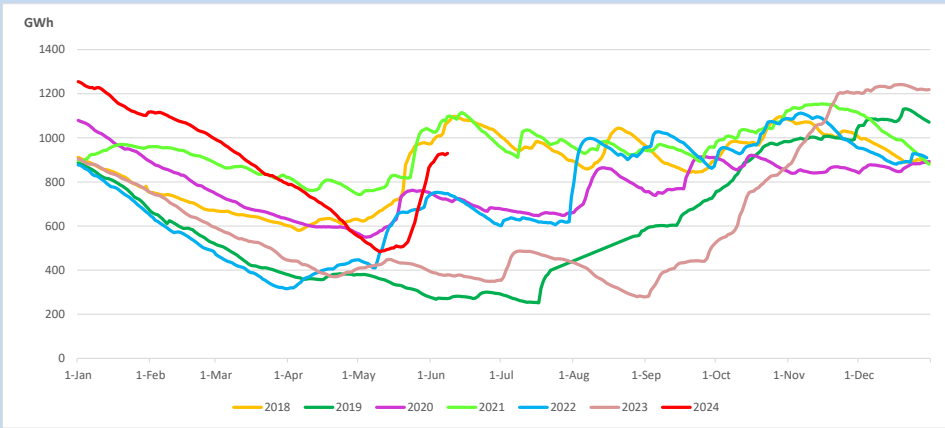
Reservoir Levels -

as at 06.00 Hr on June 8, 2024

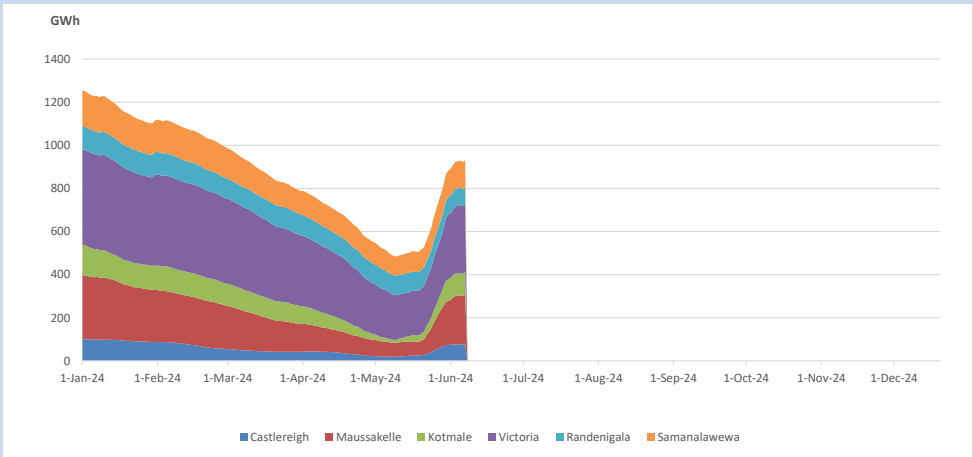


Total Reservoir Level 930 GWh
% of Total capacity 72.7%

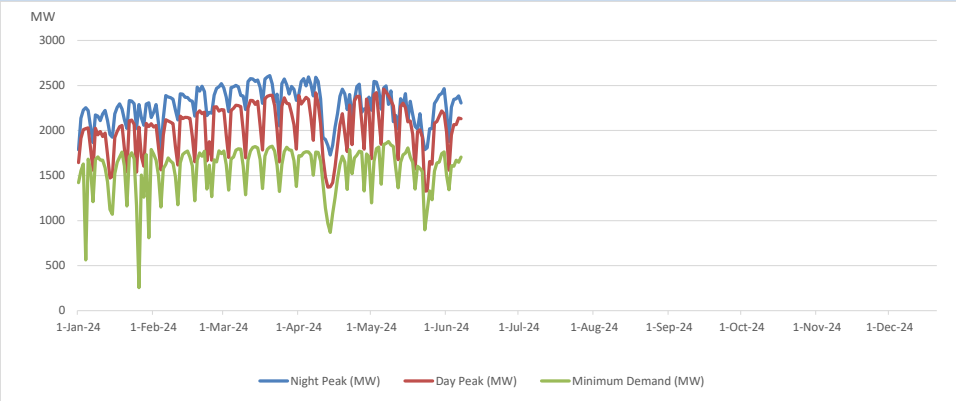
11. Comparison of Total Reservoir Storage Levels with Past Years



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



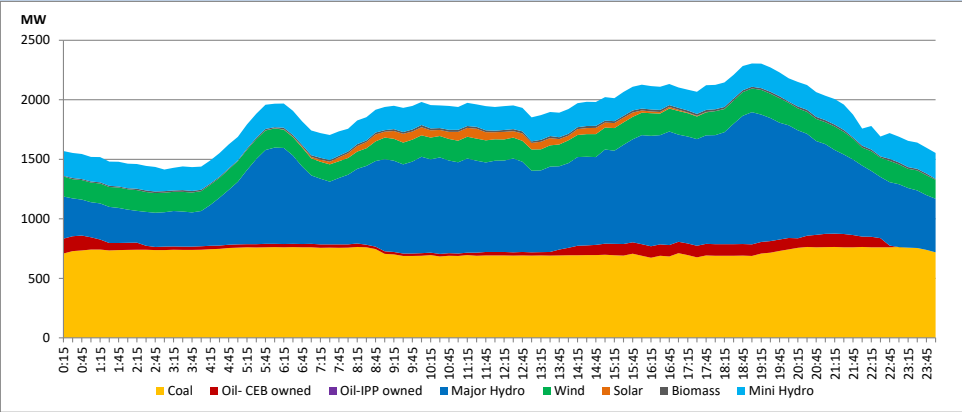
13. Variation of Demand during the current year



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

14. Daily Load Curve

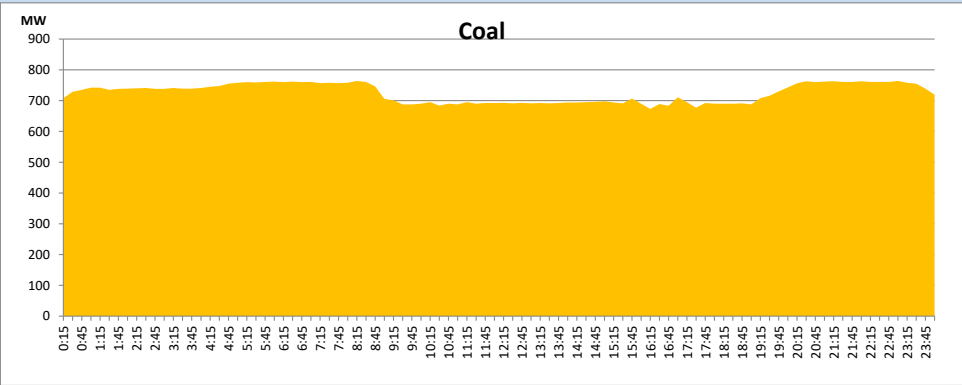
June 7, 2024



Solar and wind data is based on Telemetered Power Stations only

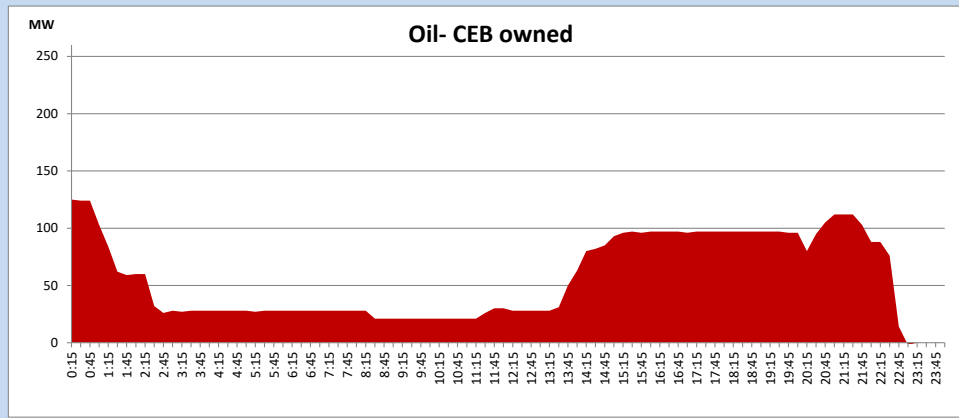
Coal Generation during

June 7, 2024



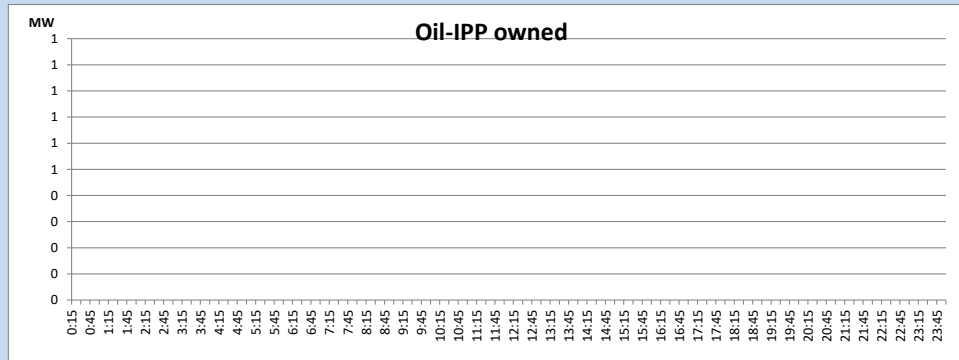
CEB Oil Plant Generation during

June 7, 2024



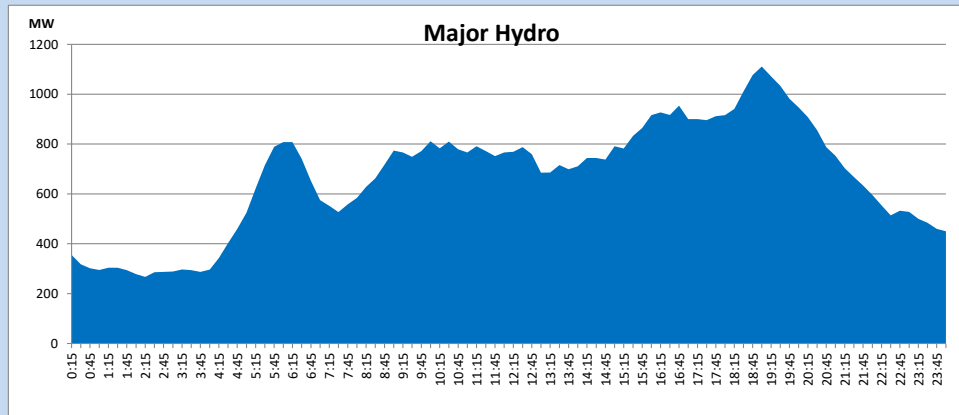
IPP Oil Plant Generation during

June 7, 2024



Major Hydro Generation during

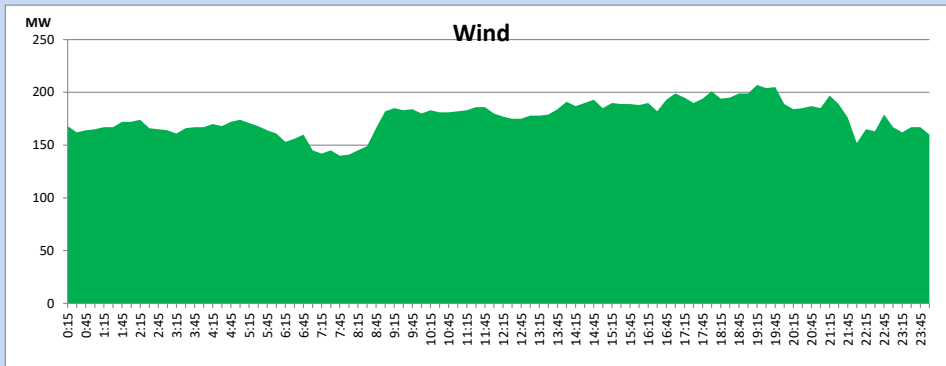
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Wind Generation during

June 7, 2024

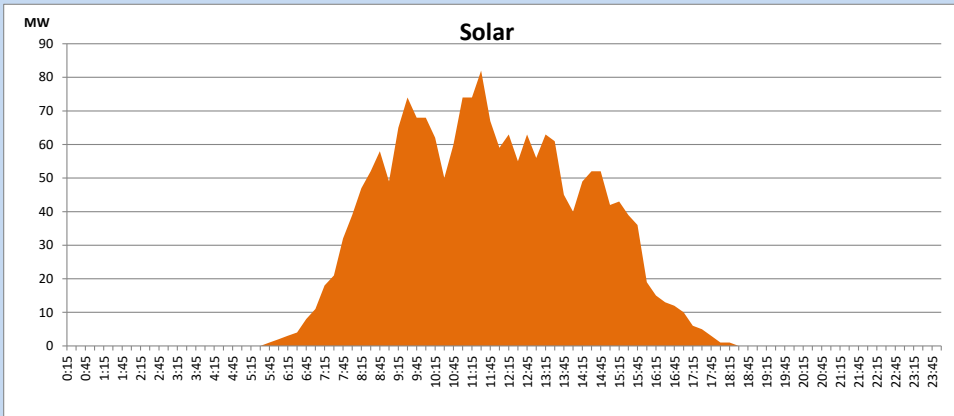
Based on Telemetered Power Stations only



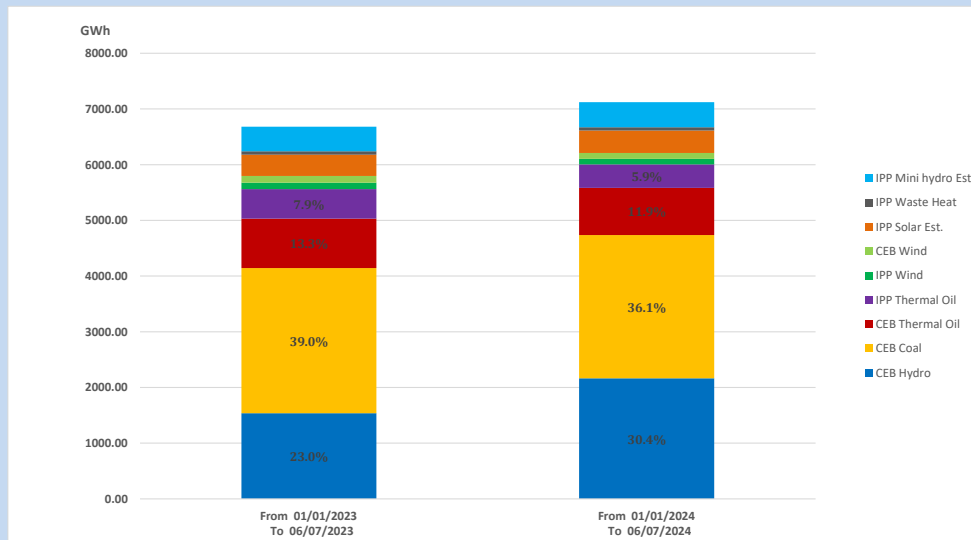
Solar Generation during

June 7, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

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

6681 GWh

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

7122 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 7, 2024

- 1) LVPS unit 02 de-loaded to 180MW (net) at 09:10hrs due to an abnormal running condition of a coal mill. LVPS unit 02 reached full load at 20:22hrs.
- 2) New Polpitiya - Polpitiya 132kV cct manually switched off at 19:15hrs due to presence of a hot joint. New Polpitiya - Polpitiya cct is yet to be normalized.
- 3) Sapugaskanda PS SUT 03 tripped from both ends at 2:25hrs (08/06/2024) due to operation of Differential protection. Sapugaskanda PS SUT 03 is yet to be restored.
- 4) Biyagama 220/132/33kV T/F 01 tripped at 5:19hrs (08/06/2024) from all ends due to operation of winding temperature trip. Biyagama 220/132/33kV T/F 01 is yet to be restored.
- 5) Kukule Ganga pond spilling continues to the present hour.