

Generation and Reservoirs Statistics

June 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

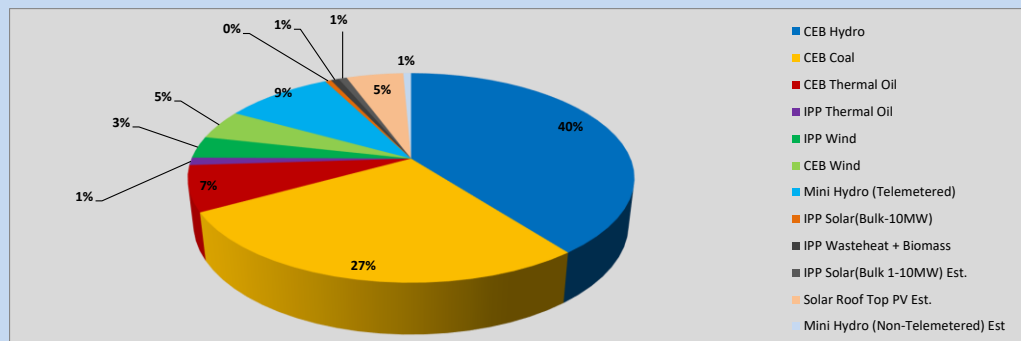


Table 01

	Generation (MWh)
CEB Hydro	18,582
CEB Coal	12,864
CEB Thermal Oil	3,303
IPP Thermal Oil	548
IPP Wind	1,585
CEB Wind	2,146
Mini Hydro (Telemetered)	4,394
IPP Solar (Bulk)	245
IPP Waste heat + Biomass	329
Total Generation (Excluding estimated figures)	43,996
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	317
* Estimated IPP Solar PV (Bulk 1-10MW)	333
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	46,966

* 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	108	40.87%
CEB Coal	75	28.36%
CEB Thermal Oil	12	4.69%
IPP Thermal	4	1.48%
SPP Wind	8	2.97%
CEB Wind	10	3.89%
Mini Hydro *	28	10.58%
IPP Solar *	17	6.57%
IPP Waste heat + BMP	2	0.57%
Total	264	

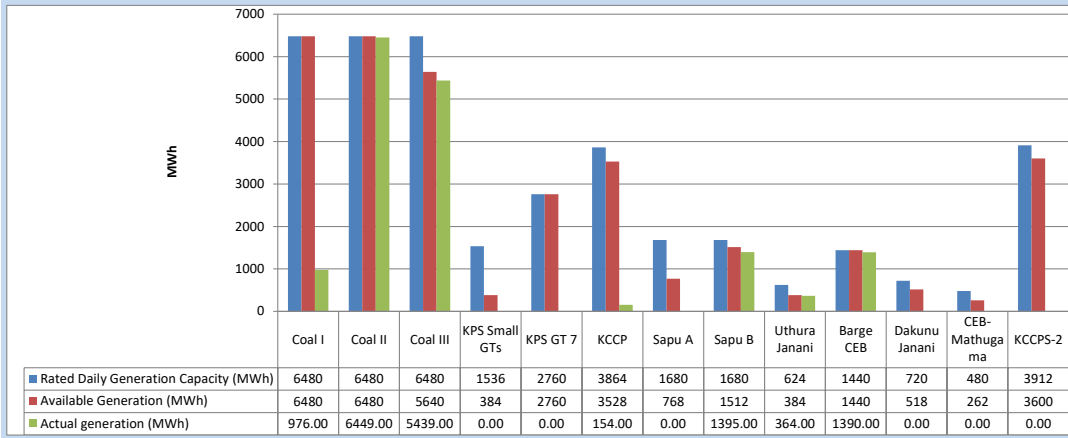
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,148	30.36%
CEB Coal	2,554	36.10%
CEB Thermal Oil	847	11.98%
IPP Thermal	422	5.97%
SPP Wind	95	1.35%
CEB Wind	104	1.48%
Mini Hydro *	443	6.27%
IPP Solar *	398	5.63%
IPP Waste heat	62	0.87%
Total	7,075	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

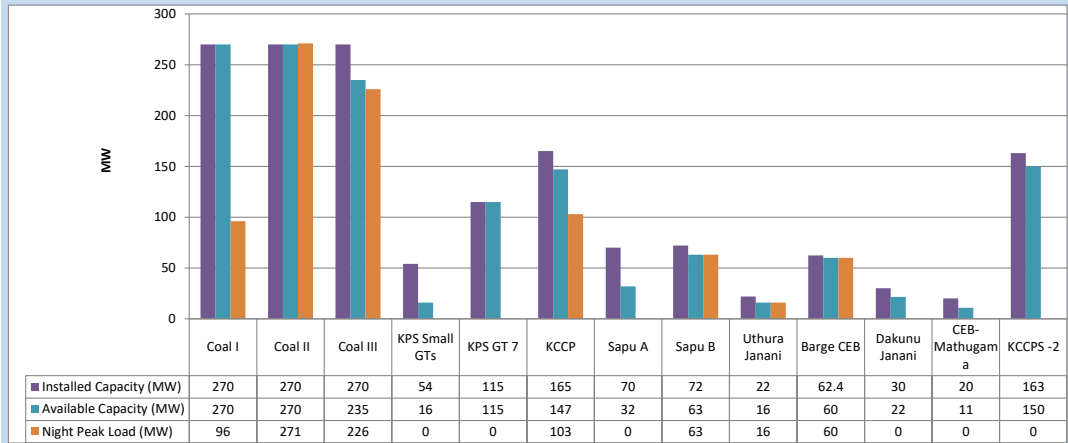
June 6, 2024



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

June 7, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

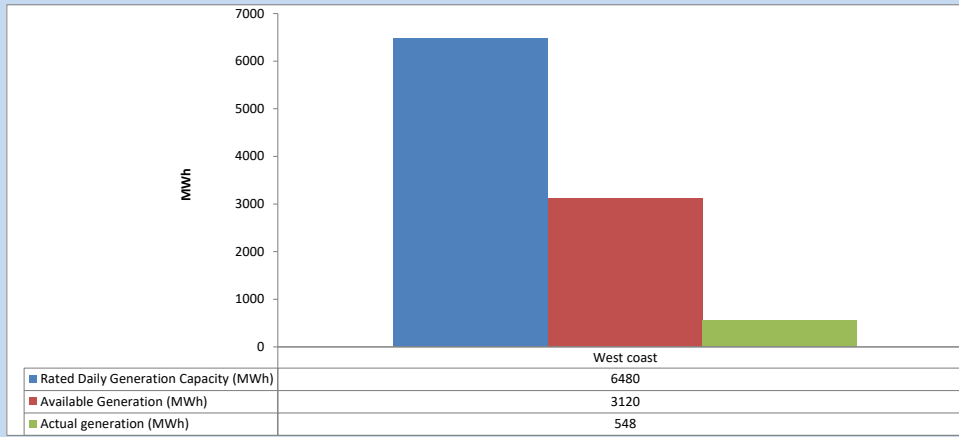


Plant availability is recorded at 6.00 am on

June 7, 2024

5. IPP owned Thermal Plant Dispatch

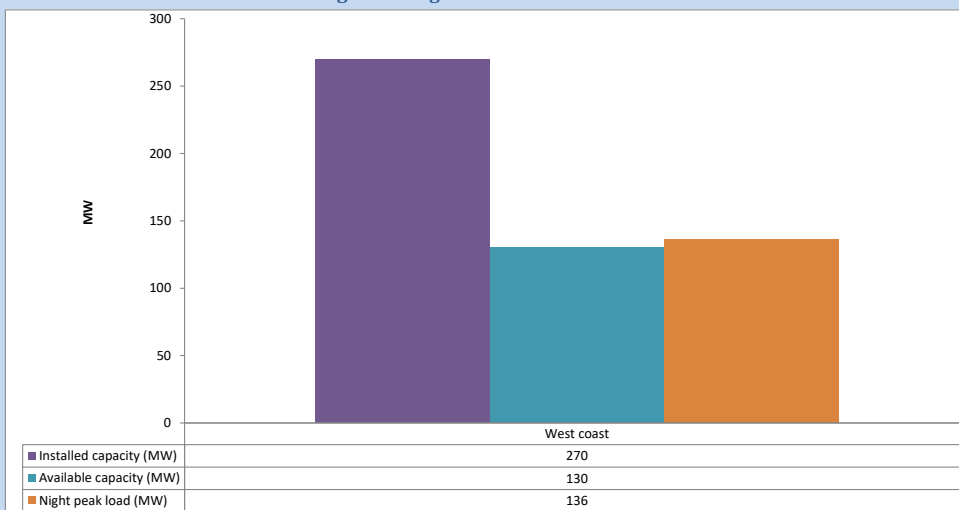
June 6, 2024



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

June 7, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

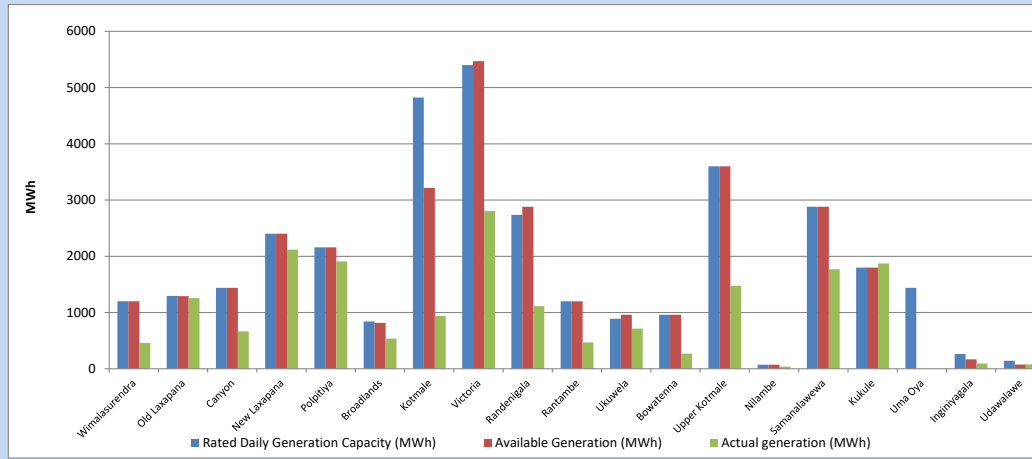


Plant availability is recorded at 6.00 am on

June 7, 2024

7. Major Hydro Plant Dispatch

June 6, 2024

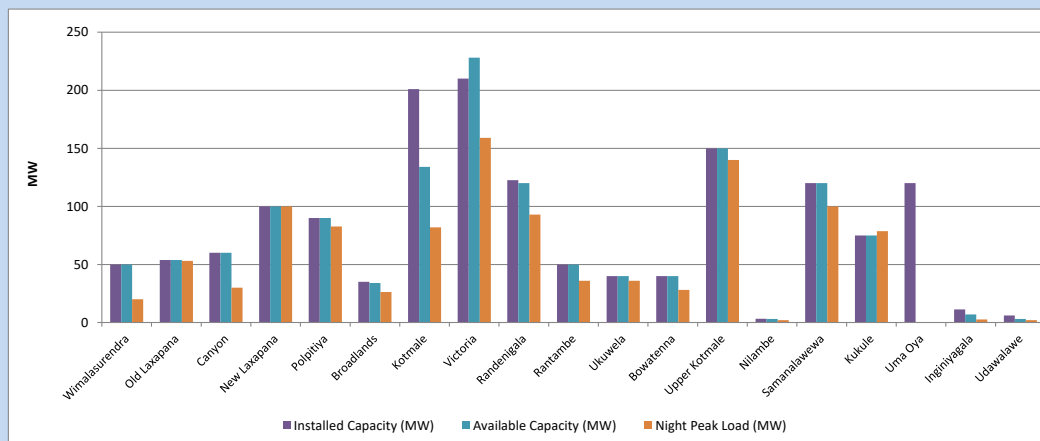


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 7, 2024

8. Major Hydro Plant Loading at Night Peak

June 6, 2024



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

June 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	20	460
Old Laxapana	54	54	53	1,255
Canyon	60	60	30	665
New Laxapana	100	100	100	2,119
Polpitiya	90	90	83	1,910
Broadlands	35	34	26	537
Kotmale	201	134	82	940
Victoria	210	228	159	2,805
Randenigala	123	120	93	1,113
Rantambe	50	50	36	467
Ukuwela	40	40	36	715
Bowatenna	40	40	28	268
Upper Kotmale	150	150	140	1,477
Nilambe	3	3	2	38
Samanalawewa	120	120	100	1,768
Kukule	75	75	79	1,872
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	95
Udawalawe	6	3	2	78
Puttalam Coal I	270	270	96	976
Puttalam Coal II	270	270	271	6,449
Puttalam Coal III	270	235	226	5,439
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	103	154
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	63	1,395
Uthura Janani	22	16	16	364
Barge CEB	62	60	60	1,390
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	136	548
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,894	2,381	43,996

Note-

Plant availability is the availability recorded at 6 am on
Installed Capacity is sourced from CEB Annual Report- 2022

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10. Contribution to the Night Peak in MW

June 6, 2024

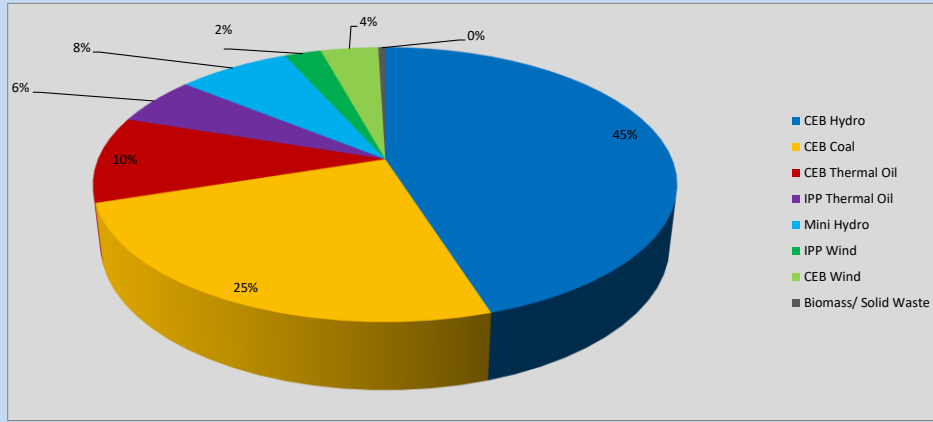


Table 06

CEB Hydro	1075	MW
CEB Coal	593	MW
CEB Thermal Oil	242	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	178	MW
IPP Wind	58.2	MW
CEB Wind	91	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

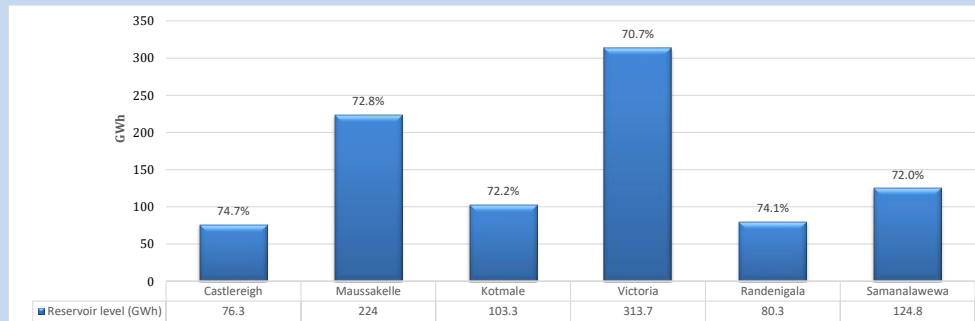
Table 07

Night Peak*	2,385	MW
Day Peak Maximum Demand	2,139	MW
Day Peak Minimum Demand	1,647	MW
Off Peak Minimum Demand	1,381	MW

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

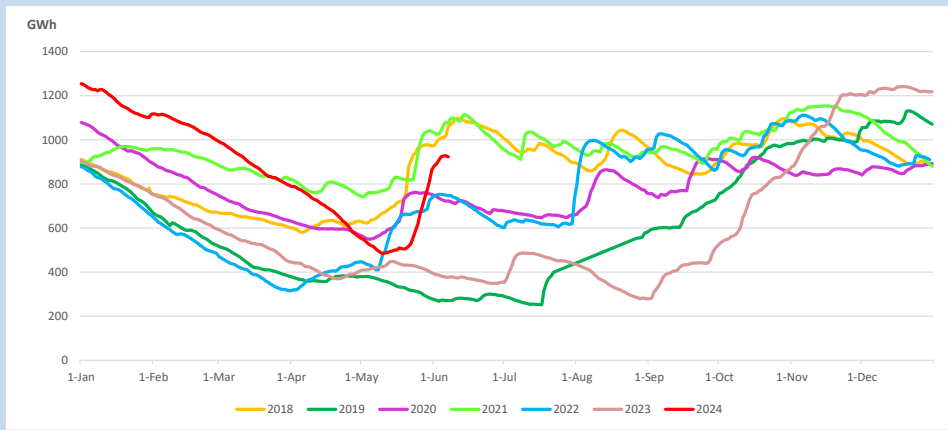
Reservoir Levels -

as at 06.00 Hr on June 7, 2024

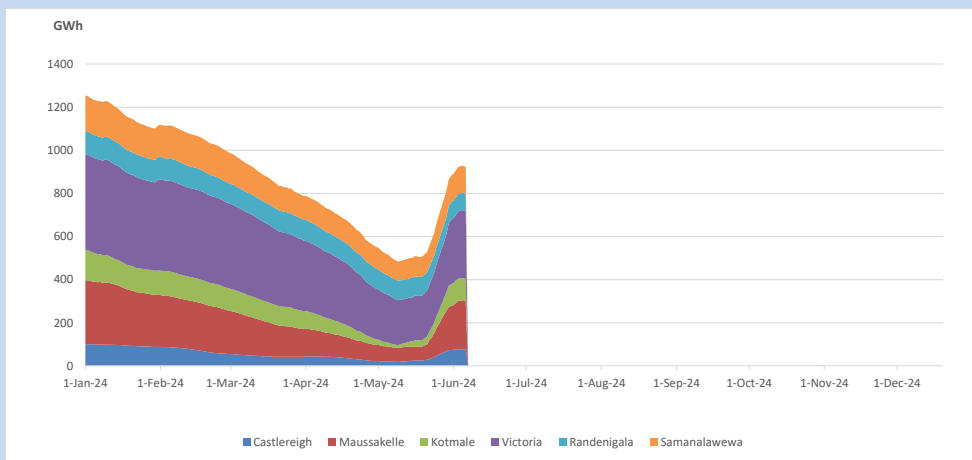


Total Reservoir Level 922.4 GWh
% of Total capacity 72.2%

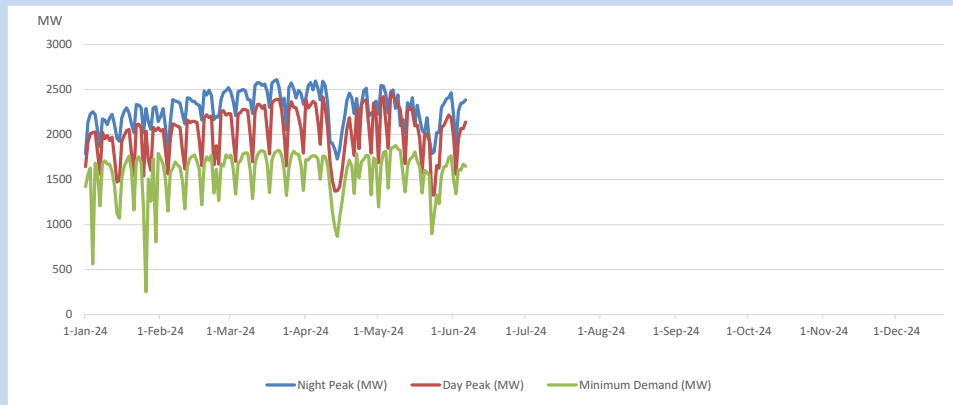
11. Comparison of Total Reservoir Storage Levels with Past Years



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



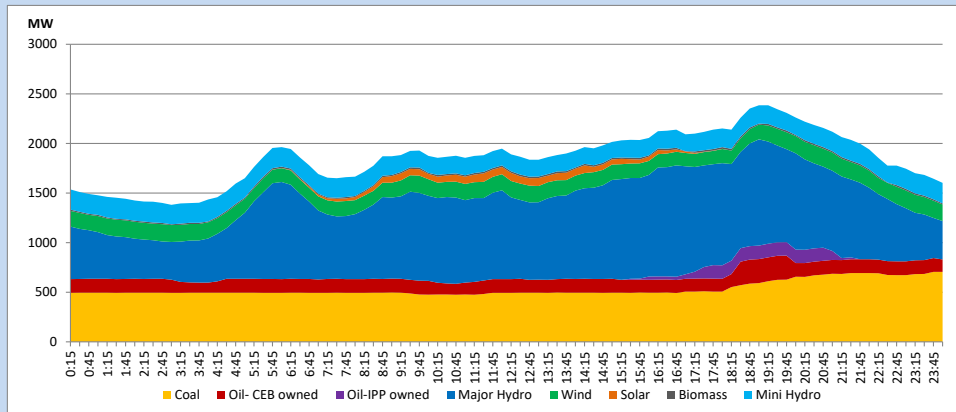
13. Variation of Demand during the current year



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

14. Daily Load Curve

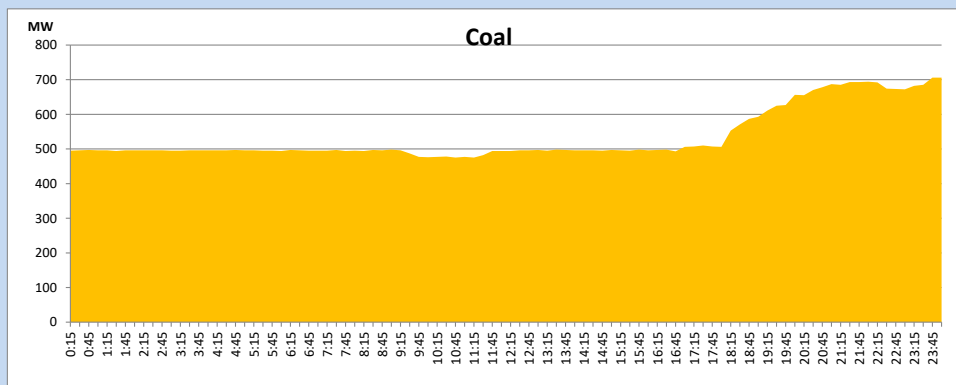
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Solar and wind data is based on Telemetered Power Stations only

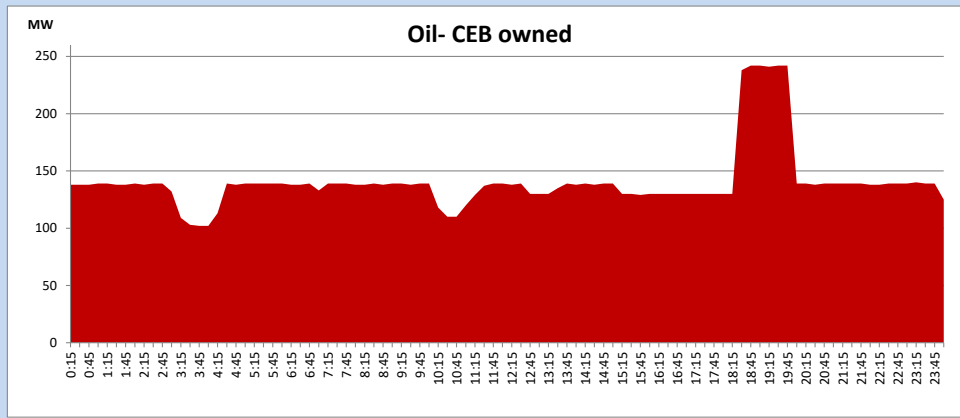
Coal Generation during

June 6, 2024



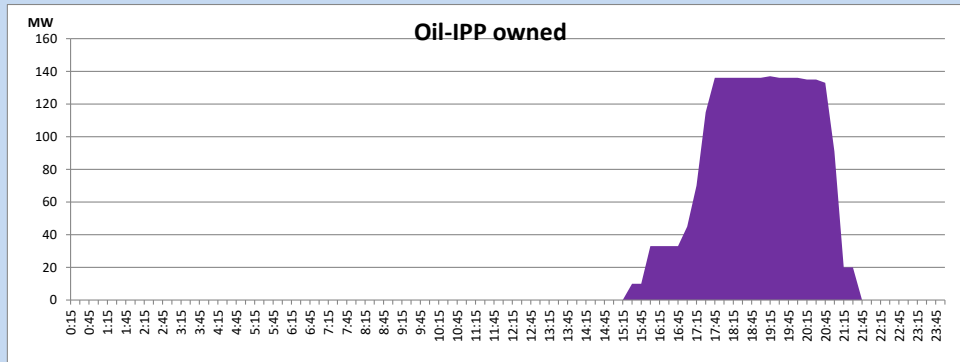
CEB Oil Plant Generation during

June 6, 2024



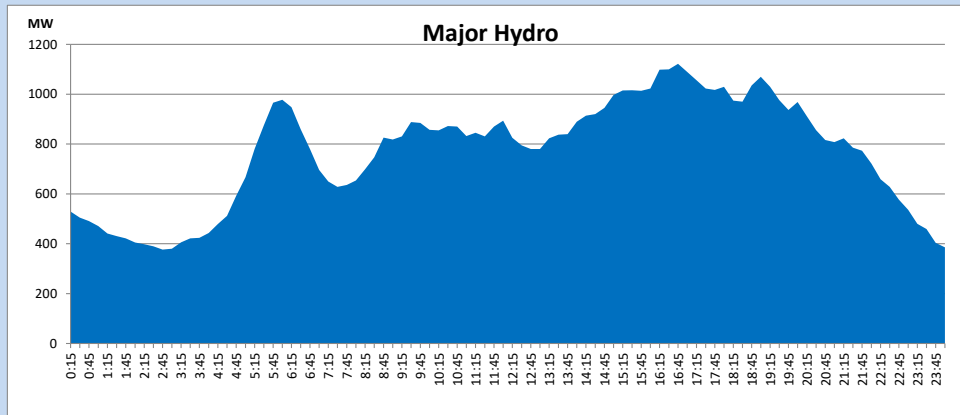
IPP Oil Plant Generation during

June 6, 2024



Major Hydro Generation during

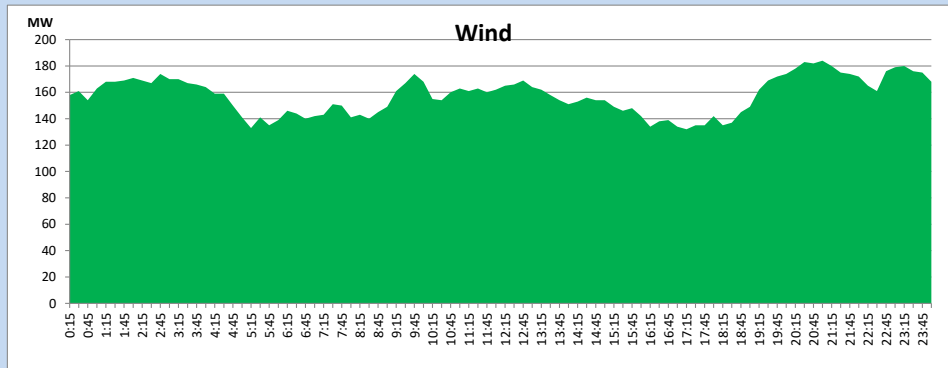
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Wind Generation during

June 6, 2024

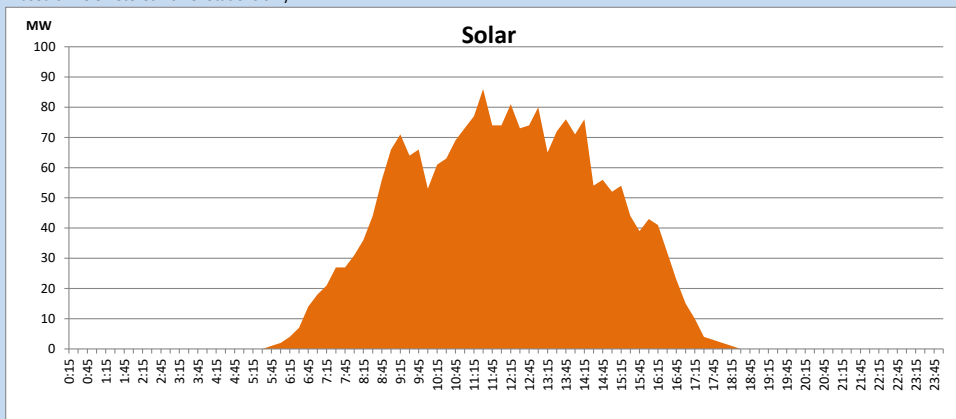
Based on Telemetered Power Stations only



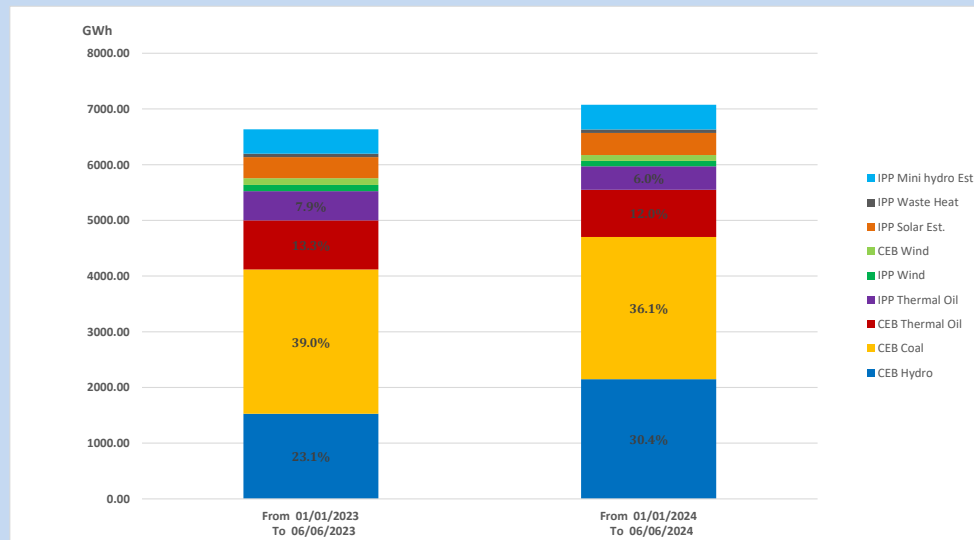
Solar Generation during

June 6, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 06/06/2023
 From 01/01/2024 To 06/06/2024

6634 GWh
 7075 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
 Unused 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 6, 2024

- 1) LVPS unit 02 de-loaded to 250MW (net) at 09:40hrs due to the governor valve 06 abnormal fluctuation. LVPS unit 02 reached full load at 11:45hrs.
- 2) Power Barge de-loaded to 30MW at 10:33hrs due to the main seawater pump filter blockage. The plant reached full load at 11:32hrs.
- 3) Broadlands unit 01 made unavailable from 13:53hrs due to the guide vanes limit switch fault. The unit resumed generation at 15:02hrs.
- 4) LVPS unit 01 synchronized at 16:55hrs.
- 5) Kukule Ganga pond spilling continues to the present hour.