

Generation and Reservoirs Statistics

May 31, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

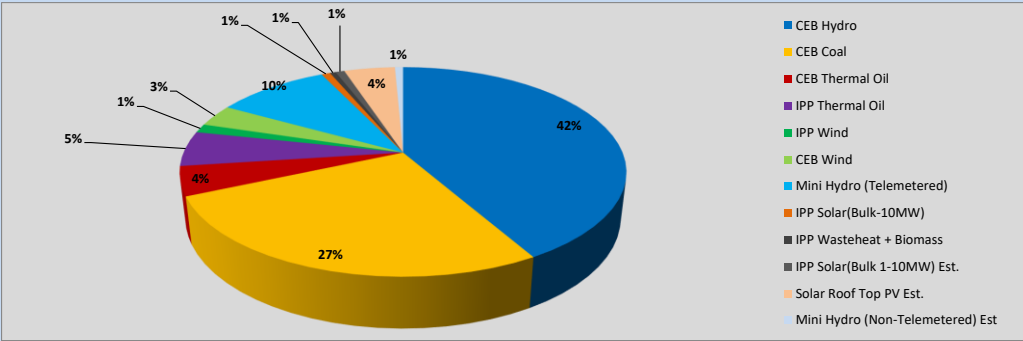


Table 01

	Generation (MWh)
CEB Hydro	20,171
CEB Coal	12,928
CEB Thermal Oil	2,176
IPP Thermal Oil	2,622
IPP Wind	655
CEB Wind	1,638
Mini Hydro (Telemetered)	4,724
IPP Solar (Bulk)	368
IPP Waste heat + Biomass	242
Total Generation (Excluding estimated figures)	45,524
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	341
* Estimated IPP Solar PV (Bulk 1-10MW)	374
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	48,369

* 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	399	28.53%
CEB Coal	519	37.05%
CEB Thermal Oil	209	14.96%
IPP Thermal	11	0.75%
SPP Wind	30	2.15%
CEB Wind	31	2.21%
Mini Hydro *	105	7.49%
IPP Solar *	85	6.07%
IPP Waste heat + BMP	11	0.79%
Total	1,400	

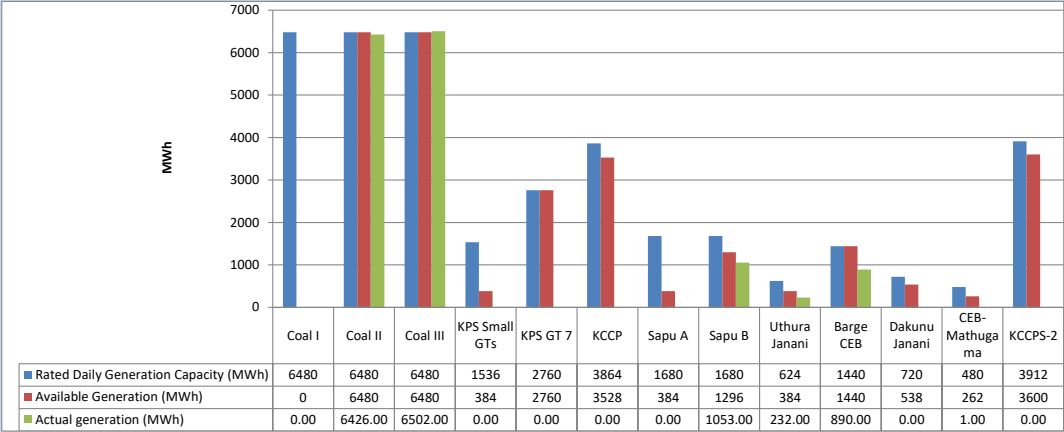
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,040	29.96%
CEB Coal	2,479	36.40%
CEB Thermal Oil	835	12.26%
IPP Thermal	418	6.14%
SPP Wind	88	1.28%
CEB Wind	94	1.38%
Mini Hydro *	416	6.10%
IPP Solar *	381	5.59%
IPP Waste heat	60	0.88%
Total	6,811	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

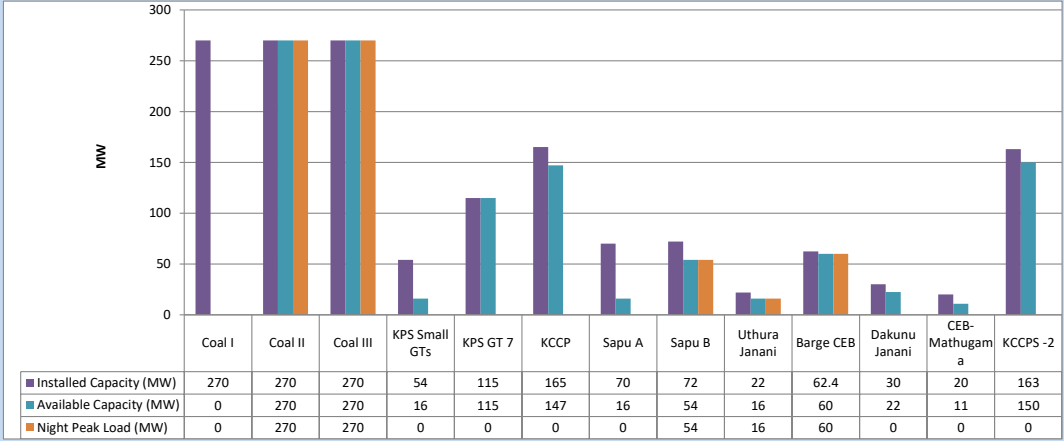
May 31, 2024



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

June 1, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

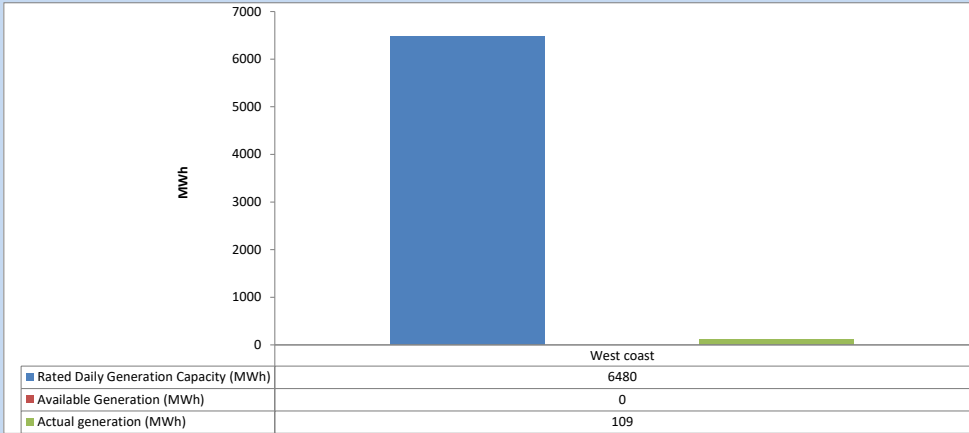


Plant availability is recorded at 6.00 am on

June 1, 2024

5. IPP owned Thermal Plant Dispatch

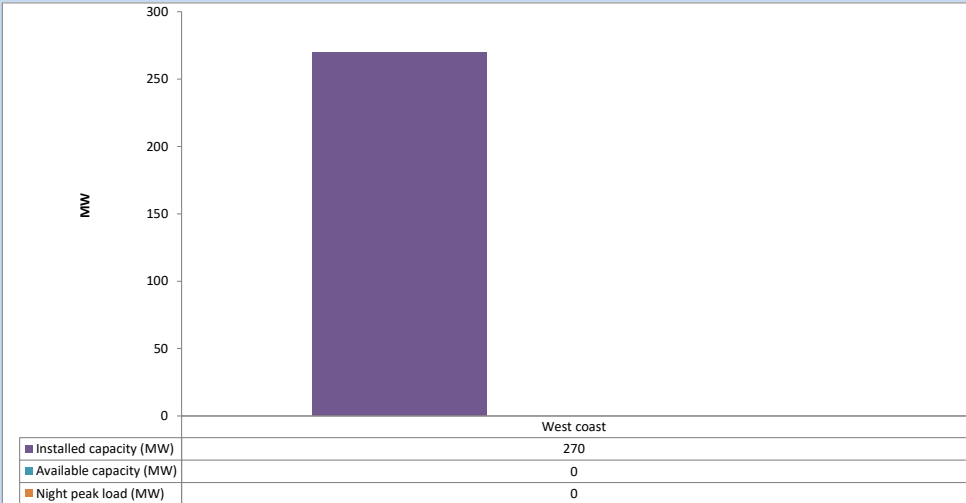
May 31, 2024



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

June 1, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

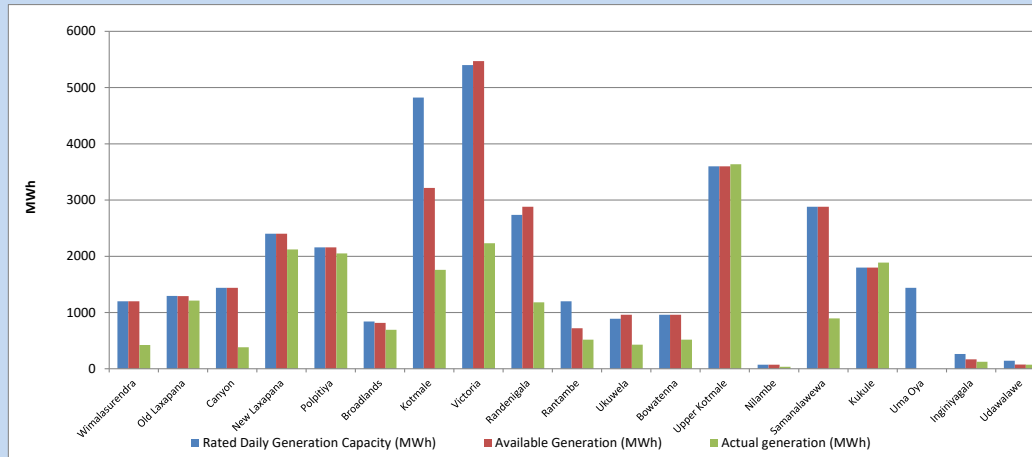


Plant availability is recorded at 6.00 am on

June 1, 2024

7. Major Hydro Plant Dispatch

May 31, 2024

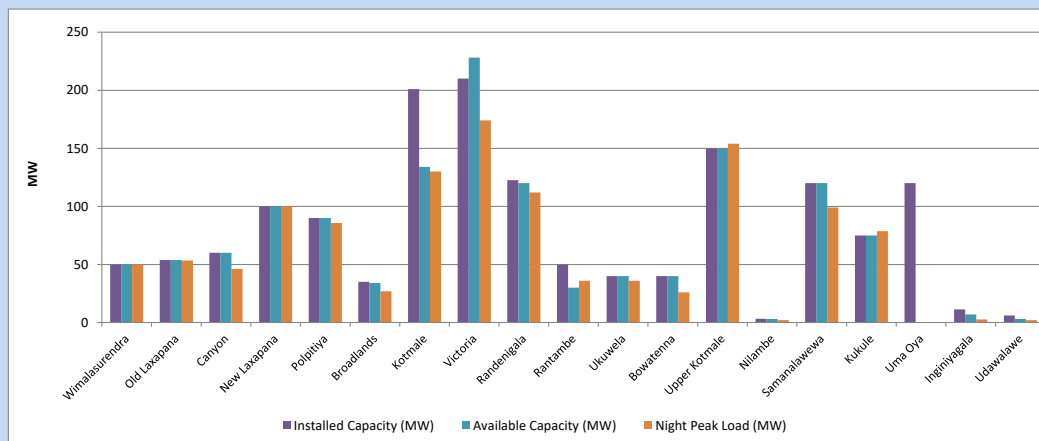


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 1, 2024

8. Major Hydro Plant Loading at Night Peak

May 31, 2024



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

June 1, 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	423
Old Laxapana	54	54	53	1,213
Canyon	60	60	46	381
New Laxapana	100	100	100	2,121
Polpitiya	90	90	86	2,050
Broadlands	35	34	27	692
Kotmale	201	134	130	1,760
Victoria	210	228	174	2,232
Randenigala	123	120	112	1,182
Rantambe	50	30	36	517
Ukuwela	40	40	36	428
Bowatenna	40	40	26	519
Upper Kotmale	150	150	154	3,638
Nilambe	3	3	2	36
Samanalawewa	120	120	99	897
Kukule	75	75	79	1,887
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	124
Udawalawe	6	3	2	72
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,426
Puttalam Coal III	270	270	270	6,502
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	0	0
Sapugaskanda A	70	16	0	0
Sapugaskanda B	72	54	54	1,053
Uthura Janani	22	16	16	232
Barge CEB	62	60	60	890
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	0	1
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	0	0	109
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	228	2,513
Total	3,594	2,485	2,233	45,525

Note-

Plant availability is the availability recorded at 6 am on

June 1, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 31, 2024

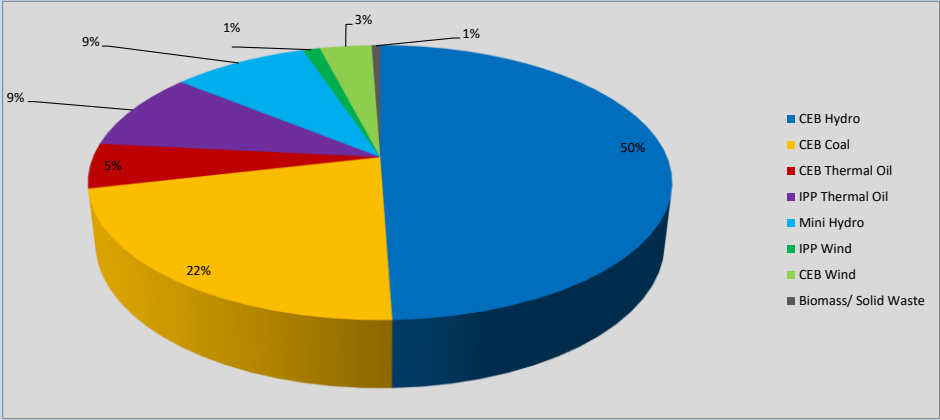


Table 06

CEB Hydro	1219	MW
CEB Coal	540	MW
CEB Thermal Oil	130	MW
IPP Thermal Oil	228	MW
Mini Hydro (Telemetered)	222	MW
IPP Wind	28	MW
CEB Wind	84.7	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

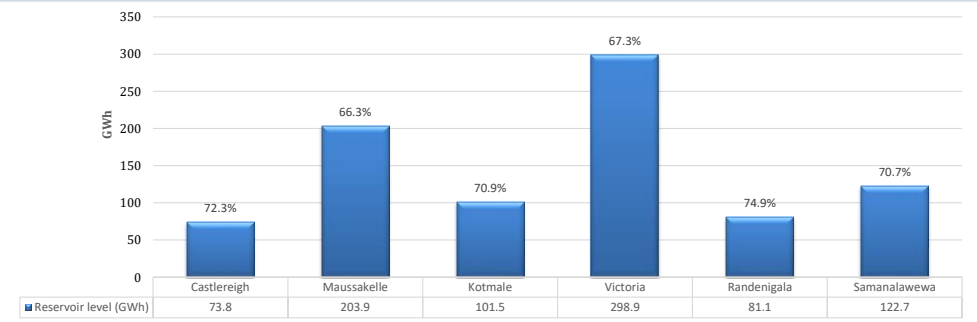
Table 07

Night Peak*	2,466	MW
Day Peak Maximum Demand	2,186	MW
Day Peak Minimum Demand	1,762	MW
Off Peak Minimum Demand	1,439	MW

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

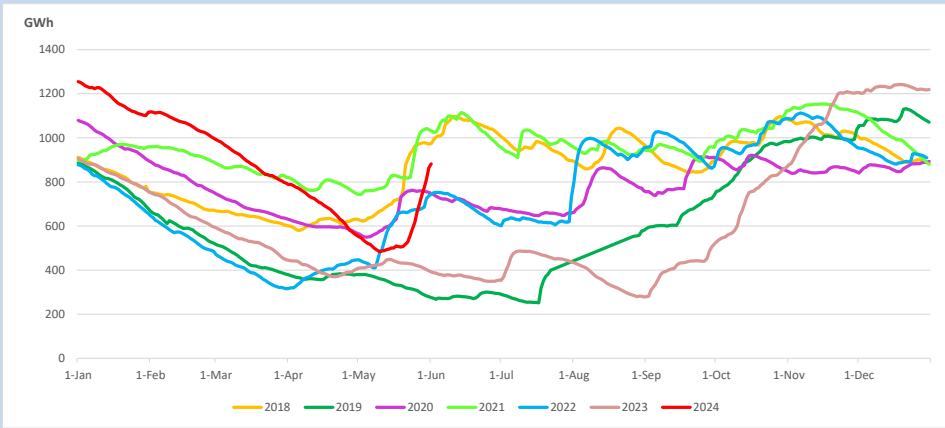
Reservoir Levels -

as at 06.00 Hr on June 1, 2024

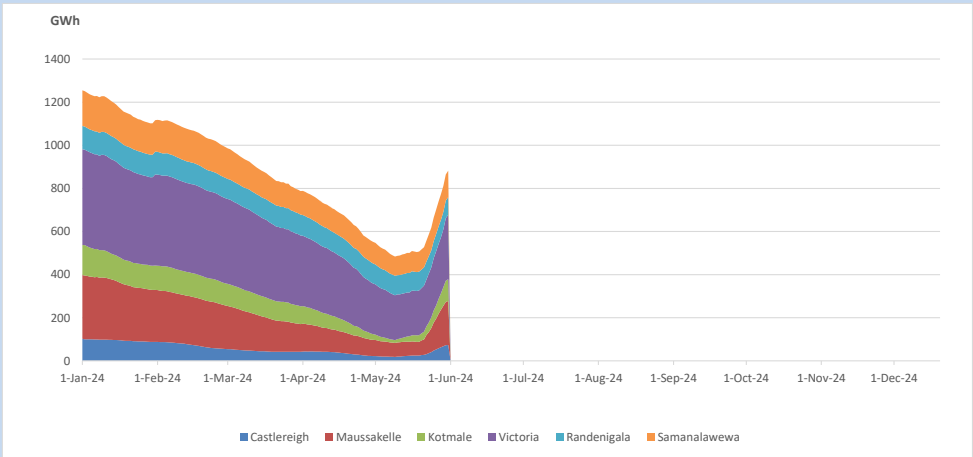


Total Reservoir Level 881.9 GWh
% of Total capacity 69.0%

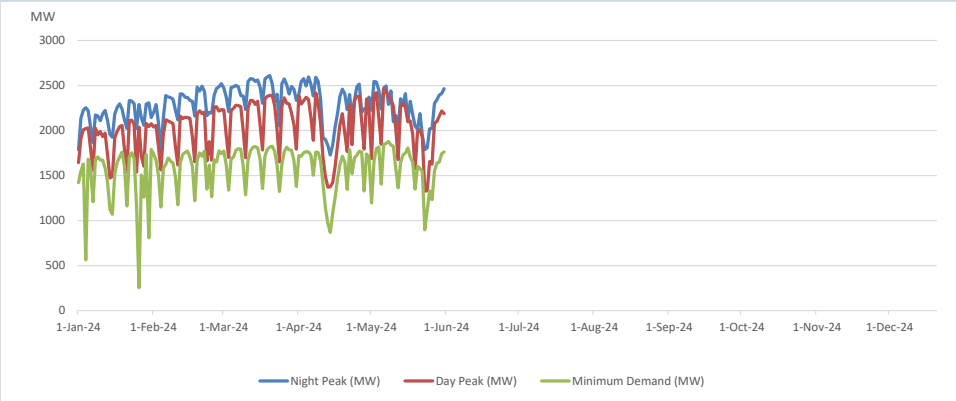
11. Comparison of Total Reservoir Storage Levels with Past Years



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

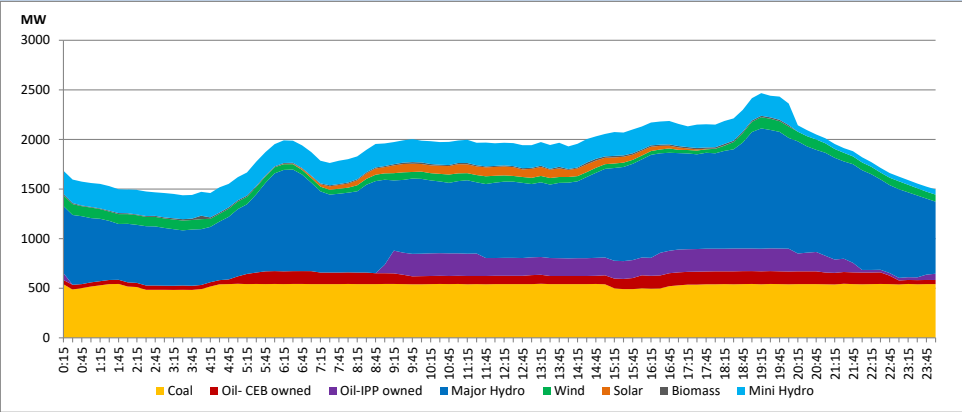


13. Variation of Demand during the current year



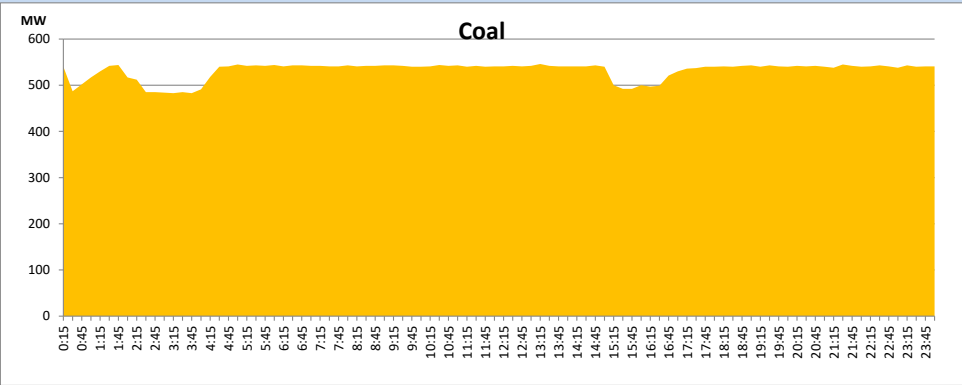
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 31, 2024



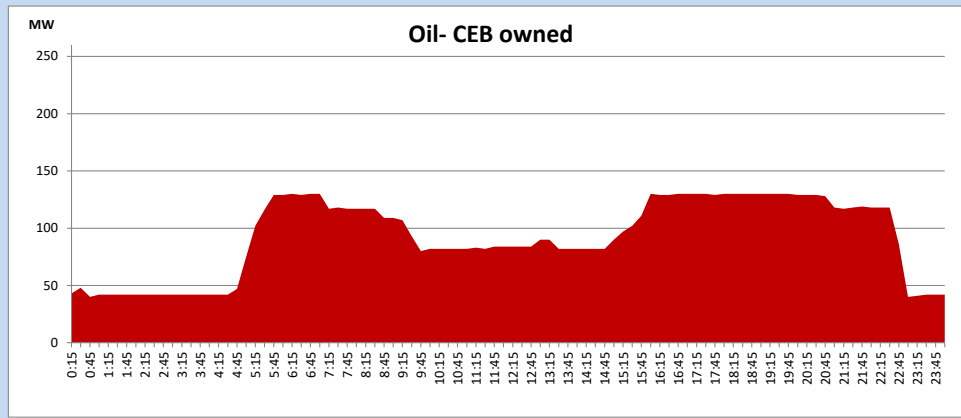
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during May 31, 2024



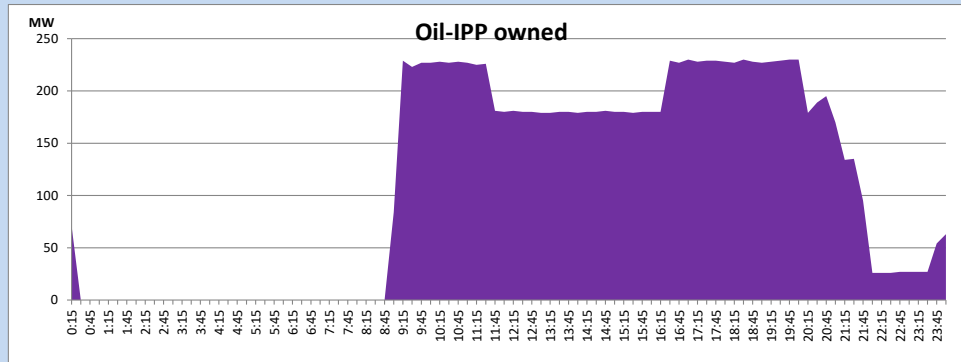
CEB Oil Plant Generation during

May 31, 2024



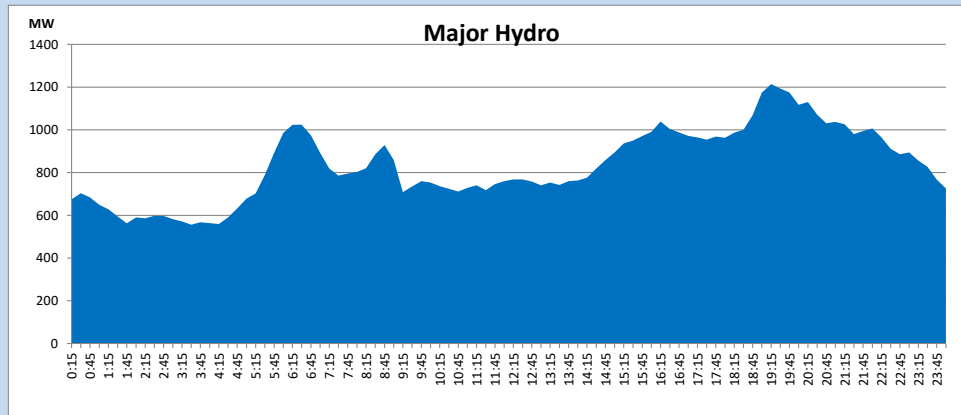
IPP Oil Plant Generation during

May 31, 2024



Major Hydro Generation during

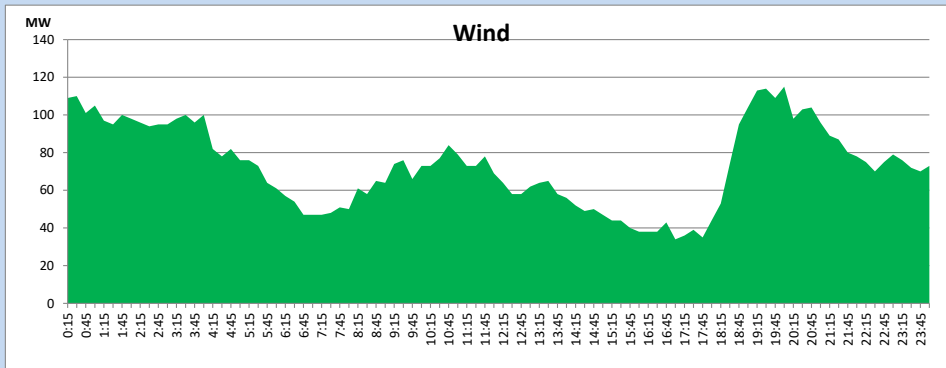
May 31, 2024



Wind Generation during

May 31, 2024

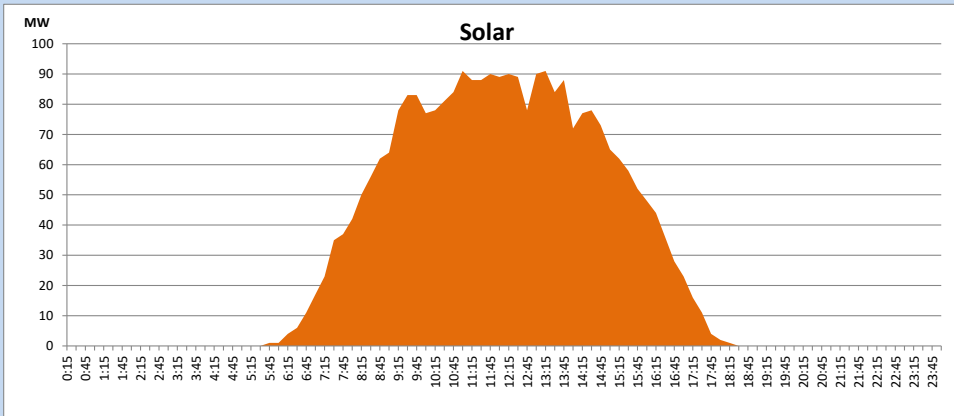
Based on Telemetered Power Stations only



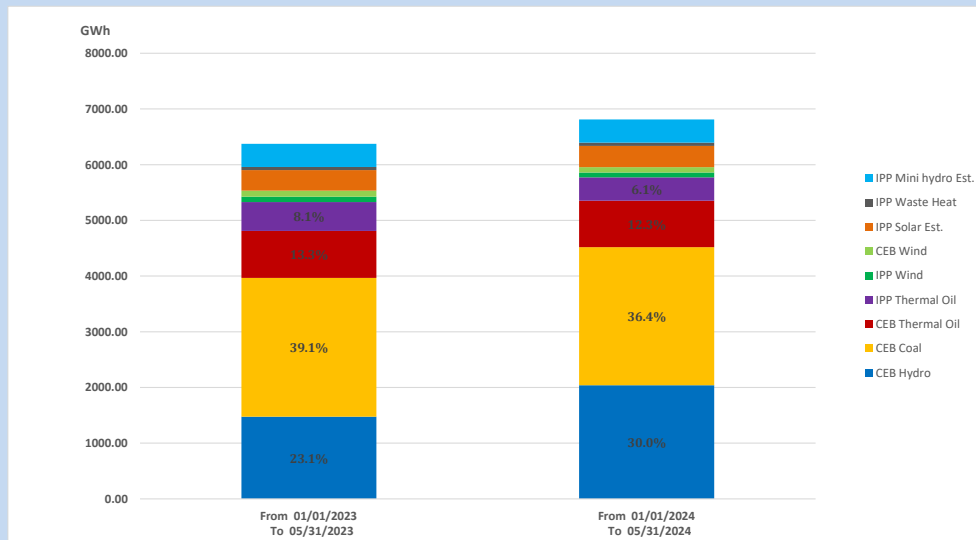
Solar Generation during

May 31, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/31/2023

6373 GWh

From 01/01/2024 To 05/30/2024

6811 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

May 31, 2024

- 1) LVPS unit 02 de-loaded to 210MW (net) at 14:53hrs due to the tripping of a coal mill. LVPS unit 02 reached full load at 16:45hrs.
- 2) Upper Kothmale pond spilling stopped at 13:59hrs.
- 3) Kukule Ganga pond spilling continues to the present hour.
- 4) Ambalangoda - Mathugama 132kV cct 01 and 02 tripped and A/R only from Mathugama end at 03:58hrs (01.06.2024) due to the operation of distance protection. Both ccts were already in the off position from Ambalangoda end.
- 5) Balangoda - N'Galle and Deniyaya - N'Galle 132kV both ccts tripped and A/R from both ends at 04:44hrs due to the operation of differential protection.