

Generation and Reservoirs Statistics

May 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

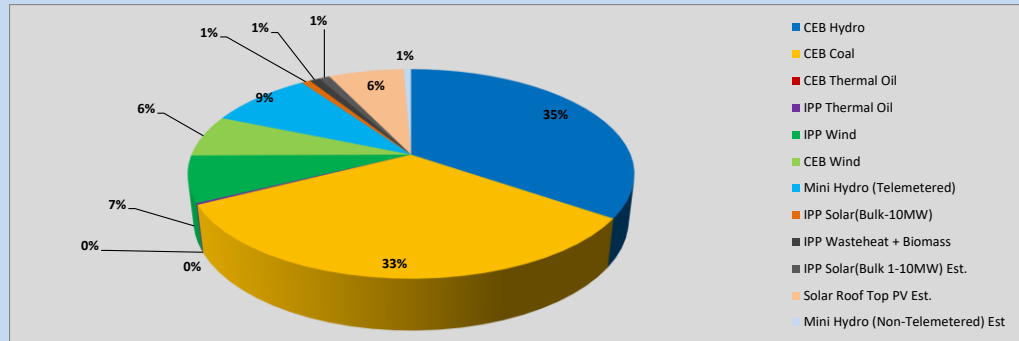


Table 01

	Generation (MWh)
CEB Hydro	11,303
CEB Coal	10,766
CEB Thermal Oil	-
IPP Thermal Oil	75
IPP Wind	2,332
CEB Wind	2,108
Mini Hydro (Telemetered)	2,933
IPP Solar (Bulk)	244
IPP Waste heat + Biomass	290
Total Generation (Excluding estimated figures)	30,051
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	212
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	32,697

* 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	261	24.71%
CEB Coal	427	40.39%
CEB Thermal Oil	198	18.78%
IPP Thermal	3	0.28%
SPP Wind	14	1.34%
CEB Wind	16	1.49%
Mini Hydro *	66	6.22%
IPP Solar *	63	5.98%
IPP Waste heat + BMP	9	0.81%
Total	1,056	

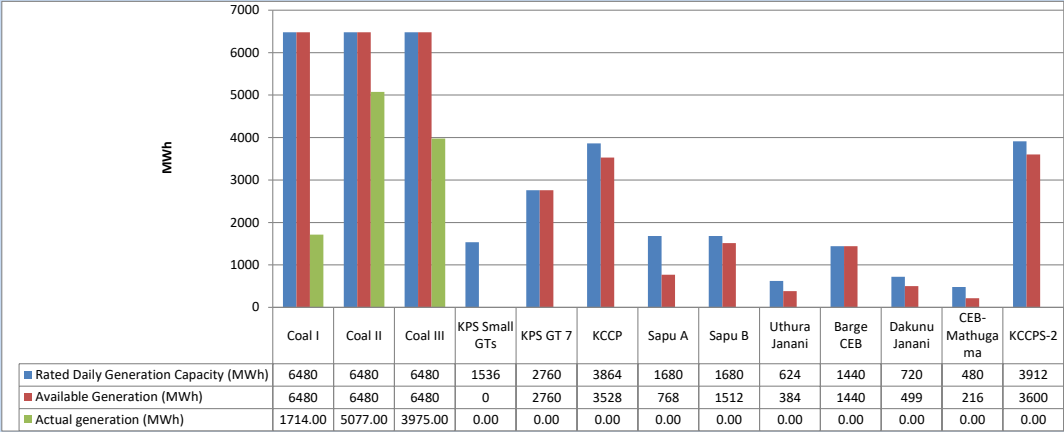
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,902	29.41%
CEB Coal	2,387	36.91%
CEB Thermal Oil	824	12.74%
IPP Thermal	411	6.35%
SPP Wind	72	1.11%
CEB Wind	79	1.22%
Mini Hydro *	376	5.82%
IPP Solar *	359	5.55%
IPP Waste heat	58	0.89%
Total	6,468	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

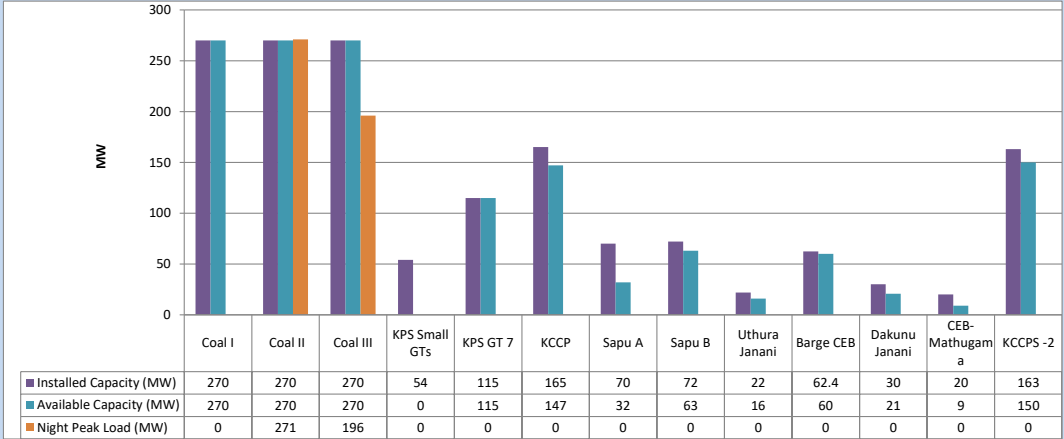
May 23, 2024



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

May 24, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

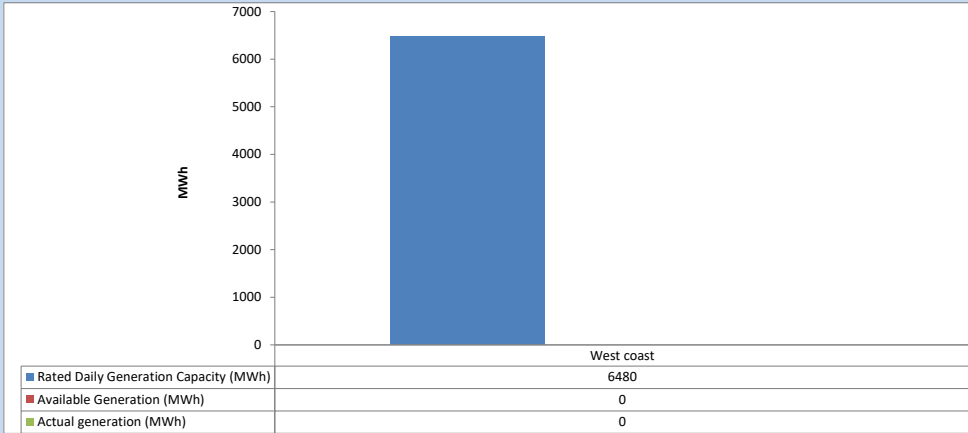


Plant availability is recorded at 6.00 am on

May 24, 2024

5. IPP owned Thermal Plant Dispatch

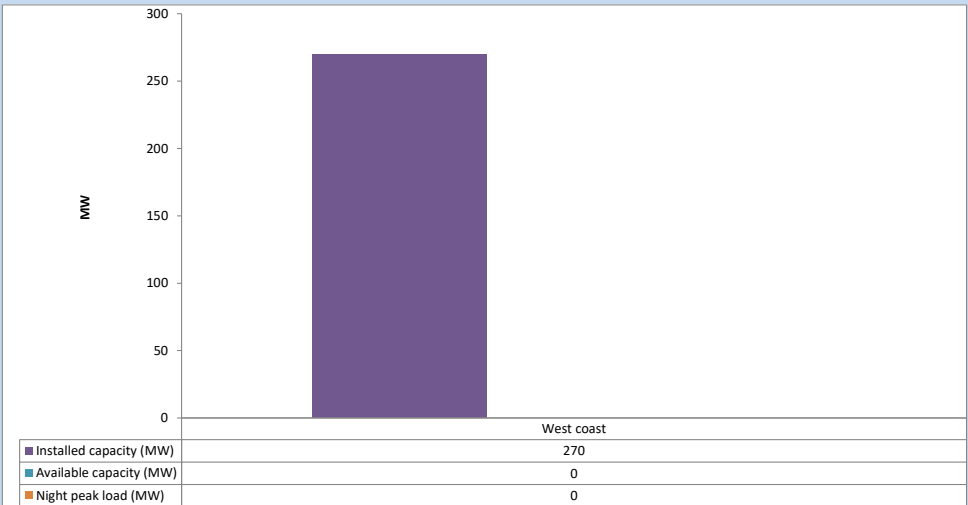
May 23, 2024



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

May 24, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

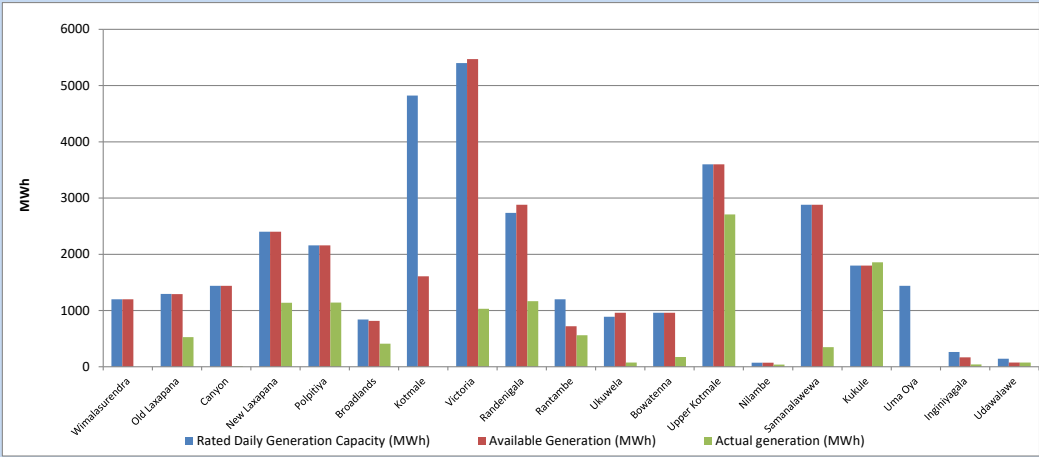


Plant availability is recorded at 6.00 am on

May 24, 2024

7. Major Hydro Plant Dispatch

May 23, 2024

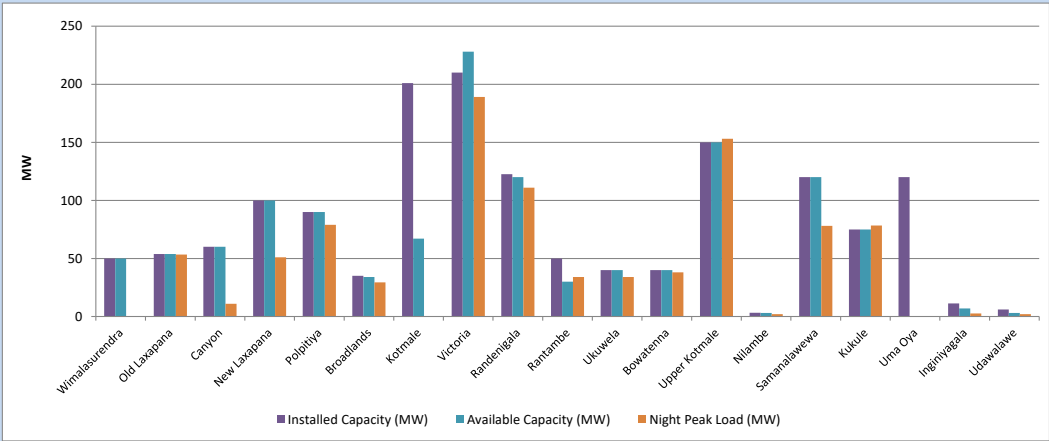


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 24, 2024

8. Major Hydro Plant Loading at Night Peak

May 23, 2024



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

May 24, 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	0	0
Old Laxapana	54	54	53	528
Canyon	60	60	11	11
New Laxapana	100	100	51	1,137
Polpitiya	90	90	79	1,140
Broadlands	35	34	29	410
Kotmale	201	67	0	0
Victoria	210	228	189	1,032
Randenigala	123	120	111	1,166
Rantambe	50	30	34	560
Ukuwela	40	40	34	74
Bowatenna	40	40	38	174
Upper Kotmale	150	150	153	2,710
Nilambe	3	3	2	39
Samanalawewa	120	120	78	348
Kukule	75	75	78	1,858
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	40
Udawalawe	6	3	2	76
Puttalam Coal I	270	270	0	1,714
Puttalam Coal II	270	270	271	5,077
Puttalam Coal III	270	270	196	3,975
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	0	0
Uthura Janani	22	16	0	0
Barge CEB	62	60	0	0
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	9	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	75
Total	3,594	2,694	1,774	30,051

Note-

Plant availability is the availability recorded at 6 am on

May 24, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 23, 2024

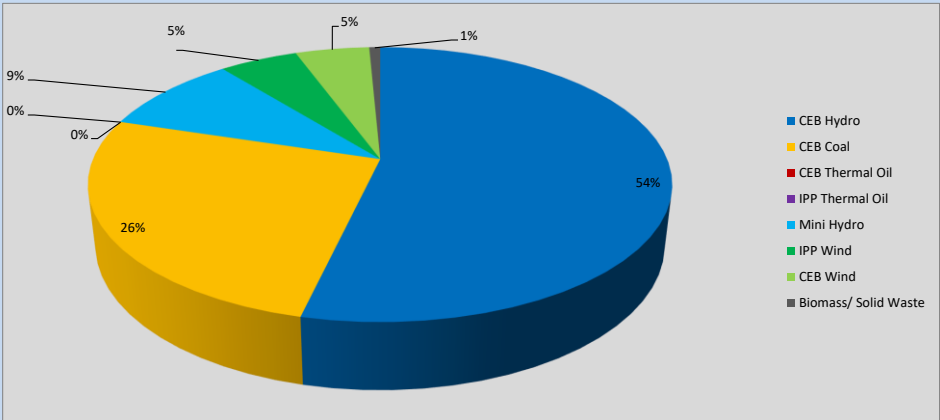


Table 06

CEB Hydro	959	MW
CEB Coal	467	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	168	MW
IPP Wind	92.8	MW
CEB Wind	87.5	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

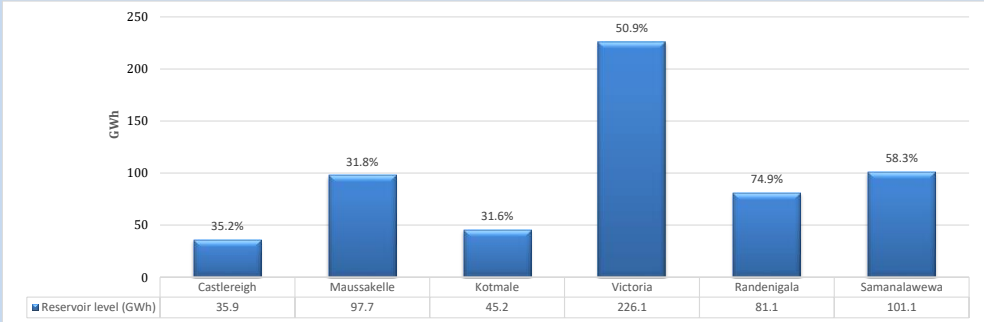
Table 07

Night Peak*	1,787	MW
Day Peak Maximum Demand	1,328	MW
Day Peak Minimum Demand	898	MW
Off Peak Minimum Demand	1,139	MW

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

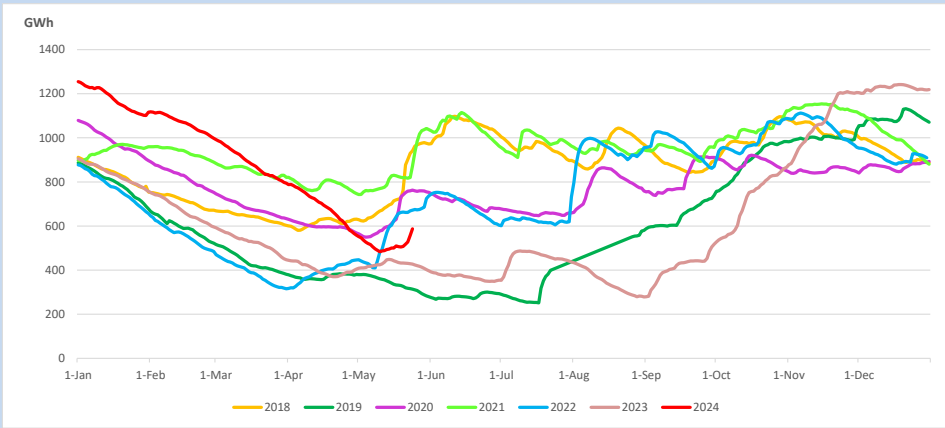
Reservoir Levels -

as at 06.00 Hr on May 24, 2024

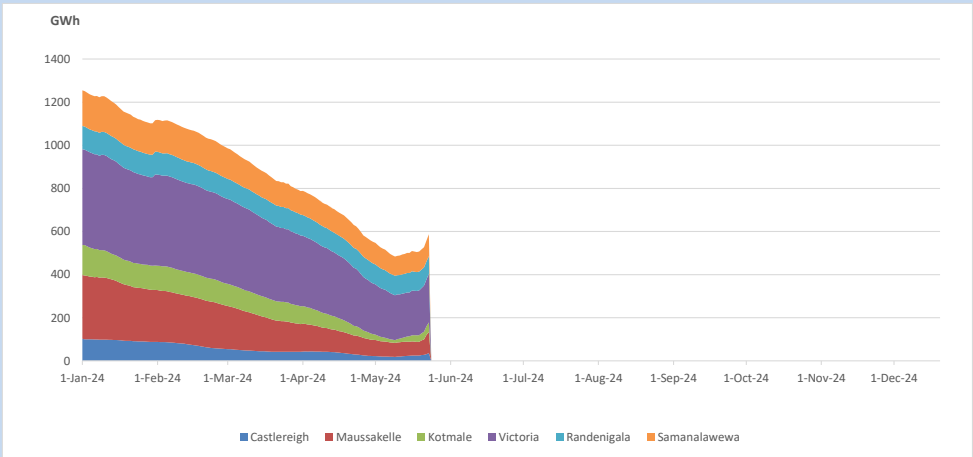


Total Reservoir Level 587.1 GWh
% of Total capacity 45.9%

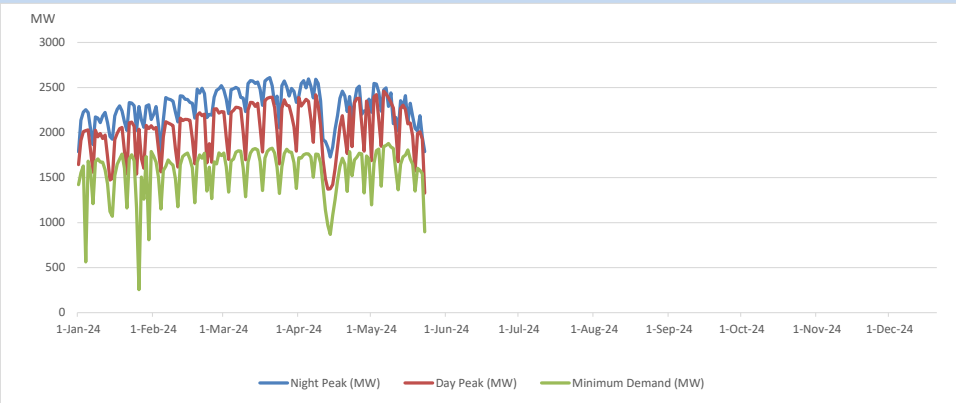
11. Comparison of Total Reservoir Storage Levels with Past Years



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

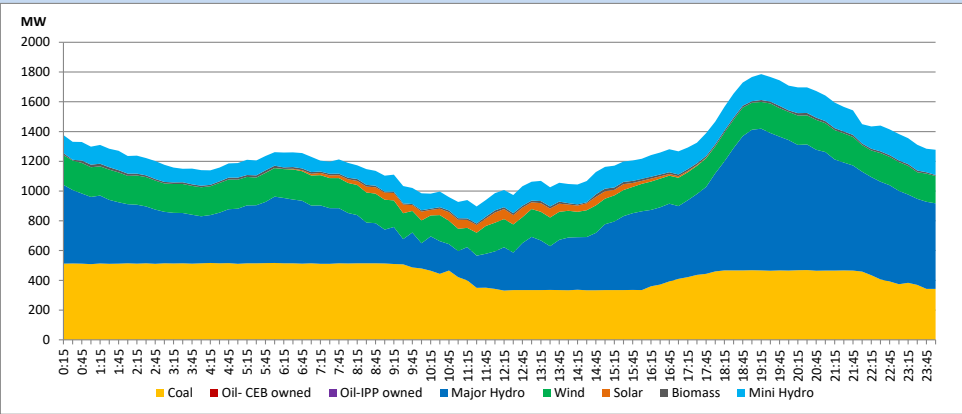


13. Variation of Demand during the current year



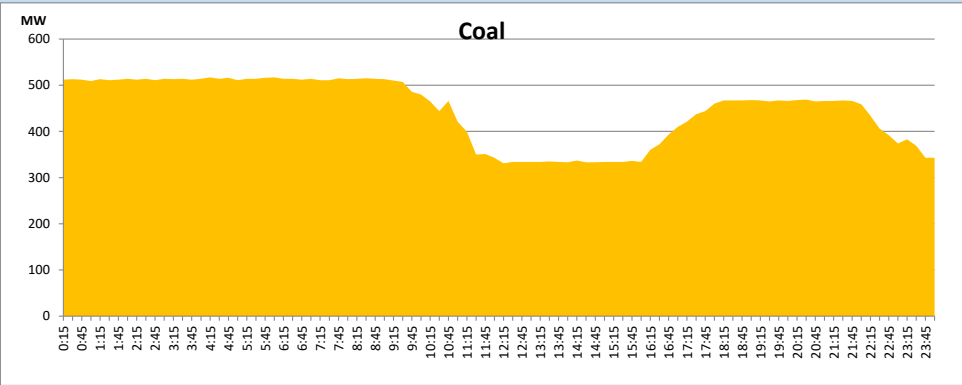
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 23, 2024



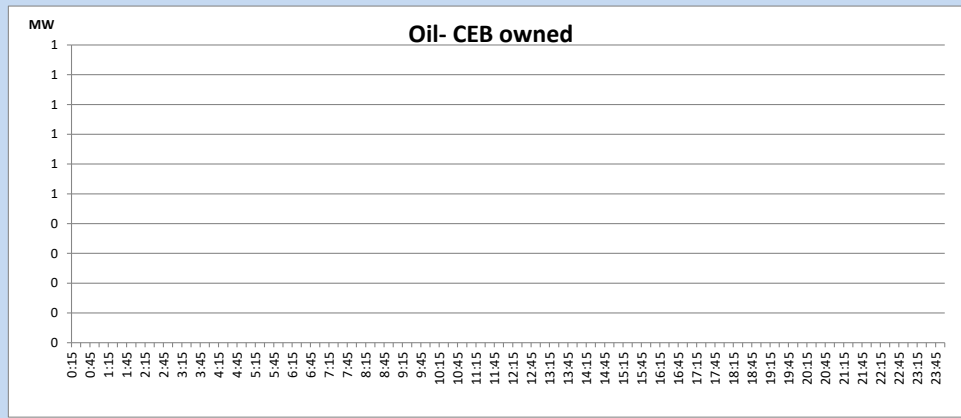
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during May 23, 2024



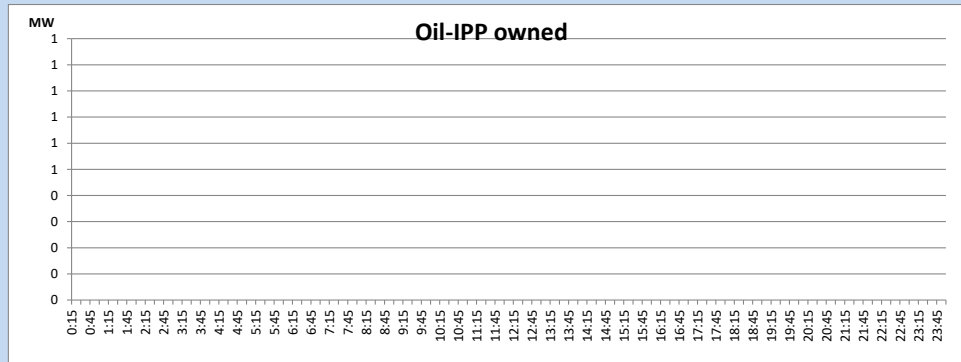
CEB Oil Plant Generation during

May 23, 2024



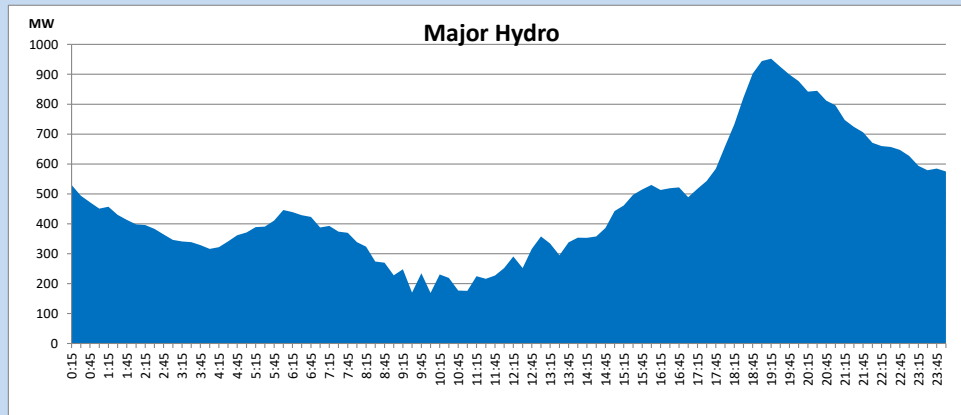
IPP Oil Plant Generation during

May 23, 2024



Major Hydro Generation during

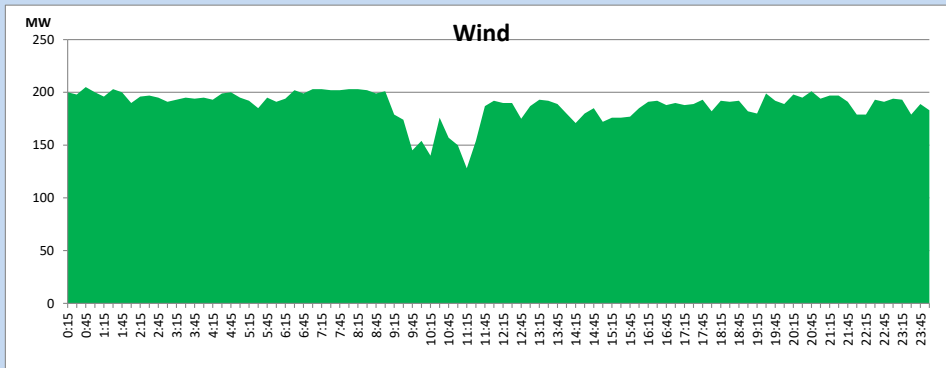
May 23, 2024



Wind Generation during

May 23, 2024

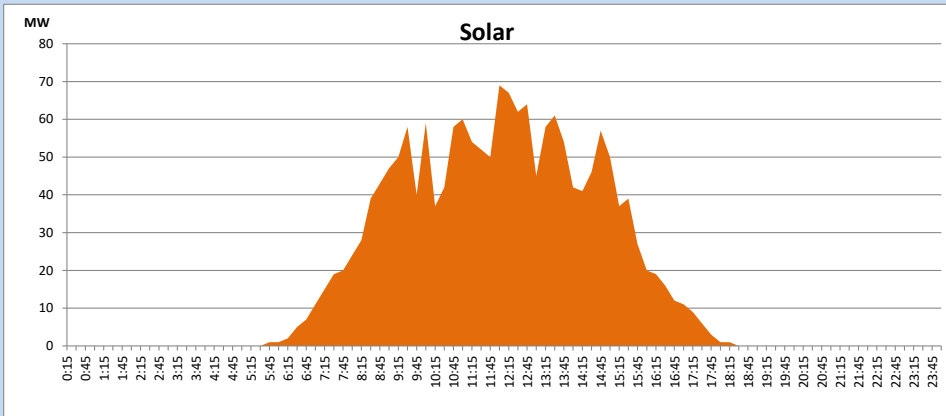
Based on Telemetered Power Stations only



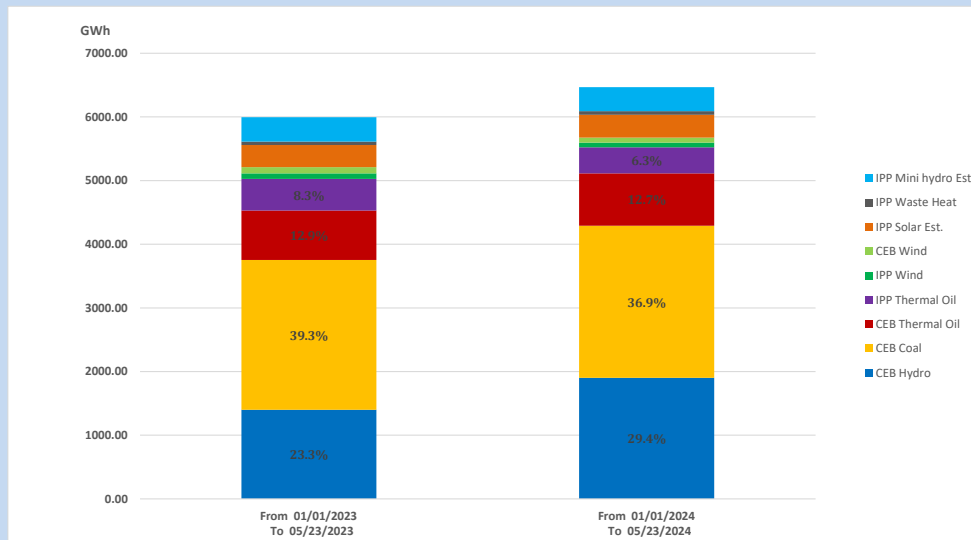
Solar Generation during

May 23, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/23/2023

5995 GWh

From 01/01/2024 To 05/23/2024

6468 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 23, 2024

- 1). WPS 132/33kV T/F 02 tripped only from the 33kV side along with feeder 09 at 06:35hrs due to the operation of O/C, and E/F protection. The T/F normalized at 06:47hrs and when trying to normalize the feeder 09, T/F 02 again tripped from the 33kV side twice at 10:52hrs and 15:28hrs respectively. The T/F normalized at 10:52hrs and 15:28hrs respectively. Feeder 09 is yet to be normalized.
- 2). Chunnakam 132/33kV T/F 03 tripped from both ends at 10:05hrs due to the operation of differential protection along with 33kV feeder 08. T/F 03 and feeder 08 were normalized by 10:20hrs.
- 3). Kotmale Gen 03 was made unavailable at 1:57hrs (24.05.2024) due to the tripping of Gen T/F with the operation of the differential protection. The unit is yet to resume generation.
- 4). Kukule pond spilling continues to the present hour.

