

Generation and Reservoirs Statistics

May 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

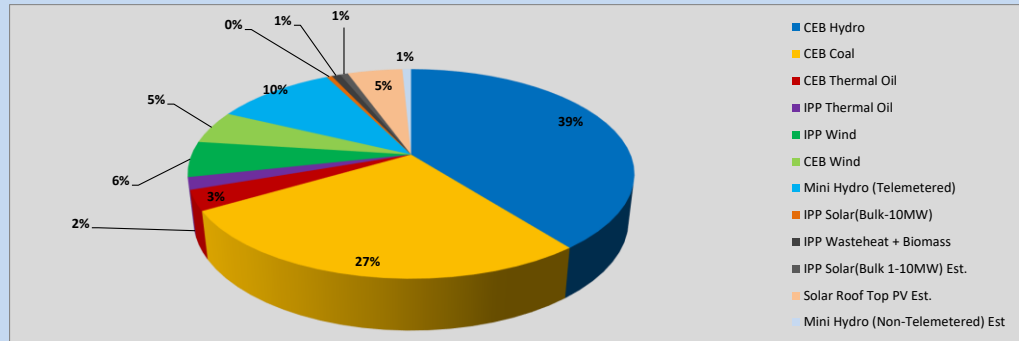


Table 01

	Generation (MWh)
CEB Hydro	17,659
CEB Coal	12,156
CEB Thermal Oil	1,399
IPP Thermal Oil	842
IPP Wind	2,453
CEB Wind	2,285
Mini Hydro (Telemetered)	4,677
IPP Solar (Bulk)	210
IPP Waste heat + Biomass	338
Total Generation (Excluding estimated figures)	42,019
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	338
* Estimated IPP Solar PV (Bulk 1-10MW)	305
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	44,792

* 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	322	26.64%
CEB Coal	469	38.71%
CEB Thermal Oil	200	16.51%
IPP Thermal	4	0.31%
SPP Wind	24	1.96%
CEB Wind	25	2.06%
Mini Hydro *	83	6.88%
IPP Solar *	74	6.10%
IPP Waste heat + BMP	10	0.83%
Total	1,210	

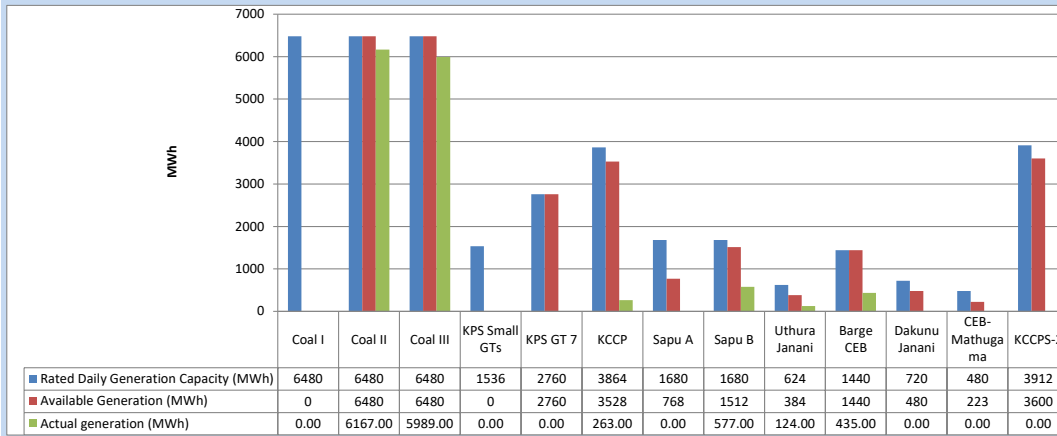
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,964	29.65%
CEB Coal	2,429	36.69%
CEB Thermal Oil	825	12.46%
IPP Thermal	411	6.21%
SPP Wind	81	1.23%
CEB Wind	88	1.33%
Mini Hydro *	394	5.95%
IPP Solar *	370	5.58%
IPP Waste heat	59	0.89%
Total	6,622	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

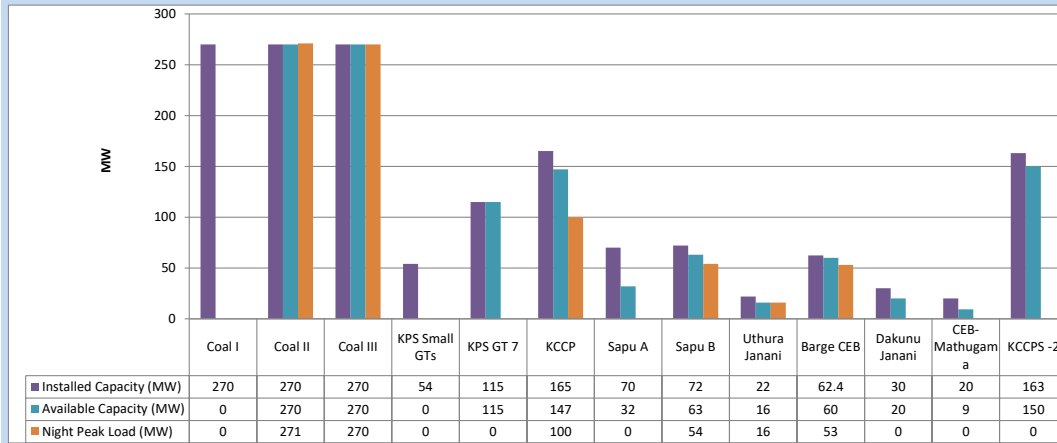
May 27, 2024



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

May 28, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

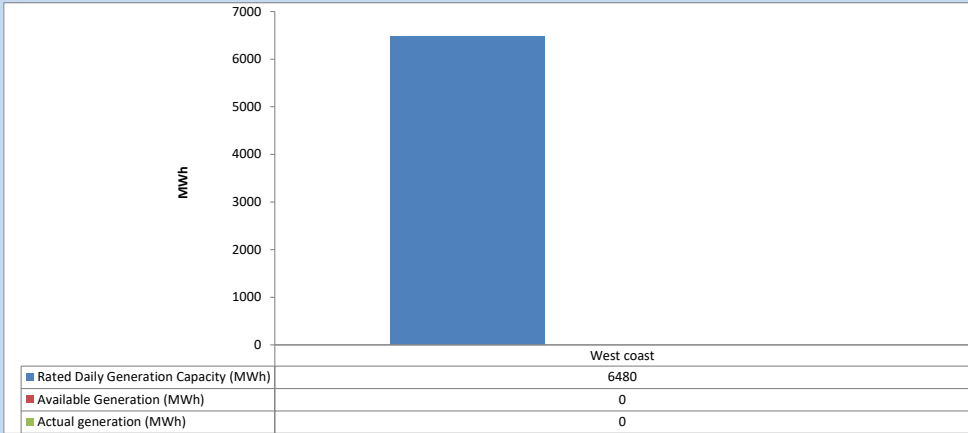


Plant availability is recorded at 6.00 am on

May 28, 2024

5. IPP owned Thermal Plant Dispatch

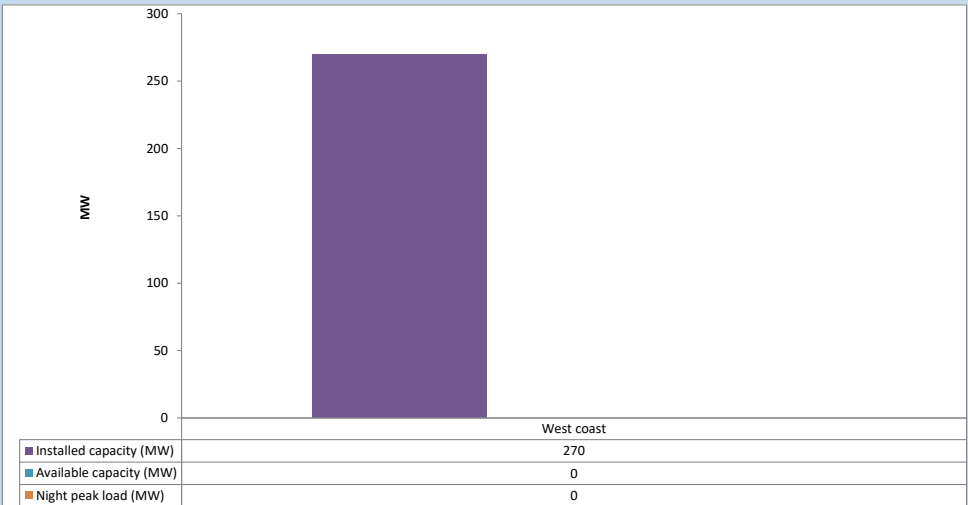
May 27, 2024



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

May 28, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

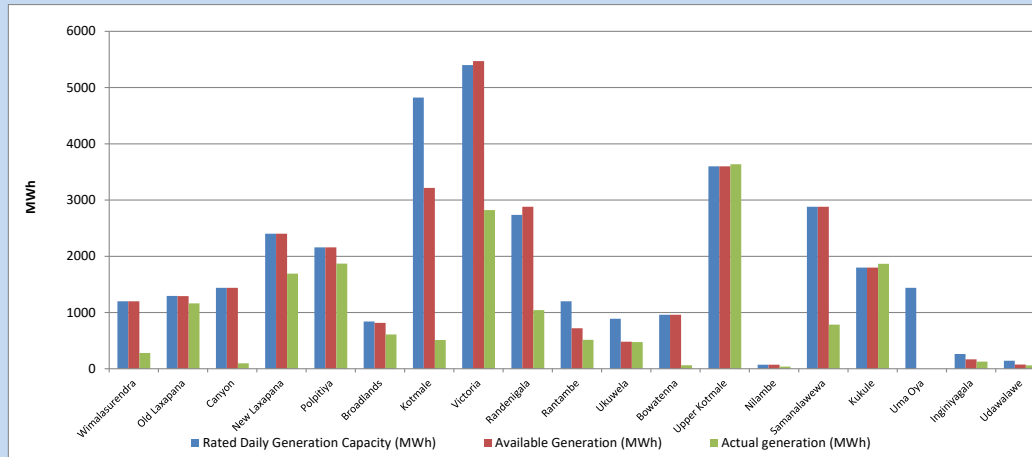


Plant availability is recorded at 6.00 am on

May 28, 2024

7. Major Hydro Plant Dispatch

May 27, 2024

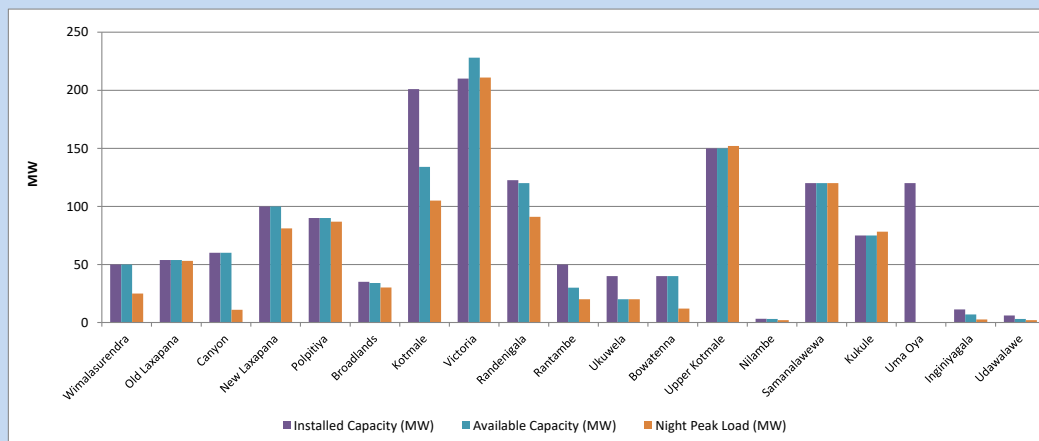


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 28, 2024

8. Major Hydro Plant Loading at Night Peak

May 27, 2024



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

May 28, 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	25	282
Old Laxapana	54	54	53	1,163
Canyon	60	60	11	97
New Laxapana	100	100	81	1,691
Polpitiya	90	90	87	1,870
Broadlands	35	34	30	611
Kotmale	201	134	105	510
Victoria	210	228	211	2,821
Randenigala	123	120	91	1,042
Rantambe	50	30	20	514
Ukuwela	40	20	20	476
Bowatenna	40	40	12	64
Upper Kotmale	150	150	152	3,638
Nilambe	3	3	2	39
Samanalawewa	120	120	120	785
Kukule	75	75	78	1,868
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	128
Udawalawe	6	3	2	60
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,167
Puttalam Coal III	270	270	270	5,989
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	100	263
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	54	577
Uthura Janani	22	16	16	124
Barge CEB	62	60	53	435
CEB-Hambantota	30	20	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	842
Total	3,594	2,470	2,281	42,019

Note-

Plant availability is the availability recorded at 6 am on

May 28, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 27, 2024

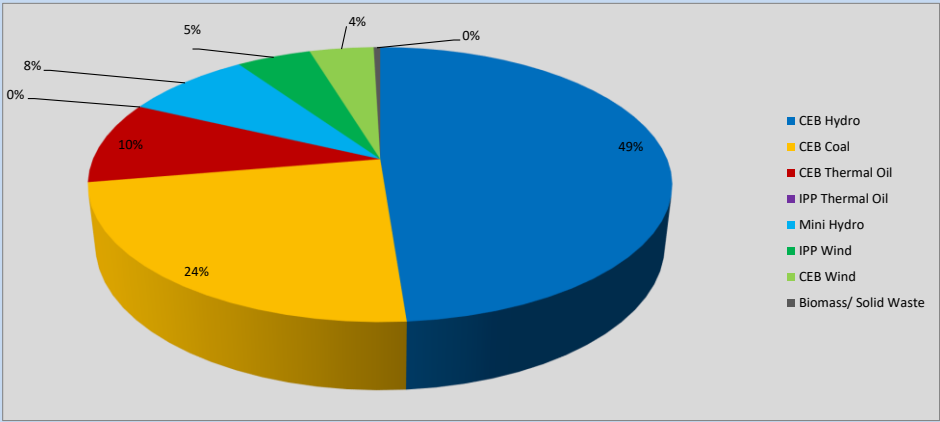


Table 06

CEB Hydro	1123	MW
CEB Coal	541	MW
CEB Thermal Oil	223	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	193	MW
IPP Wind	113.4	MW
CEB Wind	97.8	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

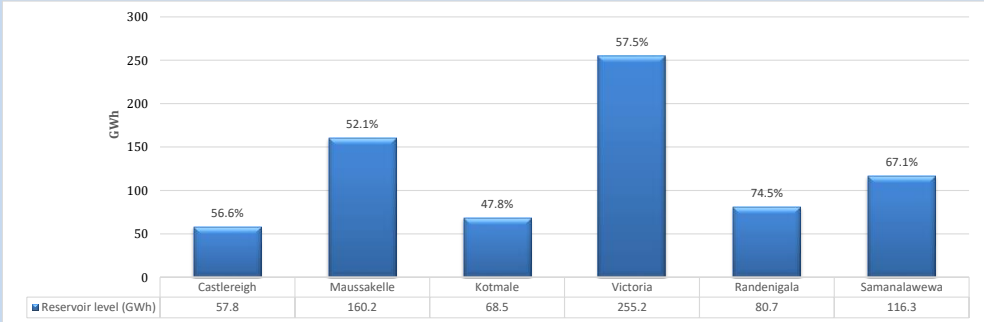
Table 07

Night Peak*	2,301	MW
Day Peak Maximum Demand	2,082	MW
Day Peak Minimum Demand	1,549	MW
Off Peak Minimum Demand	1,229	MW

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

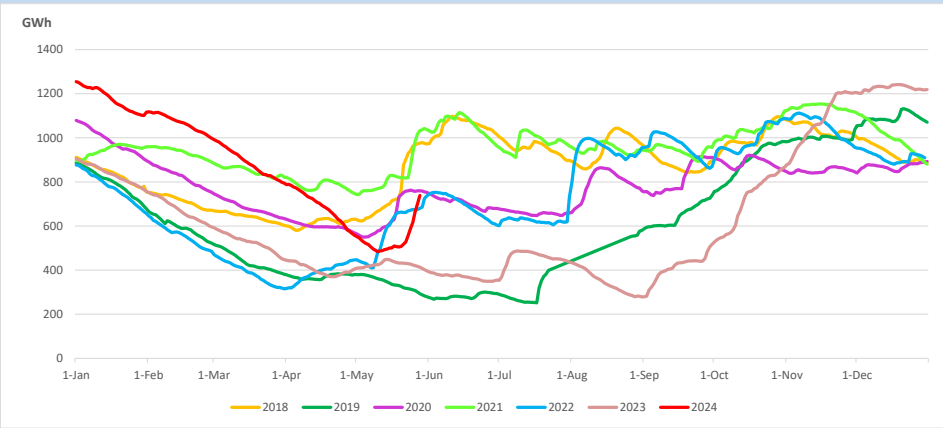
Reservoir Levels -

as at 06.00 Hr on May 28, 2024

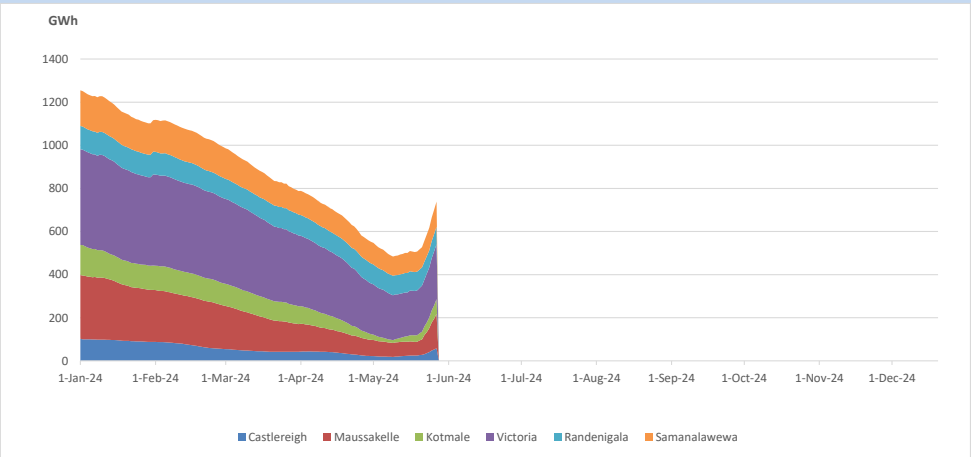


Total Reservoir Level 738.7 GWh
% of Total capacity 57.8%

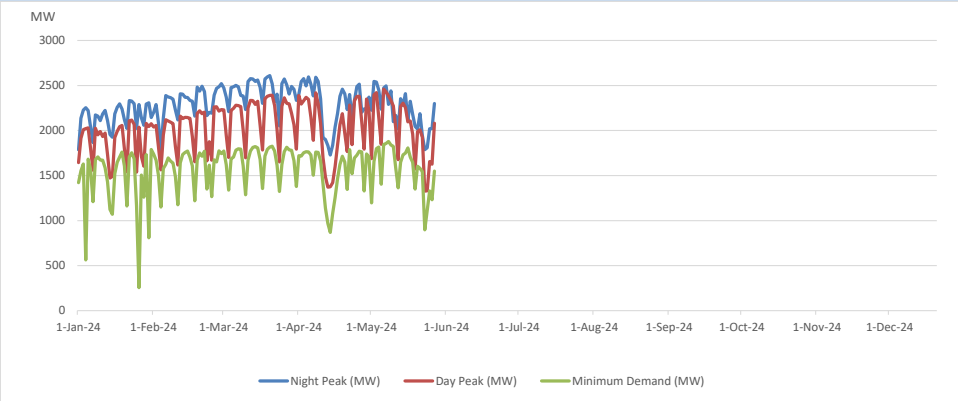
11. Comparison of Total Reservoir Storage Levels with Past Years



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

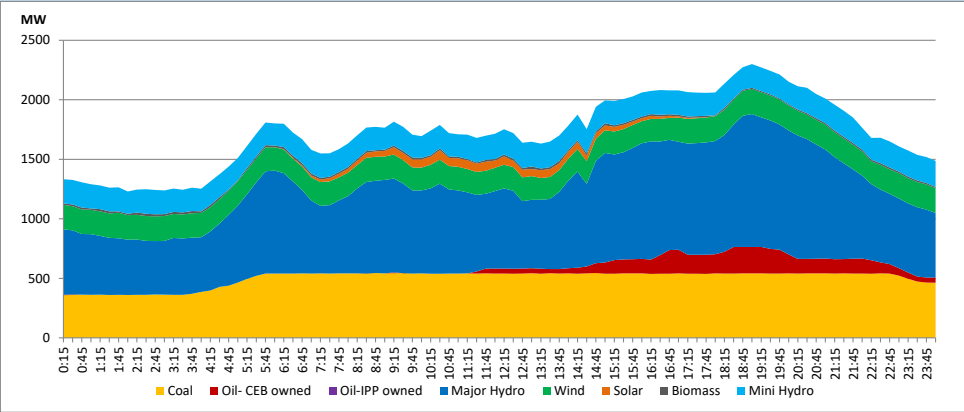


13. Variation of Demand during the current year



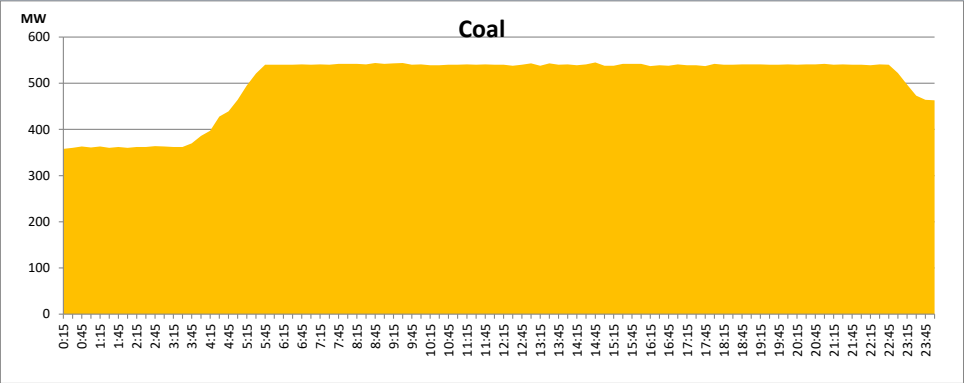
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 27, 2024



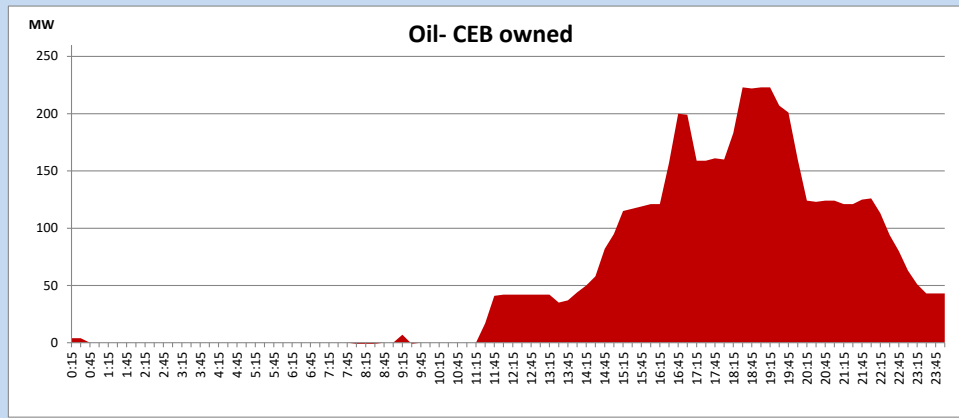
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during May 27, 2024



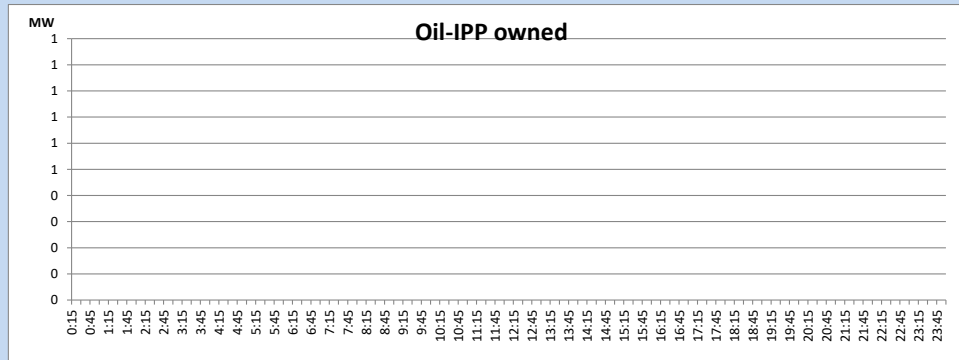
CEB Oil Plant Generation during

May 27, 2024



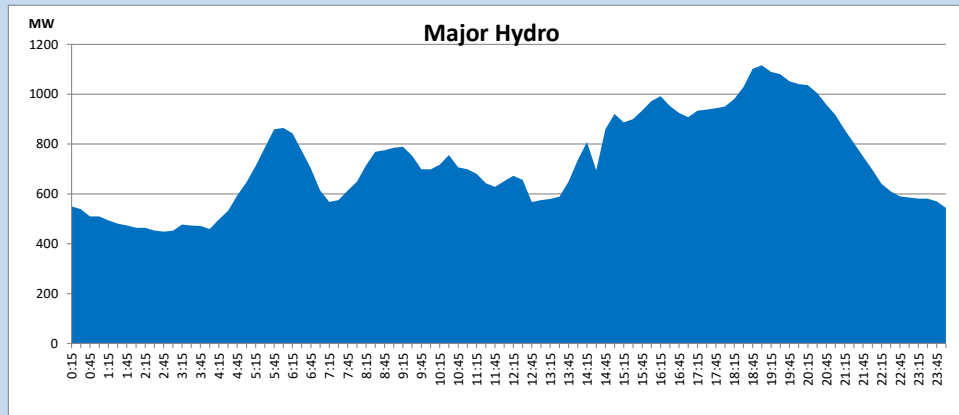
IPP Oil Plant Generation during

May 27, 2024



Major Hydro Generation during

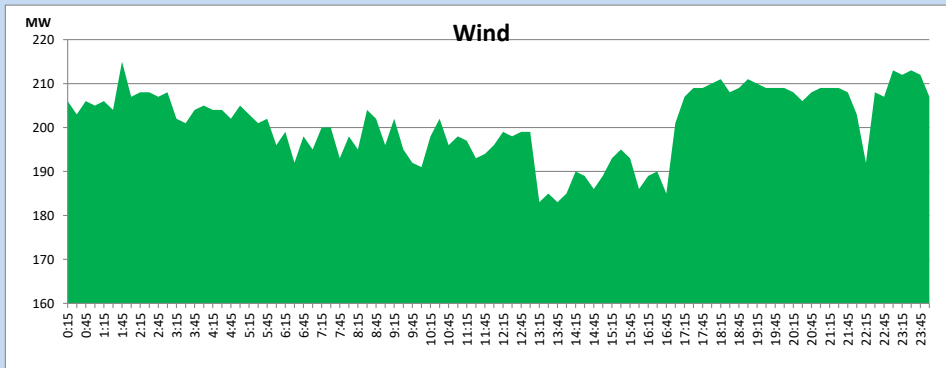
May 27, 2024



Wind Generation during

May 27, 2024

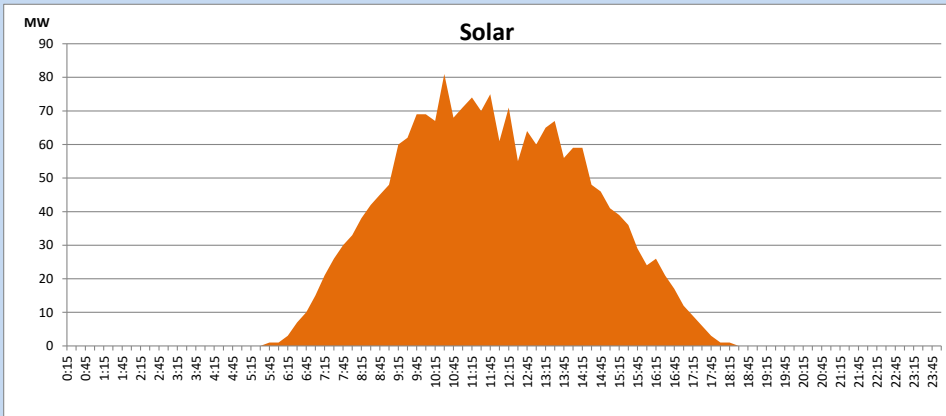
Based on Telemetered Power Stations only



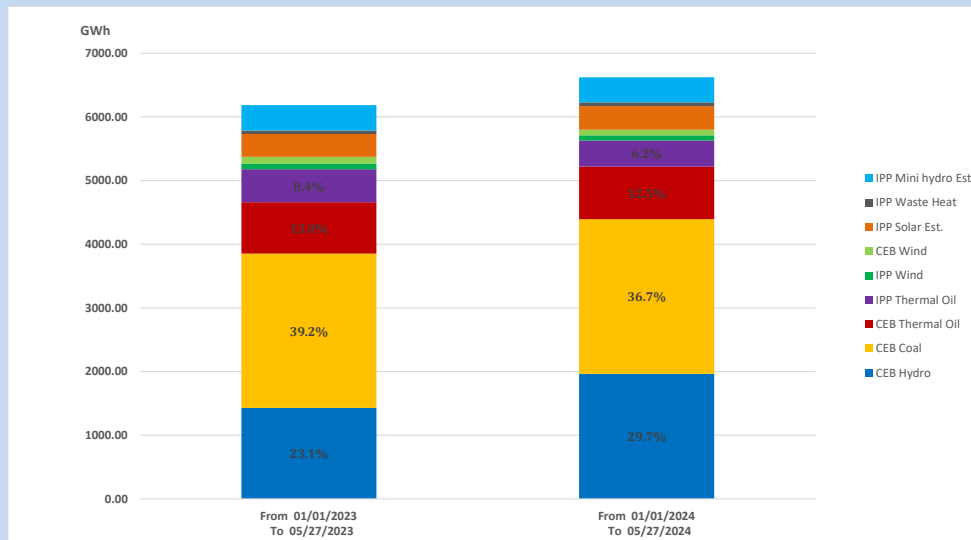
Solar Generation during

May 27, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/27/2023

6185 GWh

From 01/01/2024 To 05/27/2024

6622 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 27, 2024

- 1) Power Barge made a forced shutdown while starting at 09:24hrs due to a cooling water system leak. Power Barge was made available for generation at 10:42hrs.
- 2) Kesbewa 132/33kV T/F 01 tripped from both ends at 09:23hrs due to the operation of OLTC - PRV along with feeder 01. Kesbewa feeder 01 was normalized at 10:12hrs and the T/F 01 was normalized at 17:00hrs.
- 3) Kolonnawa - Seethawaka 132kV cct tripped and A/R from both ends at 09:59hrs due to the operation of distance protection.
- 4) Sapugaskanda Generator 03 was made unavailable due to a jacket water leakage at 15:29hrs. The Generator is yet to be normalized.
- 5) Pannipitiya 132/33kV T/F 03 tripped from both ends at 18:58hrs due to the operation of differential protection. The T/F was normalized at 00:05hrs (28.05.2024).
- 6) Biyagama 220/132/33kV T/F 01 tripped from all ends at 03:01hrs (28.05.2024) due to the operation of OLTC - Buchholz surge trip. The T/F is yet to be normalized.
- 7) Upper Kotmale pond spilling started at 00:00hrs and continues to the present hour.
- 8) Kukule Ganga pond spilling continues to the present hour.

