

Generation and Reservoirs Statistics

May 5, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

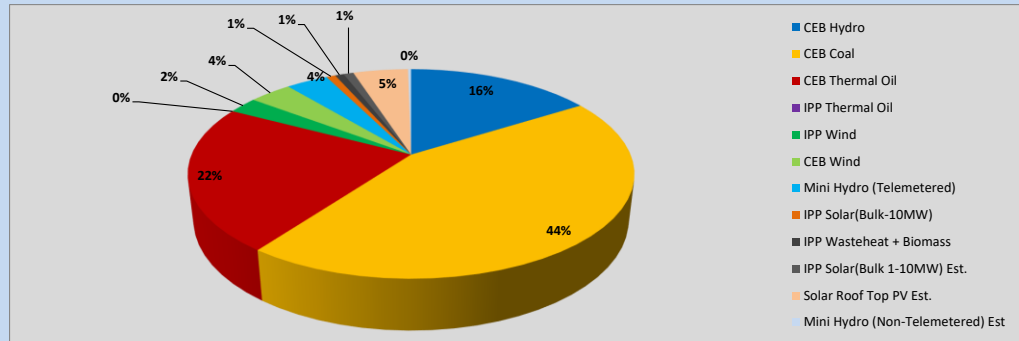


Table 01

	Generation (MWh)
CEB Hydro	7,210
CEB Coal	19,733
CEB Thermal Oil	10,116
IPP Thermal Oil	-
IPP Wind	1,142
CEB Wind	1,648
Mini Hydro (Telemetered)	1,632
IPP Solar (Bulk)	352
IPP Waste heat + Biomass	338
Total Generation (Excluding estimated figures)	42,171
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	118
* Estimated IPP Solar PV (Bulk 1-10MW)	387
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	44,806

* 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	51	21.70%
CEB Coal	97	40.99%
CEB Thermal Oil	54	22.66%
IPP Thermal	0	0.00%
SPP Wind	4	1.61%
CEB Wind	6	2.45%
Mini Hydro *	10	4.03%
IPP Solar *	14	5.96%
IPP Waste heat + BMP	1	0.59%
Total	236	

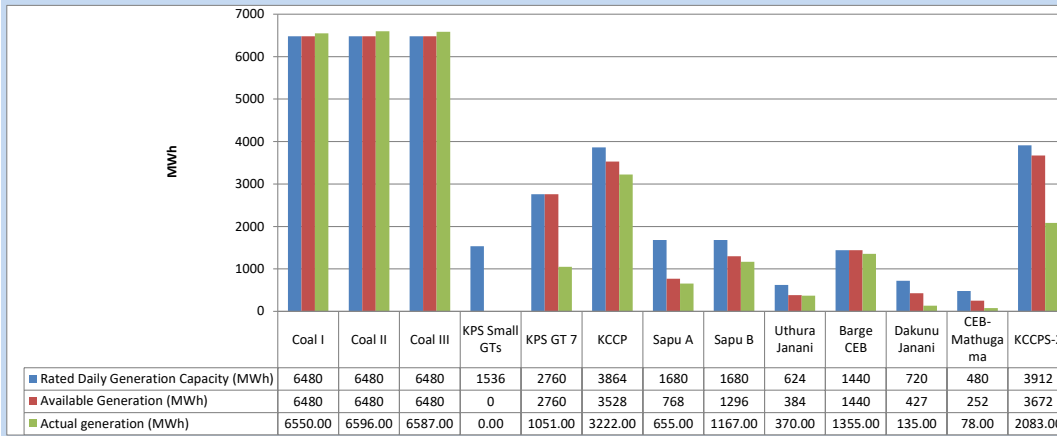
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,692	29.97%
CEB Coal	2,058	36.43%
CEB Thermal Oil	679	12.02%
IPP Thermal	408	7.22%
SPP Wind	61	1.08%
CEB Wind	69	1.22%
Mini Hydro *	320	5.67%
IPP Solar *	310	5.49%
IPP Waste heat	50	0.89%
Total	5,648	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

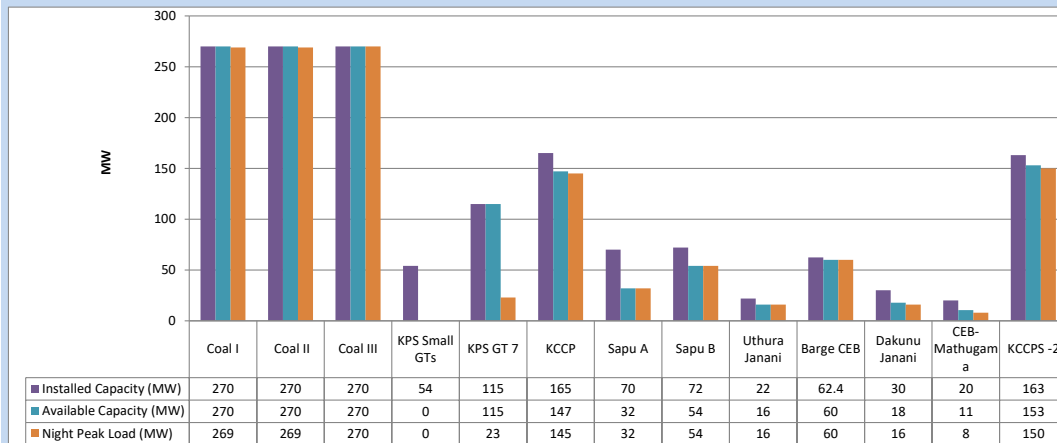
May 5, 2024



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

May 6, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

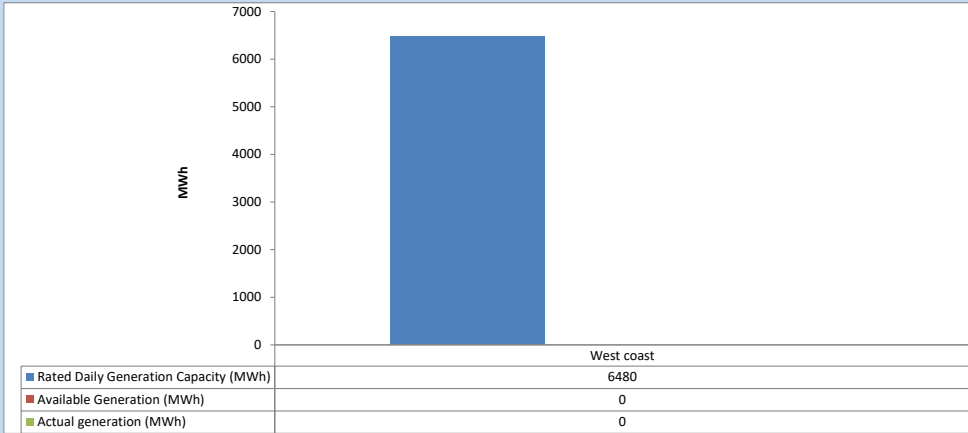


Plant availability is recorded at 6.00 am on

May 6, 2024

5. IPP owned Thermal Plant Dispatch

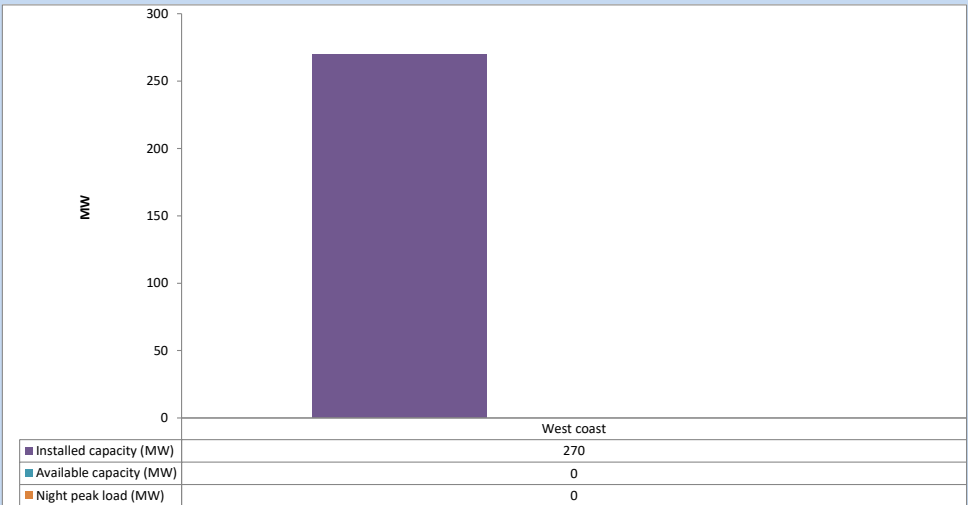
May 5, 2024



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

May 6, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

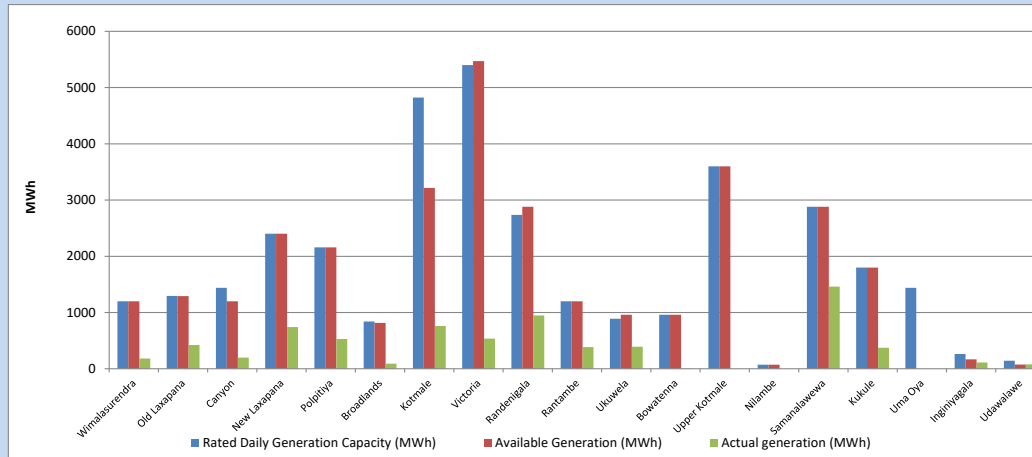


Plant availability is recorded at 6.00 am on

May 6, 2024

7. Major Hydro Plant Dispatch

May 5, 2024

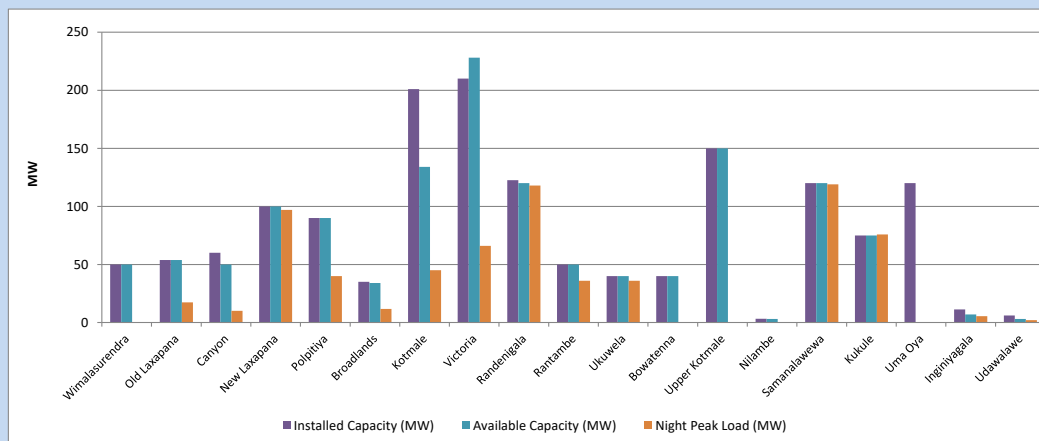


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 6, 2024

8. Major Hydro Plant Loading at Night Peak

May 5, 2024



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

May 6, 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	182
Old Laxapana	54	54	17	421
Canyon	60	50	10	198
New Laxapana	100	100	97	743
Polpitiya	90	90	40	530
Broadlands	35	34	12	89
Kotmale	201	134	45	760
Victoria	210	228	66	536
Randenigala	123	120	118	949
Rantambe	50	50	36	385
Ukuwela	40	40	36	391
Bowatenna	40	40	0	6
Upper Kotmale	150	150	0	0
Nilambe	3	3	0	0
Samanalawewa	120	120	119	1,460
Kukule	75	75	76	372
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	112
Udawalawe	6	3	2	77
Puttalam Coal I	270	270	269	6,550
Puttalam Coal II	270	270	269	6,596
Puttalam Coal III	270	270	270	6,587
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	23	1,051
KCCP	165	147	145	3,222
Sapugaskanda A	70	32	32	655
Sapugaskanda B	72	54	54	1,167
Uthura Janani	22	16	16	370
Barge CEB	62	60	60	1,355
CEB-Hambantota	30	18	16	135
CEB-Mathugama	20	11	8	78
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	150	2,083
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,763	2,231	42,172

Note-

Plant availability is the availability recorded at 6 am on

May 6, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 5, 2024

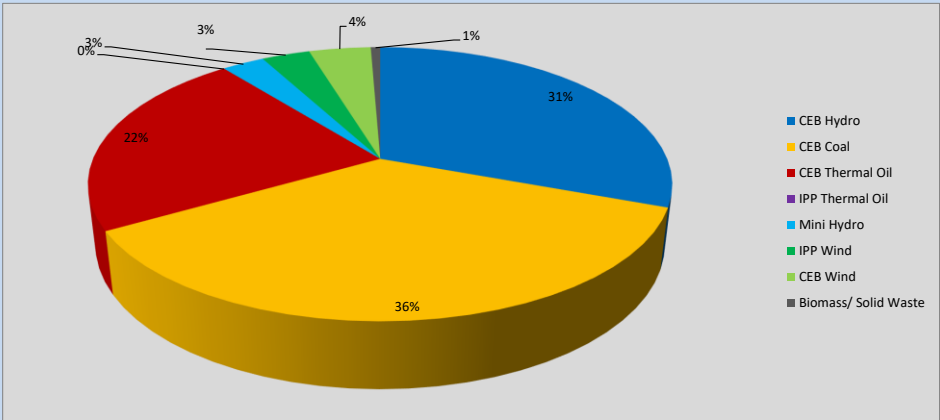


Table 06

CEB Hydro	684	MW
CEB Coal	808	MW
CEB Thermal Oil	504	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	63	MW
IPP Wind	71.3	MW
CEB Wind	91.5	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

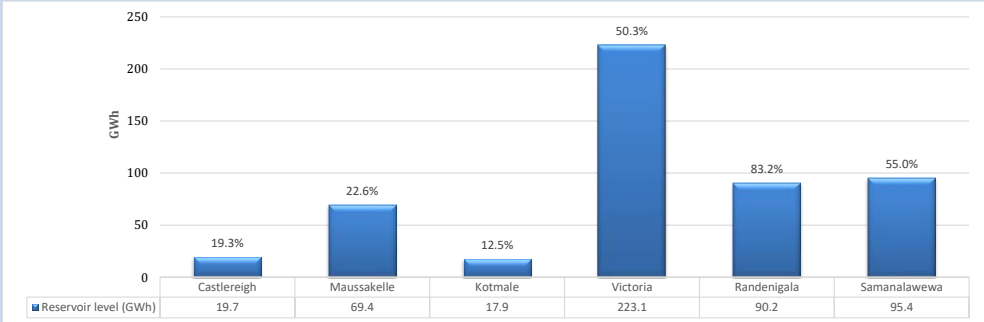
Table 07

Night Peak*	2,236	MW
Day Peak Maximum Demand	1,847	MW
Day Peak Minimum Demand	1,403	MW
Off Peak Minimum Demand	1,641	MW

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

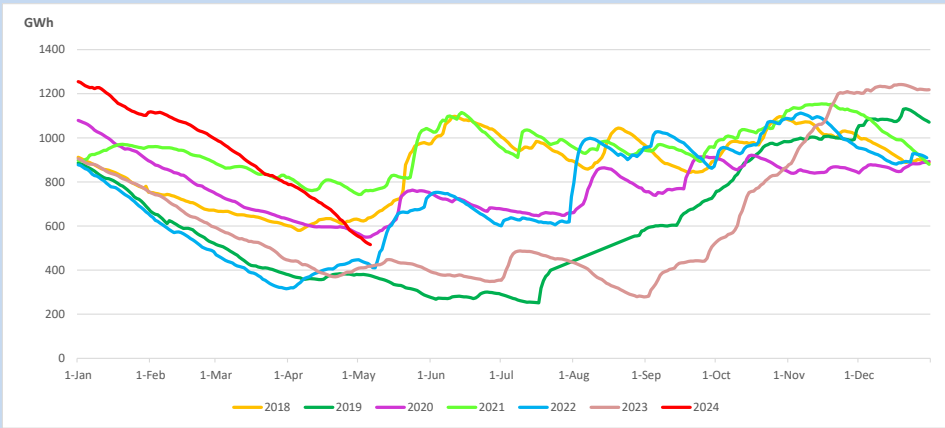
Reservoir Levels -

as at 06.00 Hr on May 6, 2024

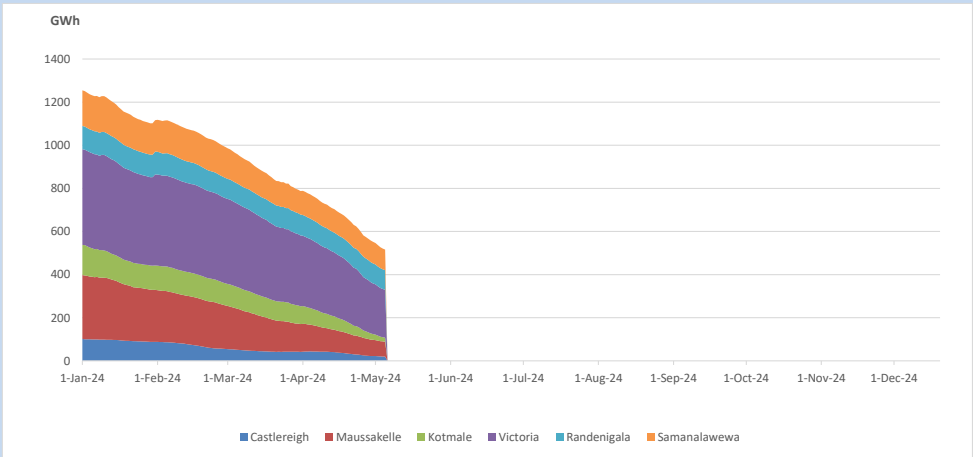


Total Reservoir Level 515.7 GWh
% of Total capacity 40.4%

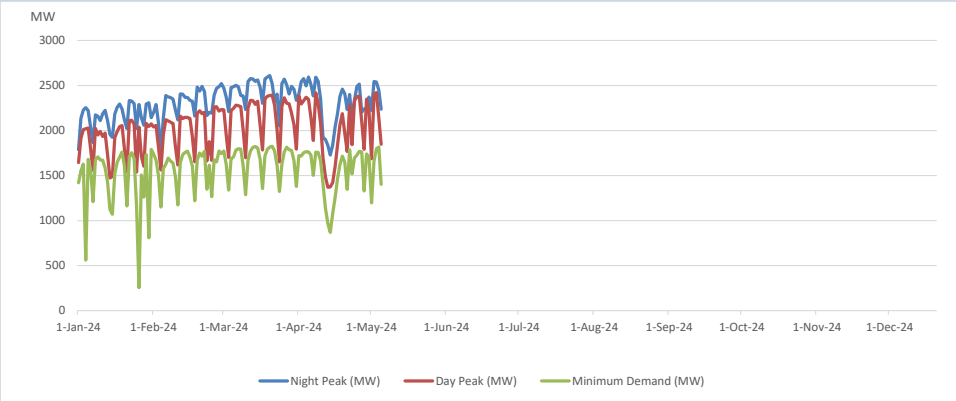
11. Comparison of Total Reservoir Storage Levels with Past Years



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



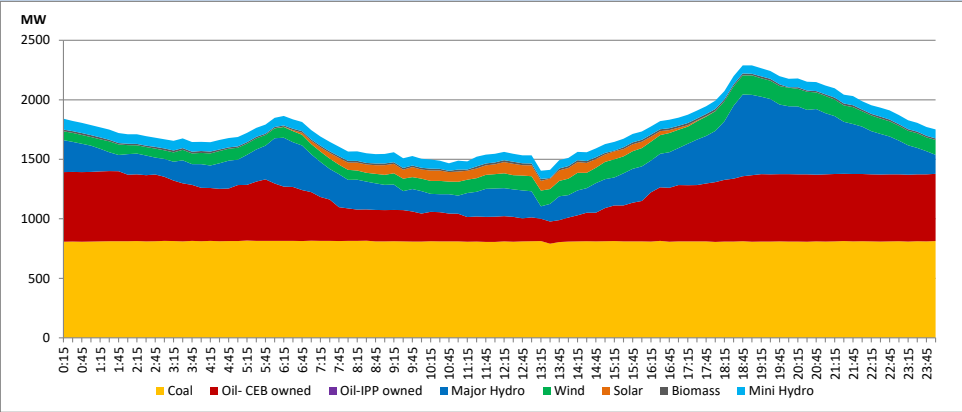
13. Variation of Demand during the current year



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

14. Daily Load Curve

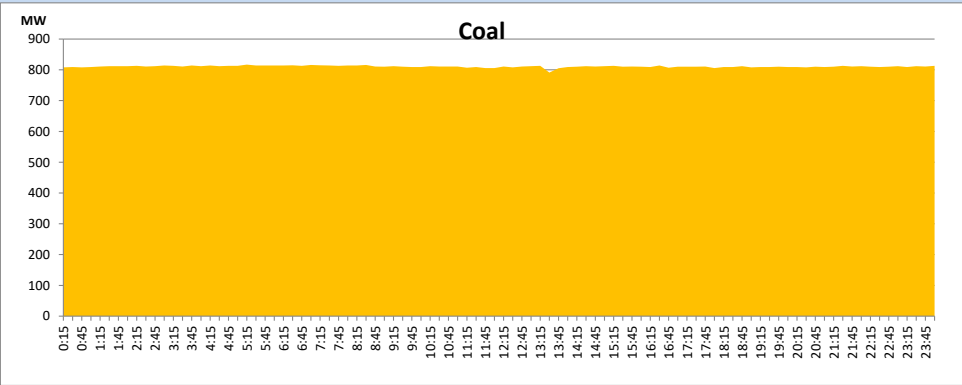
May 5, 2024



Solar and wind data is based on Telemetered Power Stations only

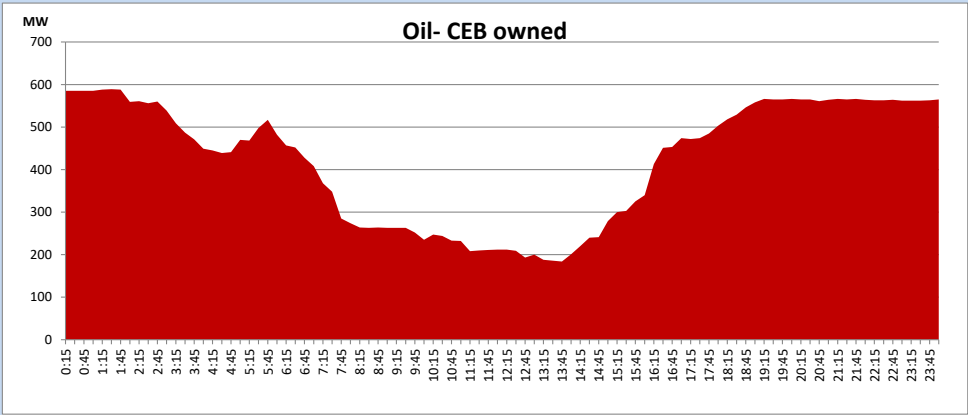
Coal Generation during

May 5, 2024



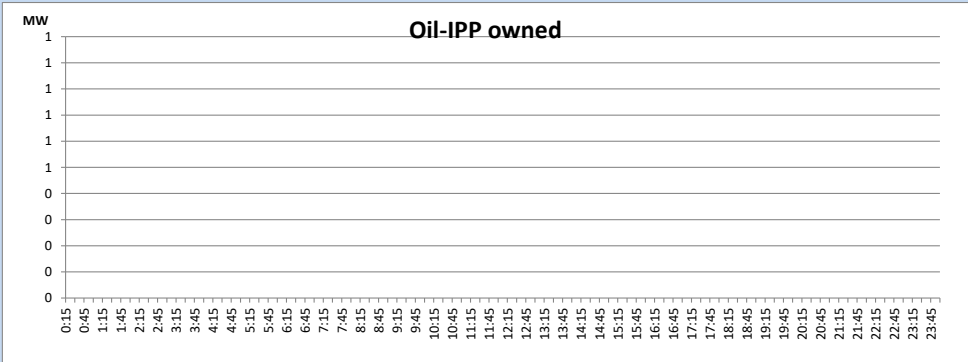
CEB Oil Plant Generation during

May 5, 2024



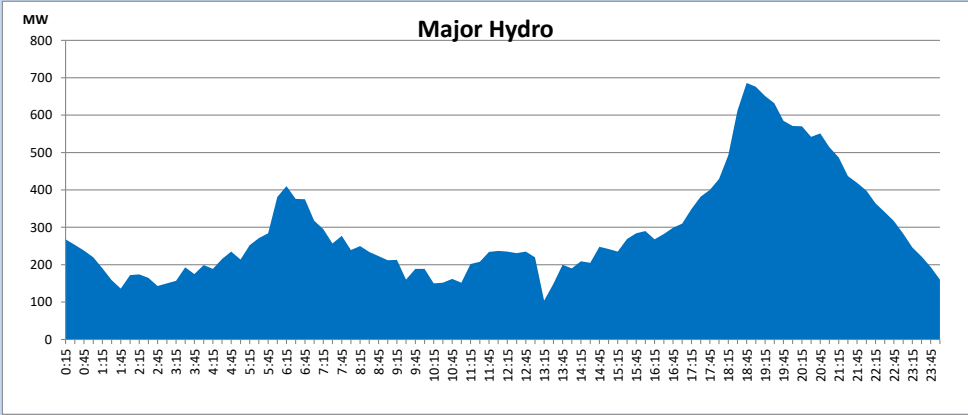
IPP Oil Plant Generation during

May 5, 2024



Major Hydro Generation during

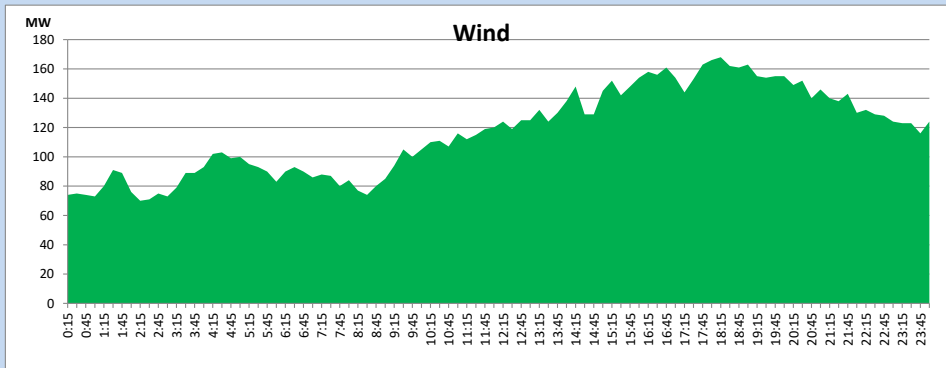
May 5, 2024



Wind Generation during

May 5, 2024

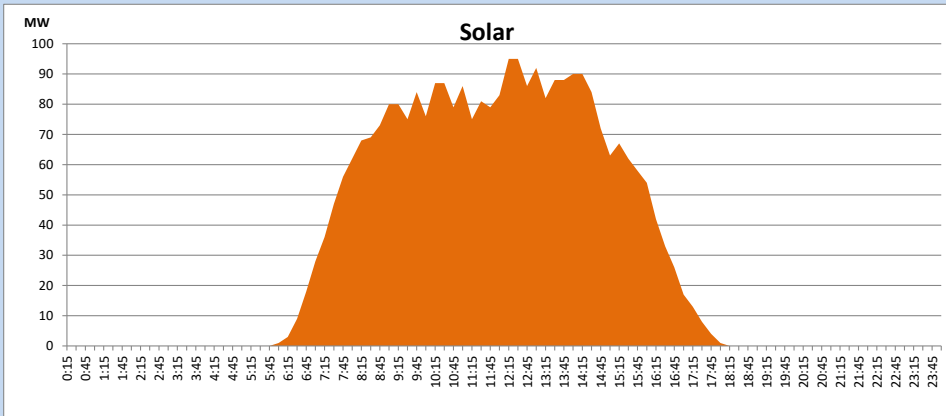
Based on Telemetered Power Stations only



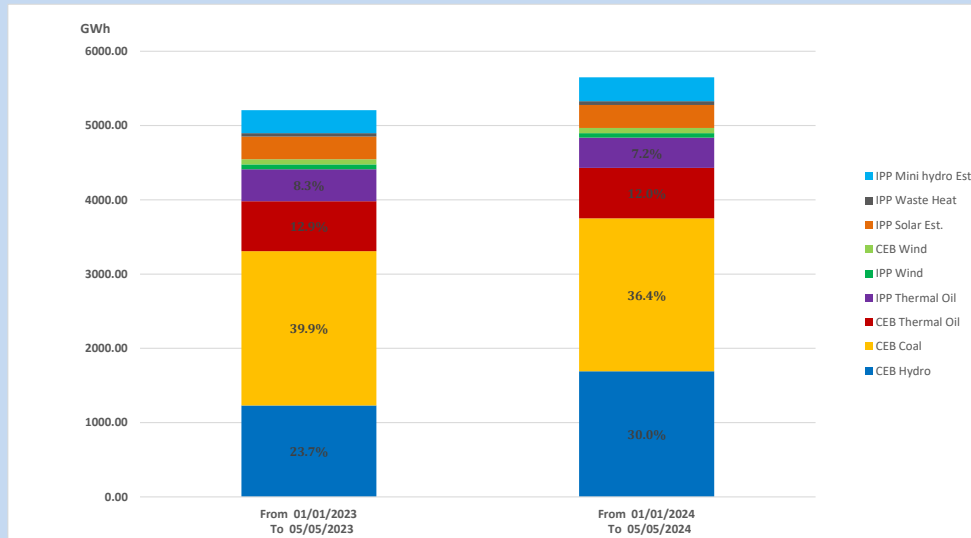
Solar Generation during

May 5, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

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

5207 GWh

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

5648 GWh

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

Unservd 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

Major Incidents reported during the day

May 5, 2024

1) Pannipitiya 220/132kV T/F 02 tripped from both ends at 13:10hrs causing Pannipitiya 132kV B/B 02 to be dead. Subsequently, Ambalangoda GSS, Galle GSS, Horana GSS, Kalutara GSS, Kesbewa GSS, Mathugama GSS and Panadura GSS were dead due to incoming supply failure. Pannipitiya 220/132kV T/F 02 was normalized at 13:23hrs and all GSS affected feeders were normalized by 13:41hrs.