

Generation and Reservoirs Statistics

May 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

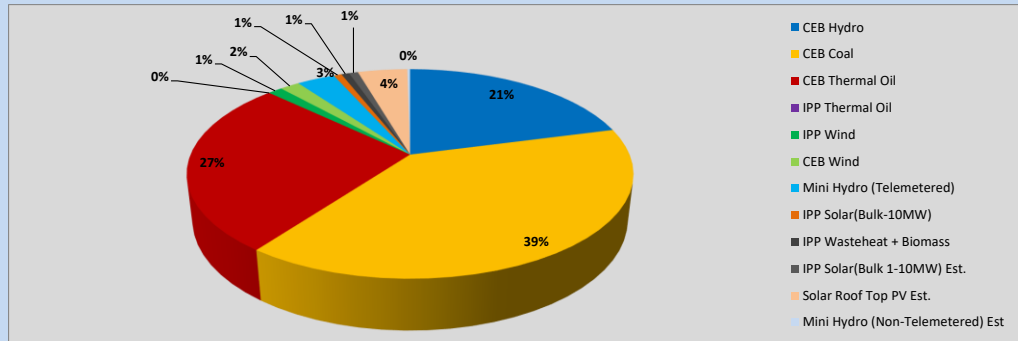


Table 01

	Generation (MWh)
CEB Hydro	10,375
CEB Coal	19,486
CEB Thermal Oil	13,365
IPP Thermal Oil	-
IPP Wind	619
CEB Wind	848
Mini Hydro (Telemetered)	1,630
IPP Solar (Bulk)	345
IPP Waste heat + Biomass	337
Total Generation (Excluding estimated figures)	47,005
* 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)	49,640

* 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	44	23.01%
CEB Coal	77	40.28%
CEB Thermal Oil	43	22.68%
IPP Thermal	0	0.00%
SPP Wind	3	1.39%
CEB Wind	4	2.17%
Mini Hydro *	8	4.06%
IPP Solar *	11	5.86%
IPP Waste heat + BMP	1	0.55%
Total	192	

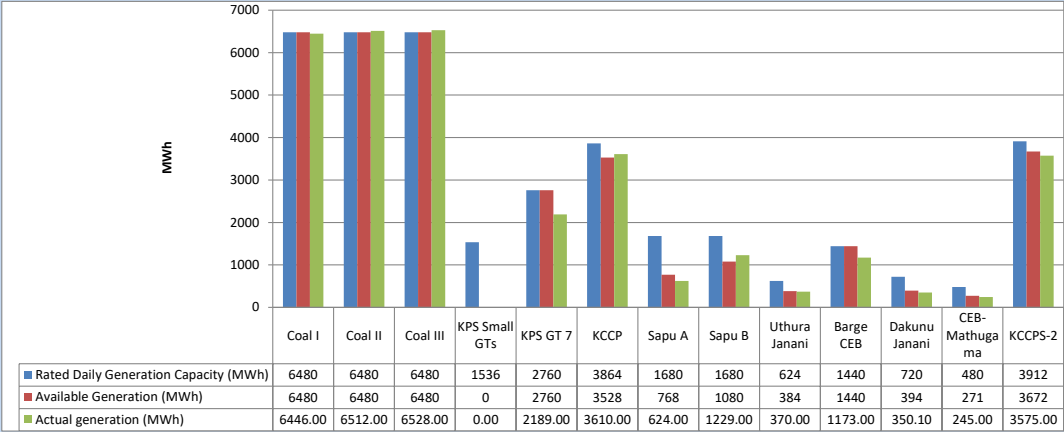
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,685	30.08%
CEB Coal	2,038	36.37%
CEB Thermal Oil	669	11.94%
IPP Thermal	408	7.28%
SPP Wind	60	1.07%
CEB Wind	67	1.20%
Mini Hydro *	319	5.68%
IPP Solar *	307	5.48%
IPP Waste heat	50	0.89%
Total	5,603	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

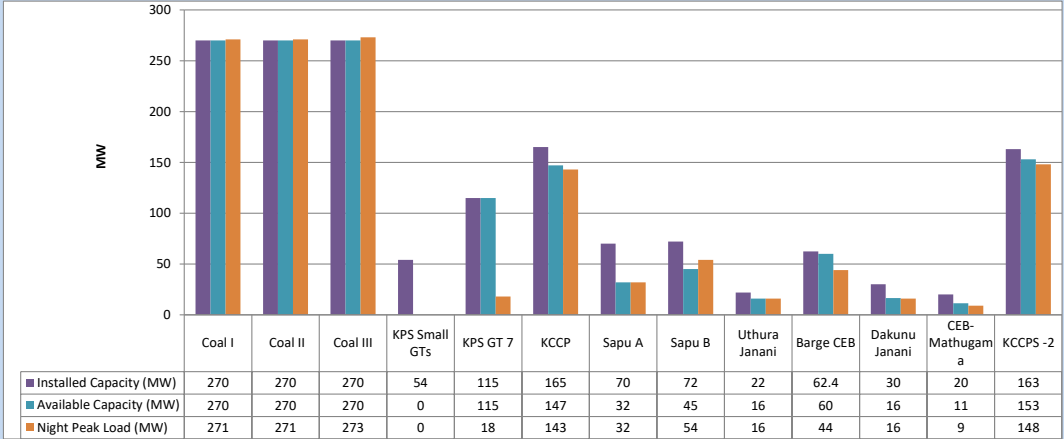
May 4, 2024



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

May 5, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

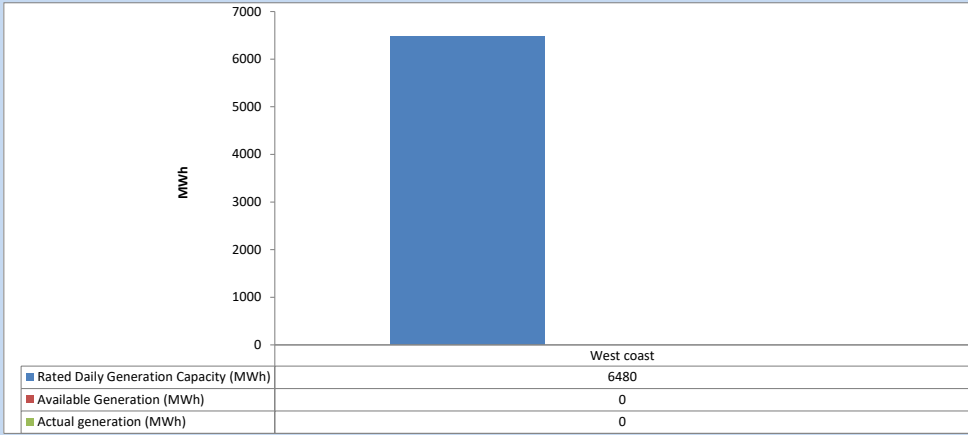


Plant availability is recorded at 6.00 am on

May 5, 2024

5. IPP owned Thermal Plant Dispatch

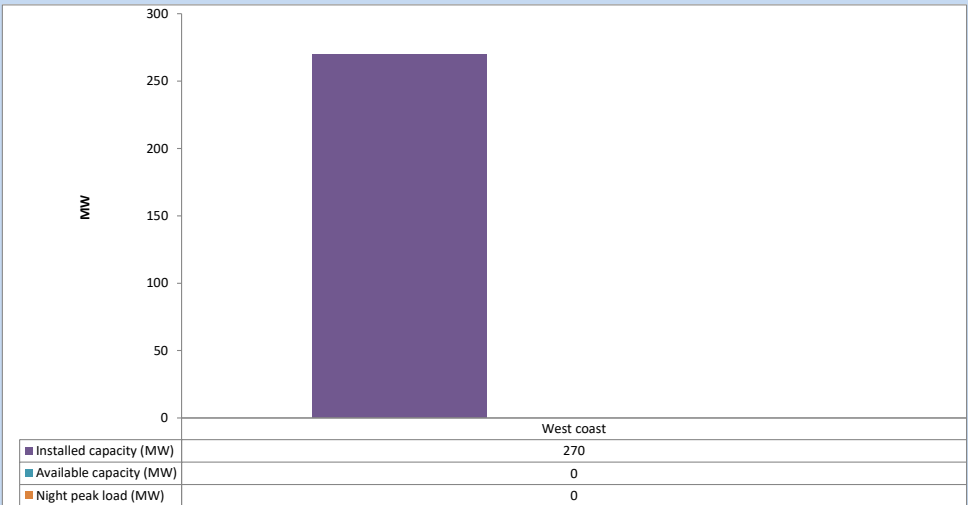
May 4, 2024



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

May 5, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

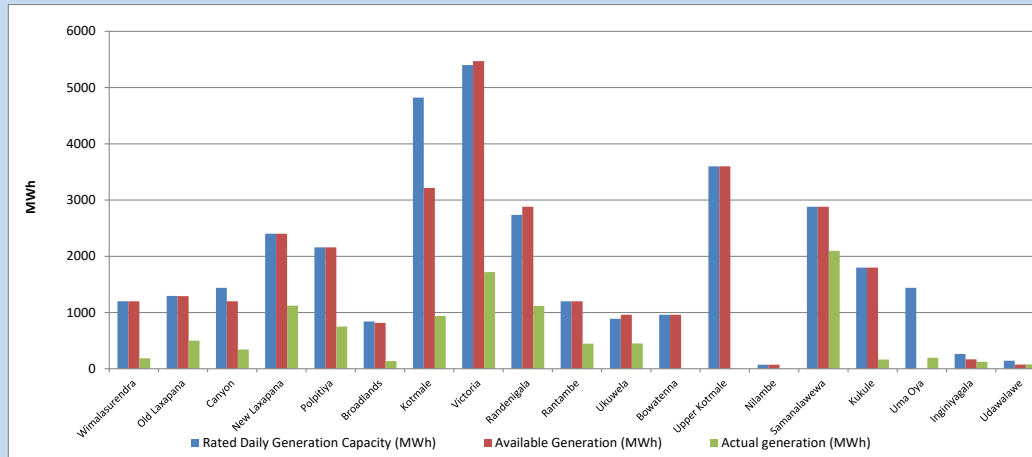


Plant availability is recorded at 6.00 am on

May 5, 2024

7. Major Hydro Plant Dispatch

May 4, 2024

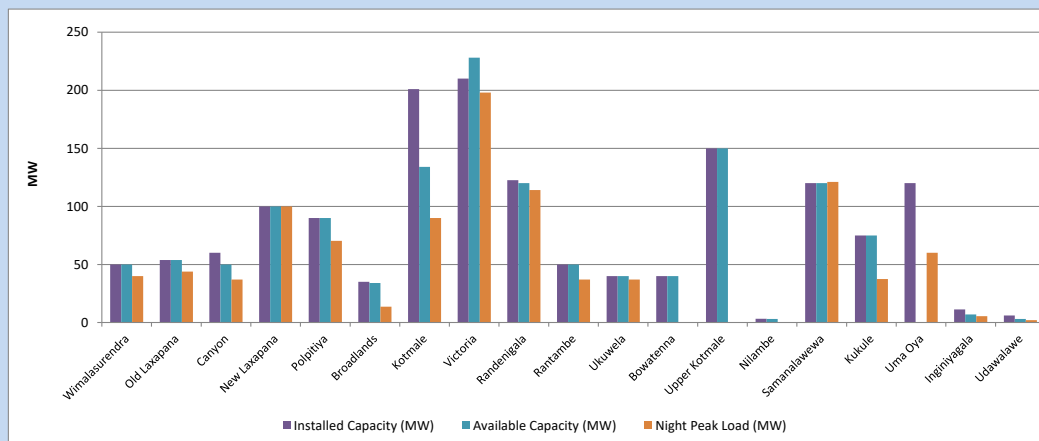


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 5, 2024

8. Major Hydro Plant Loading at Night Peak

May 4, 2024



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

May 5, 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	40	185
Old Laxapana	54	54	44	500
Canyon	60	50	37	343
New Laxapana	100	100	100	1,124
Polpitiya	90	90	70	750
Broadlands	35	34	14	137
Kotmale	201	134	90	940
Victoria	210	228	198	1,719
Randenigala	123	120	114	1,118
Rantambe	50	50	37	448
Ukuwela	40	40	37	451
Bowatenna	40	40	0	0
Upper Kotmale	150	150	0	5
Nilambe	3	3	0	0
Samanalawewa	120	120	121	2,096
Kukule	75	75	38	165
Uma Oya (Testing)	120	0	60	194
Inginiyagala	11	7	5	125
Udawalawe	6	3	2	77
Puttalam Coal I	270	270	271	6,446
Puttalam Coal II	270	270	271	6,512
Puttalam Coal III	270	270	273	6,528
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	18	2,189
KCCP	165	147	143	3,610
Sapugaskanda A	70	32	32	624
Sapugaskanda B	72	45	54	1,229
Uthura Janani	22	16	16	370
Barge CEB	62	60	44	1,173
CEB-Hambantota	30	16	16	350
CEB-Mathugama	20	11	9	245
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	148	3,575
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,754	2,442	47,007

Note-

Plant availability is the availability recorded at 6 am on

May 5, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 4, 2024

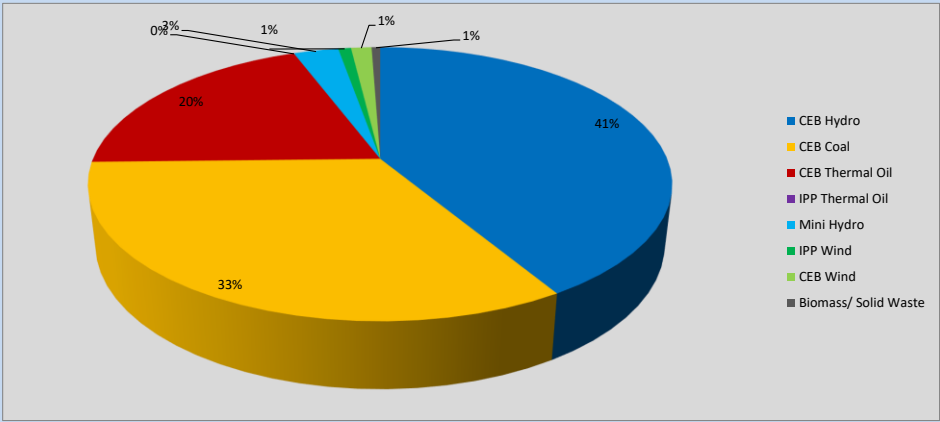


Table 06

CEB Hydro	1012	MW
CEB Coal	815	MW
CEB Thermal Oil	480	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	73	MW
IPP Wind	20.7	MW
CEB Wind	33.3	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

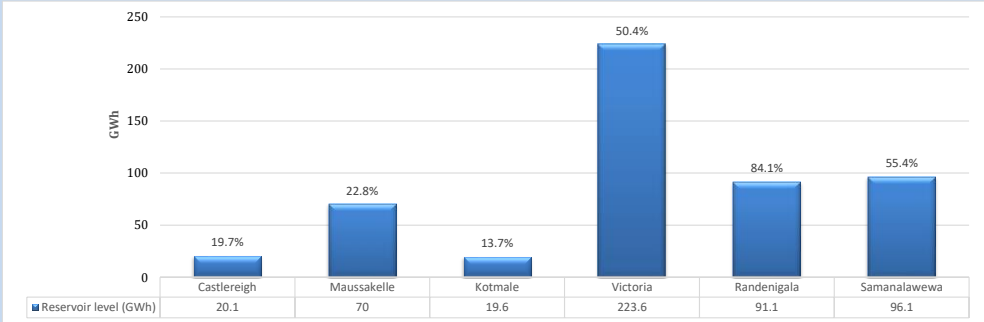
Table 07

Night Peak*	2,448	MW
Day Peak Maximum Demand	2,140	MW
Day Peak Minimum Demand	1,817	MW
Off Peak Minimum Demand	1,660	MW

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

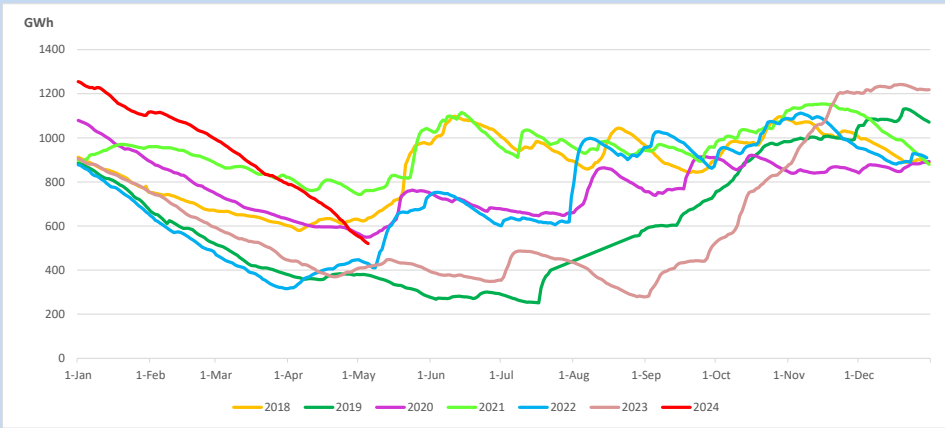
Reservoir Levels -

as at 06.00 Hr on May 5, 2024

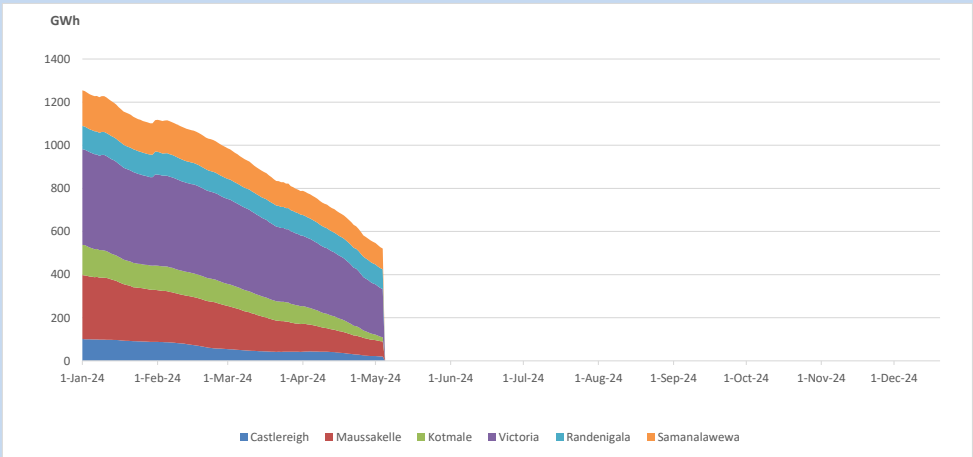


Total Reservoir Level 520.5 GWh
% of Total capacity 40.7%

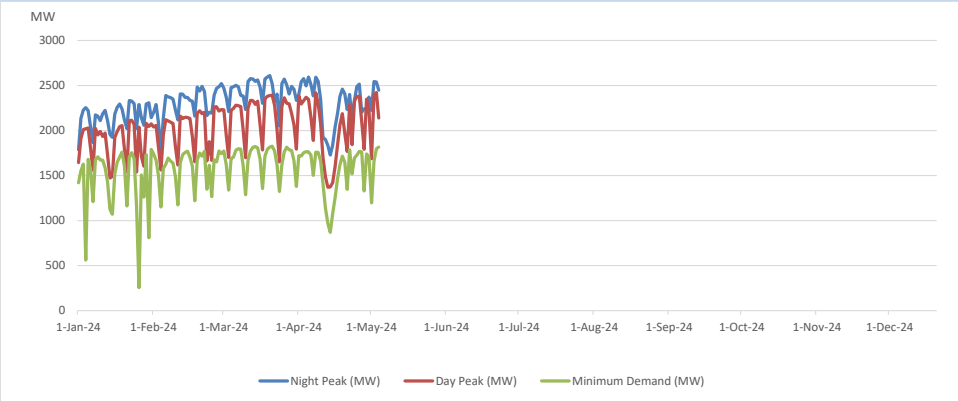
11. Comparison of Total Reservoir Storage Levels with Past Years



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



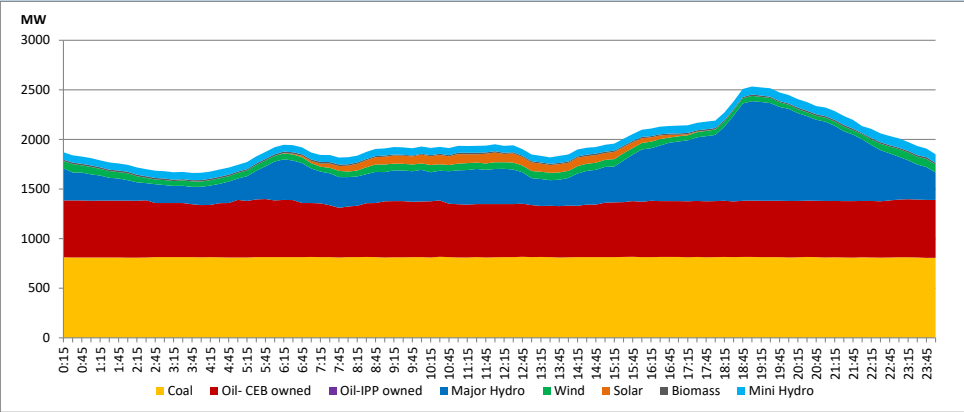
13. Variation of Demand during the current year



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

14. Daily Load Curve

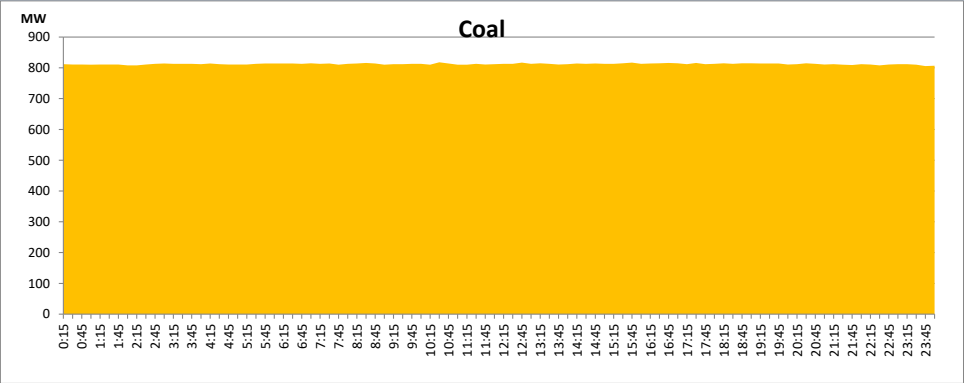
May 4, 2024



Solar and wind data is based on Telemetered Power Stations only

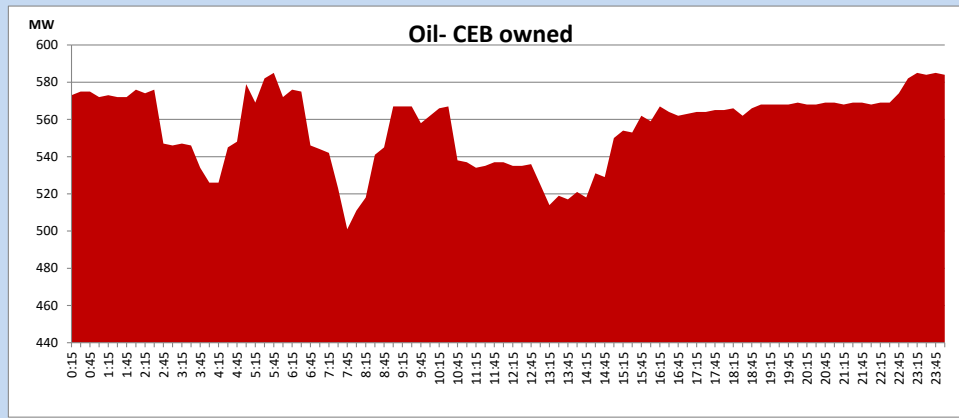
Coal Generation during

May 4, 2024



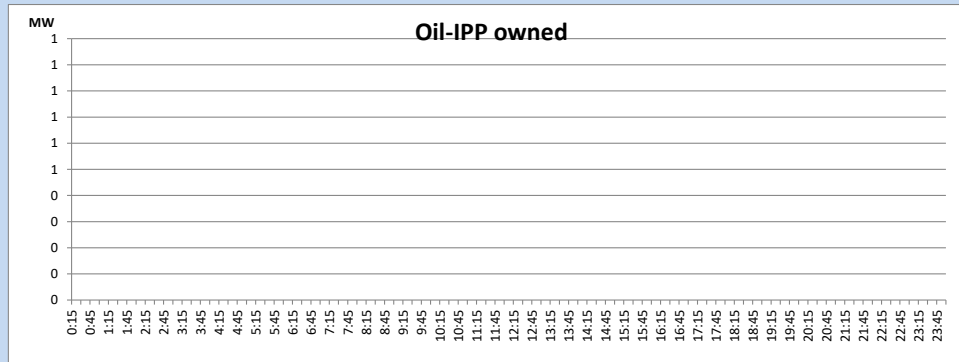
CEB Oil Plant Generation during

May 4, 2024



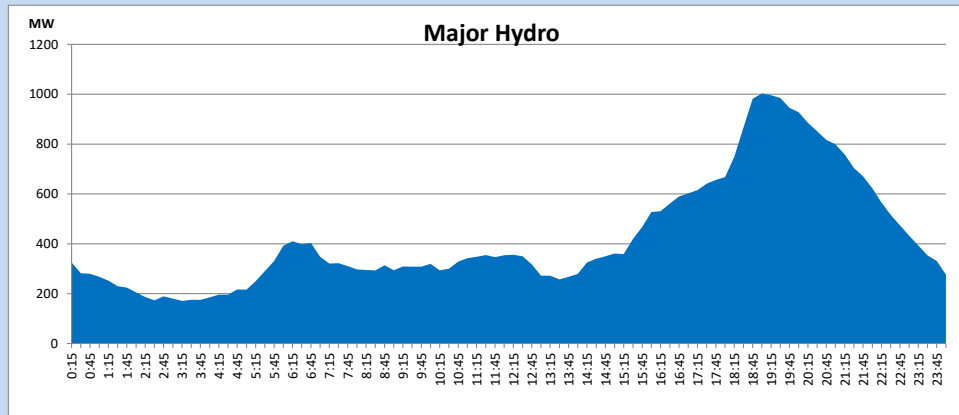
IPP Oil Plant Generation during

May 4, 2024



Major Hydro Generation during

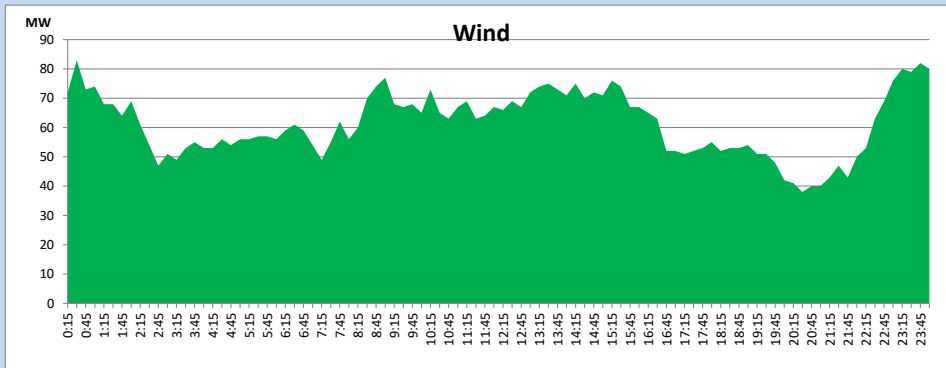
May 4, 2024



Wind Generation during

May 4, 2024

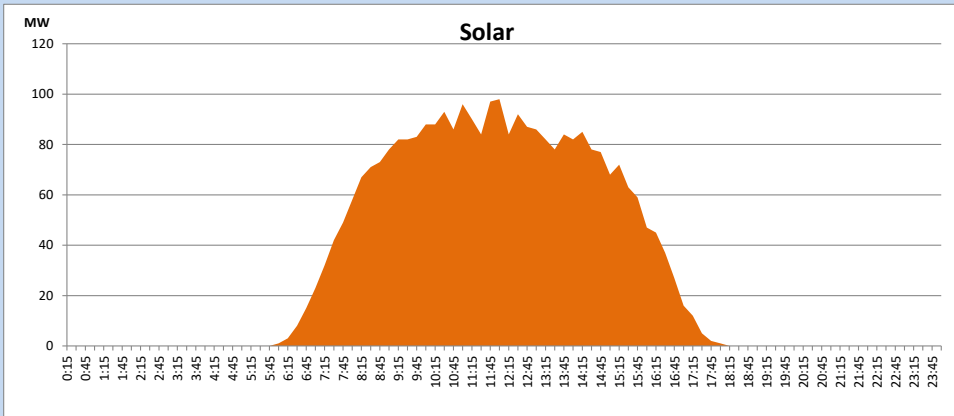
Based on Telemetered Power Stations only



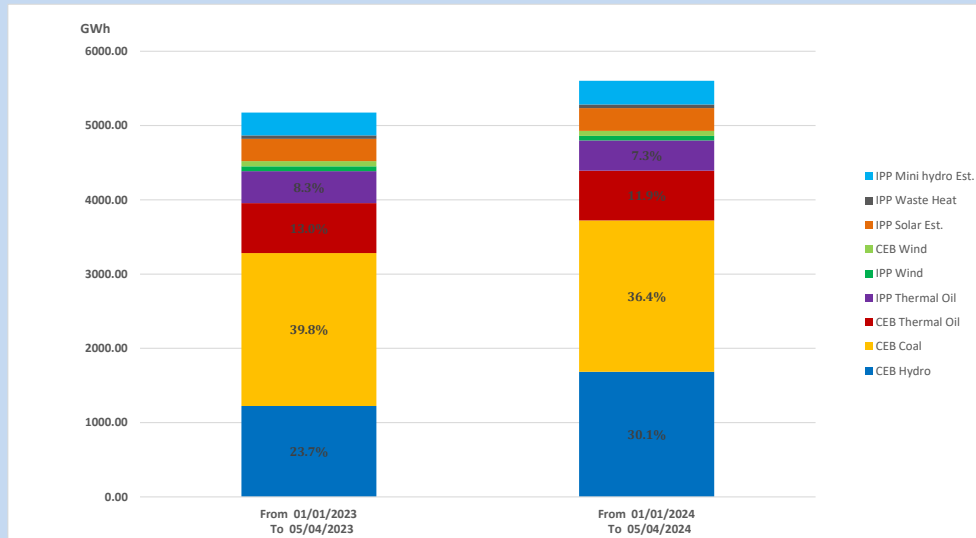
Solar Generation during

May 4, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/04/2023

5174 GWh

From 01/01/2024 To 05/04/2024

5603 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 4, 2024