

Generation and Reservoirs Statistics

May 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

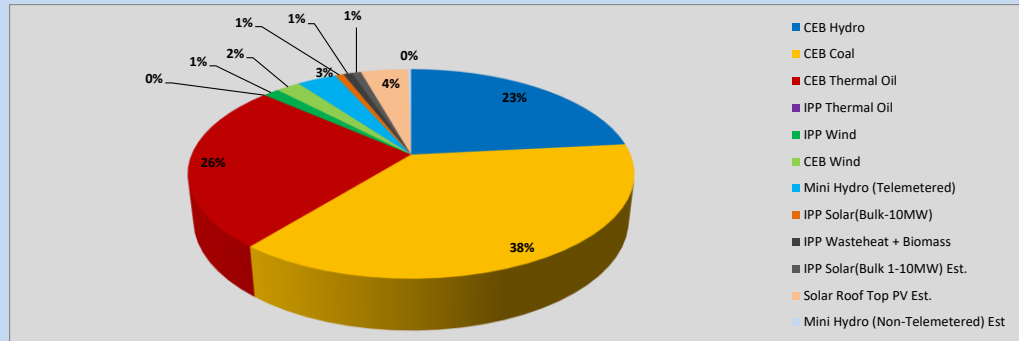


Table 01

	Generation (MWh)
CEB Hydro	12,098
CEB Coal	19,409
CEB Thermal Oil	13,308
IPP Thermal Oil	-
IPP Wind	720
CEB Wind	1,077
Mini Hydro (Telemetered)	1,771
IPP Solar (Bulk)	380
IPP Waste heat + Biomass	398
Total Generation (Excluding estimated figures)	49,161
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	128
* Estimated IPP Solar PV (Bulk 1-10MW)	403
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	51,822

* 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	76	22.32%
CEB Coal	136	39.89%
CEB Thermal Oil	79	23.32%
IPP Thermal	0	0.00%
SPP Wind	5	1.60%
CEB Wind	8	2.49%
Mini Hydro *	13	3.88%
IPP Solar *	20	5.86%
IPP Waste heat + BMP	2	0.63%
Total	340	

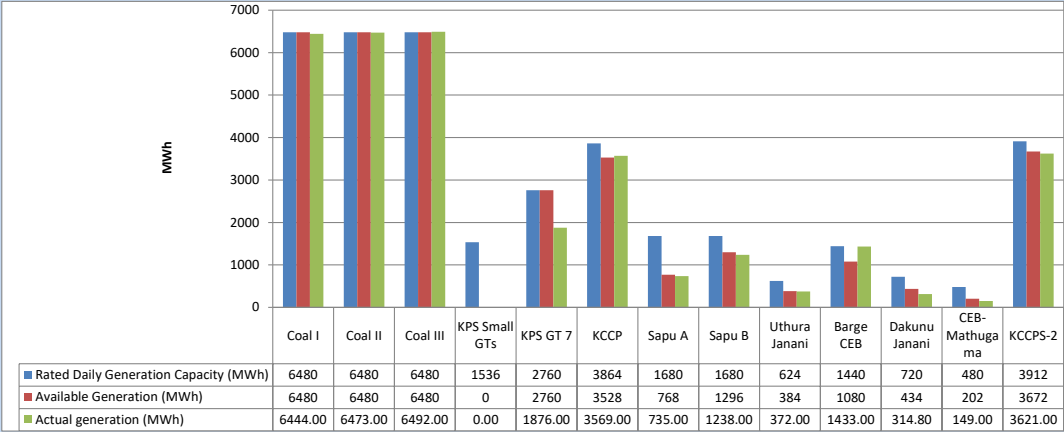
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,717	29.86%
CEB Coal	2,096	36.45%
CEB Thermal Oil	705	12.25%
IPP Thermal	408	7.09%
SPP Wind	63	1.09%
CEB Wind	72	1.25%
Mini Hydro *	324	5.63%
IPP Solar *	316	5.49%
IPP Waste heat	51	0.89%
Total	5,751	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

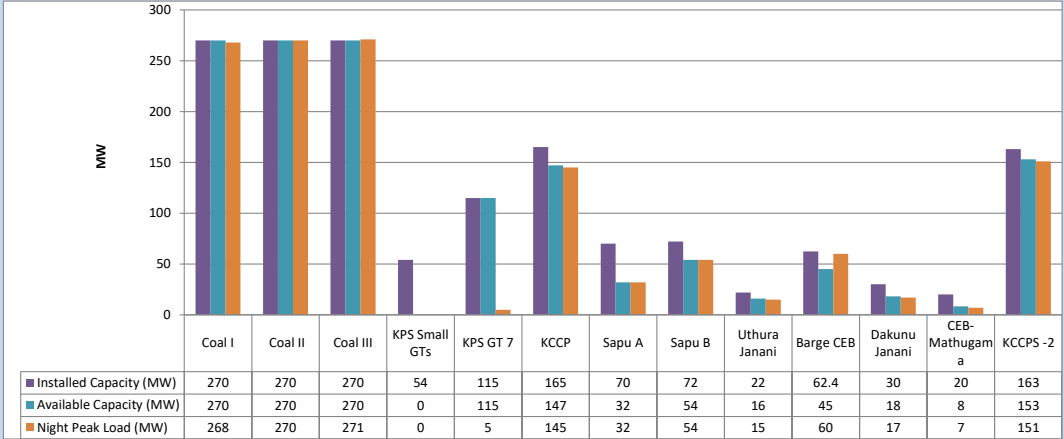
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Available Generation is estimated based on plant availability at 6.00am on

May 8, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

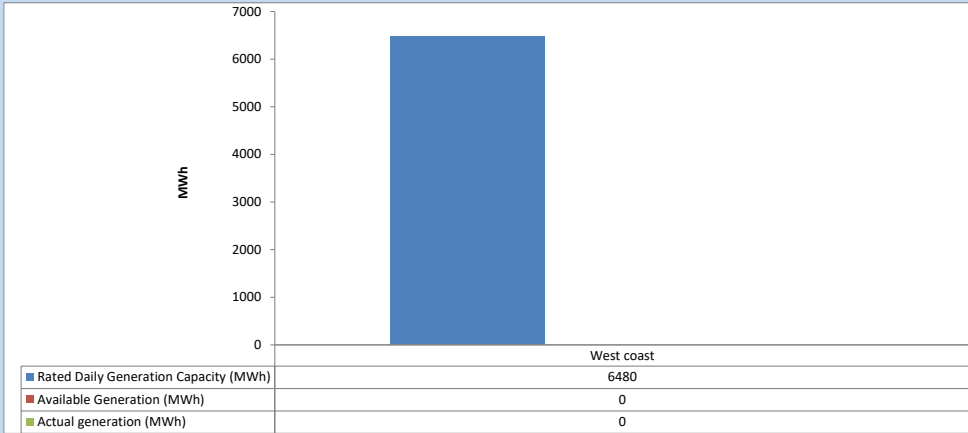


Plant availability is recorded at 6.00 am on

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5. IPP owned Thermal Plant Dispatch

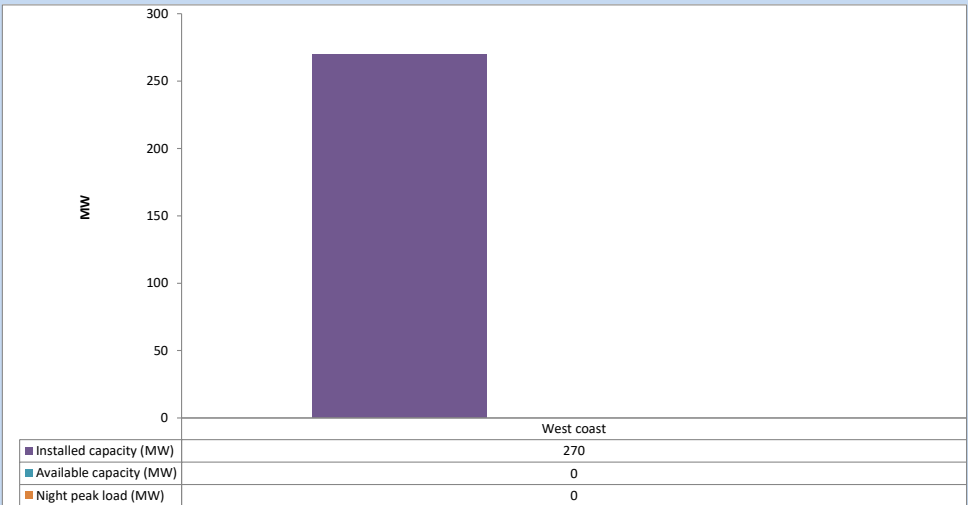
May 7, 2024



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

May 8, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

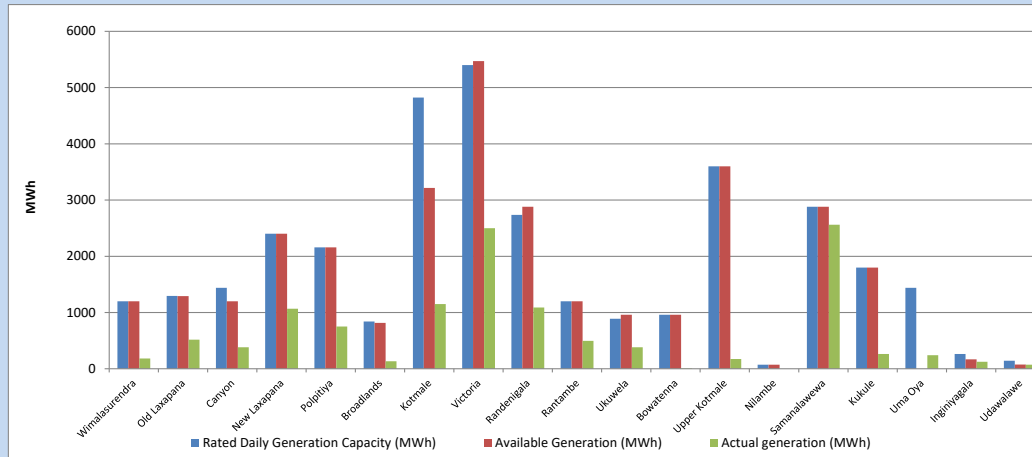


Plant availability is recorded at 6.00 am on

May 8, 2024

7. Major Hydro Plant Dispatch

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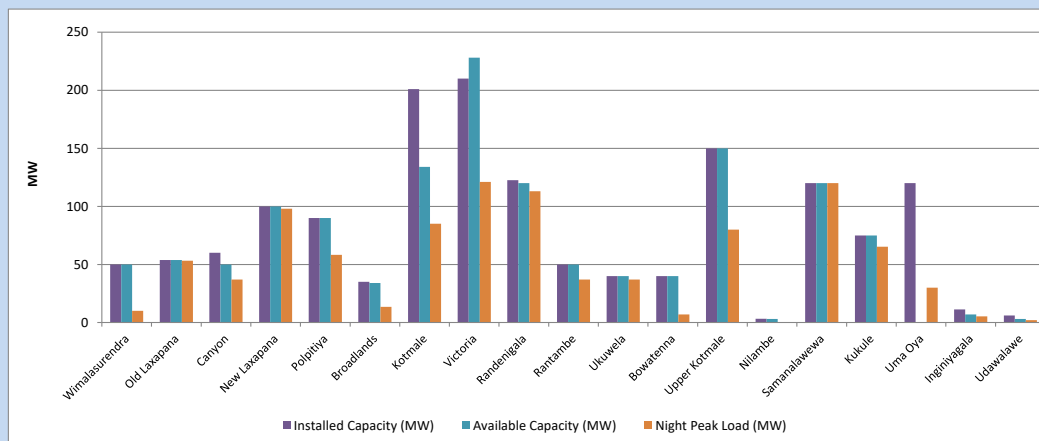


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 8, 2024

8. Major Hydro Plant Loading at Night Peak

May 7, 2024



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

May 8, 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	10	184
Old Laxapana	54	54	53	519
Canyon	60	50	37	383
New Laxapana	100	100	98	1,069
Polpitiya	90	90	58	750
Broadlands	35	34	14	134
Kotmale	201	134	85	1,150
Victoria	210	228	121	2,499
Randenigala	123	120	113	1,090
Rantambe	50	50	37	496
Ukuwela	40	40	37	383
Bowatenna	40	40	7	8
Upper Kotmale	150	150	80	173
Nilambe	3	3	0	0
Samanalawewa	120	120	120	2,561
Kukule	75	75	65	262
Uma Oya (Testing)	120	0	30	242
Inginiyagala	11	7	5	124
Udawalawe	6	3	2	72
Puttalam Coal I	270	270	268	6,444
Puttalam Coal II	270	270	270	6,473
Puttalam Coal III	270	270	271	6,492
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	5	1,876
KCCP	165	147	145	3,569
Sapugaskanda A	70	32	32	735
Sapugaskanda B	72	54	54	1,238
Uthura Janani	22	16	15	372
Barge CEB	62	45	60	1,433
CEB-Hambantota	30	18	17	315
CEB-Mathugama	20	8	7	149
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	151	3,621
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,746	2,492	49,162

Note-

Plant availability is the availability recorded at 6 am on

May 8, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

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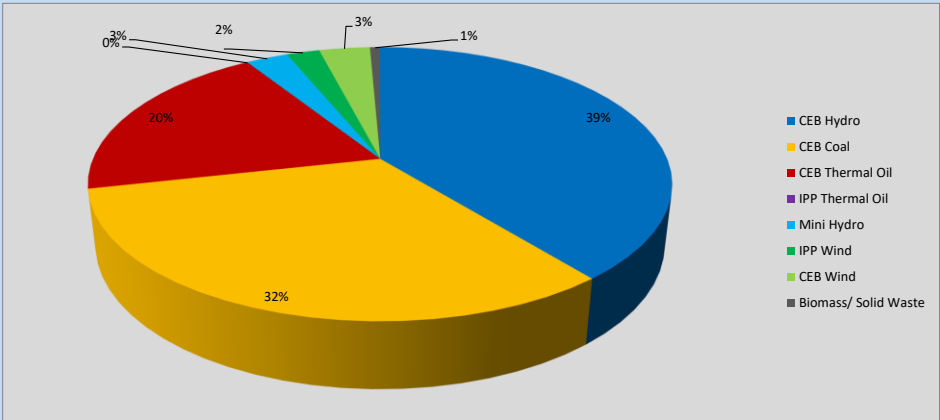


Table 06

CEB Hydro	977	MW
CEB Coal	809	MW
CEB Thermal Oil	486	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	69	MW
IPP Wind	54.5	MW
CEB Wind	83.9	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

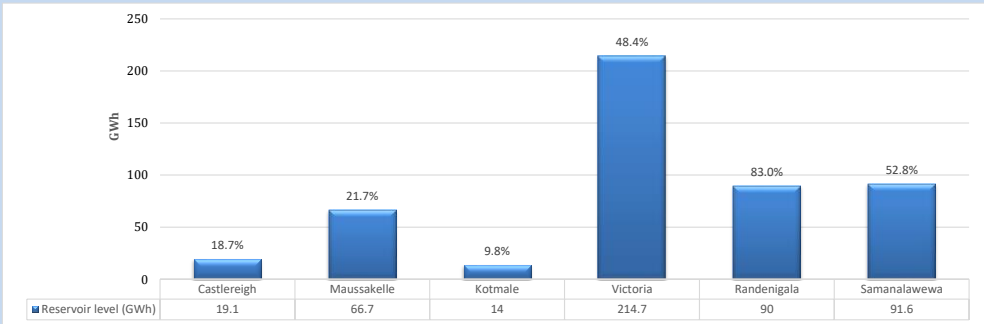
Table 07

Night Peak*	2,496	MW
Day Peak Maximum Demand	2,428	MW
Day Peak Minimum Demand	1,857	MW
Off Peak Minimum Demand	1,579	MW

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

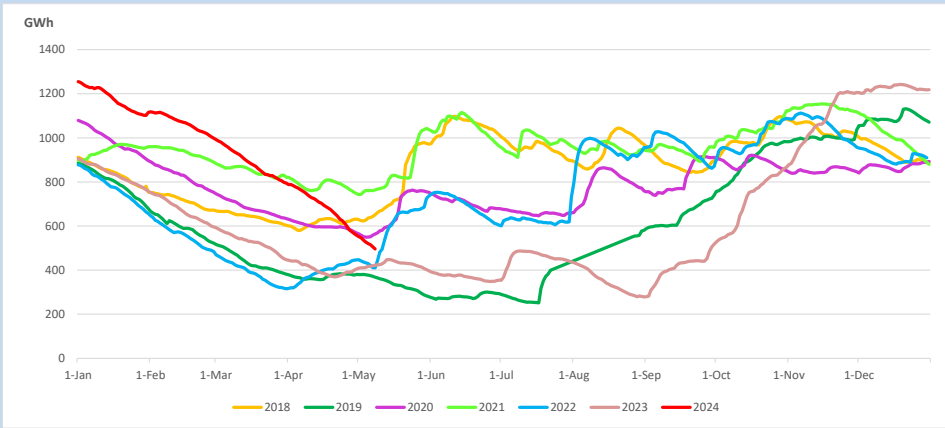
Reservoir Levels -

as at 06.00 Hr on May 8, 2024

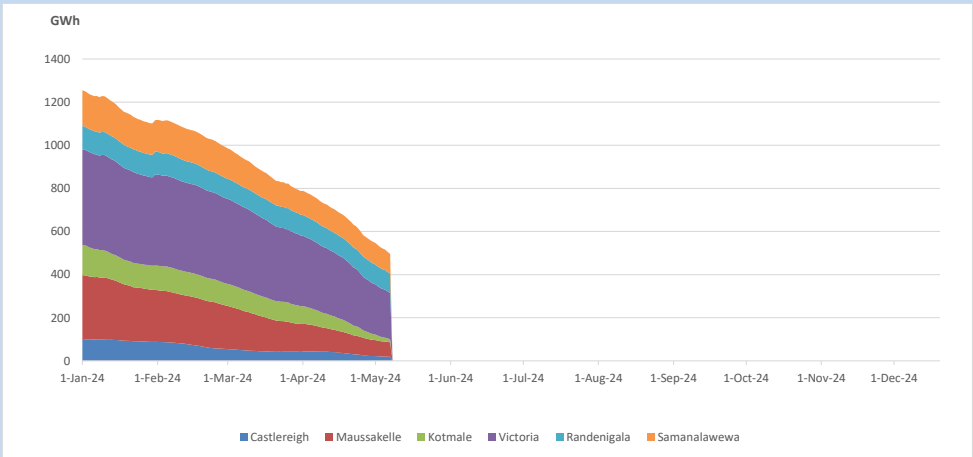


Total Reservoir Level 496.1 GWh
% of Total capacity 38.8%

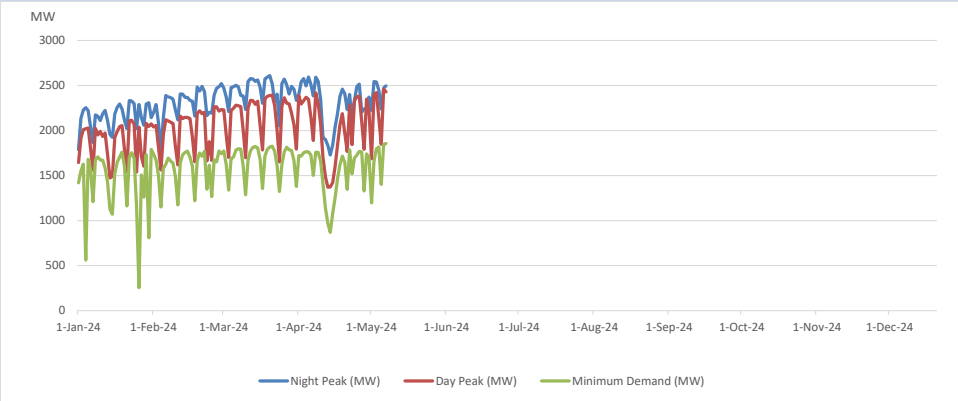
11. Comparison of Total Reservoir Storage Levels with Past Years



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



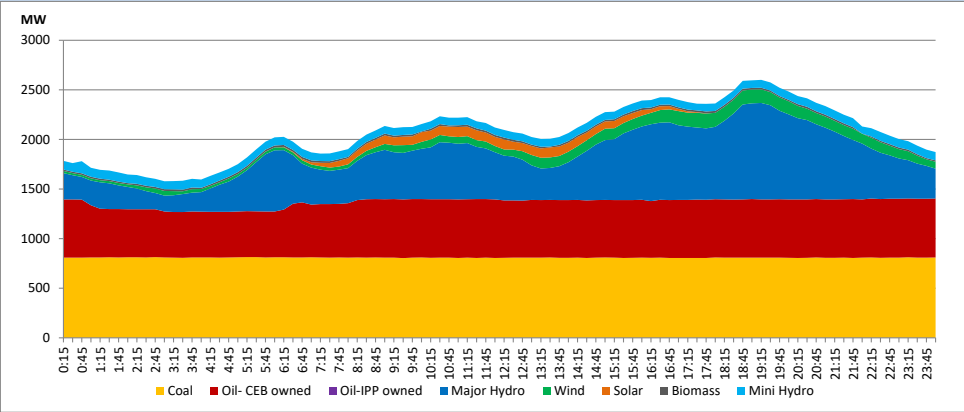
13. Variation of Demand during the current year



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

14. Daily Load Curve

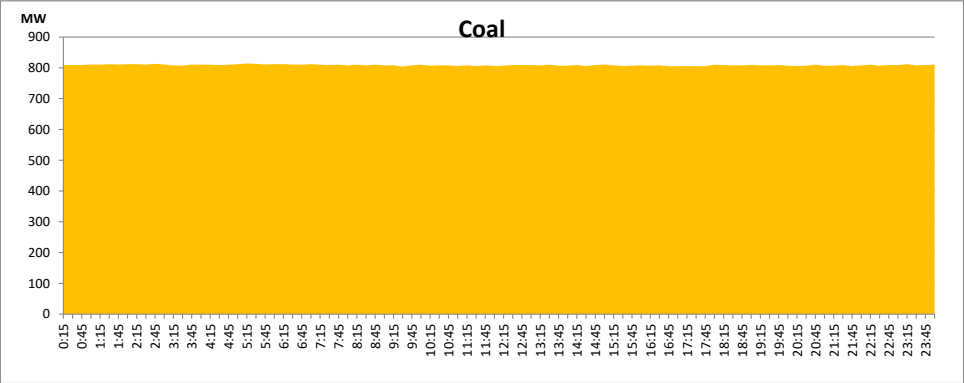
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Solar and wind data is based on Telemetered Power Stations only

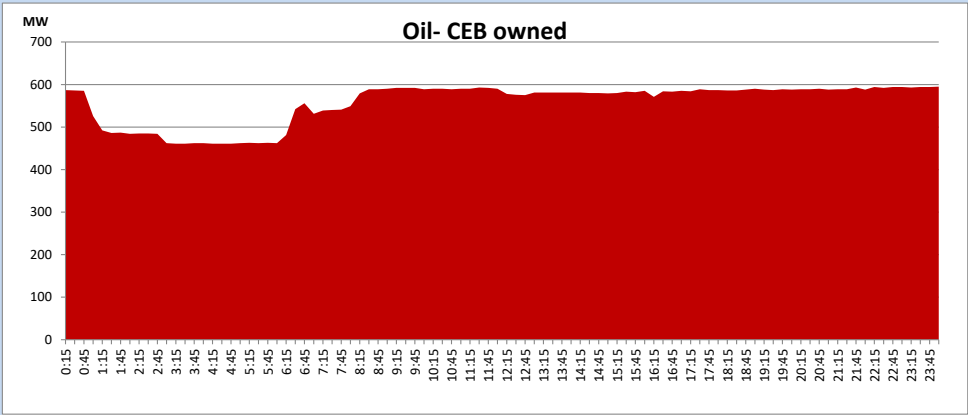
Coal Generation during

May 7, 2024



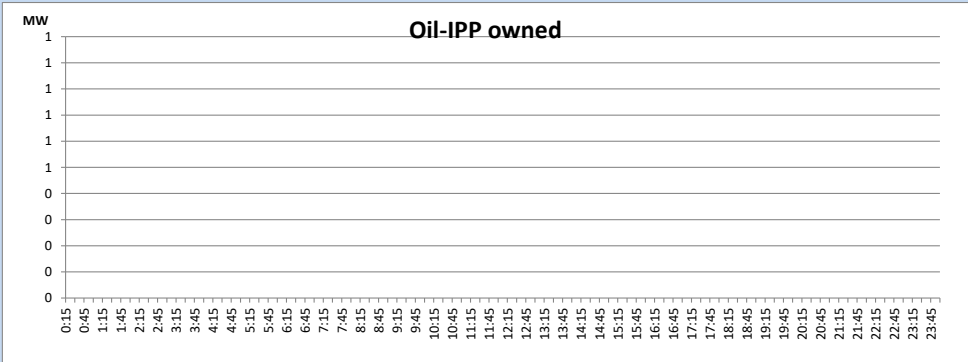
CEB Oil Plant Generation during

May 7, 2024



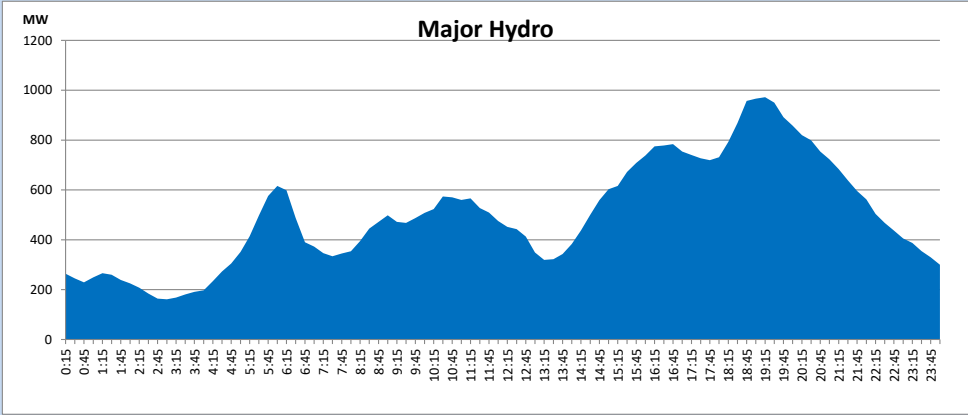
IPP Oil Plant Generation during

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Major Hydro Generation during

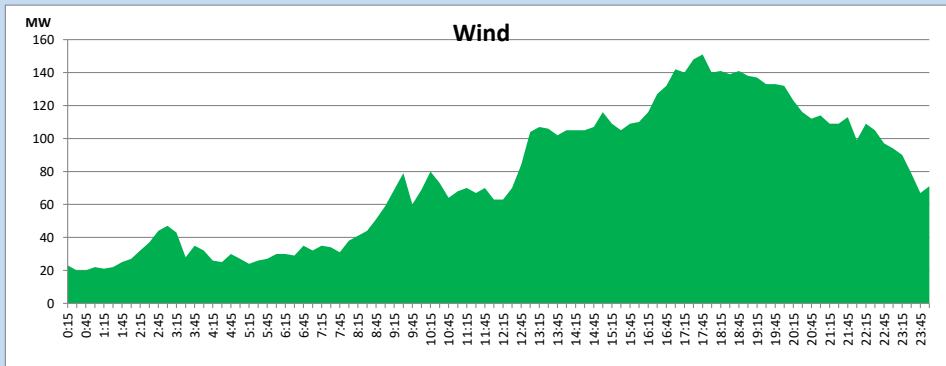
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Wind Generation during

May 7, 2024

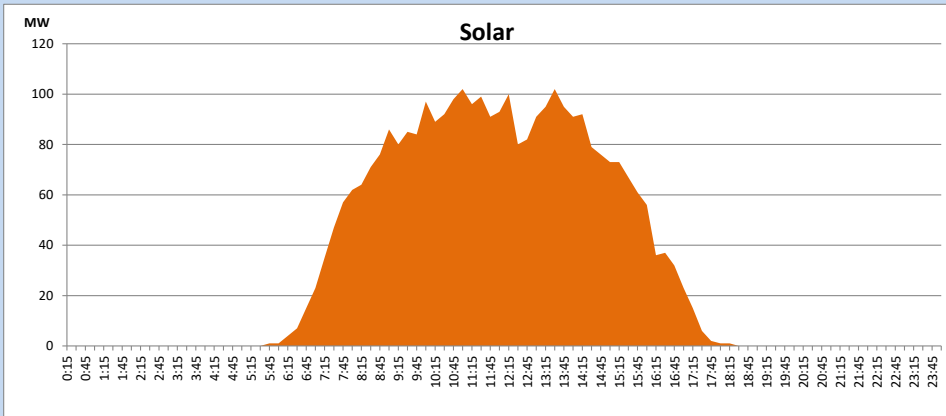
Based on Telemetered Power Stations only



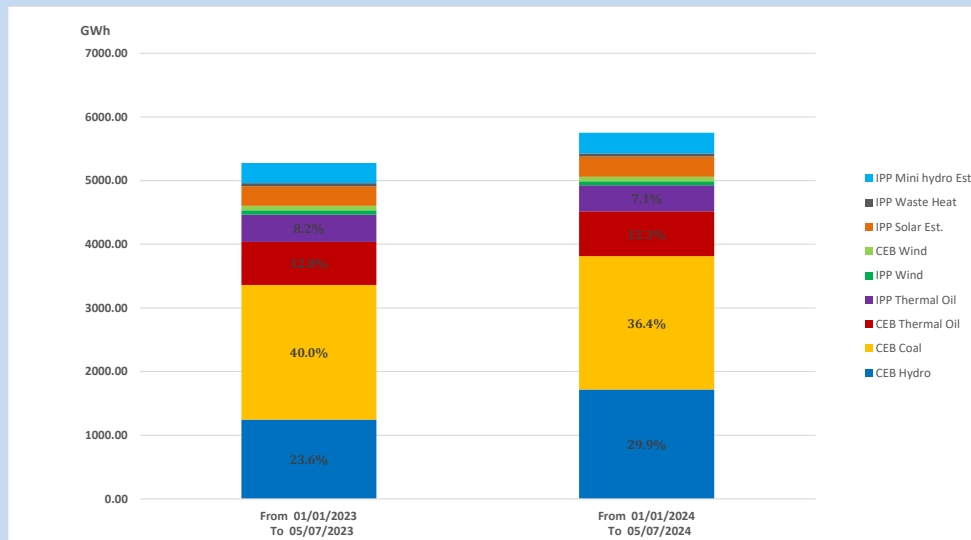
Solar Generation during

May 7, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/07/2023

5277 GWh

From 01/01/2024 To 05/07/2024

5751 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 7, 2024

1) Habarana 132/33kV T/F 01, which was tripped on 06.05.2024, was restored at 17:21hrs.