

Generation and Reservoirs Statistics

May 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

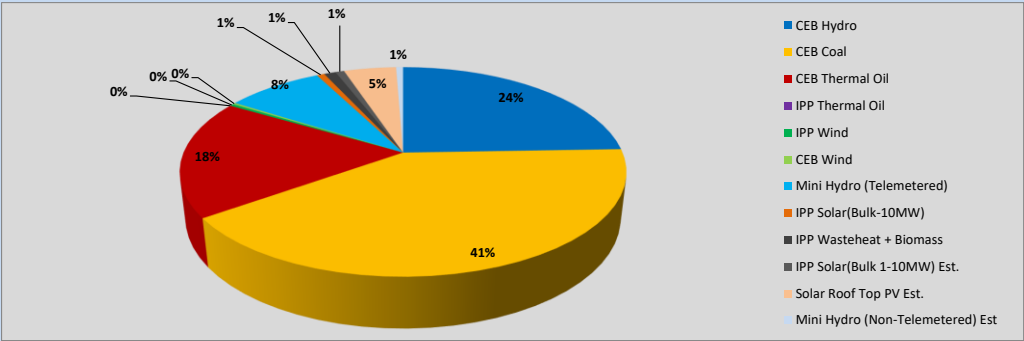


Table 01

	Generation (MWh)
CEB Hydro	11,507
CEB Coal	19,152
CEB Thermal Oil	8,611
IPP Thermal Oil	-
IPP Wind	164
CEB Wind	118
Mini Hydro (Telemetered)	3,941
IPP Solar (Bulk)	312
IPP Waste heat + Biomass	479
Total Generation (Excluding estimated figures)	44,284
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	285
* Estimated IPP Solar PV (Bulk 1-10MW)	355
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	47,054

* 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	152	22.60%
CEB Coal	271	40.46%
CEB Thermal Oil	154	22.90%
IPP Thermal	0	0.00%
SPP Wind	6	0.95%
CEB Wind	9	1.39%
Mini Hydro *	34	5.13%
IPP Solar *	39	5.84%
IPP Waste heat + BMP	5	0.72%
Total	670	

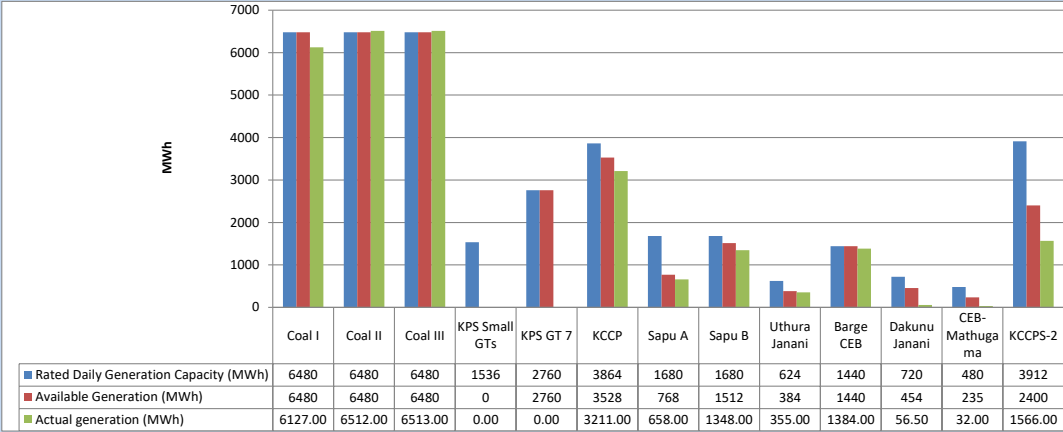
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,793	29.48%
CEB Coal	2,232	36.70%
CEB Thermal Oil	779	12.81%
IPP Thermal	408	6.70%
SPP Wind	64	1.05%
CEB Wind	73	1.19%
Mini Hydro *	345	5.67%
IPP Solar *	335	5.51%
IPP Waste heat	54	0.89%
Total	6,082	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

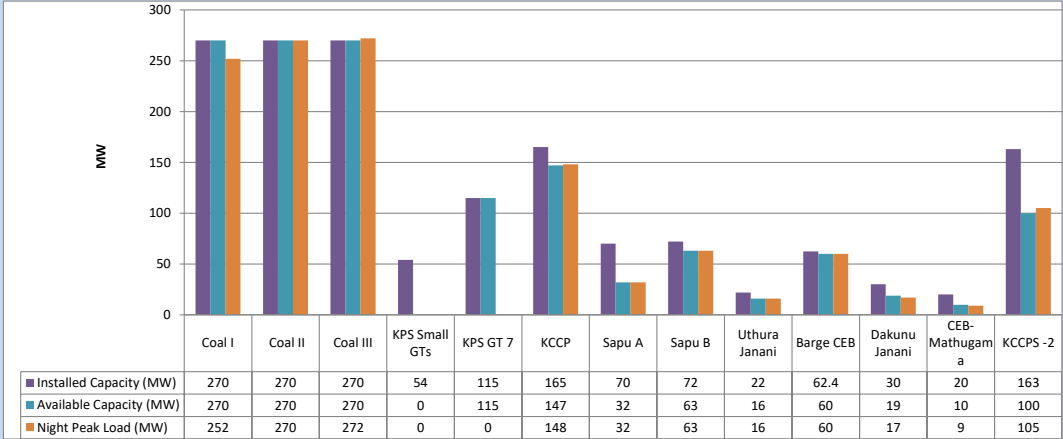
May 14, 2024



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

May 15, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

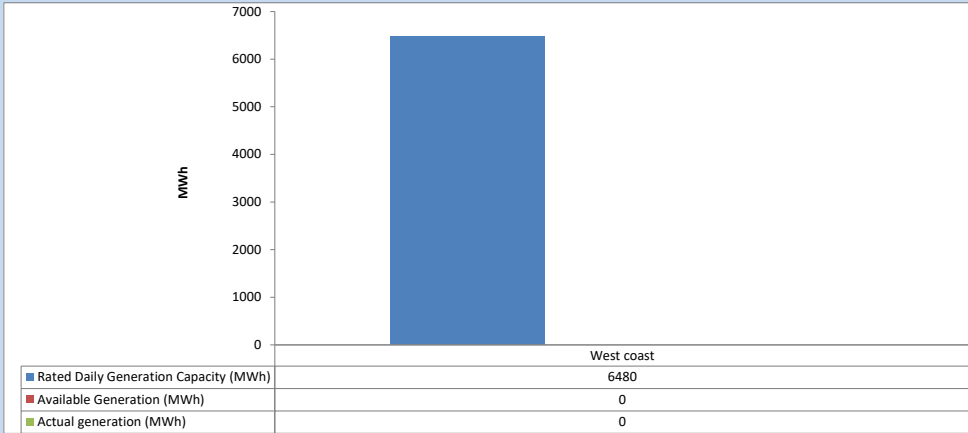


Plant availability is recorded at 6.00 am on

May 15, 2024

5. IPP owned Thermal Plant Dispatch

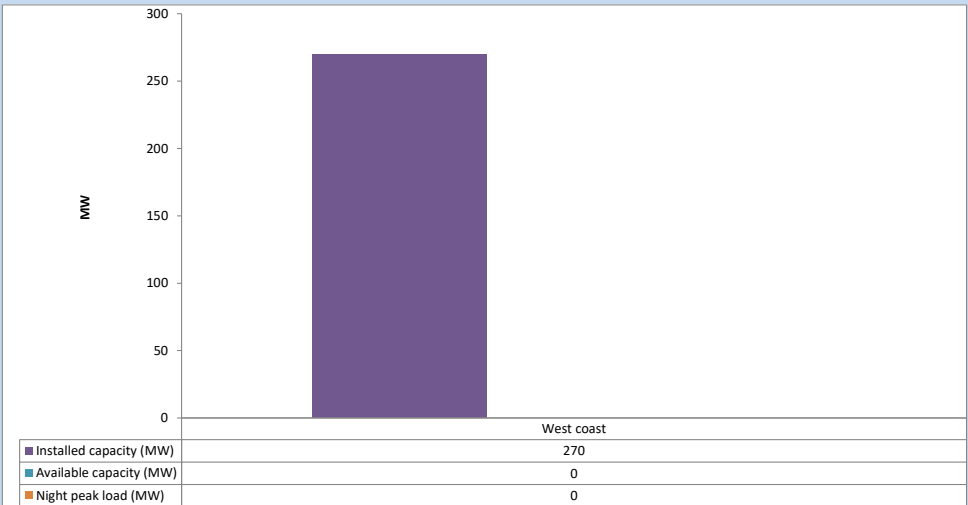
May 14, 2024



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

May 15, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

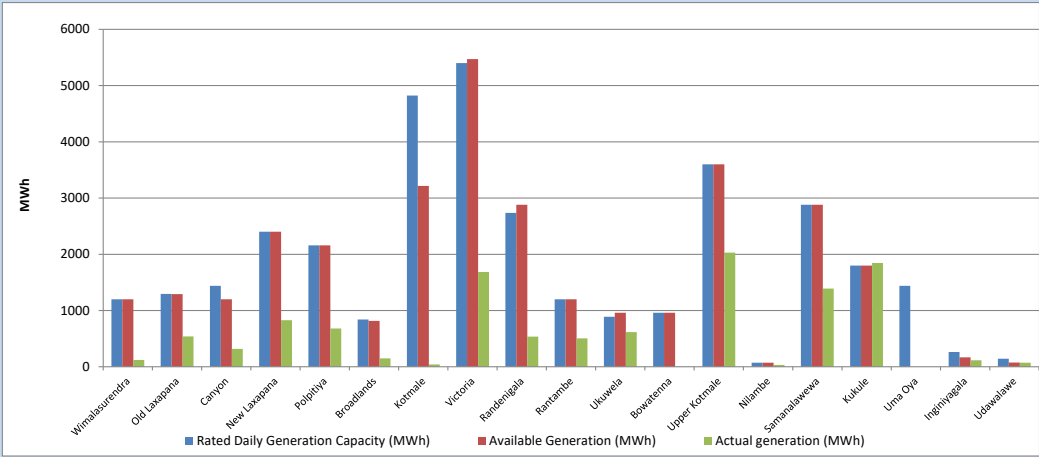


Plant availability is recorded at 6.00 am on

May 15, 2024

7. Major Hydro Plant Dispatch

May 14, 2024

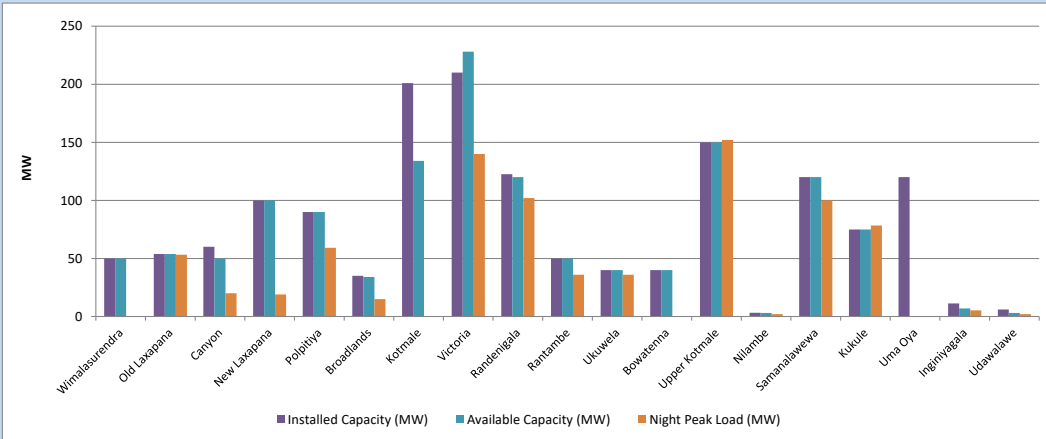


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 15, 2024

8. Major Hydro Plant Loading at Night Peak

May 14, 2024



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

May 15, 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	121
Old Laxapana	54	54	53	538
Canyon	60	50	20	318
New Laxapana	100	100	19	829
Polpitiya	90	90	59	680
Broadlands	35	34	15	149
Kotmale	201	134	0	40
Victoria	210	228	140	1,685
Randenigala	123	120	102	536
Rantambe	50	50	36	506
Ukuwela	40	40	36	617
Bowatenna	40	40	0	3
Upper Kotmale	150	150	152	2,028
Nilambe	3	3	2	31
Samanalawewa	120	120	100	1,391
Kukule	75	75	78	1,845
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	116
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	252	6,127
Puttalam Coal II	270	270	270	6,512
Puttalam Coal III	270	270	272	6,513
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	148	3,211
Sapugaskanda A	70	32	32	658
Sapugaskanda B	72	63	63	1,348
Uthura Janani	22	16	16	355
Barge CEB	62	60	60	1,384
CEB-Hambantota	30	19	17	57
CEB-Mathugama	20	10	9	32
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	100	105	1,566
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,720	2,275	44,283

Note-

Plant availability is the availability recorded at 6 am on

May 15, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 14, 2024

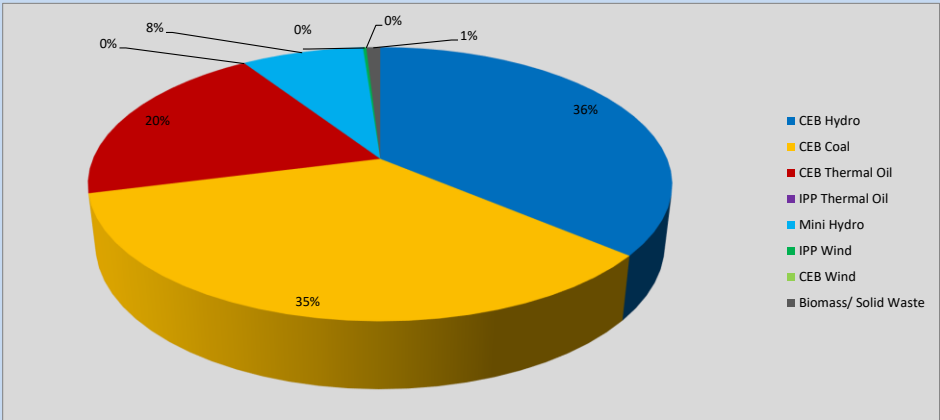


Table 06

CEB Hydro	824	MW
CEB Coal	794	MW
CEB Thermal Oil	450	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	185	MW
IPP Wind	5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	21	MW

Recorded Peak Demand Data

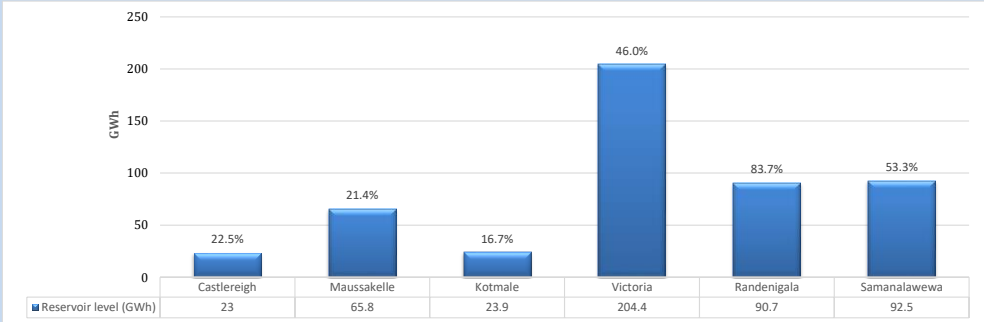
Table 07

Night Peak*	2,278	MW
Day Peak Maximum Demand	2,303	MW
Day Peak Minimum Demand	1,730	MW
Off Peak Minimum Demand	1,445	MW

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

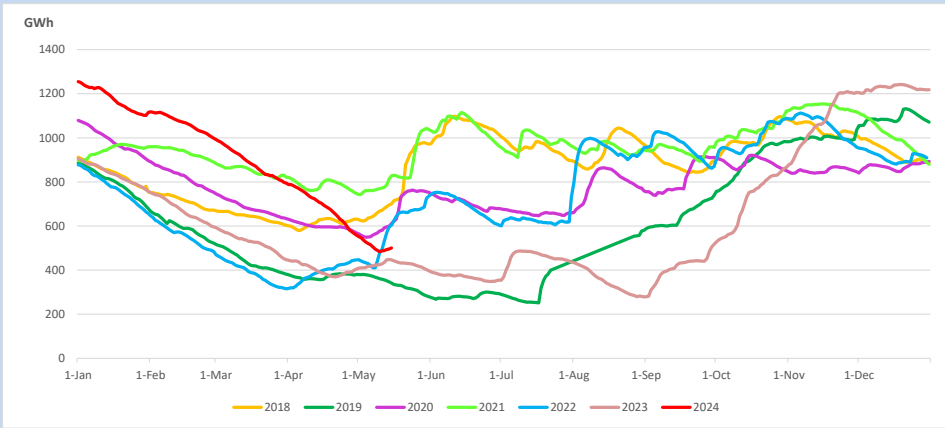
Reservoir Levels -

as at 06.00 Hr on May 15, 2024

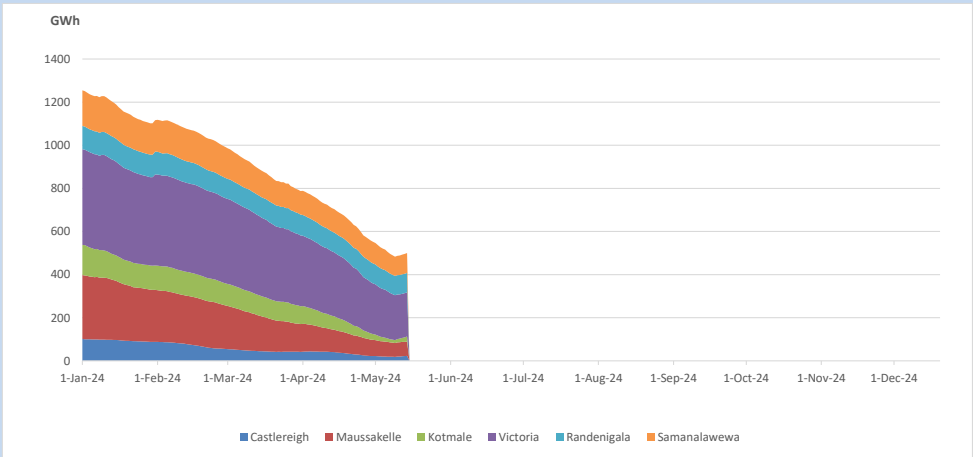


Total Reservoir Level 500.3 GWh
% of Total capacity 39.1%

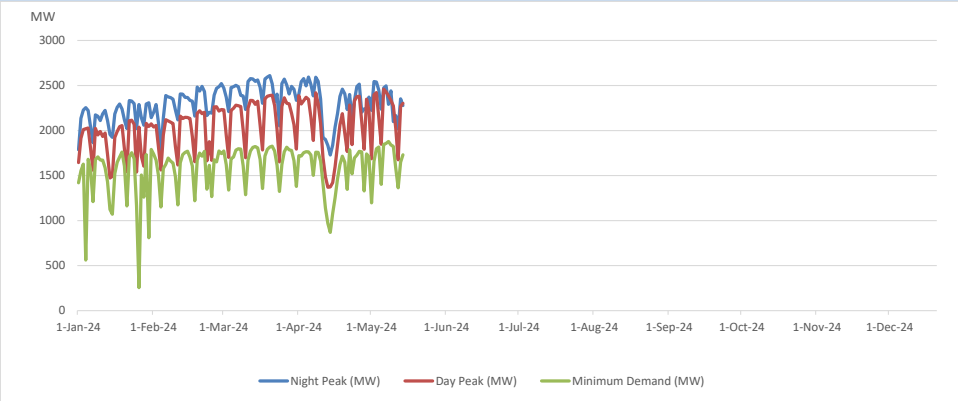
11. Comparison of Total Reservoir Storage Levels with Past Years



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

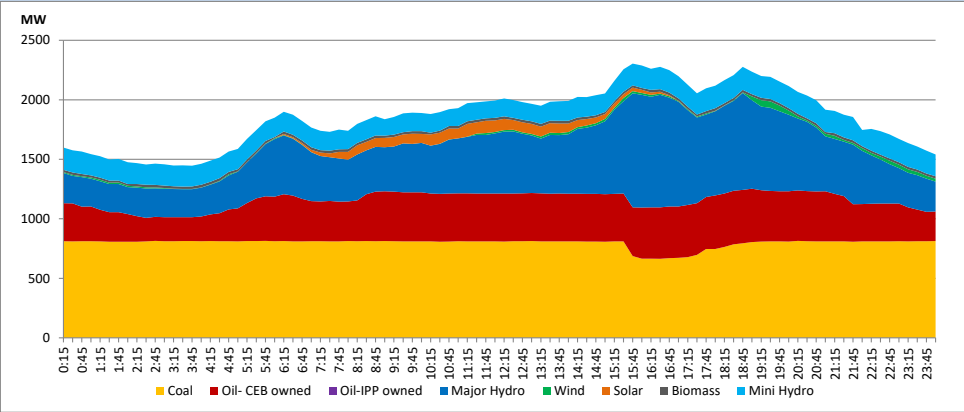


13. Variation of Demand during the current year



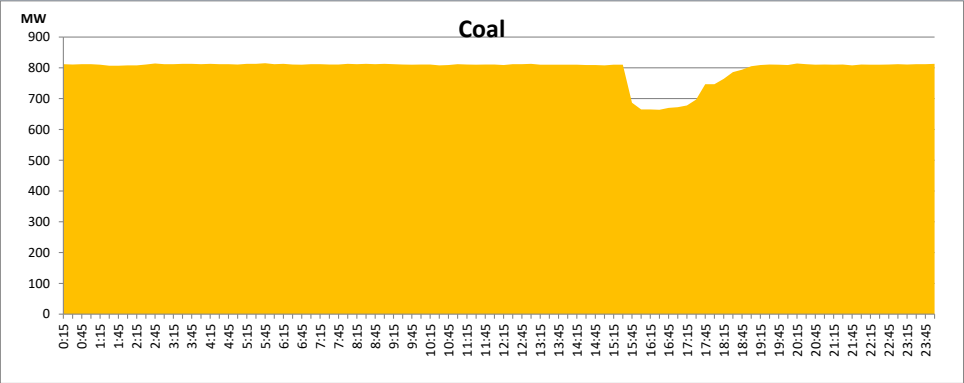
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 14, 2024



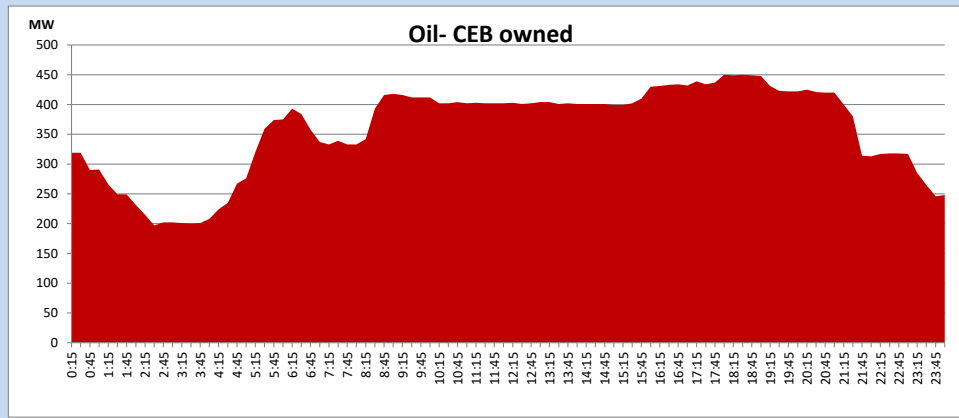
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during May 14, 2024



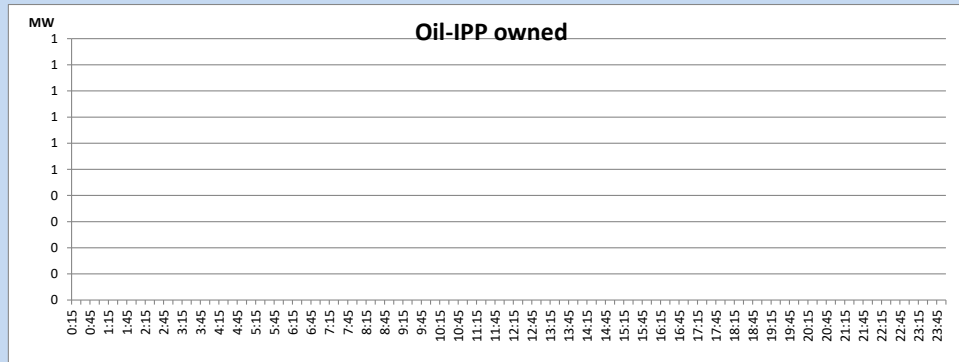
CEB Oil Plant Generation during

May 14, 2024



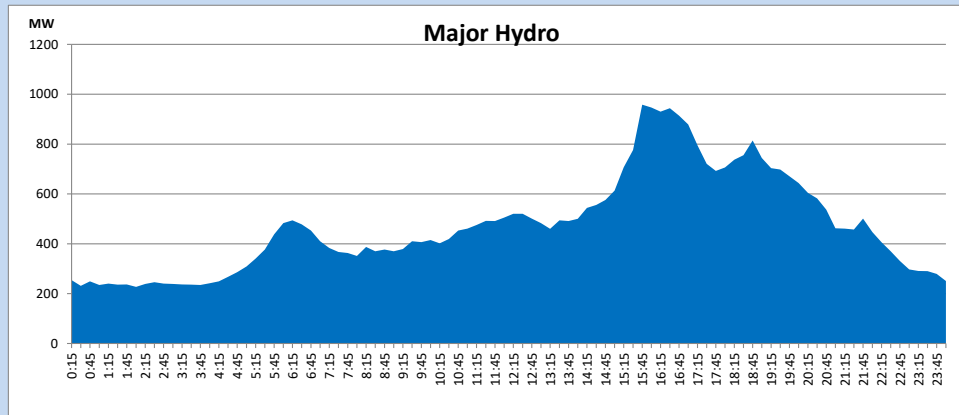
IPP Oil Plant Generation during

May 14, 2024



Major Hydro Generation during

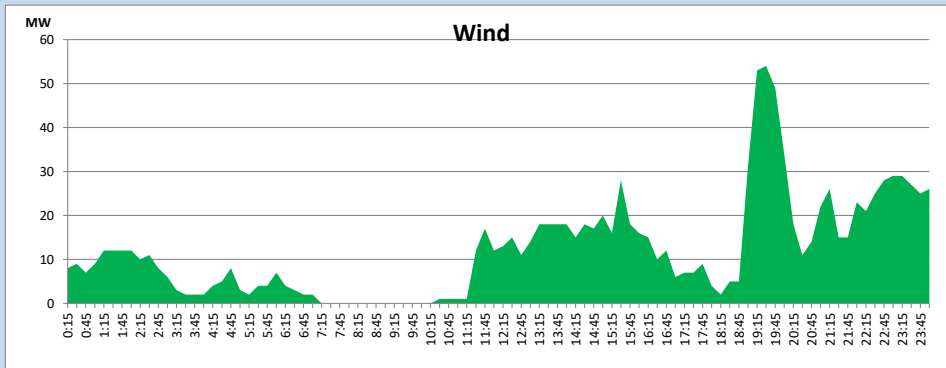
May 14, 2024



Wind Generation during

May 14, 2024

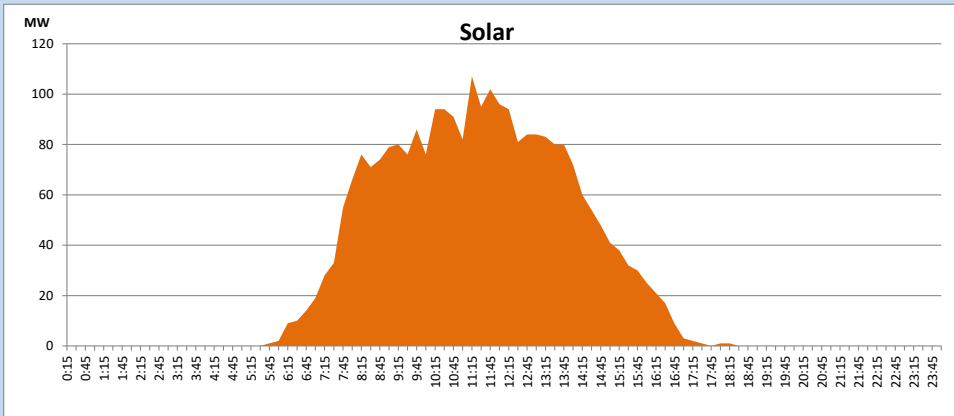
Based on Telemetered Power Stations only



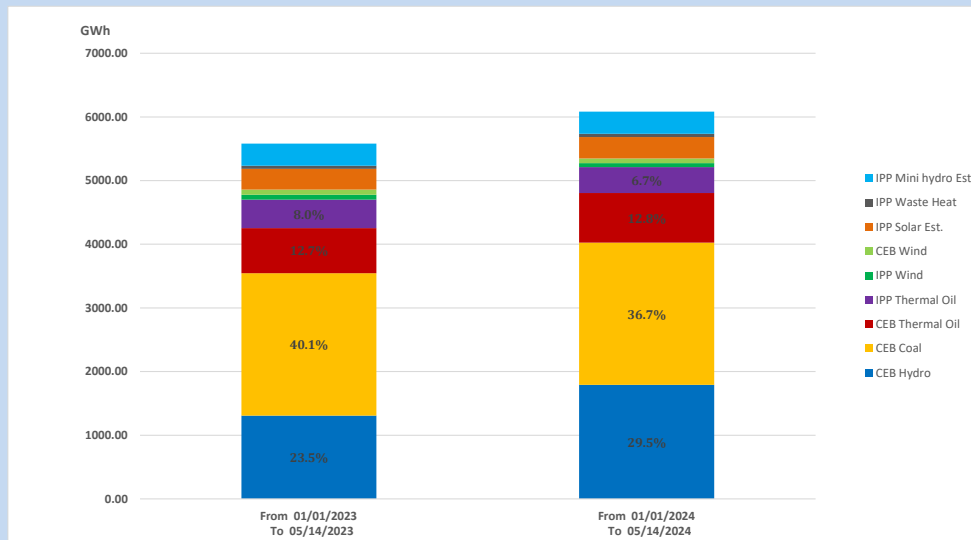
Solar Generation during

May 14, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/14/2023

5580 GWh

From 01/01/2024 To 05/14/2024

6082 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

Major Incidents reported during the day

May 14, 2024

- 1) LVPS unit 01 deloaded to 121MW(net) at 15:35hrs due to the tripping of ID Fan. LVPS unit 01 reached full load at 19:12hrs.
- 2) Kelaniya - Kolonnawa 132kV cct 01 tripped from Kolonnawa end and tripped & A/R from Kelaniya end at 17:23hrs due to the operation of Distance protection. Kelaniya - Kolonnawa cct 01 restored at 17:30hrs.
- 3) Kukule Pond spilling started at 23:49hrs and continues to the present hour.