

Generation and Reservoirs Statistics

May 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

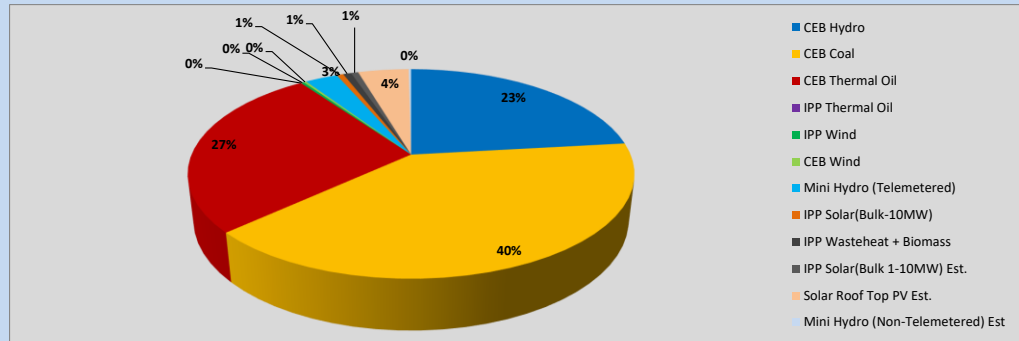


Table 01

	Generation (MWh)
CEB Hydro	11,263
CEB Coal	19,409
CEB Thermal Oil	13,093
IPP Thermal Oil	-
IPP Wind	134
CEB Wind	115
Mini Hydro (Telemetered)	1,369
IPP Solar (Bulk)	281
IPP Waste heat + Biomass	338
Total Generation (Excluding estimated figures)	46,002
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	99
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	48,535

* 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	111	22.74%
CEB Coal	194	39.55%
CEB Thermal Oil	119	24.35%
IPP Thermal	0	0.00%
SPP Wind	6	1.20%
CEB Wind	9	1.82%
Mini Hydro *	19	3.91%
IPP Solar *	28	5.76%
IPP Waste heat + BMP	3	0.66%
Total	490	

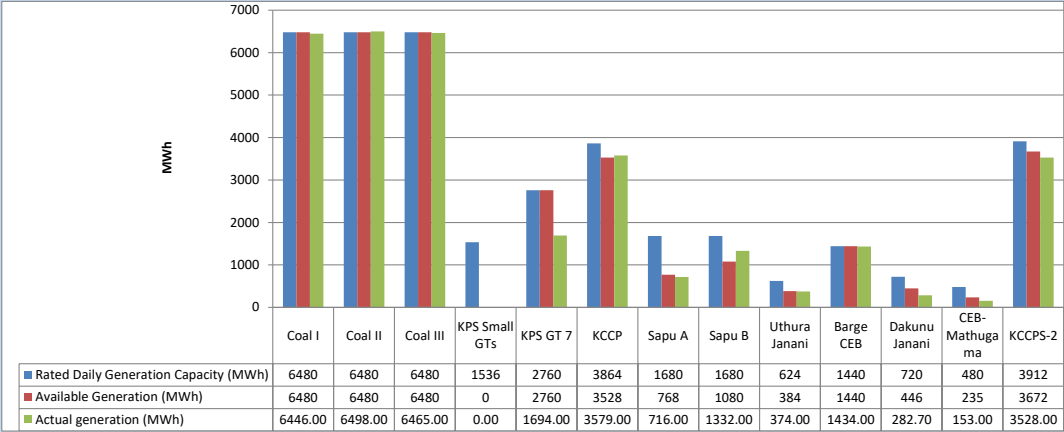
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,753	29.70%
CEB Coal	2,155	36.51%
CEB Thermal Oil	745	12.62%
IPP Thermal	408	6.91%
SPP Wind	63	1.07%
CEB Wind	72	1.22%
Mini Hydro *	330	5.59%
IPP Solar *	324	5.49%
IPP Waste heat	52	0.89%
Total	5,902	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

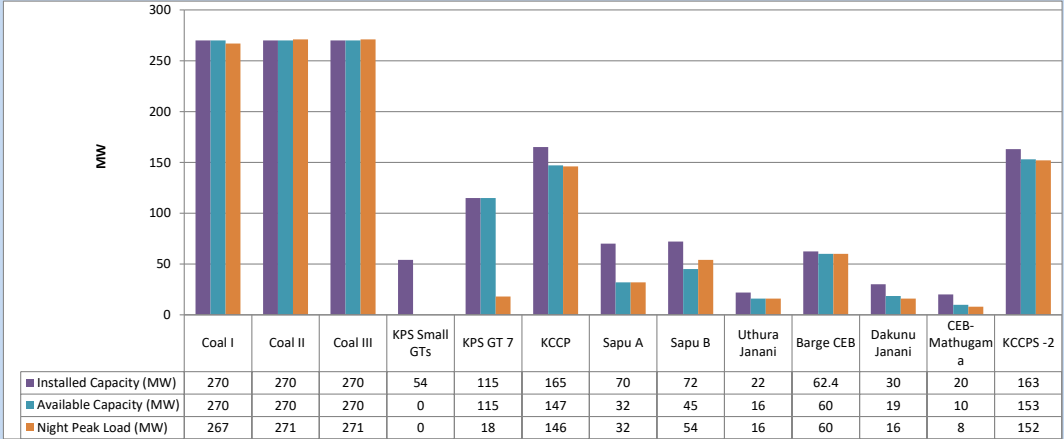
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Available Generation is estimated based on plant availability at 6.00am on

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4. CEB owned Thermal Plant Loading at the Night Peak

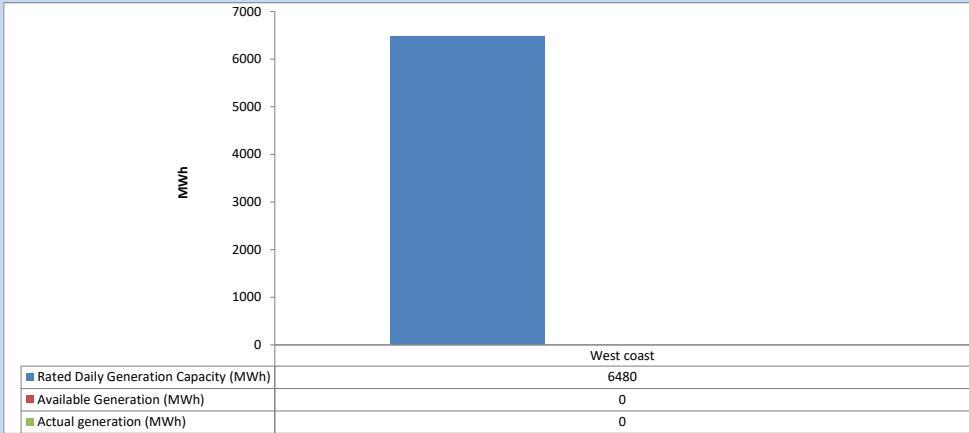


Plant availability is recorded at 6.00 am on

May 11, 2024

5. IPP owned Thermal Plant Dispatch

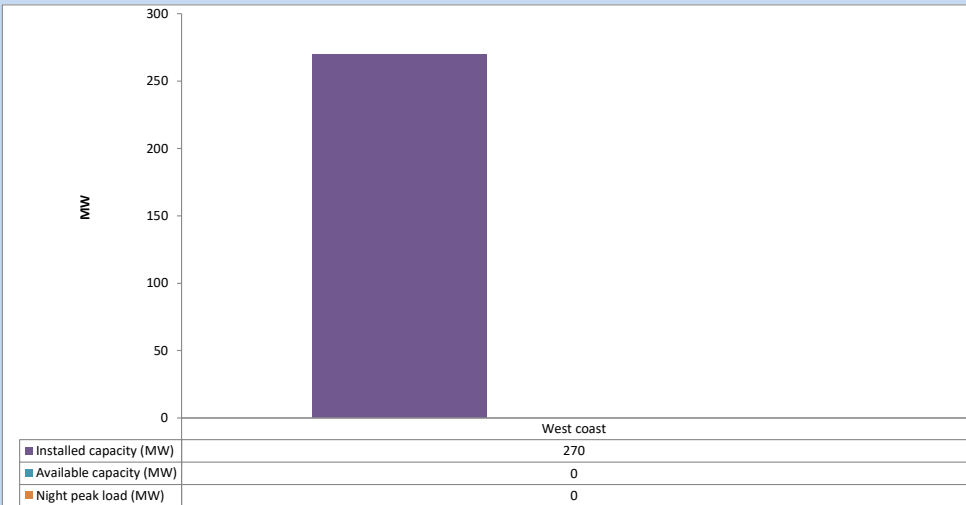
May 10, 2024



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

May 11, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

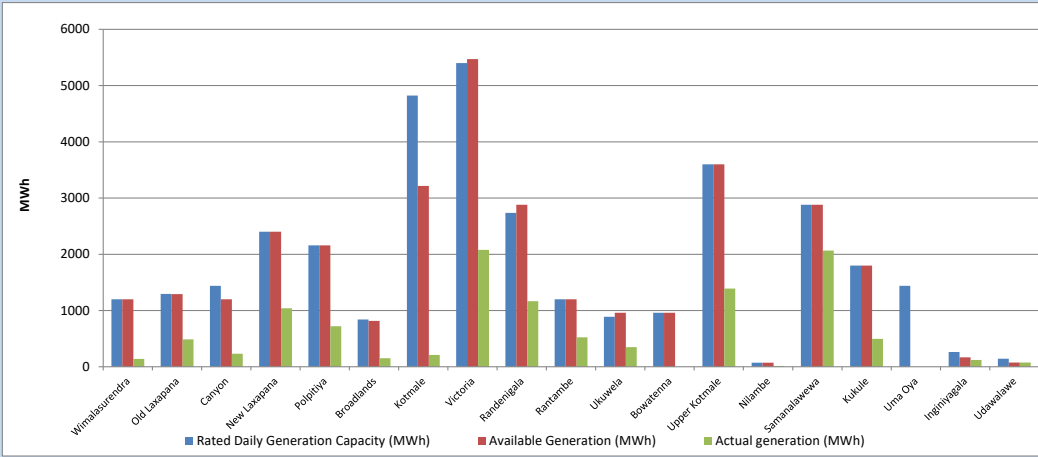


Plant availability is recorded at 6.00 am on

May 11, 2024

7. Major Hydro Plant Dispatch

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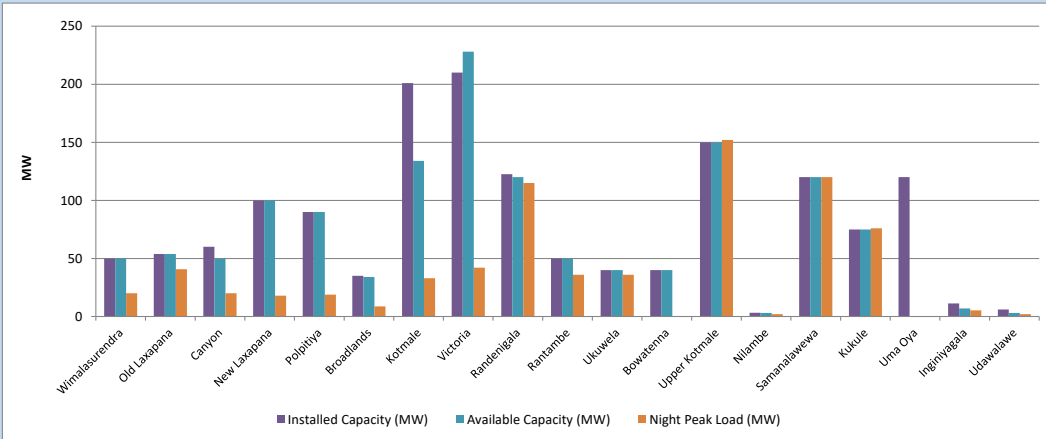


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 11, 2024

8. Major Hydro Plant Loading at Night Peak

May 10, 2024



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

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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	20	139
Old Laxapana	54	54	41	488
Canyon	60	50	20	233
New Laxapana	100	100	18	1,040
Polpitiya	90	90	19	720
Broadlands	35	34	9	152
Kotmale	201	134	33	210
Victoria	210	228	42	2,078
Randenigala	123	120	115	1,166
Rantambe	50	50	36	524
Ukuwela	40	40	36	350
Bowatenna	40	40	0	0
Upper Kotmale	150	150	152	1,389
Nilambe	3	3	2	15
Samanalawewa	120	120	120	2,067
Kukule	75	75	76	497
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	120
Udawalawe	6	3	2	76
Puttalam Coal I	270	270	267	6,446
Puttalam Coal II	270	270	271	6,498
Puttalam Coal III	270	270	271	6,465
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	18	1,694
KCCP	165	147	146	3,579
Sapugaskanda A	70	32	32	716
Sapugaskanda B	72	45	54	1,332
Uthura Janani	22	16	16	374
Barge CEB	62	60	60	1,434
CEB-Hambantota	30	19	16	283
CEB-Mathugama	20	10	8	153
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	152	3,528
West Coast	270	0	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,754	2,096	46,003

Note-

Plant availability is the availability recorded at 6 am on

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Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 10, 2024

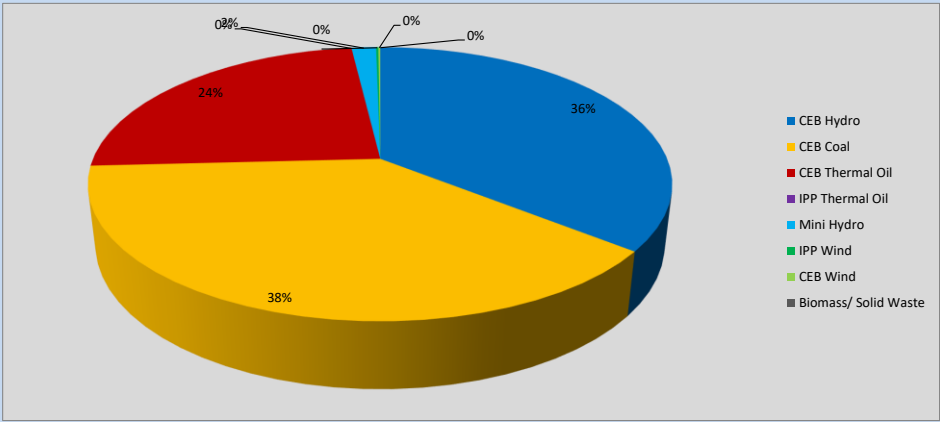


Table 06

CEB Hydro	748	MW
CEB Coal	809	MW
CEB Thermal Oil	502	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	34	MW
IPP Wind	3.1	MW
CEB Wind	2.7	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

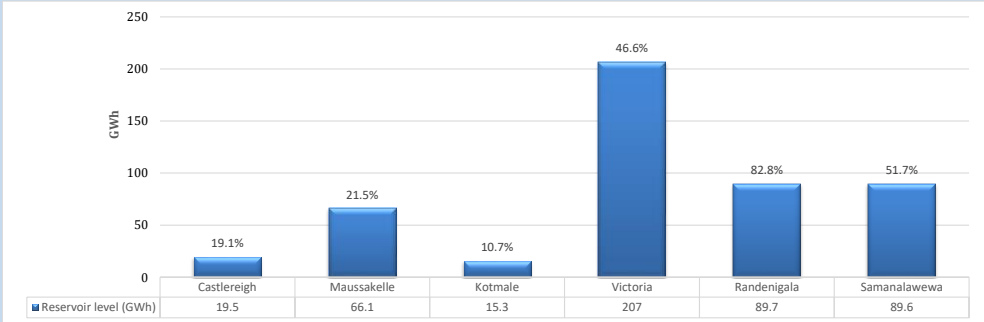
Table 07

Night Peak*	2,099	MW
Day Peak Maximum Demand	2,274	MW
Day Peak Minimum Demand	1,824	MW
Off Peak Minimum Demand	1,564	MW

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

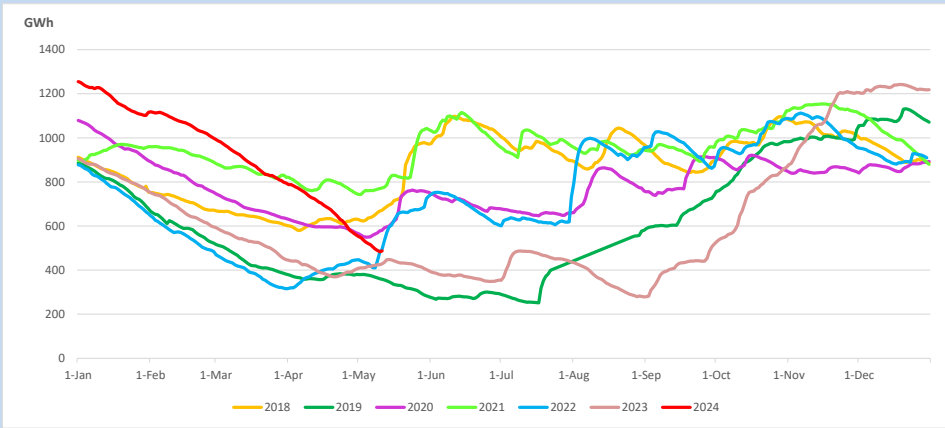
Reservoir Levels -

as at 06.00 Hr on May 11, 2024

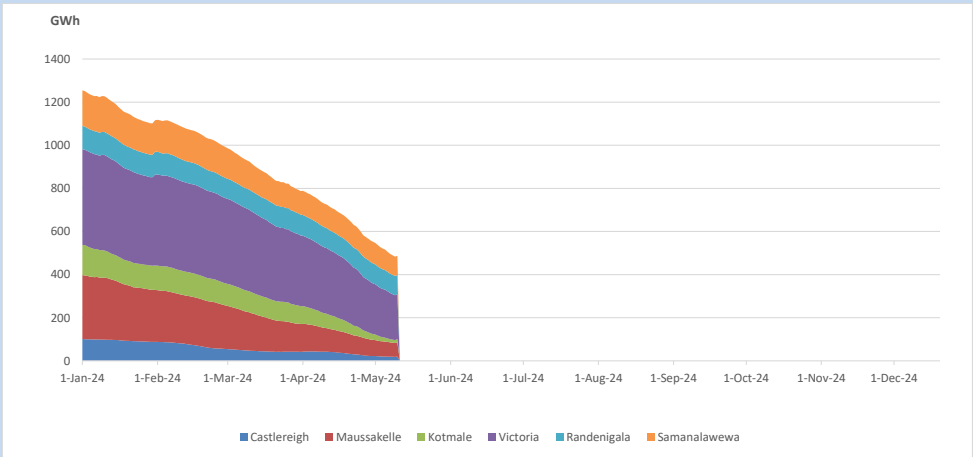


Total Reservoir Level 487.2 GWh
% of Total capacity 38.1%

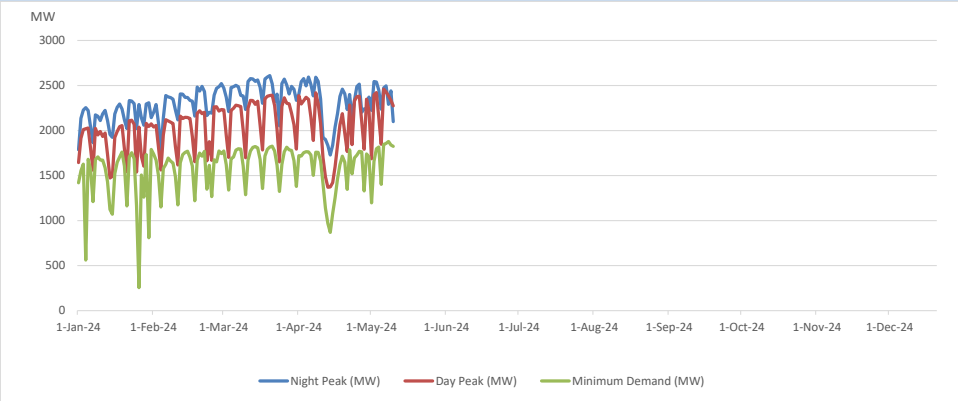
11. Comparison of Total Reservoir Storage Levels with Past Years



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



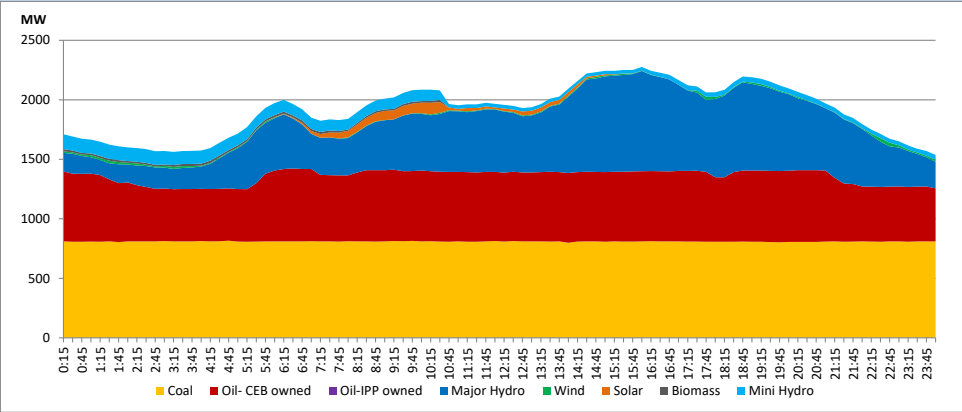
13. Variation of Demand during the current year



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

14. Daily Load Curve

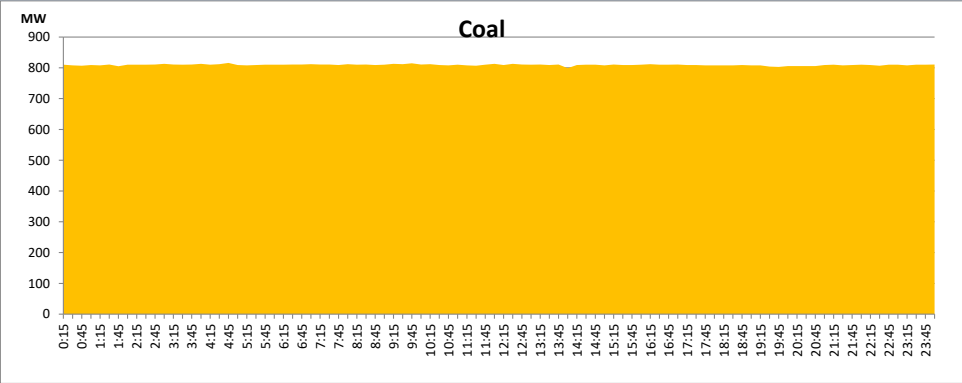
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Solar and wind data is based on Telemetered Power Stations only

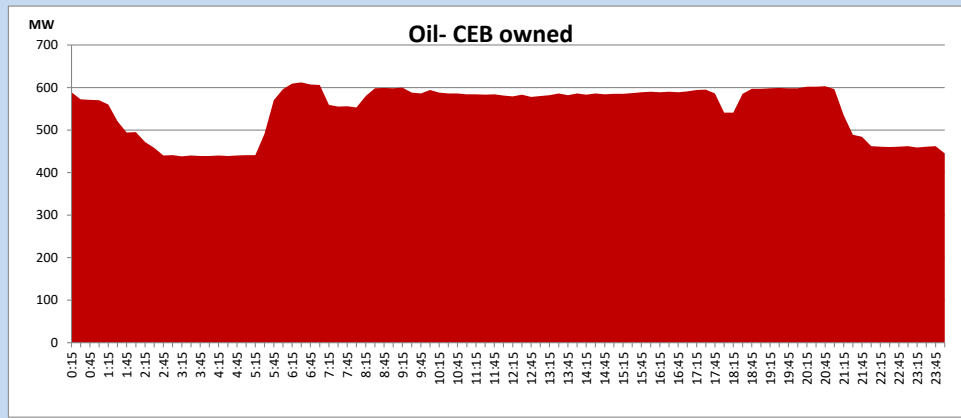
Coal Generation during

May 10, 2024



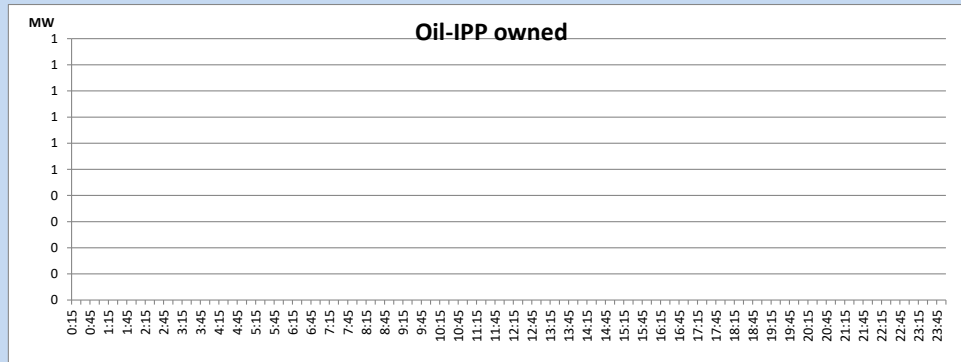
CEB Oil Plant Generation during

May 10, 2024



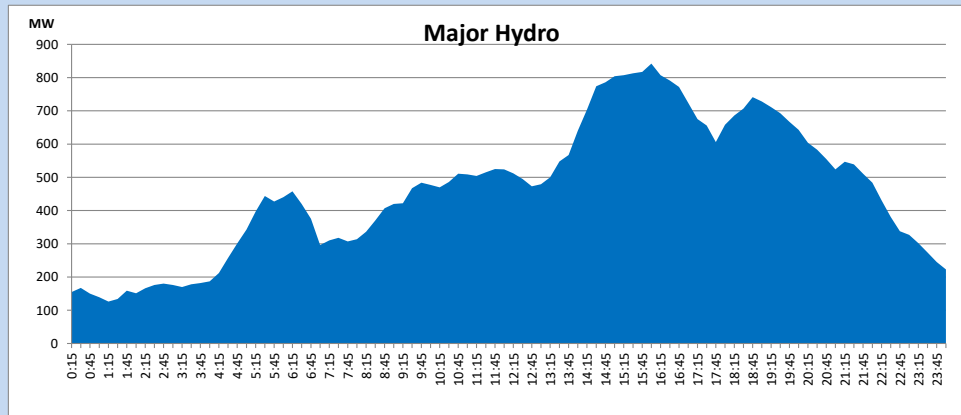
IPP Oil Plant Generation during

May 10, 2024



Major Hydro Generation during

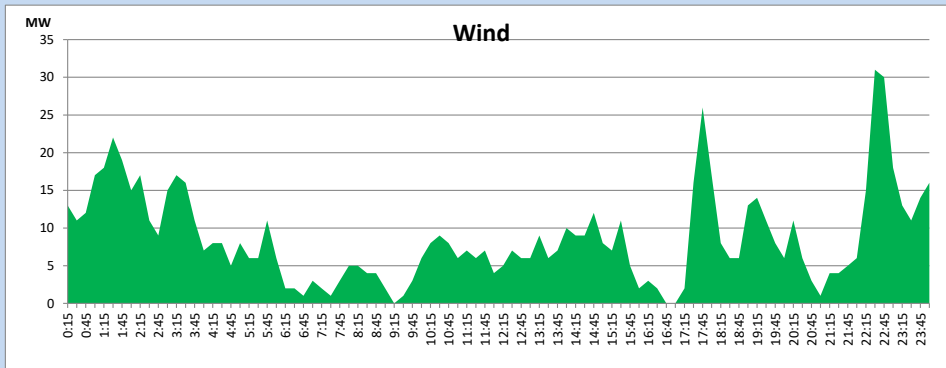
May 10, 2024



Wind Generation during

May 10, 2024

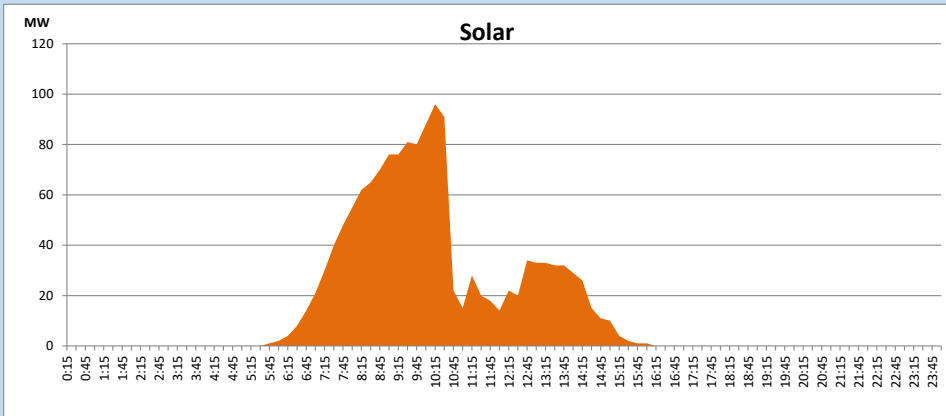
Based on Telemetered Power Stations only



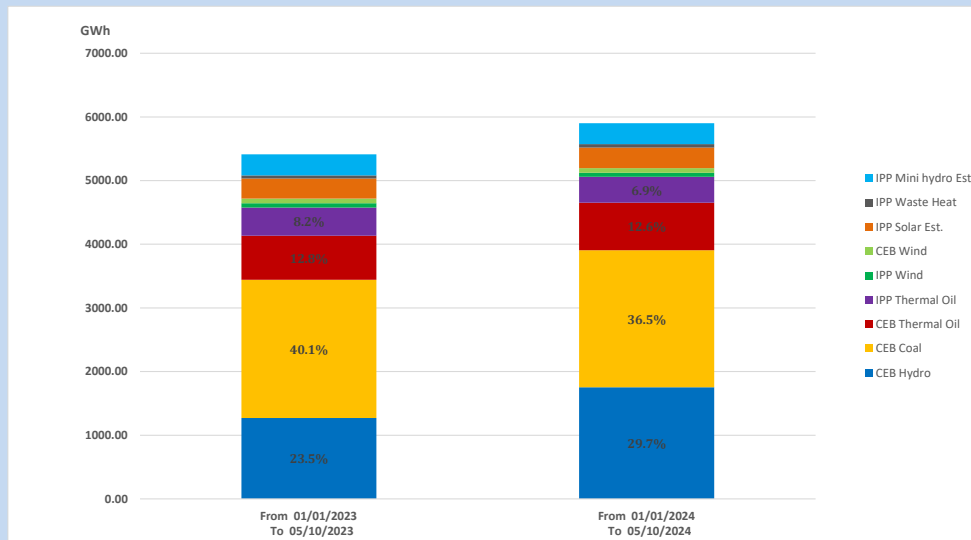
Solar Generation during

May 10, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/10/2023

5411 GWh

From 01/01/2024 To 05/10/2024

5902 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 10, 2024

1) Badulla - Nuwara Eliya - O'Laxapana 132kV cct 01 tripped from Badulla end & Nuwara Eliya end (Already switched off from O'Laxapana end) at 15:45hrs due to the operation of distance protection causing 33kV feeders 01, 05, 07 & 09 of Nuwara Eliya GSS to be dead. All affected feeders were normalized by 15:53hrs. Badulla - Nuwara Eliya - O'Laxapana 132kV cct 01 was normalized at 16:01hrs.

2) Mathugama 132/33kV T/F 01 and 03 tripped only from 33kV side due to the operation of O/C and 33kV B/S 01 tripped due to the operation of E/F at 17:34hrs causing associated feeders to be dead. At the same time, Matugama DPP tripped rejecting 9.3MW from the system due to the incoming feeder failure. 33kV BB 01, 132/33kV T/F 01, all affected feeders normalized and Mathugama 132/33kV T/F 03 at 17:43hrs, 17:44hrs, 17:54hrs and 18:49hrs respectively. Matugama DPP resumed generation by 18:45hrs.