

Generation and Reservoirs Statistics

May 22, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

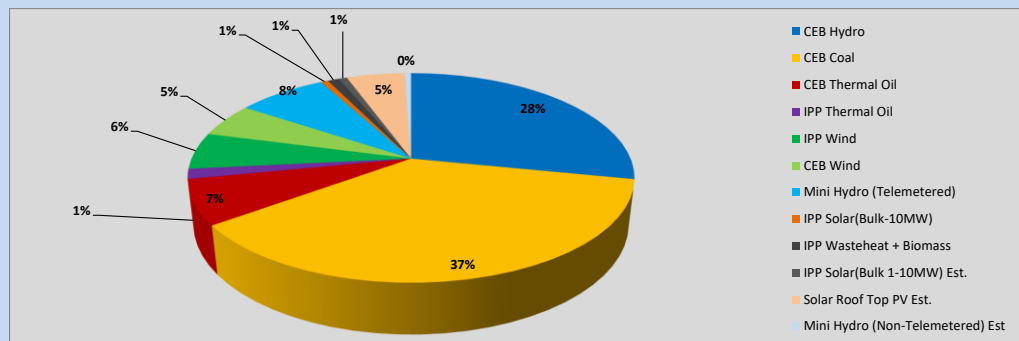


Table 01

	Generation (MWh)
CEB Hydro	11,898
CEB Coal	15,575
CEB Thermal Oil	2,923
IPP Thermal Oil	653
IPP Wind	2,397
CEB Wind	2,220
Mini Hydro (Telemetered)	3,271
IPP Solar (Bulk)	265
IPP Waste heat + Biomass	416
Total Generation (Excluding estimated figures)	39,618
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	236
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	42,288

* 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	250	24.40%
CEB Coal	416	40.63%
CEB Thermal Oil	198	19.38%
IPP Thermal	3	0.28%
SPP Wind	12	1.15%
CEB Wind	14	1.33%
Mini Hydro *	63	6.12%
IPP Solar *	60	5.91%
IPP Waste heat + BMP	8	0.81%
Total	1,023	

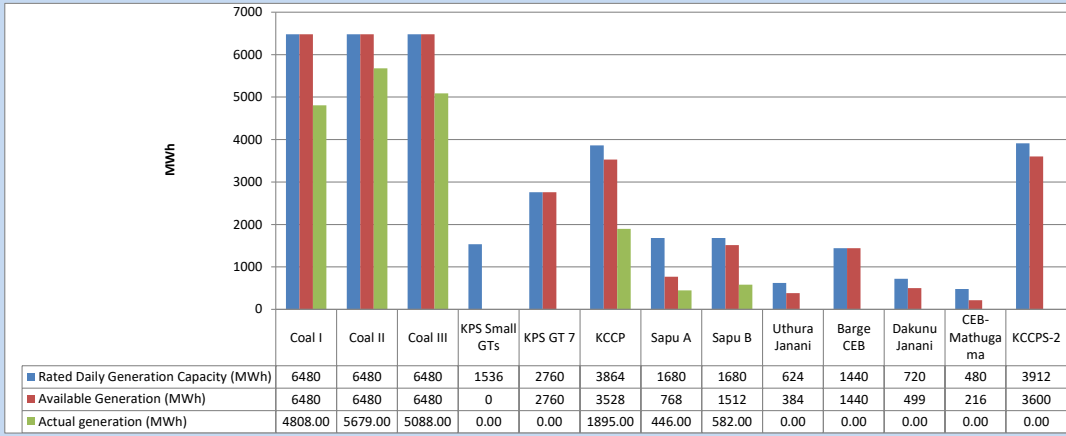
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,891	29.38%
CEB Coal	2,377	36.93%
CEB Thermal Oil	824	12.80%
IPP Thermal	411	6.38%
SPP Wind	69	1.08%
CEB Wind	77	1.19%
Mini Hydro *	373	5.80%
IPP Solar *	356	5.54%
IPP Waste heat	57	0.89%
Total	6,435	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

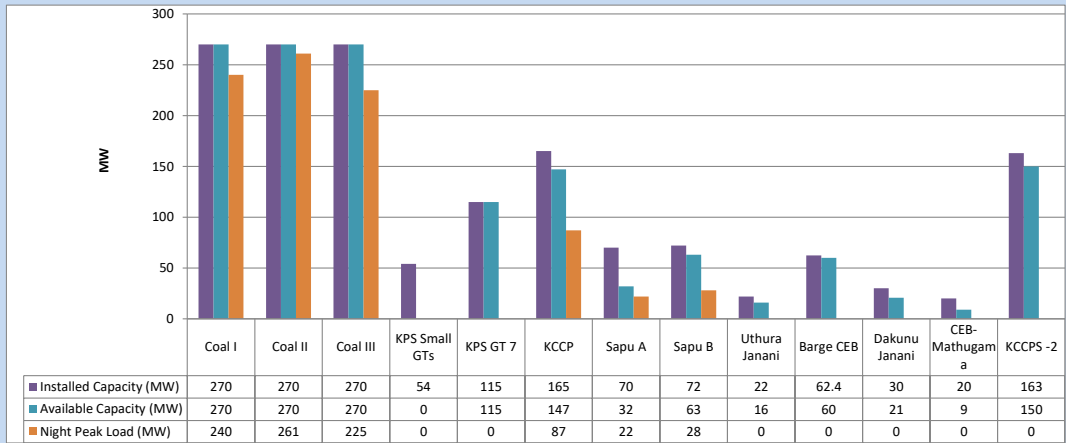
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Available Generation is estimated based on plant availability at 6.00am on

May 23, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

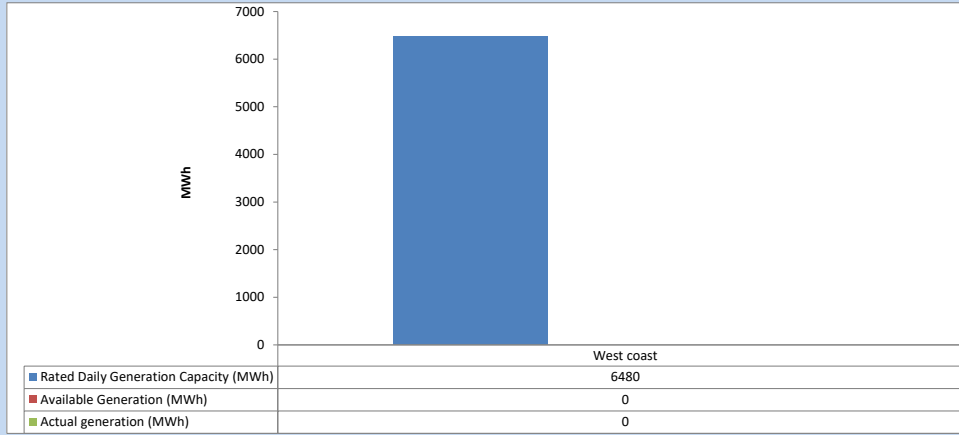


Plant availability is recorded at 6.00 am on

May 23, 2024

5. IPP owned Thermal Plant Dispatch

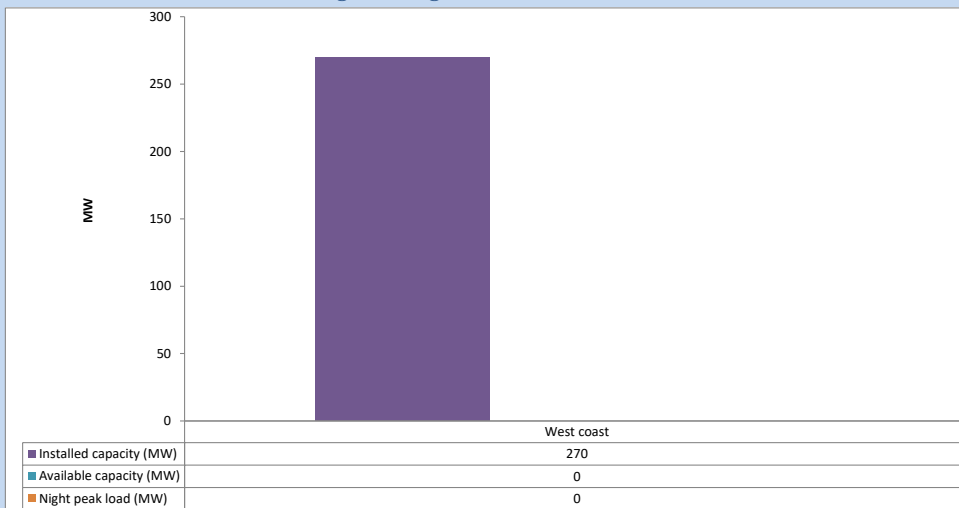
May 22, 2024



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

May 23, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

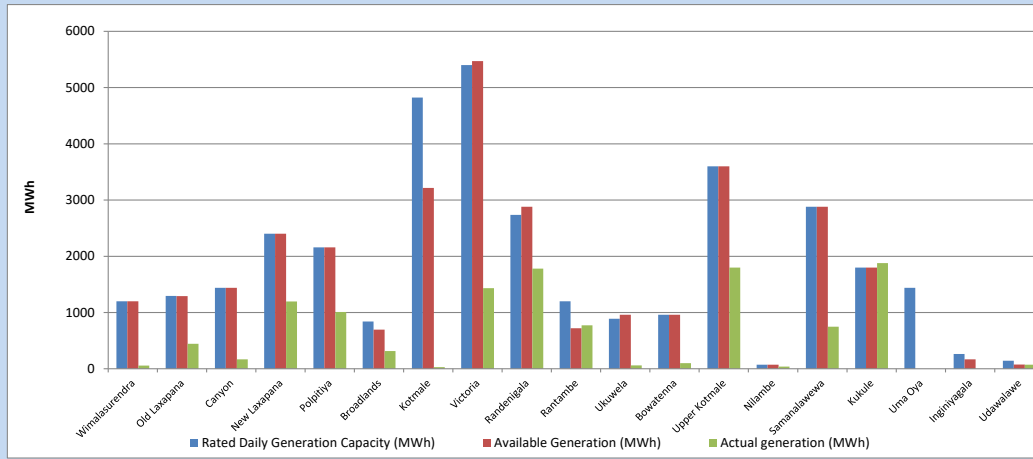


Plant availability is recorded at 6.00 am on

May 23, 2024

7. Major Hydro Plant Dispatch

May 22, 2024

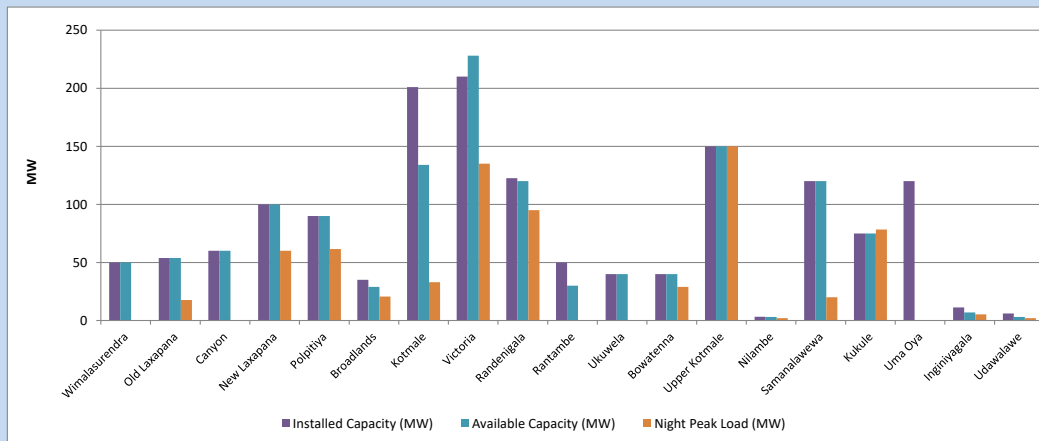


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 23, 2024

8. Major Hydro Plant Loading at Night Peak

May 22, 2024



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

May 23, 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	56
Old Laxapana	54	54	18	444
Canyon	60	60	0	167
New Laxapana	100	100	60	1,197
Polpitiya	90	90	62	1,010
Broadlands	35	29	21	314
Kotmale	201	134	33	30
Victoria	210	228	135	1,432
Randenigala	123	120	95	1,781
Rantambe	50	30	0	773
Ukuwela	40	40	0	59
Bowatenna	40	40	29	101
Upper Kotmale	150	150	150	1,799
Nilambe	3	3	2	37
Samanalawewa	120	120	20	747
Kukule	75	75	78	1,878
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	0
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	240	4,808
Puttalam Coal II	270	270	261	5,679
Puttalam Coal III	270	270	225	5,088
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	87	1,895
Sapugaskanda A	70	32	22	446
Sapugaskanda B	72	63	28	582
Uthura Janani	22	16	0	0
Barge CEB	62	60	0	0
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	9	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	653
Total	3,594	2,756	1,895	39,618

Note-

Plant availability is the availability recorded at 6 am on
Installed Capacity is sourced from CEB Annual Report- 2022

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10. Contribution to the Night Peak in MW

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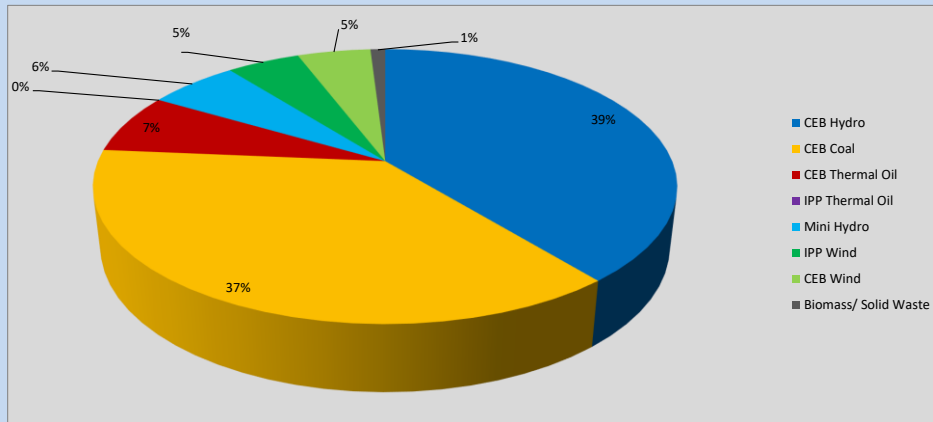


Table 06

CEB Hydro	760	MW
CEB Coal	726	MW
CEB Thermal Oil	137	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	116	MW
IPP Wind	94	MW
CEB Wind	94.1	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

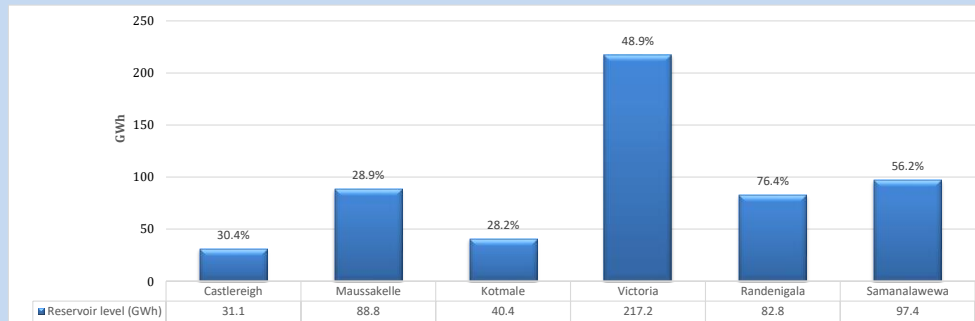
Table 07

Night Peak*	1,945	MW
Day Peak Maximum Demand	1,926	MW
Day Peak Minimum Demand	1,544	MW
Off Peak Minimum Demand	1,304	MW

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

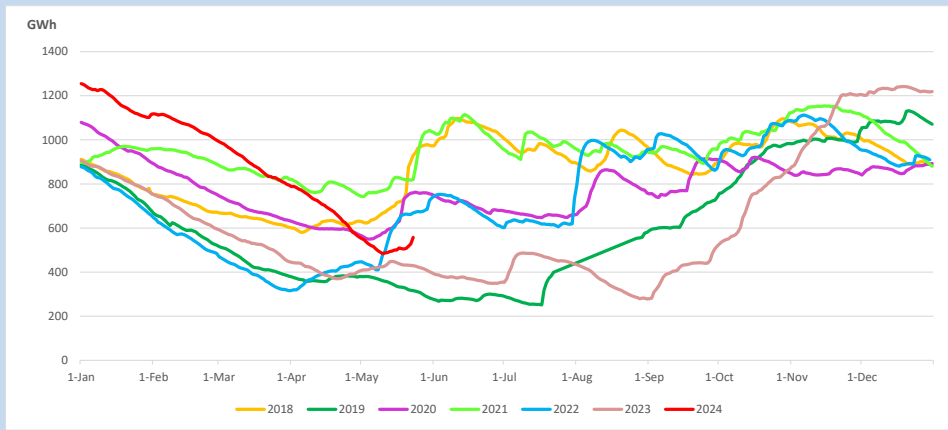
Reservoir Levels -

as at 06.00 Hr on May 23, 2024

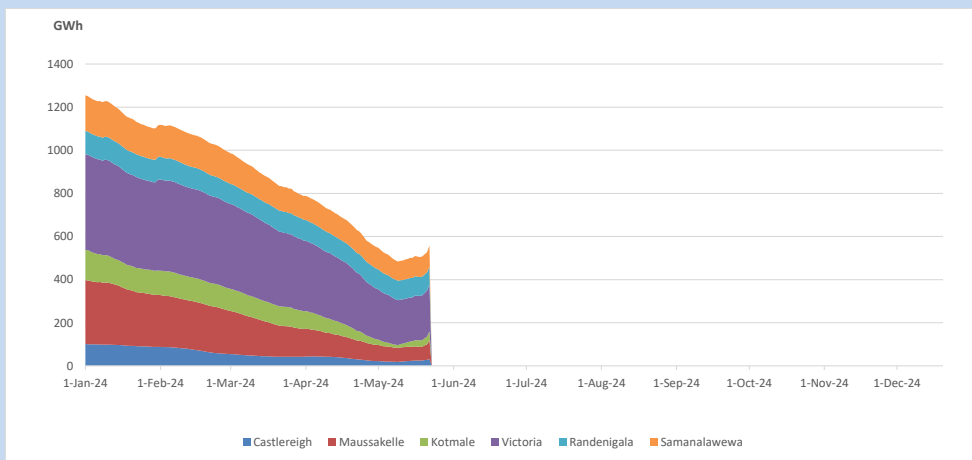


Total Reservoir Level: 557.7 GWh
 % of Total capacity: 43.6%

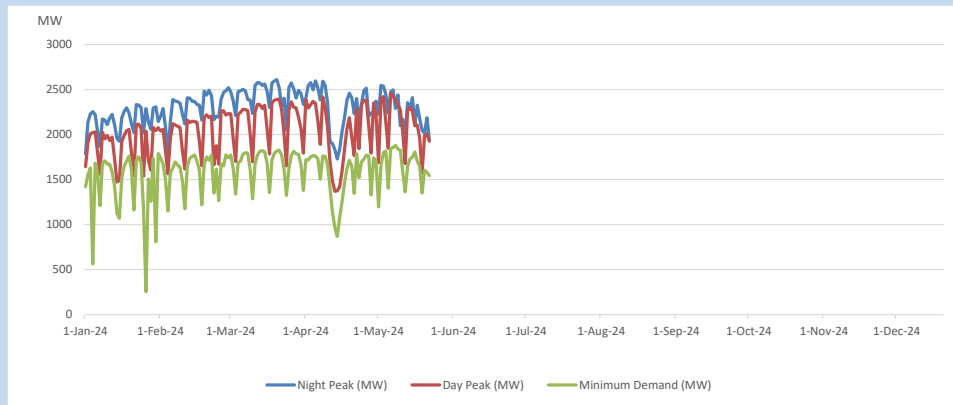
11. Comparison of Total Reservoir Storage Levels with Past Years



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



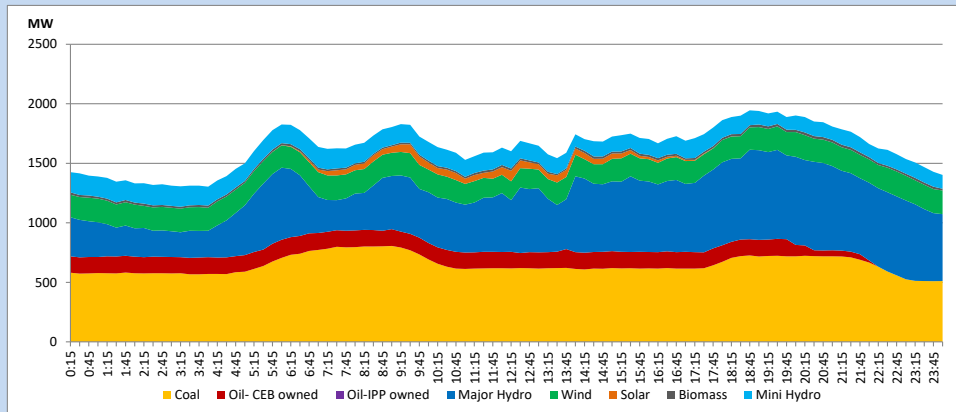
13. Variation of Demand during the current year



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

14. Daily Load Curve

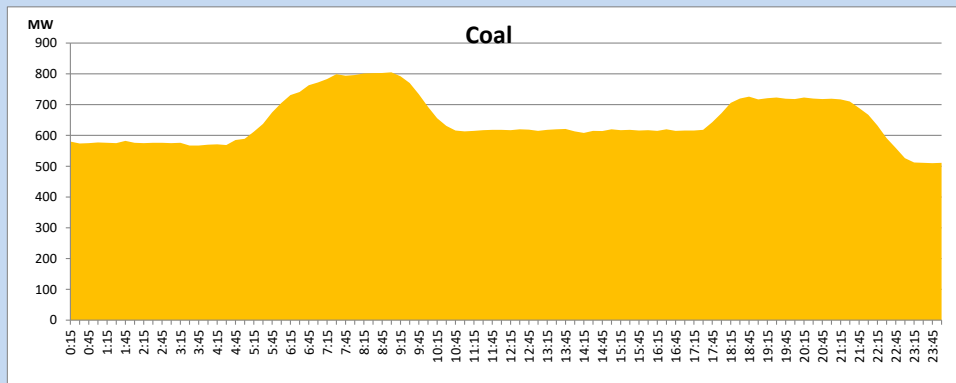
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Solar and wind data is based on Telemetered Power Stations only

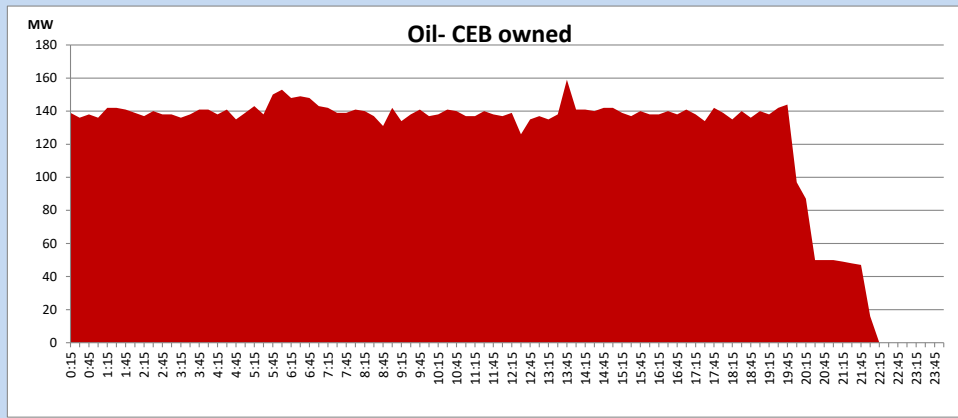
Coal Generation during

May 22, 2024



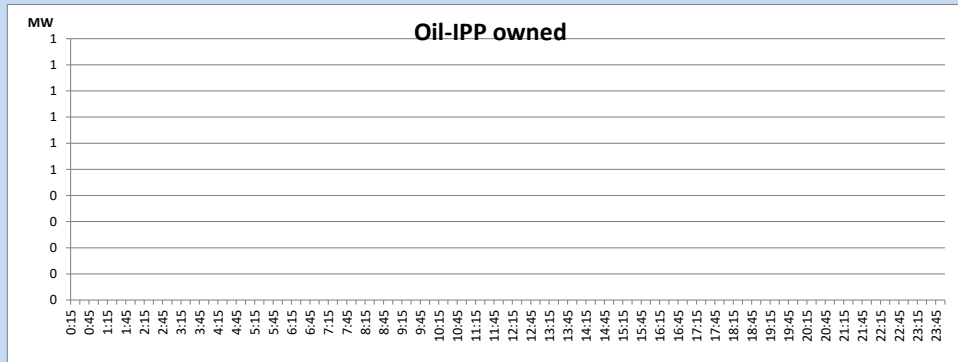
CEB Oil Plant Generation during

May 22, 2024



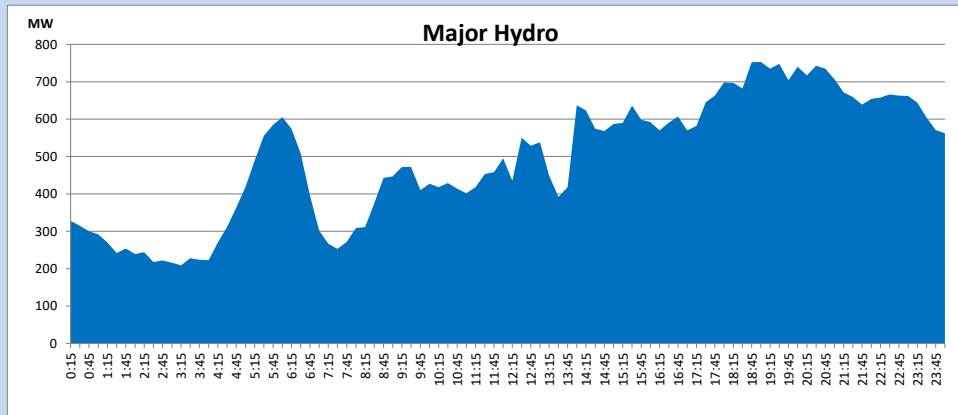
IPP Oil Plant Generation during

May 22, 2024



Major Hydro Generation during

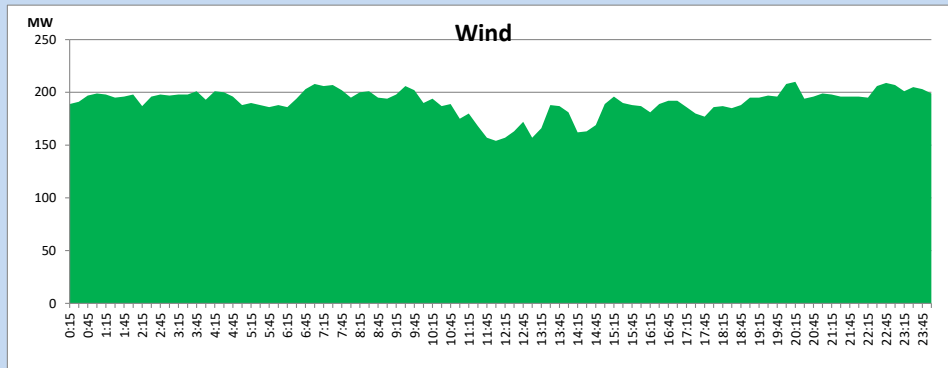
May 22, 2024



Wind Generation during

May 22, 2024

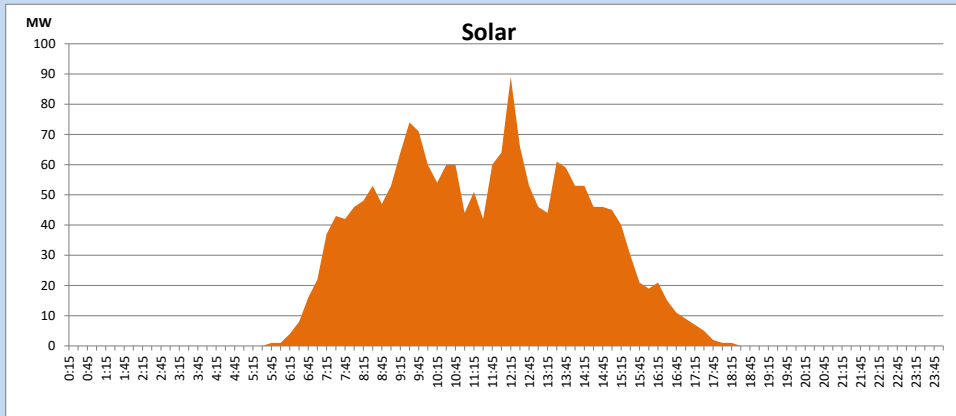
Based on Telemetered Power Stations only



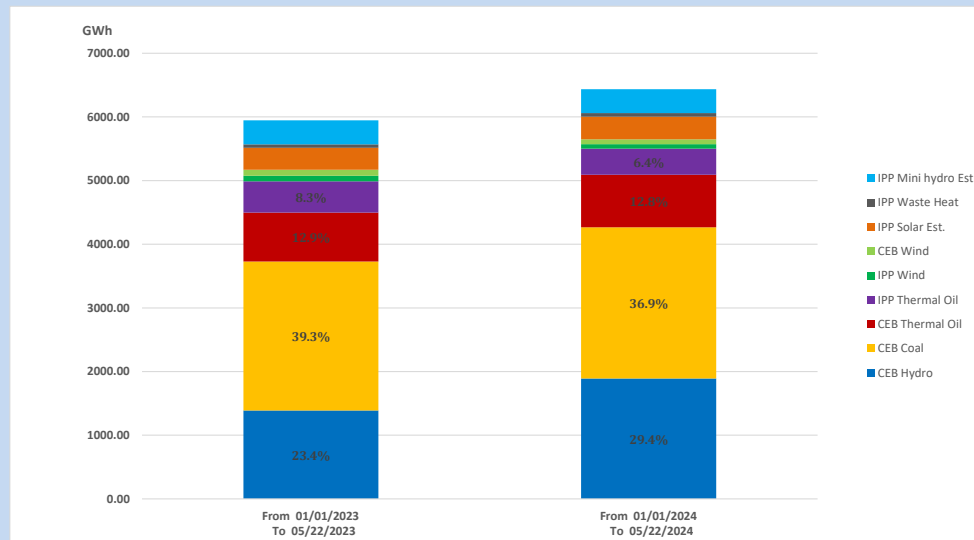
Solar Generation during

May 22, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/22/2023

5948 GWh

From 01/01/2024 To 05/22/2024

6435 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
Sobadhanavi	Auto Diesel

Major Incidents reported during the day

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- 1) Ukuwela GSS 132/33kV T/F 03 which tripped at 00:11hrs was normalized by 11:39hrs. Subsequently, 132/33kV T/F 03 again tripped from both sides at 19:44hrs due to the operation of earthing T/F buchholz protection along with 33kV feeder 6. The T/F 03 is yet to be normalized.
- 2) Mathugama GSS 132/33kV T/F 01 tripped from both ends and T/F 02 and 03 tripped only from 33kV ends at 12:58hrs, along with 33kV feeder 08 and 10 causing Mathugama GSS to be dead. Mathugama all T/Fs were normalized by 13:27hrs and all affected feeders were normalized by 13:43hrs.
- 3) Badulla - N'Eliya - O'Laxapana 132kV cct 01 tripped only from Badulla and Old Laxapana ends at 14:14hrs due to the operation of distance protection causing Nuwara Eliya 132kV B/S 01, 33kV B/S 01 and all associated feeders to be dead. All affected feeders were normalized by 14:32hrs and Badulla - N'Eliya - O'Laxapana 132kV cct 01 was normalized by 14:54hrs.
- 4) Kosgama GSS 132/33kV T/F 02 which tripped on 21.05.2024, was normalized by 20:30hrs
- 5) Kukule Ganga pond Spilling continues to the present hour.