Generation and Reservoirs Statistics

May 29, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

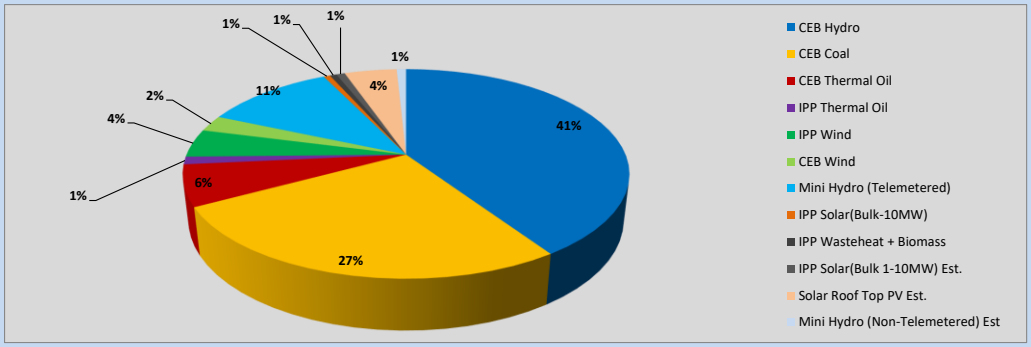


Table 01

	Generation (MWh)
CEB Hydro	19,098
CEB Coal	12,483
CEB Thermal Oil	2,988
IPP Thermal Oil	560
IPP Wind	2,044
CEB Wind	1,178
Mini Hydro (Telemetered)	5,293
IPP Solar (Bulk)	263
IPP Waste heat + Biomass	271
Total Generation (Excluding estimated figures)	**44,178**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	382
* Estimated IPP Solar PV (Bulk 1-10MW)	351
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	**47,041**

*** 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	360	27.62%
CEB Coal	493	37.83%
CEB Thermal Oil	205	15.71%
IPP Thermal	6	0.44%
SPP Wind	28	2.15%
CEB Wind	28	2.13%
Mini Hydro *	94	7.23%
IPP Solar *	79	6.08%
IPP Waste heat + BMP	11	0.81%
Total	**1,304**	

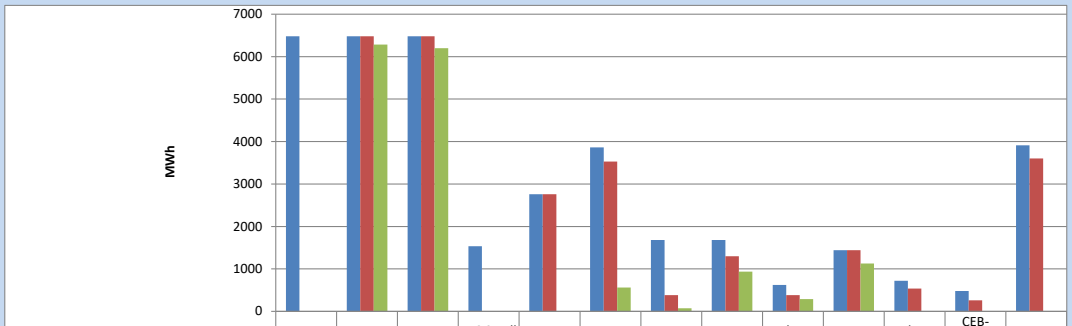
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,001	29.80%
CEB Coal	2,454	36.54%
CEB Thermal Oil	830	12.36%
IPP Thermal	413	6.16%
SPP Wind	85	1.27%
CEB Wind	91	1.35%
Mini Hydro *	405	6.03%
IPP Solar *	375	5.59%
IPP Waste heat	60	0.89%
Total	**6,715**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

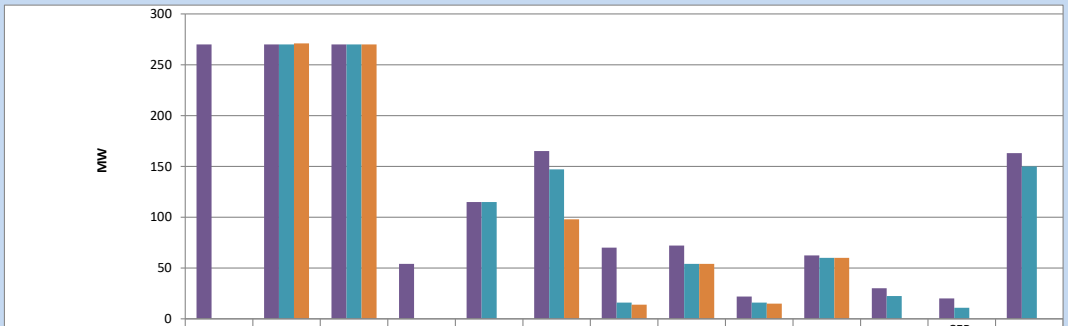
May 29, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	0	6480	6480	0	2760	3528	384	1296	384	1440	538	262	3600
Actual generation (MWh)	0.00	6285.00	6198.00	0.00	0.00	562.00	74.00	934.00	289.00	1129.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on May 30, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

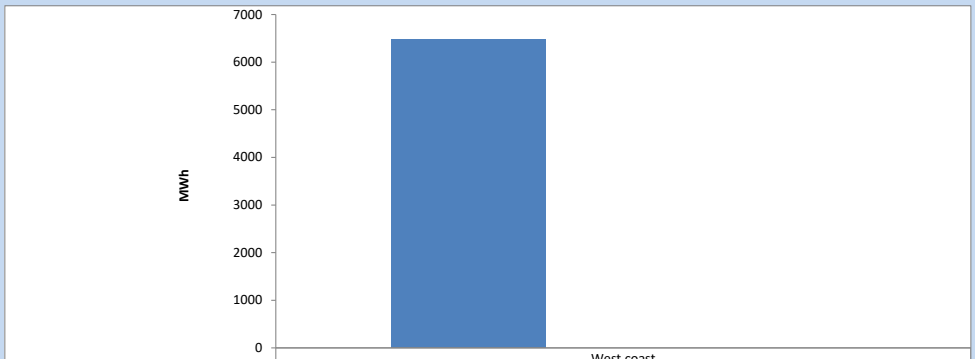


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	0	270	270	0	115	147	16	54	16	60	22	11	150
Night Peak Load (MW)	0	271	270	0	0	98	14	54	15	60	0	0	0

Plant availability is recorded at 6.00 am on May 30, 2024

5. IPP owned Thermal Plant Dispatch

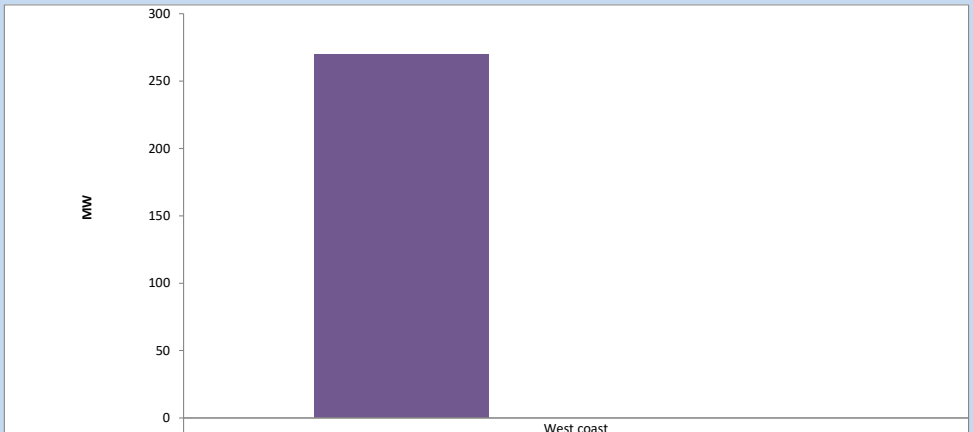
May 29, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	0
Actual generation (MWh)	0

Available Generation is estimated based on plant availability at 6.00am on May 30, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

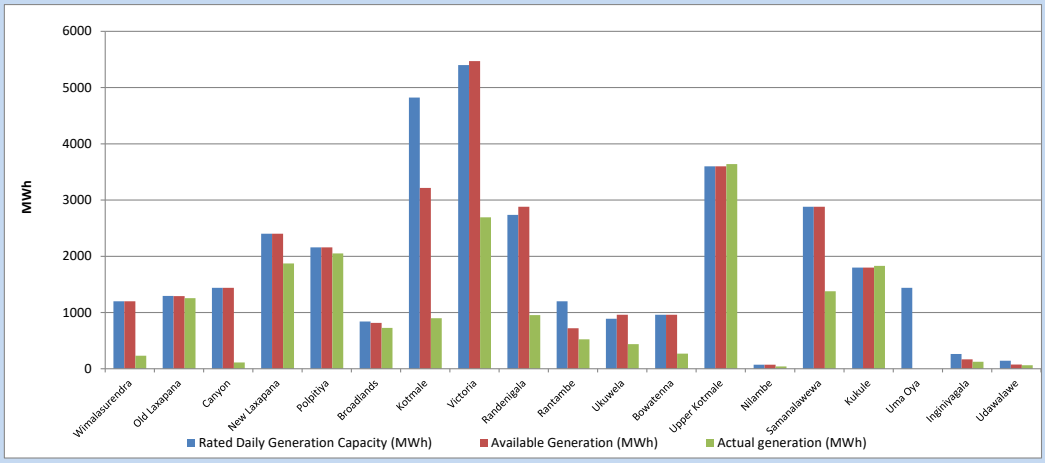


	West coast
Installed capacity (MW)	270
Available capacity (MW)	0
Night peak load (MW)	0

Plant availability is recorded at 6.00 am on May 30, 2024

7. Major Hydro Plant Dispatch

May 29, 2024

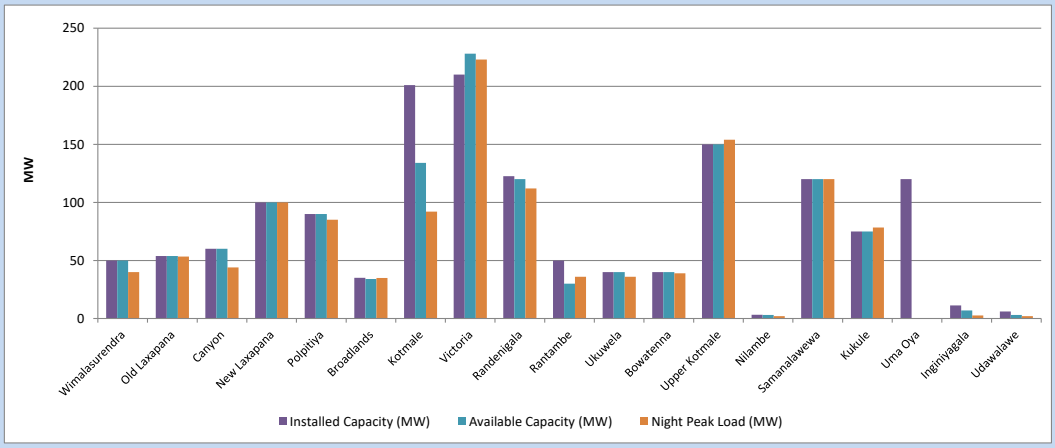


Available Generation is estimated based on plant availability at 6.00am on May 30, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

May 29, 2024



Plant availability is recorded at 6.00 am on May 30, 2024

Broadlands power plant is operating in the Commissioning Stage

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	232
Old Laxapana	54	54	53	1,256
Canyon	60	60	44	111
New Laxapana	100	100	100	1,872
Polpitiya	90	90	85	2,050
Broadlands	35	34	35	728
Kotmale	201	134	92	900
Victoria	210	228	223	2,694
Randenigala	123	120	112	954
Rantambe	50	30	36	523
Ukuwela	40	40	36	437
Bowatenna	40	40	39	268
Upper Kotmale	150	150	154	3,640
Nilambe	3	3	2	40
Samanalawewa	120	120	120	1,379
Kukule	75	75	78	1,830
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	123
Udawalawe	6	3	2	62
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,285
Puttalam Coal III	270	270	270	6,198
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	98	562
Sapugaskanda A	70	16	14	74
Sapugaskanda B	72	54	54	934
Uthura Janani	22	16	15	289
Barge CEB	62	60	60	1,129
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	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	560
Total	3,594	2,469	2,390	44,179

Note-

Plant availability is the availability recorded at 6 am on May 30, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 29, 2024

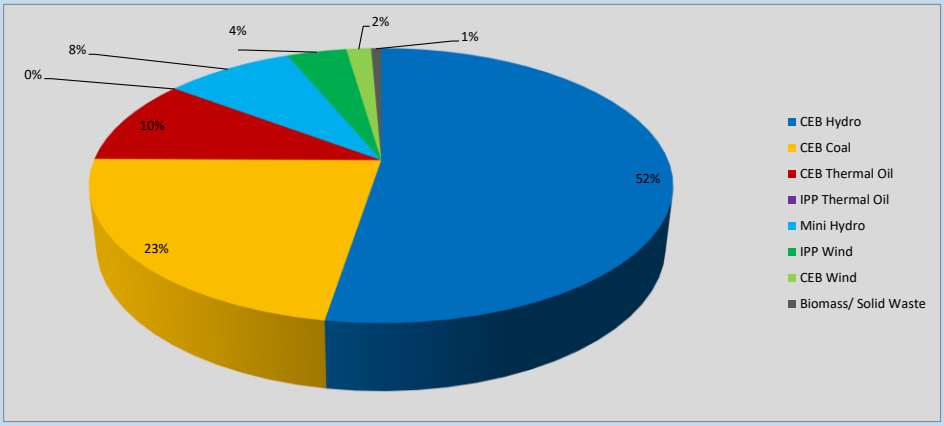


Table 06

CEB Hydro	1259	MW
CEB Coal	541	MW
CEB Thermal Oil	241	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	204	MW
IPP Wind	94.7	MW
CEB Wind	39.3	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

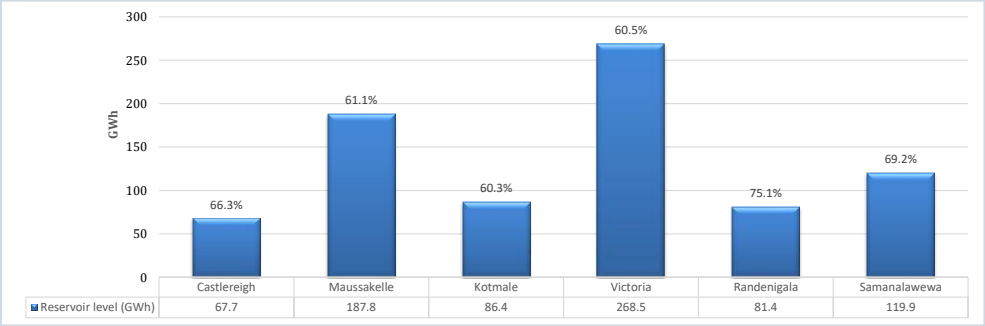
Table 07

Night Peak*	2,395	MW
Day Peak Maximum Demand	2,161	MW
Day Peak Minimum Demand	1,650	MW
Off Peak Minimum Demand	1,400	MW

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

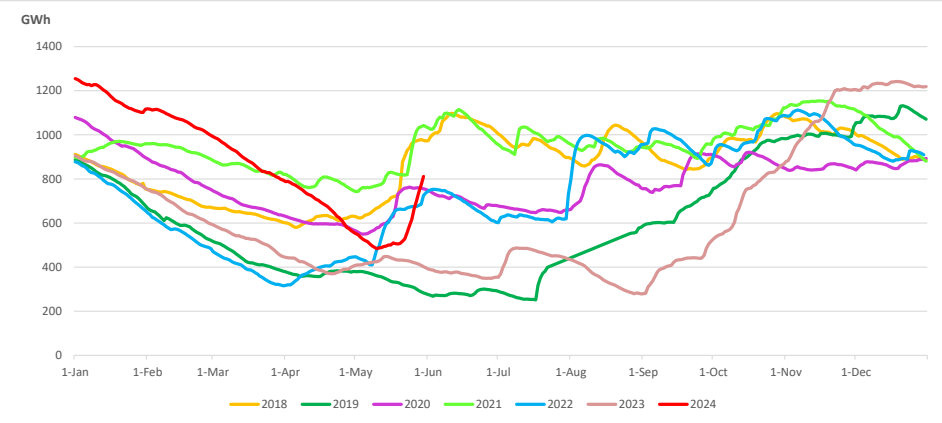
Reservoir Levels -

as at 06.00 Hr on May 30, 2024

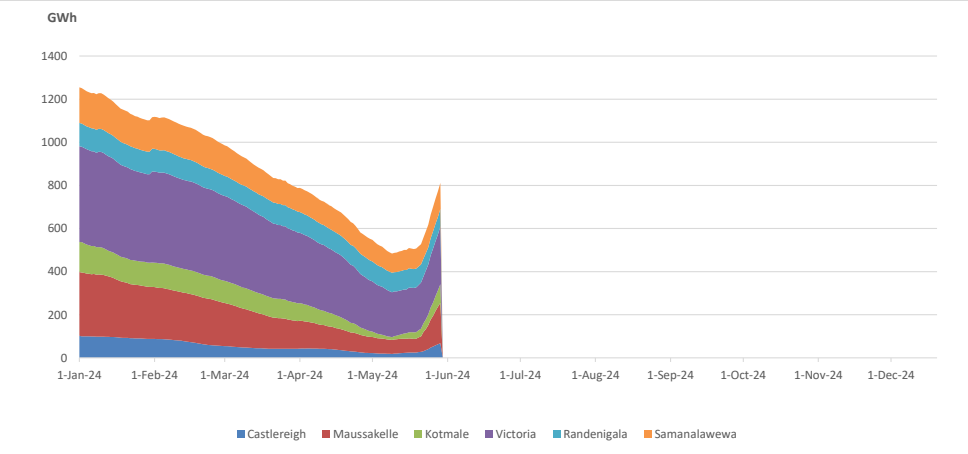


Total Reservoir Level 811.7 GWh
% of Total capacity 63.5%

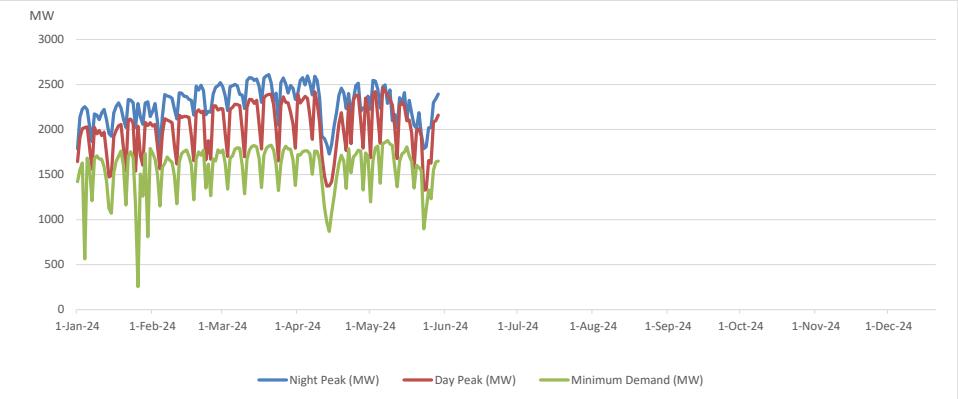
11. Comparison of Total Reservoir Storage Levels with Past Years



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

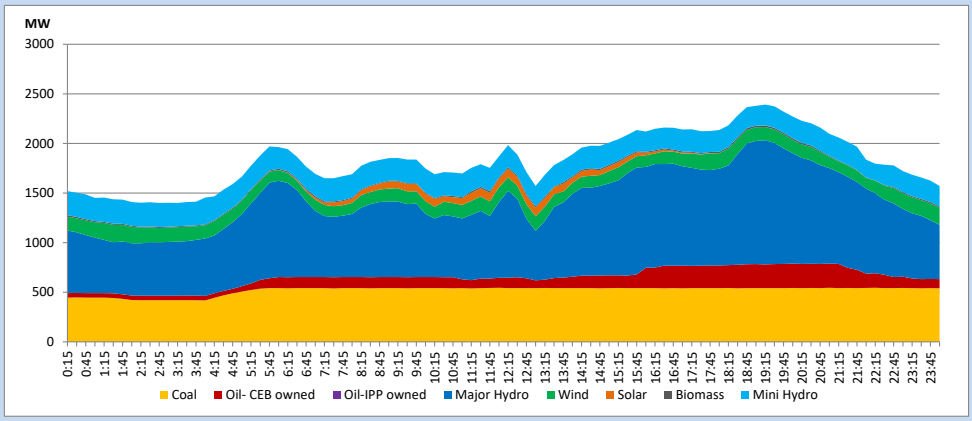


13. Variation of Demand during the current year



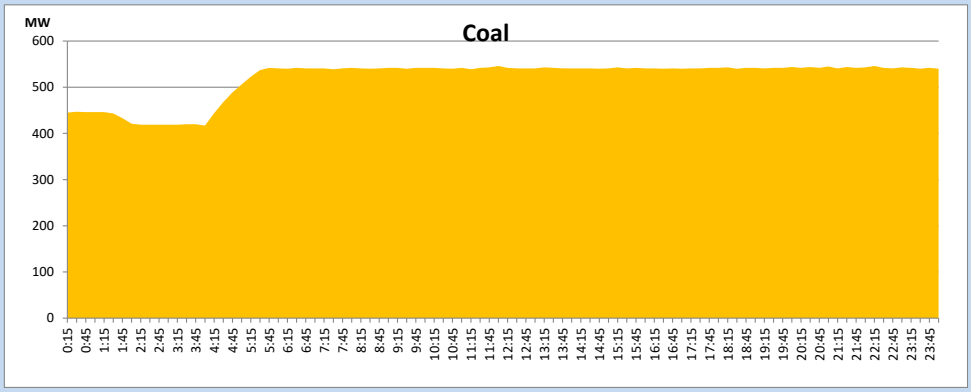
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 29, 2024

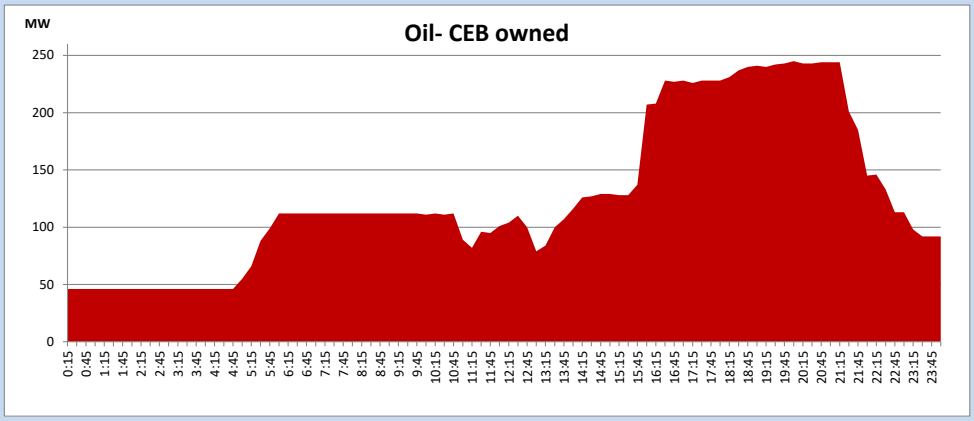


Solar and wind data is based on Telemetered Power Stations only

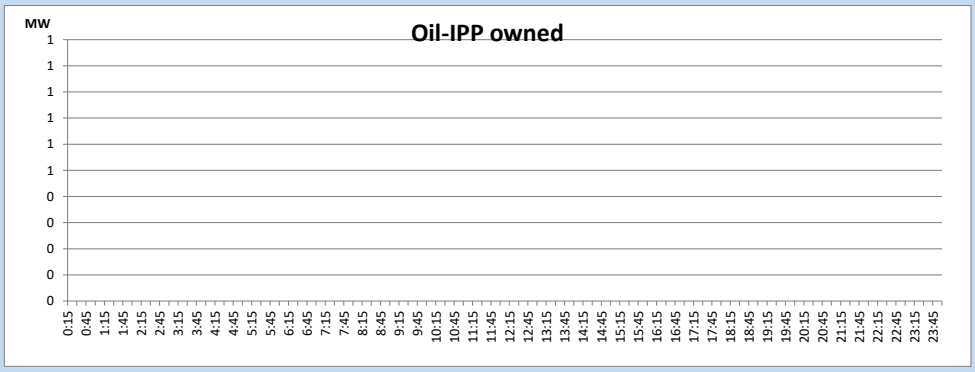
Coal Generation during May 29, 2024



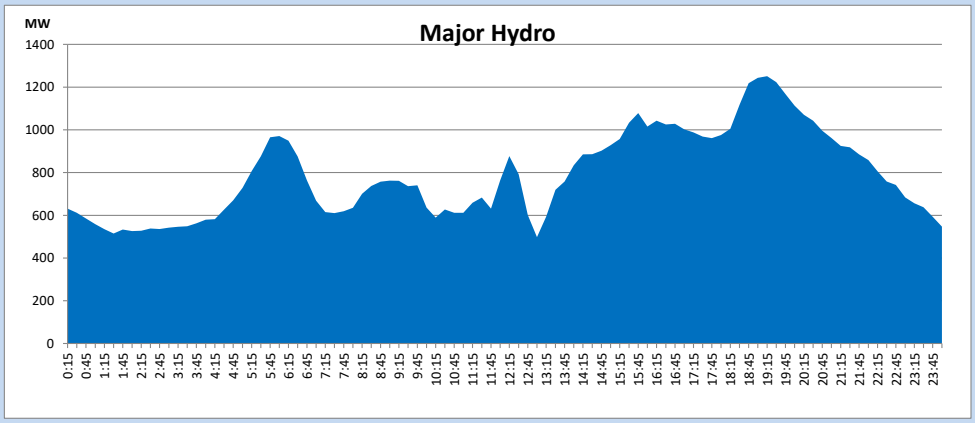
CEB Oil Plant Generation during **May 29, 2024**



IPP Oil Plant Generation during **May 29, 2024**

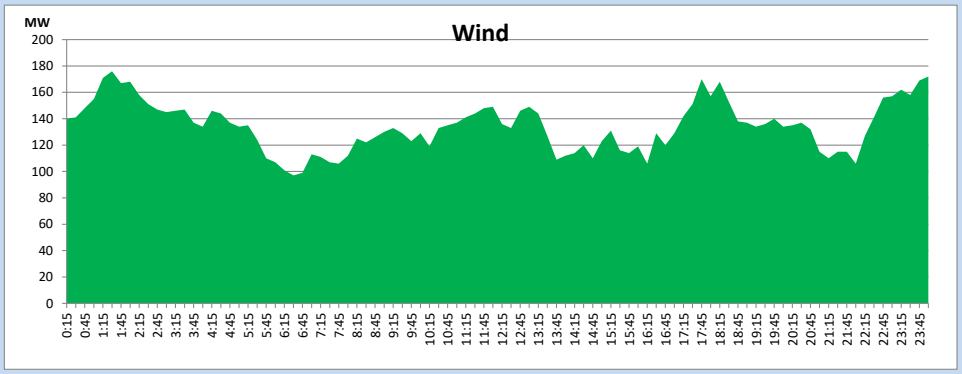


Major Hydro Generation during **May 29, 2024**



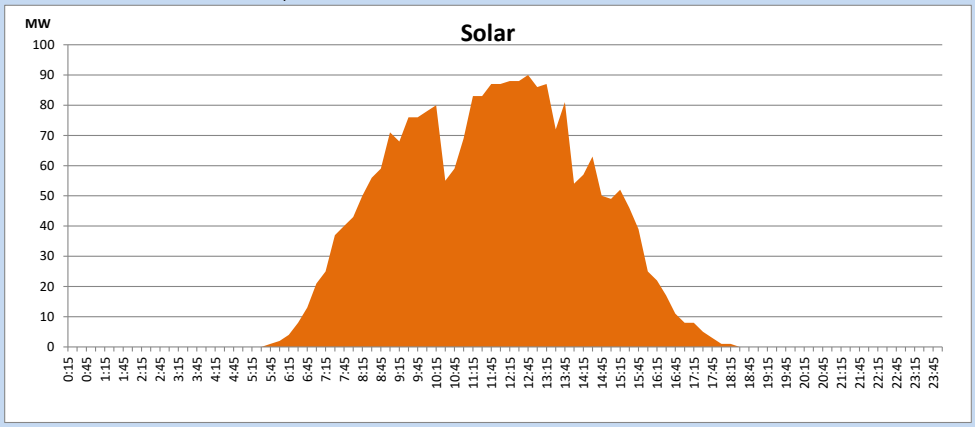
Wind Generation during May 29, 2024

Based on Telemetered Power Stations only

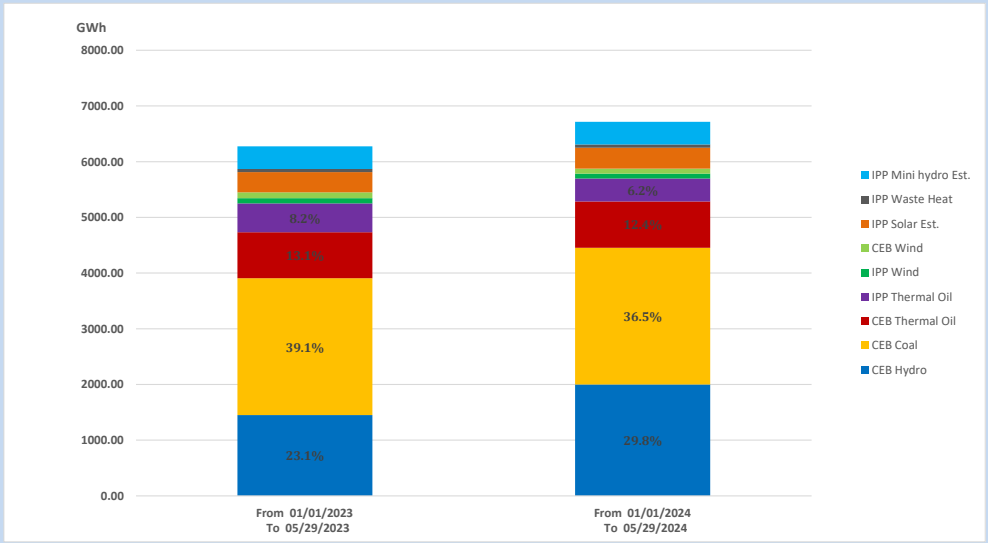


Solar Generation during May 29, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/29/2023 **6276 GWh**

From 01/01/2024 To 05/29/2024 **6715 GWh**

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

Unserved 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 May 29, 2024

1) Mathugama GSS 132/33kV T/F 01 and 03 tripped from both ends at 06:25hrs due to the operation of overcurrent protection and at the same time 33kV BS CB tripped due to the operation of erath fault protection casusing 33kV B/S 01 to be dead. At the same time Kukule unit 01 and 02 tripped rejecting 78MW from the system. Mathugama GSS 132/33kV 01 & 03, 33kV B/S CB and all affected feeders were normalized by 06:56hrs. Kukule unit 01 and 02 resumed generation at 06:57hrs and 07:00hrs respectively.
2) Seethawaka - Broadland 132kV cct manually switched off from Seethawaka end at 10:02hrs with the request of the O&M due to gas pressure low lockout alarm. Seethawaka - Broadland 132kV cct was normalized at 19:18hrs.
3) Laxapana pond & Norton pond spilled intermittently and spilling continues to the present hour.
4) Upper Kotmale pond and Kukule Ganga pond spilling continues to the present hour.