

# Generation and Reservoirs Statistics

May 30, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

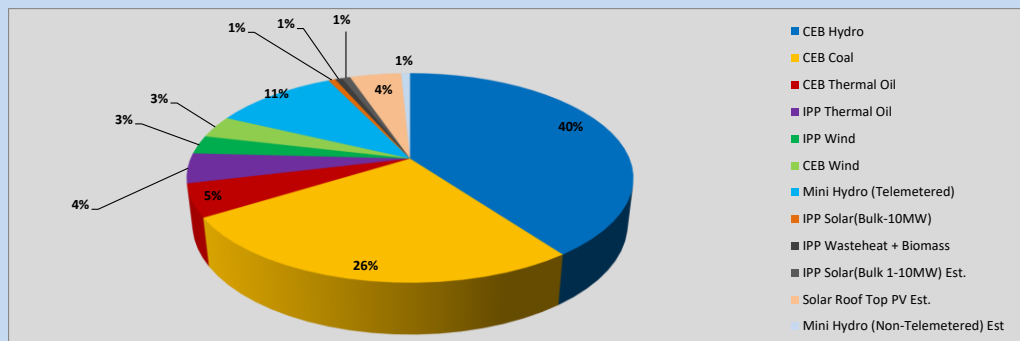


Table 01

	Generation (MWh)
CEB Hydro	19,111
CEB Coal	12,550
CEB Thermal Oil	2,429
IPP Thermal Oil	2,202
IPP Wind	1,361
CEB Wind	1,638
Mini Hydro (Telemetered)	5,143
IPP Solar (Bulk)	292
IPP Waste heat + Biomass	288
<b>Total Generation (Excluding estimated figures)</b>	<b>45,014</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	371
* Estimated IPP Solar PV (Bulk 1-10MW)	344
* Estimated Solar Roof Top PV	2130
<b>Total Generation (Including estimated figures)</b>	<b>47,859</b>

\* 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	379	28.06%
CEB Coal	506	37.42%
CEB Thermal Oil	207	15.34%
IPP Thermal	8	0.58%
SPP Wind	29	2.17%
CEB Wind	29	2.17%
Mini Hydro *	100	7.39%
IPP Solar *	82	6.07%
IPP Waste heat + BMP	11	0.80%
<b>Total</b>	<b>1,351</b>	

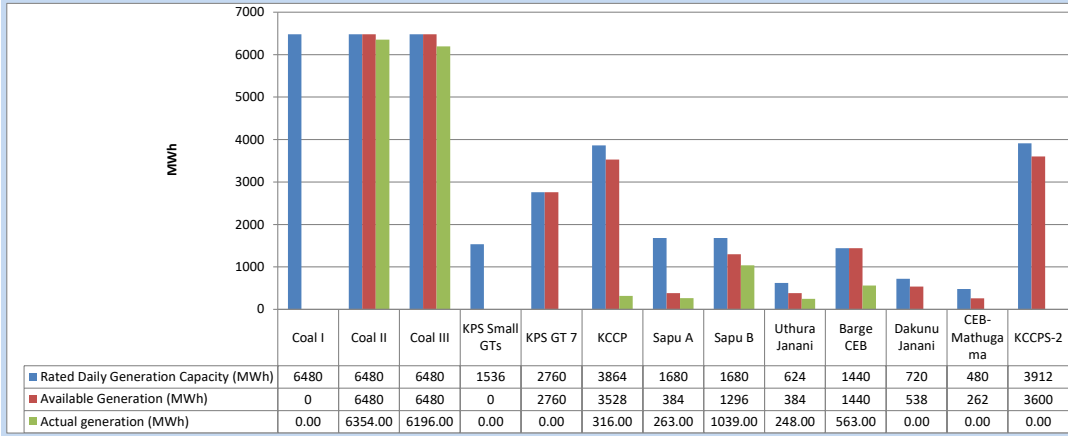
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,020	29.87%
CEB Coal	2,466	36.47%
CEB Thermal Oil	833	12.31%
IPP Thermal	416	6.14%
SPP Wind	87	1.28%
CEB Wind	93	1.37%
Mini Hydro *	411	6.07%
IPP Solar *	378	5.59%
IPP Waste heat	60	0.88%
<b>Total</b>	<b>6,763</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

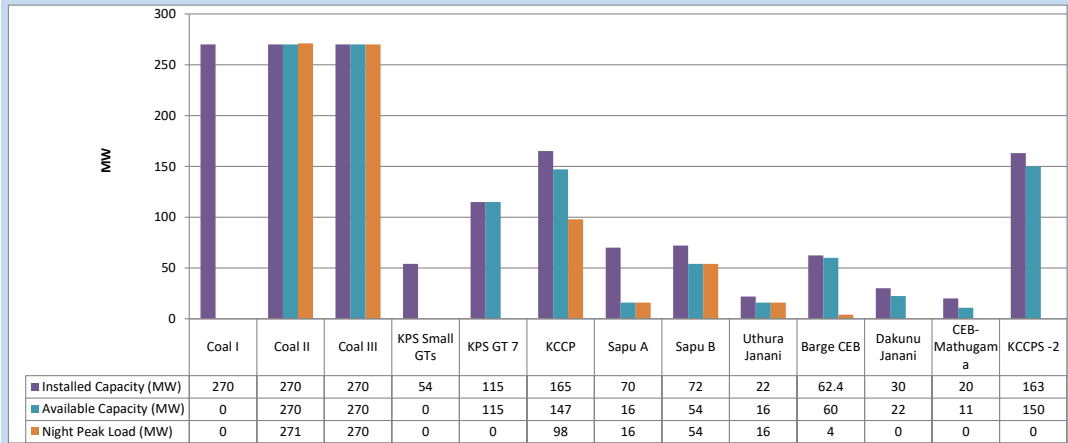
May 30, 2024



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

May 31, 2024

### 4. CEB owned Thermal Plant Loading at the Night Peak

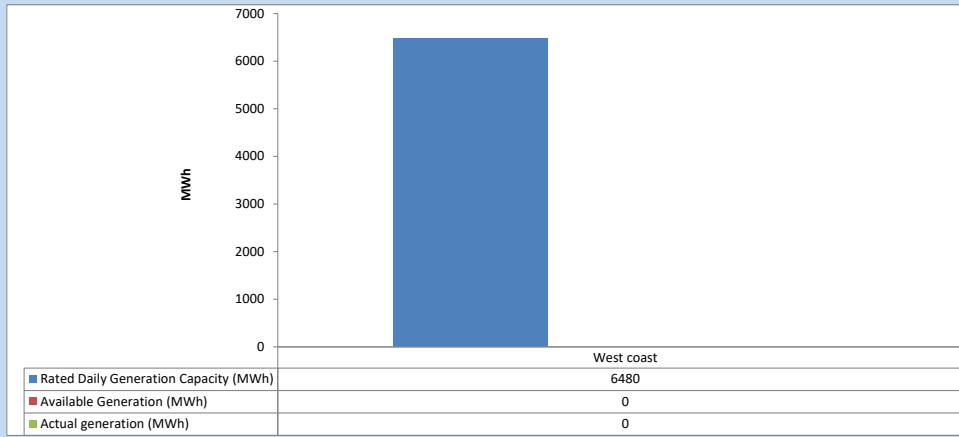


Plant availability is recorded at 6.00 am on

May 31, 2024

### 5. IPP owned Thermal Plant Dispatch

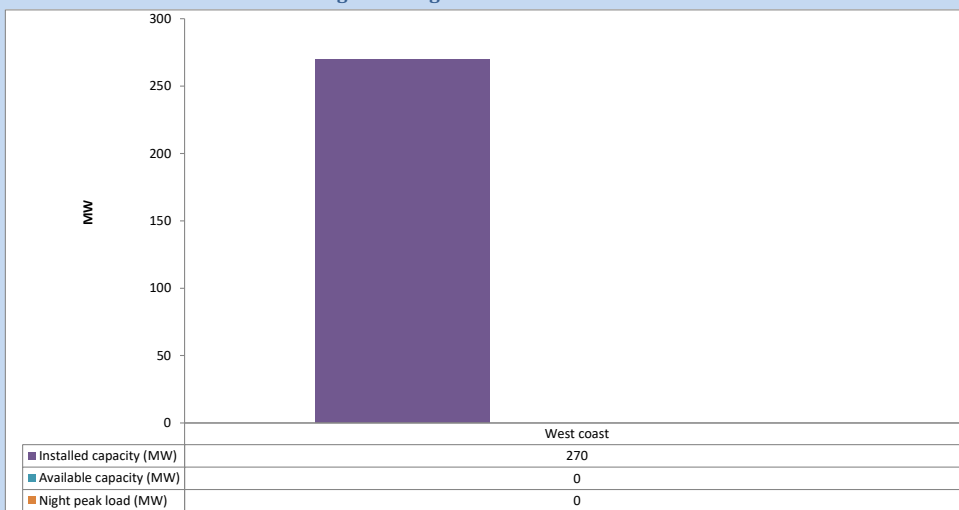
May 30, 2024



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

May 31, 2024

### 6. IPP owned Thermal Plant Loading at the Night Peak

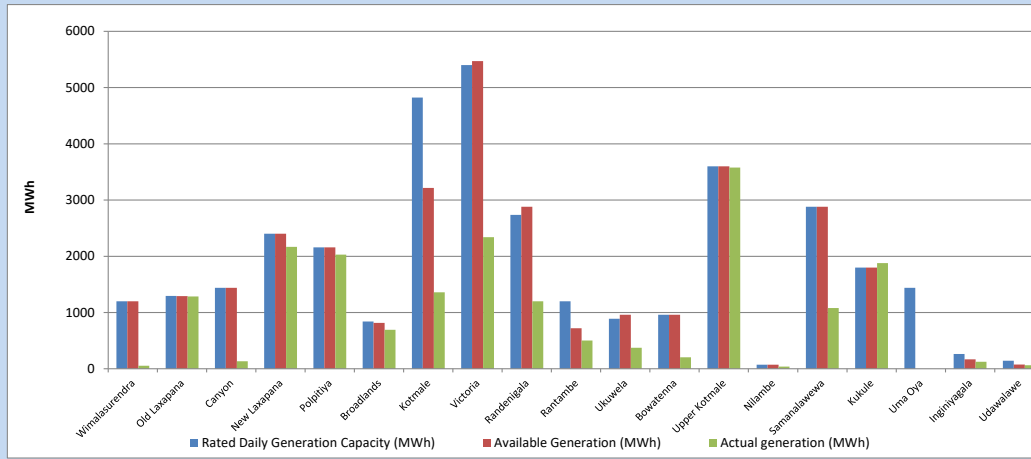


Plant availability is recorded at 6.00 am on

May 31, 2024

## 7. Major Hydro Plant Dispatch

May 30, 2024

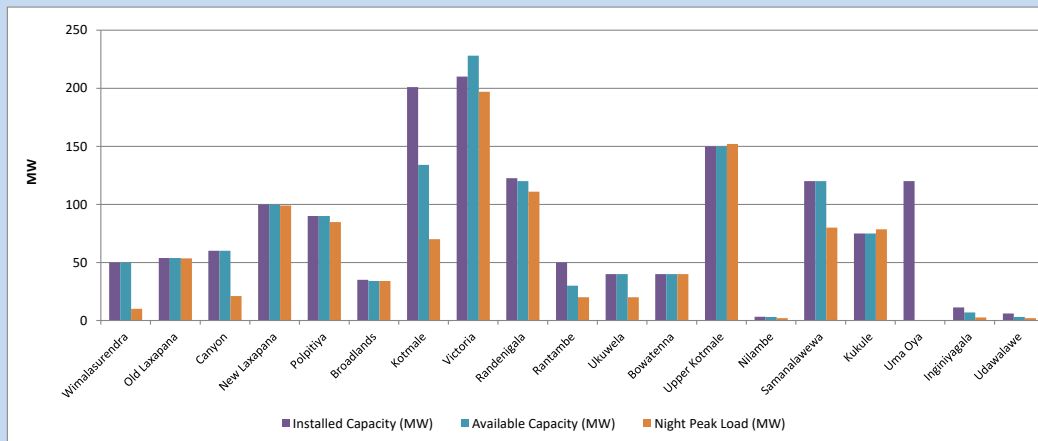


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

May 31, 2024

## 8. Major Hydro Plant Loading at Night Peak

May 30, 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	10	55
Old Laxapana	54	54	54	1,286
Canyon	60	60	21	135
New Laxapana	100	100	99	2,168
Polpitiya	90	90	85	2,030
Broadlands	35	34	34	693
Kotmale	201	134	70	1,360
Victoria	210	228	197	2,341
Randenigala	123	120	111	1,200
Rantambe	50	30	20	502
Ukuwela	40	40	20	374
Bowatenna	40	40	40	203
Upper Kotmale	150	150	152	3,579
Nilambe	3	3	2	37
Samanalawewa	120	120	80	1,079
Kukule	75	75	79	1,880
Uma Oya (Testing )	120	0	0	0
Inginiyagala	11	7	3	125
Udawalawe	6	3	2	64
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,354
Puttalam Coal III	270	270	270	6,196
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	98	316
Sapugaskanda A	70	16	16	263
Sapugaskanda B	72	54	54	1,039
Uthura Janani	22	16	16	248
Barge CEB	62	60	4	563
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	232	2,202
<b>Total</b>	<b>3,594</b>	<b>2,469</b>	<b>2,160</b>	<b>45,014</b>

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

May 30, 2024

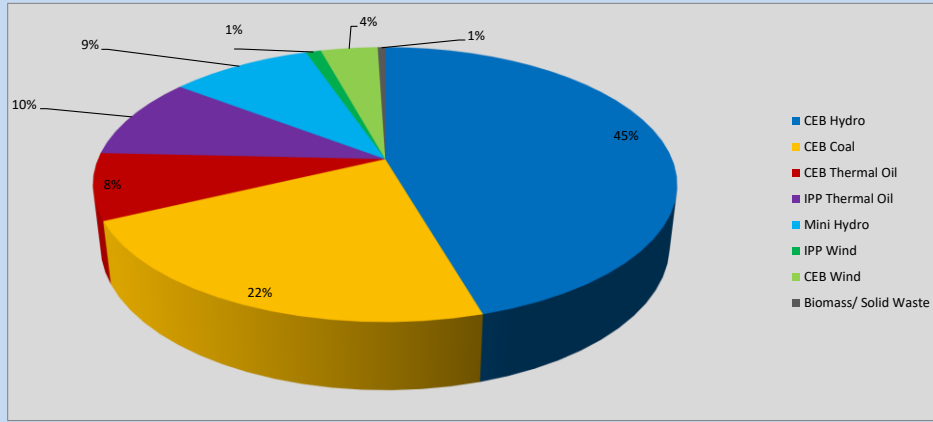


Table 06

CEB Hydro	1097	MW
CEB Coal	541	MW
CEB Thermal Oil	188	MW
IPP Thermal Oil	232	MW
Mini Hydro (Telemetered)	226	MW
IPP Wind	24.3	MW
CEB Wind	91	MW
Biomass/ Solid Waste	12	MW

### Recorded Peak Demand Data

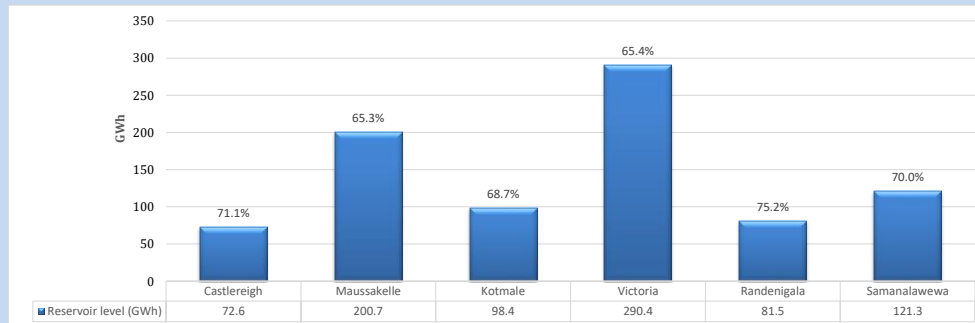
Table 07

Night Peak*	2,411	MW
Day Peak Maximum Demand	2,217	MW
Day Peak Minimum Demand	1,743	MW
Off Peak Minimum Demand	1,405	MW

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

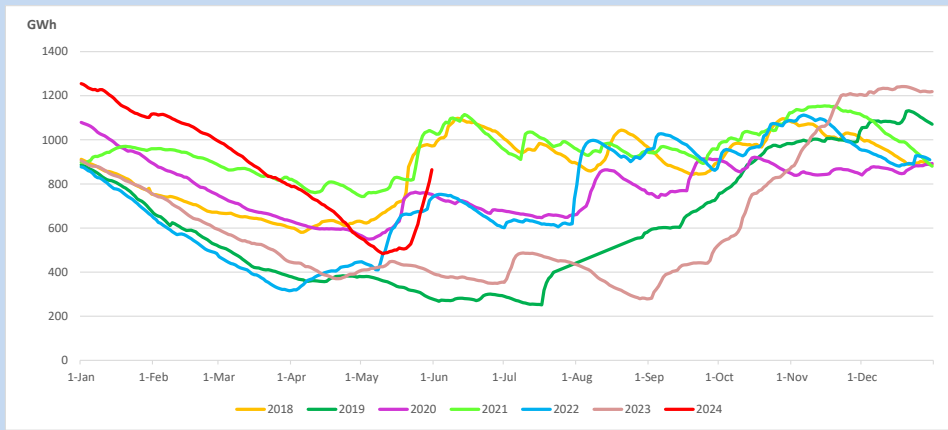
### Reservoir Levels -

as at 06.00 Hr on May 31, 2024

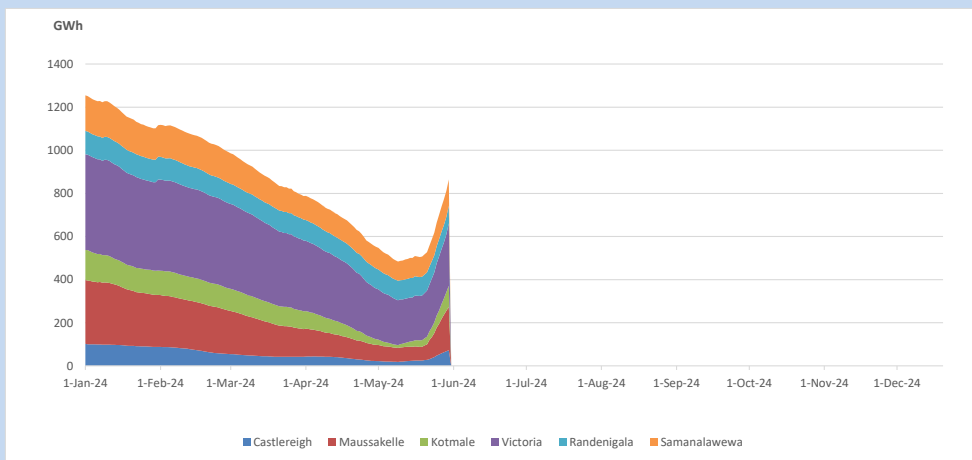


Total Reservoir Level 864.9 GWh  
% of Total capacity 67.7%

### 11. Comparison of Total Reservoir Storage Levels with Past Years

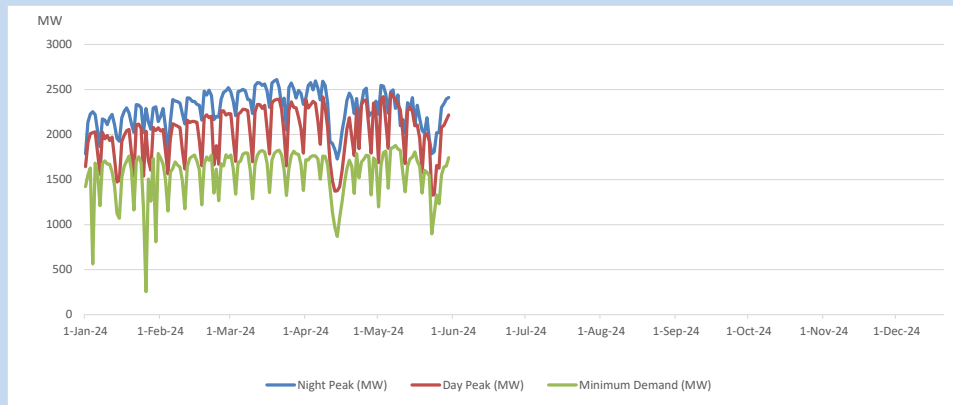


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





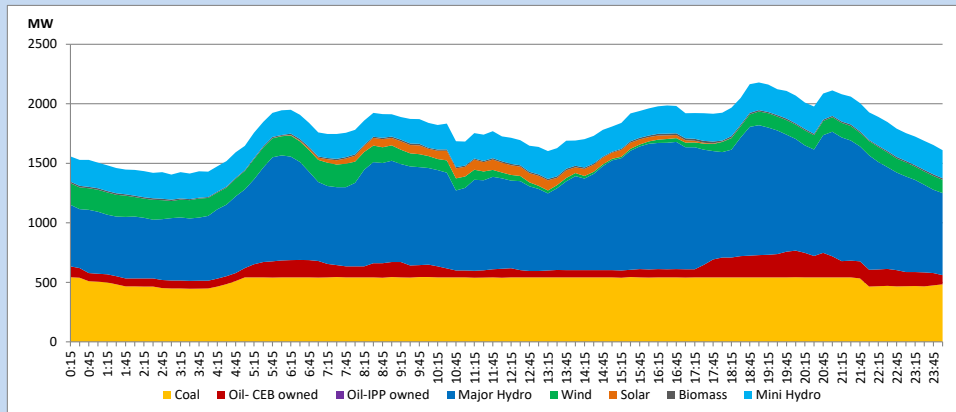
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

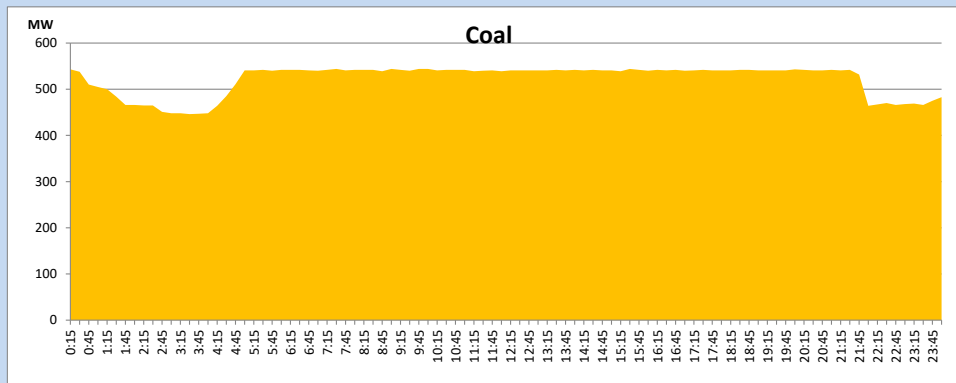
May 30, 2024



Solar and wind data is based on Telemetered Power Stations only

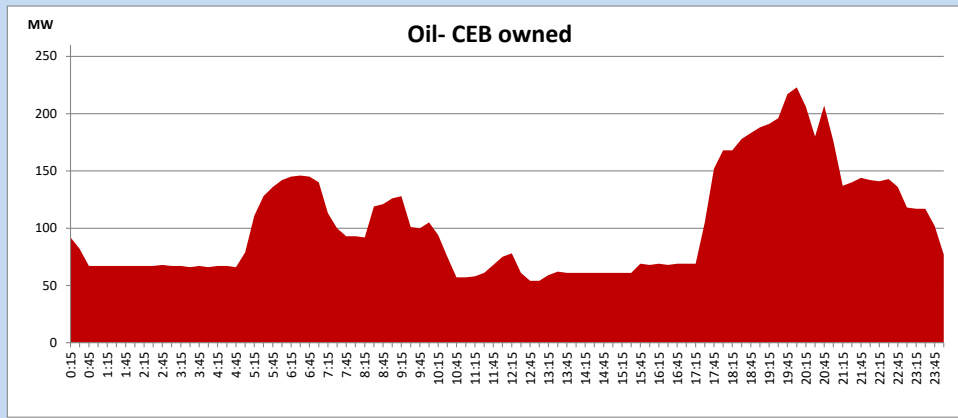
### Coal Generation during

May 30, 2024



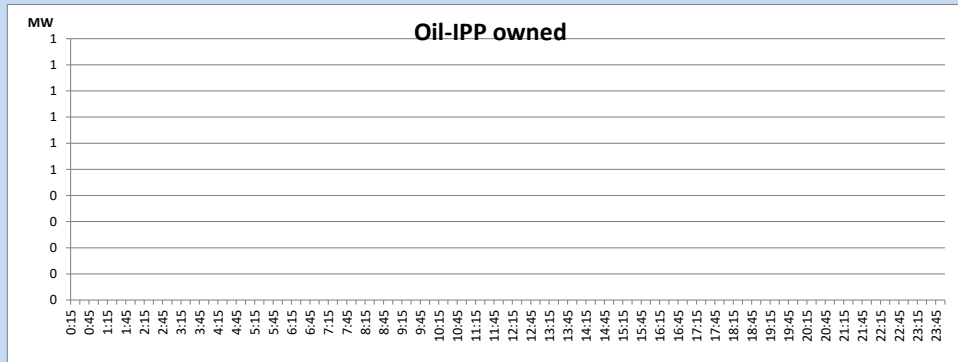
CEB Oil Plant Generation during

May 30, 2024



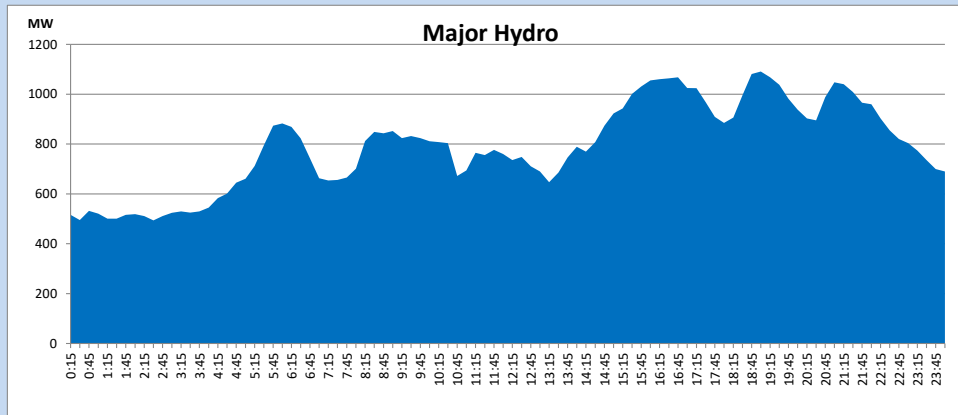
IPP Oil Plant Generation during

May 30, 2024



Major Hydro Generation during

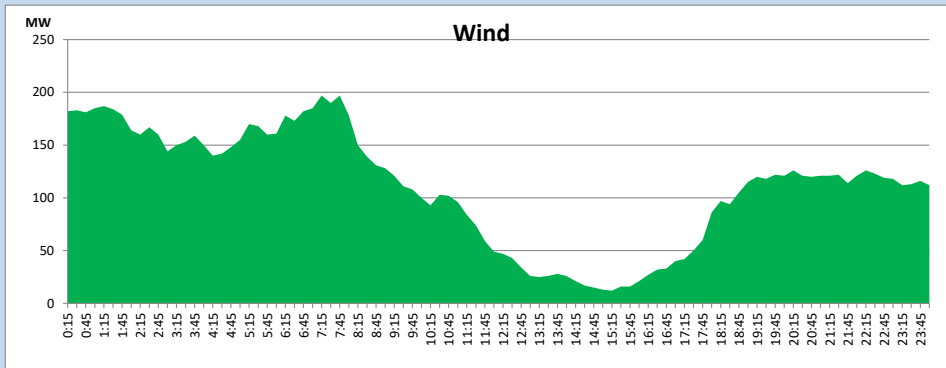
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## Wind Generation during

May 30, 2024

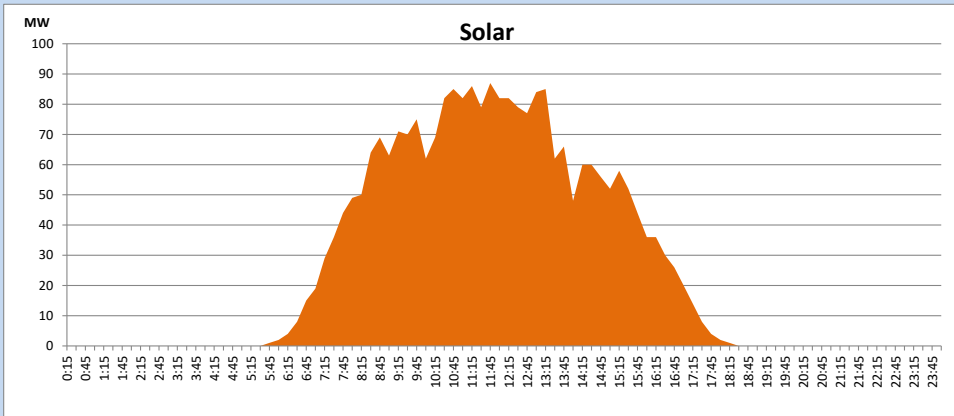
Based on Telemetered Power Stations only



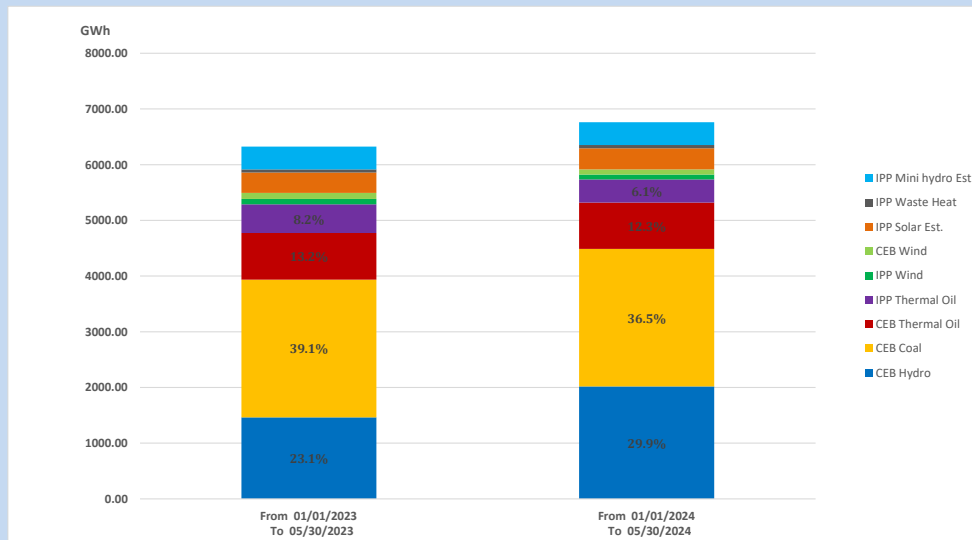
## Solar Generation during

May 30, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 05/30/2023

6325 GWh

From 01/01/2024 To 05/30/2024

6763 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

May 30, 2024

- 1) Power Barge made a forced shutdown at 11:11hrs due to a boiler drain tank leak. The plant resumed generation at 18:15hrs.
- 2) Broadlands unit 02 tripped at 11:35hrs due to cooling water pressure drop, rejecting 10.5MW from the system. The unit resumed generation at 17:09hrs.
- 3) Sobadhanavi GT full load (230MW) rejection test was carried out at 20:42hrs. The System recovered with the operation of UFLS stage I. All affected feeders were normalized by 20:46hrs.
- 3) Laxapana, Canyon, Norton, & Broadland ponds spilled intermittently and spilling stopped at 03:54hrs (31.05.2024), 12:24hrs, 13:20hrs and 23:38hrs respectively.
- 4) Upper Kotmale and Kukule Ganga ponds spilling continues to the present hour.