

# Generation and Reservoirs Statistics

July 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

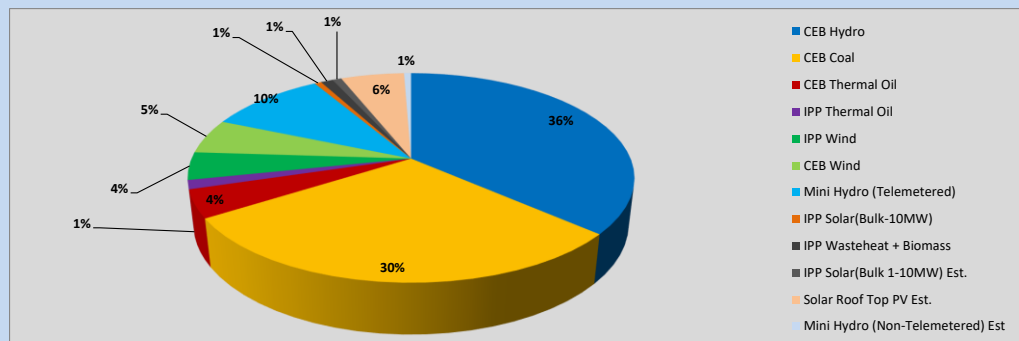


Table 01

	Generation (MWh)
CEB Hydro	14,424
CEB Coal	11,736
CEB Thermal Oil	1,709
IPP Thermal Oil	548
IPP Wind	1,690
CEB Wind	2,124
Mini Hydro (Telemetered)	4,011
IPP Solar (Bulk)	233
IPP Waste heat + Biomass	417
<b>Total Generation (Excluding estimated figures)</b>	<b>36,892</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	242
* Estimated IPP Solar PV (Bulk 1-10MW)	310
* Estimated Solar Roof Top PV	2170
<b>Total Generation (Including estimated figures)</b>	<b>39,614</b>

\* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1533
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	326
Rooftop Solar (LT Bulk)	285
Rooftop Solar (HT Bulk)	79

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	113	35.11%
CEB Coal	102	31.53%
CEB Thermal Oil	21	6.62%
IPP Thermal	11	3.50%
SPP Wind	12	3.81%
CEB Wind	14	4.20%
Mini Hydro *	26	8.09%
IPP Solar *	20	6.26%
IPP Waste heat + BMP	3	0.88%
<b>Total</b>	<b>323</b>	

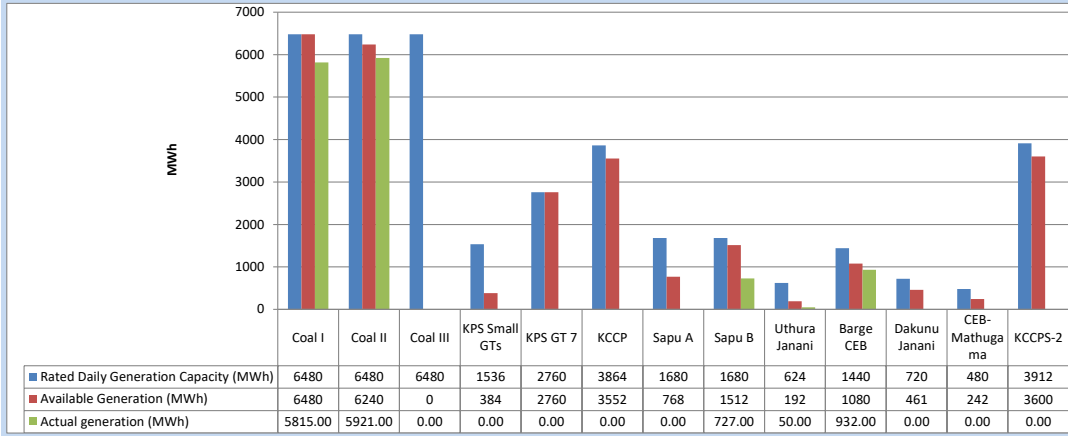
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,621	30.74%
CEB Coal	3,106	36.43%
CEB Thermal Oil	838	9.83%
IPP Thermal	445	5.22%
SPP Wind	164	1.93%
CEB Wind	170	1.99%
Mini Hydro *	575	6.75%
IPP Solar *	527	6.18%
IPP Waste heat	80	0.94%
<b>Total</b>	<b>8,526</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

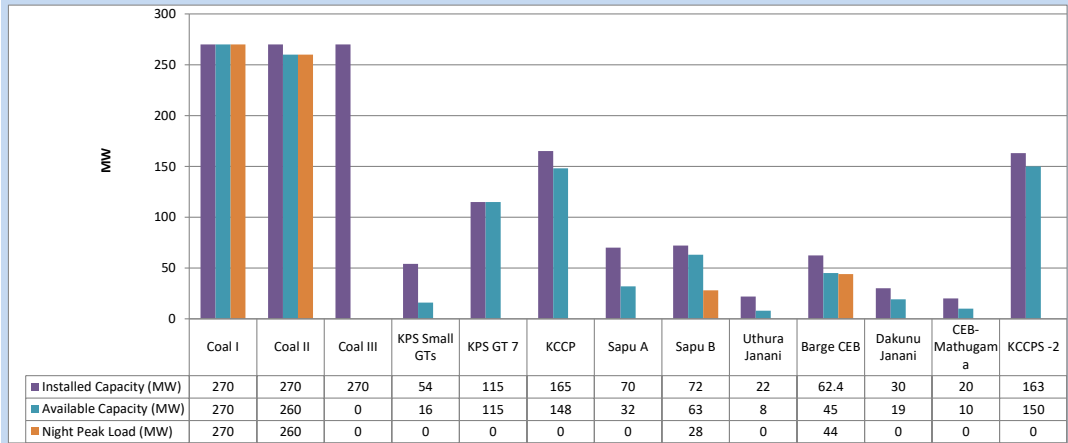
July 7, 2024



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

July 8, 2024

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

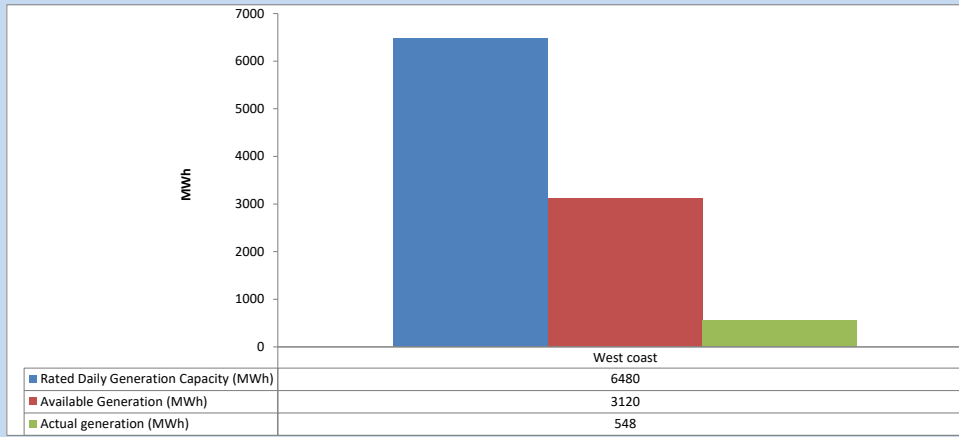


Plant availability is recorded at 6.00 am on

July 8, 2024

### 5. IPP owned Thermal Plant Dispatch

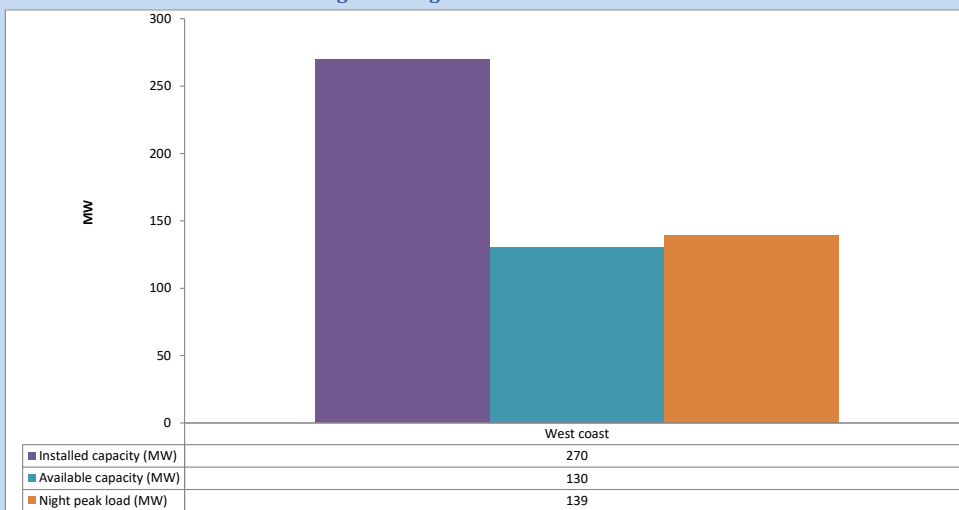
July 7, 2024



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

July 8, 2024

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

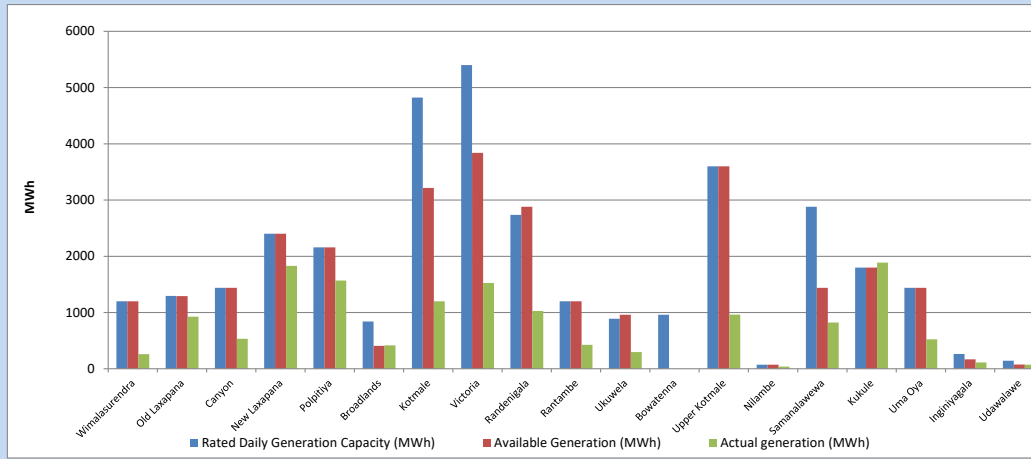


Plant availability is recorded at 6.00 am on

July 8, 2024

## 7. Major Hydro Plant Dispatch

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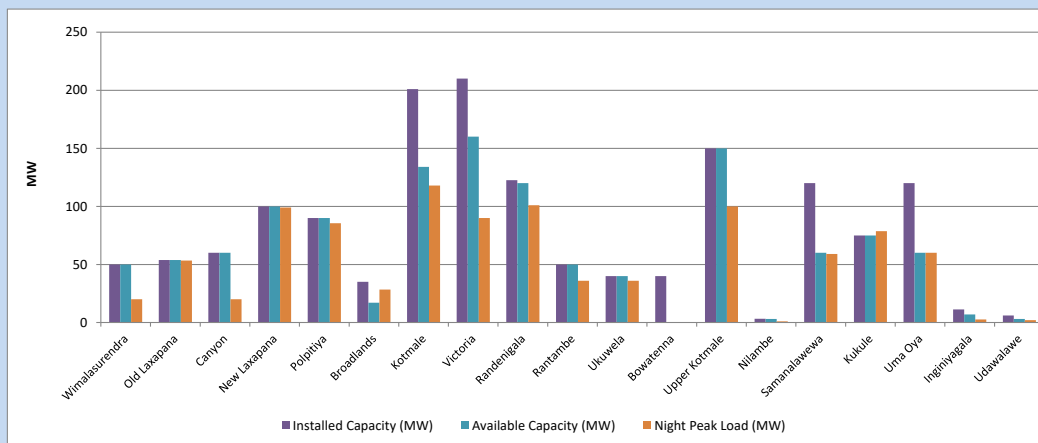


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

July 8, 2024

## 8. Major Hydro Plant Loading at Night Peak

July 7, 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	259
Old Laxapana	54	54	53	927
Canyon	60	60	20	533
New Laxapana	100	100	99	1,831
Polpitiya	90	90	86	1,570
Broadlands	35	17	28	415
Kotmale	201	134	118	1,200
Victoria	210	160	90	1,524
Randenigala	123	120	101	1,029
Rantambe	50	50	36	424
Ukuwela	40	40	36	296
Bowatenna	40	0	0	0
Upper Kotmale	150	150	100	962
Nilambe	3	3	1	37
Samanalawewa	120	60	59	821
Kukule	75	75	79	1,888
Uma Oya (Testing )	120	60	60	525
Inginiyagala	11	7	3	113
Udawalawe	6	3	2	71
Puttalam Coal I	270	270	270	5,815
Puttalam Coal II	270	260	260	5,921
Puttalam Coal III	270	0	0	0
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	28	727
Uthura Janani	22	8	0	50
Barge CEB	62	45	44	932
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	10	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	139	548
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
<b>Total</b>	<b>3,594</b>	<b>2,499</b>	<b>2,103</b>	<b>36,893</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

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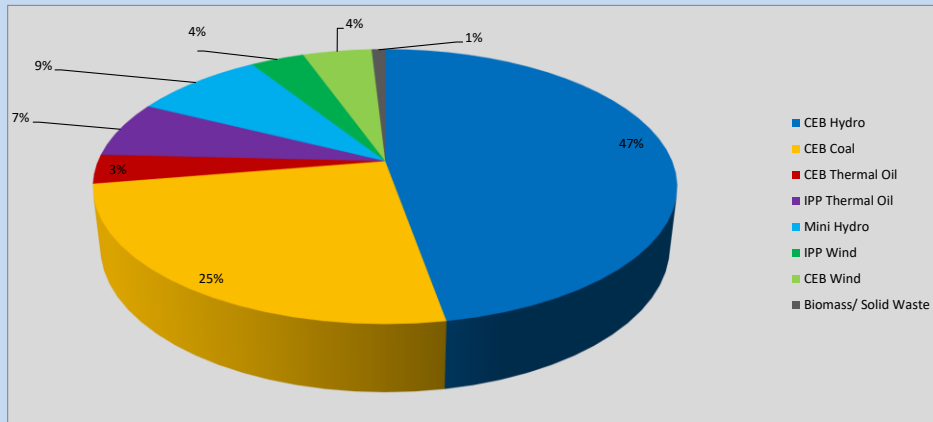


Table 06

CEB Hydro	995	MW
CEB Coal	530	MW
CEB Thermal Oil	72	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	181	MW
IPP Wind	75.2	MW
CEB Wind	96.1	MW
Biomass/ Solid Waste	19	MW

### Recorded Peak Demand Data

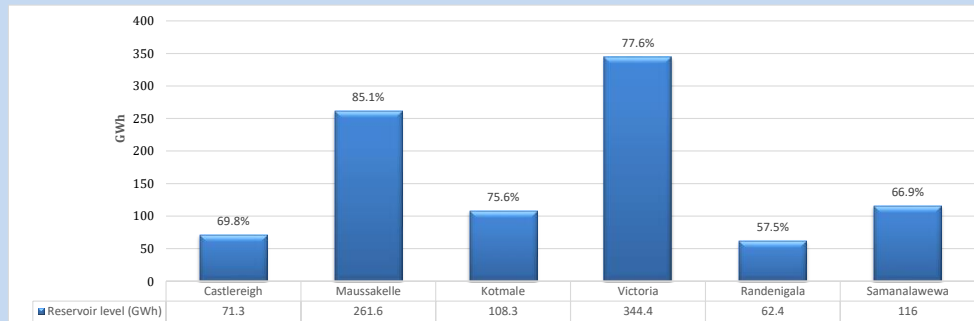
Table 07

Night Peak*	2,108	MW
Day Peak Maximum Demand	1,626	MW
Day Peak Minimum Demand	1,296	MW
Off Peak Minimum Demand	1,363	MW

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

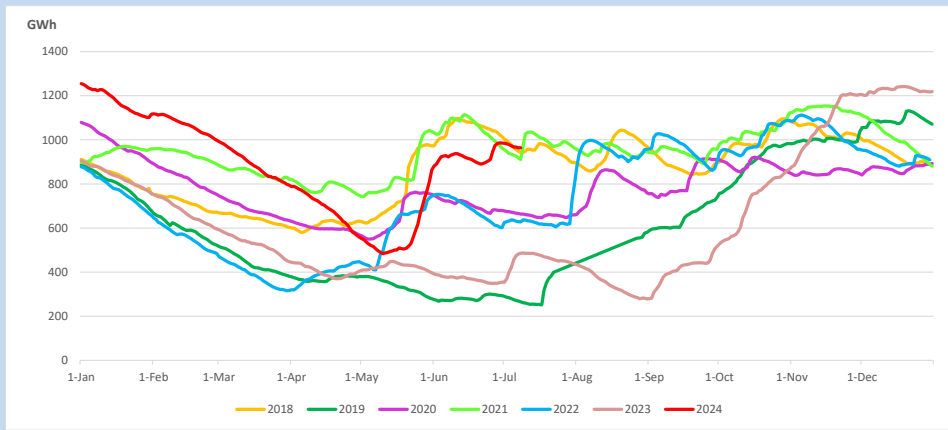
### Reservoir Levels -

as at 06.00 Hr on July 8, 2024

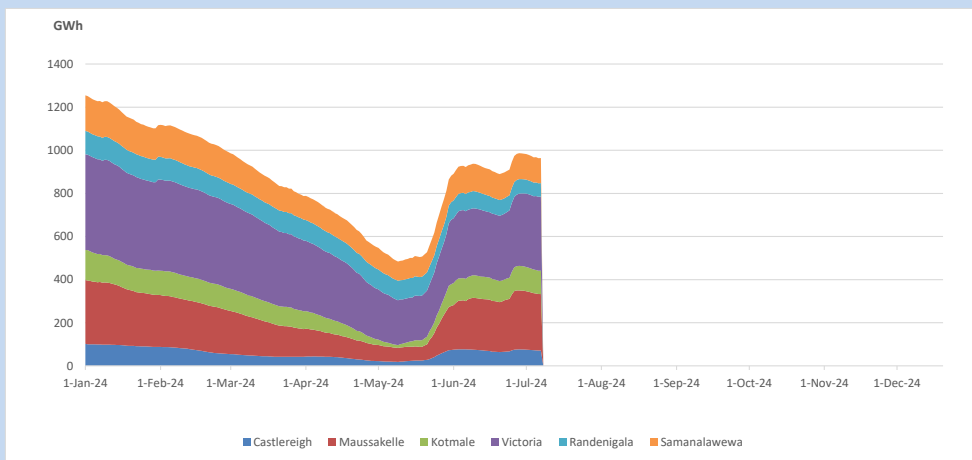


Total Reservoir Level 964 GWh  
% of Total capacity 75.4%

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

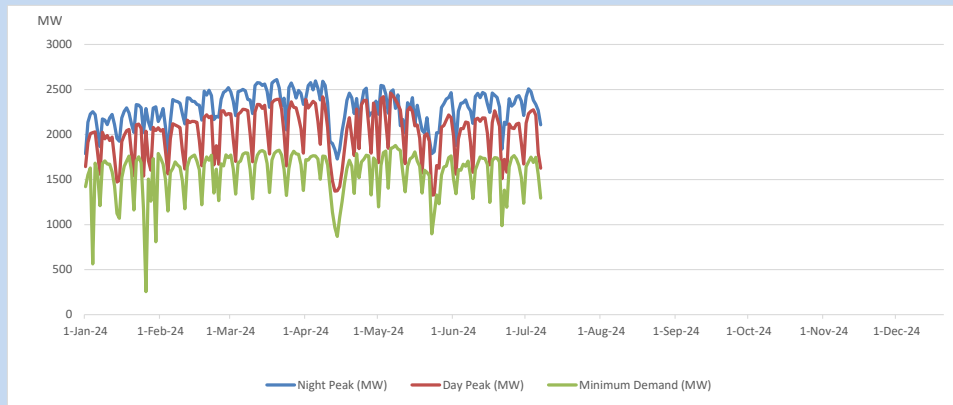


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





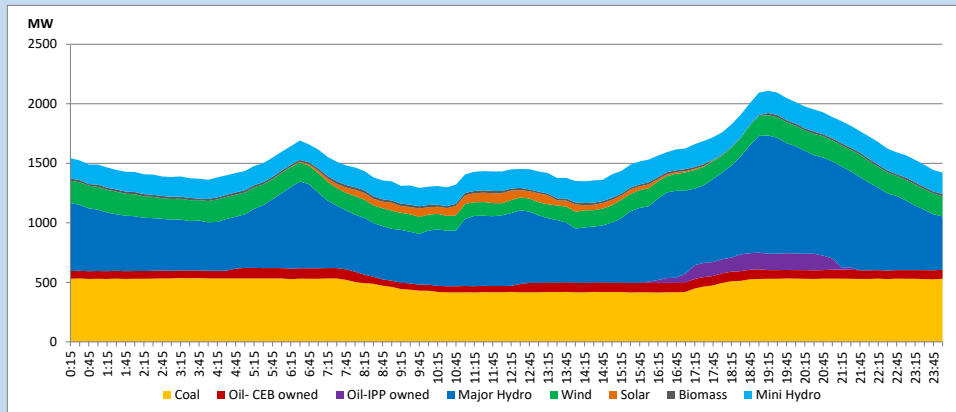
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

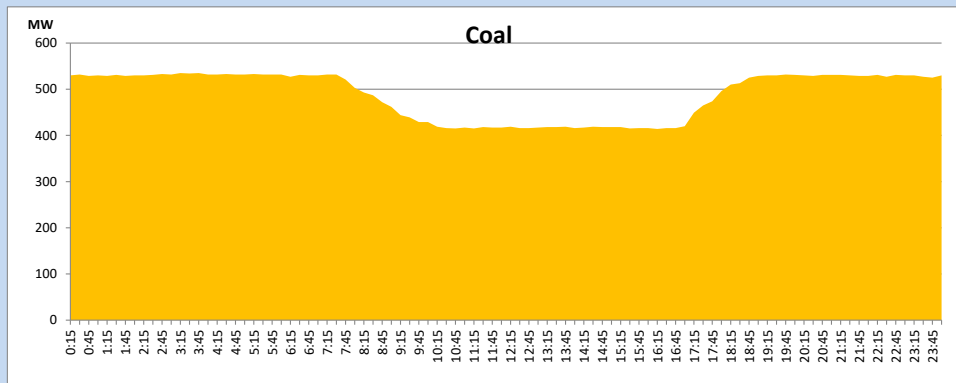
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Solar and wind data is based on Telemetered Power Stations only

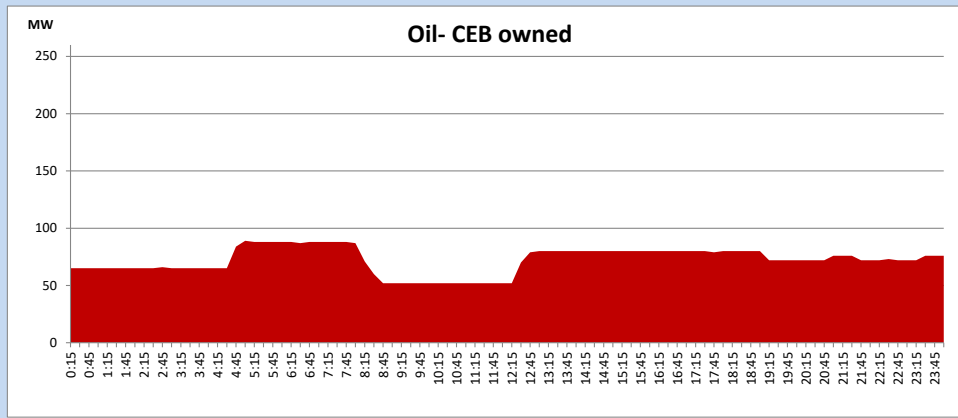
### Coal Generation during

July 7, 2024



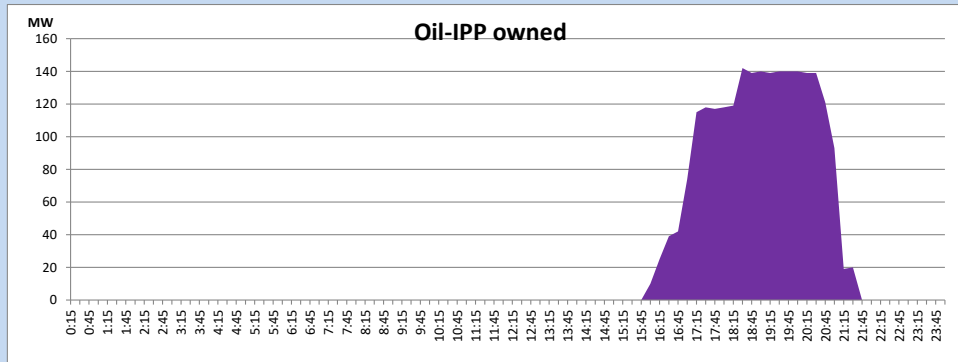
CEB Oil Plant Generation during

July 7, 2024



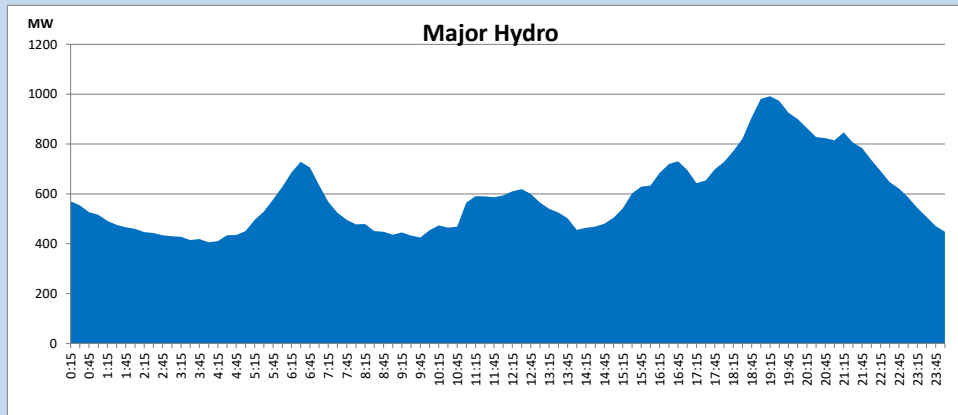
IPP Oil Plant Generation during

July 7, 2024



Major Hydro Generation during

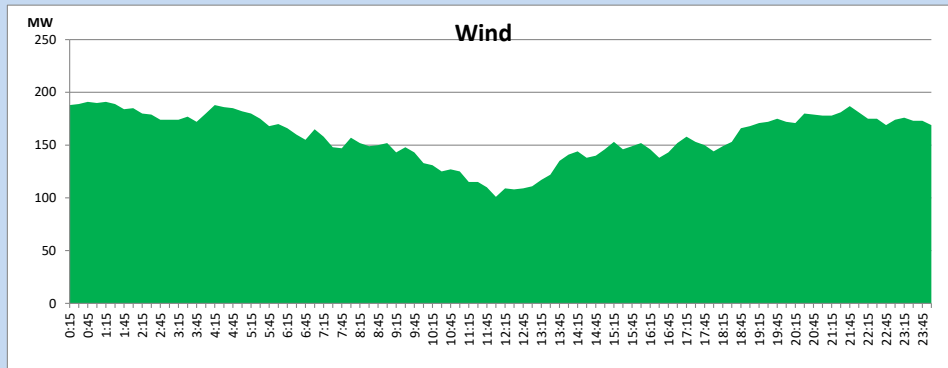
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## Wind Generation during

July 7, 2024

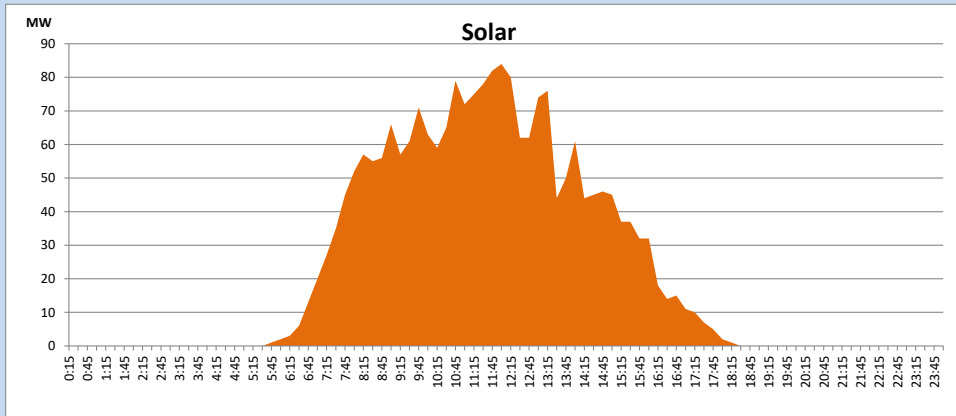
Based on Telemetered Power Stations only



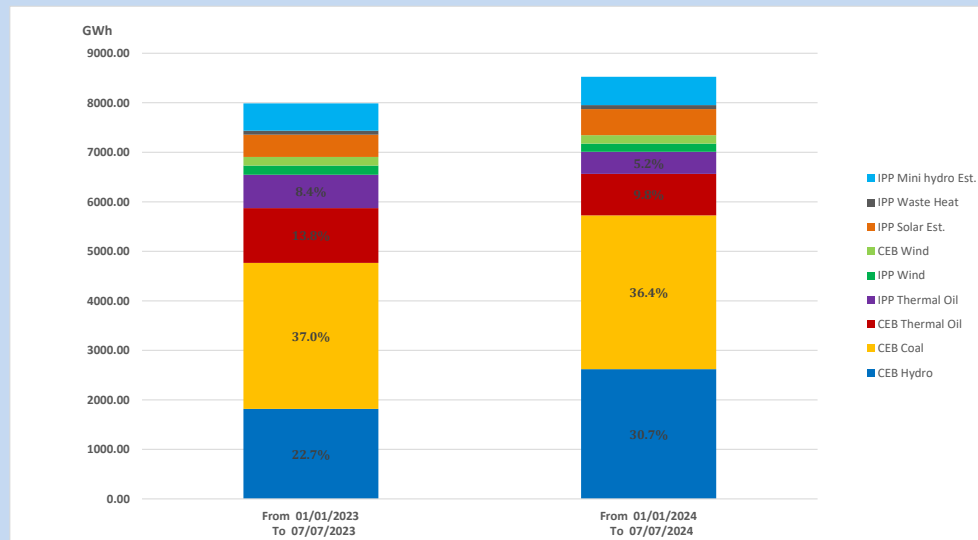
## Solar Generation during

July 7, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 07/07/2023

7988 GWh

From 01/01/2024 To 07/07/2024

8526 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

July 7, 2024

- 1) Thulhiriya 132/33kV T/F 02, which was tripped on 05.07.2024 was normalized at 16:31hrs and tripped again from both ends at 16:45hrs, with the indication of REF The T/F is yet to be normalized.
- 2) Kelanitissa - Biyagama 220kV cct 01 and 02 manually switched off at 20:37hrs as per the request of the cable maintenance unit for an inspection. Both ccts are yet to be normalized.