

# Generation and Reservoirs Statistics

April 24, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

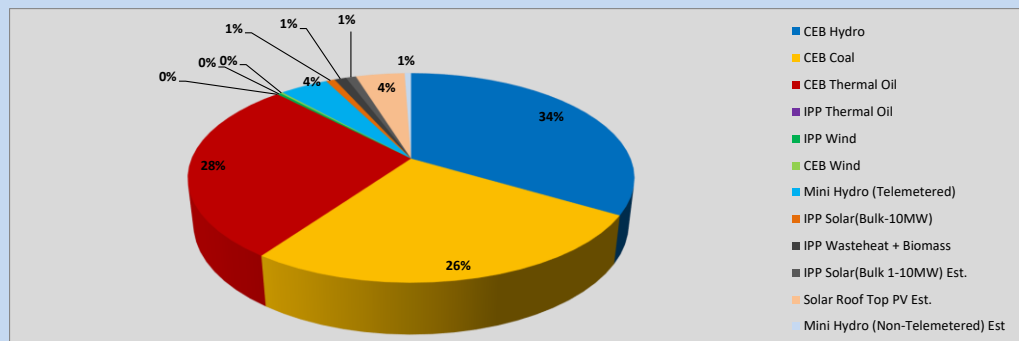


Table 01

	Generation (MWh)
CEB Hydro	16,428
CEB Coal	12,913
CEB Thermal Oil	13,741
IPP Thermal Oil	-
IPP Wind	151
CEB Wind	108
Mini Hydro (Telemetered)	2,051
IPP Solar (Bulk)	375
IPP Waste heat + Biomass	503
<b>Total Generation (Excluding estimated figures)</b>	<b>46,270</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	273
* Estimated IPP Solar PV (Bulk 1-10MW)	428
* Estimated Solar Roof Top PV	2080
<b>Total Generation (Including estimated figures)</b>	<b>49,051</b>

\* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

Data Source - Monthly Review Report [Nov-2023]

## 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	290	27.13%
CEB Coal	401	37.55%
CEB Thermal Oil	167	15.65%
IPP Thermal	76	7.15%
SPP Wind	7	0.68%
CEB Wind	7	0.67%
Mini Hydro *	42	3.93%
IPP Solar *	68	6.36%
IPP Waste heat + BMP	9	0.88%
<b>Total</b>	<b>1,068</b>	

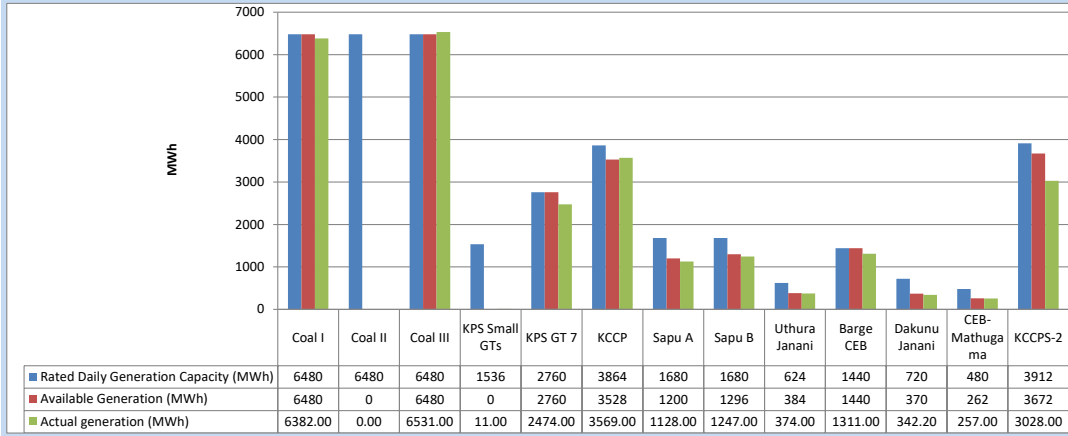
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,551	30.15%
CEB Coal	1,875	36.44%
CEB Thermal Oil	546	10.61%
IPP Thermal	408	7.92%
SPP Wind	56	1.09%
CEB Wind	62	1.21%
Mini Hydro *	321	6.24%
IPP Solar *	279	5.43%
IPP Waste heat	47	0.91%
<b>Total</b>	<b>5,146</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

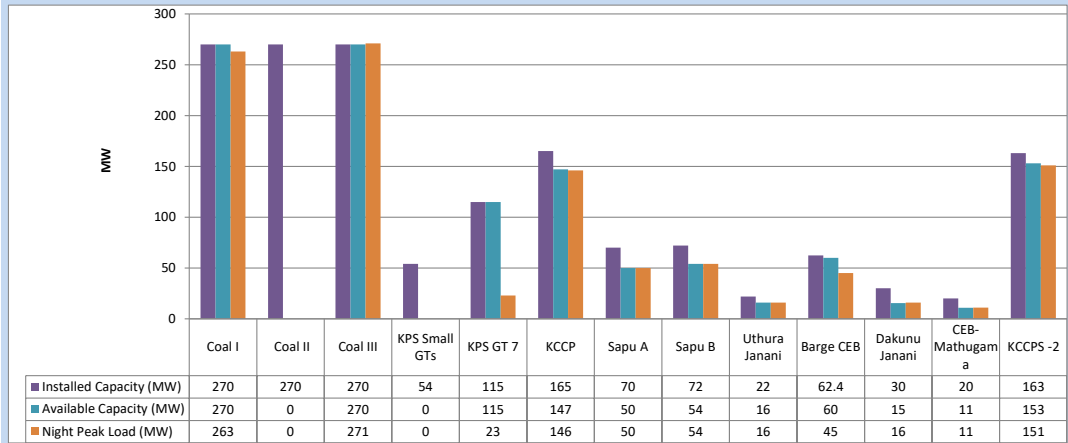
April 24, 2024



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

April 25, 2024

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

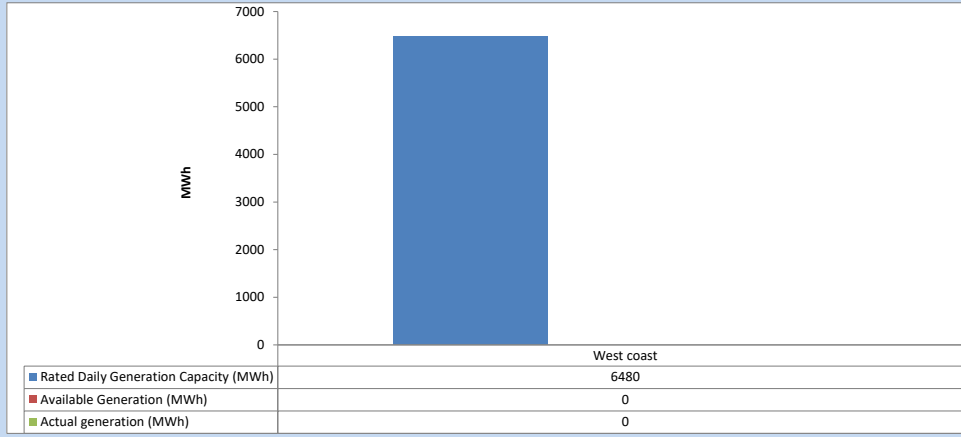


Plant availability is recorded at 6.00 am on

April 25, 2024

### 5. IPP owned Thermal Plant Dispatch

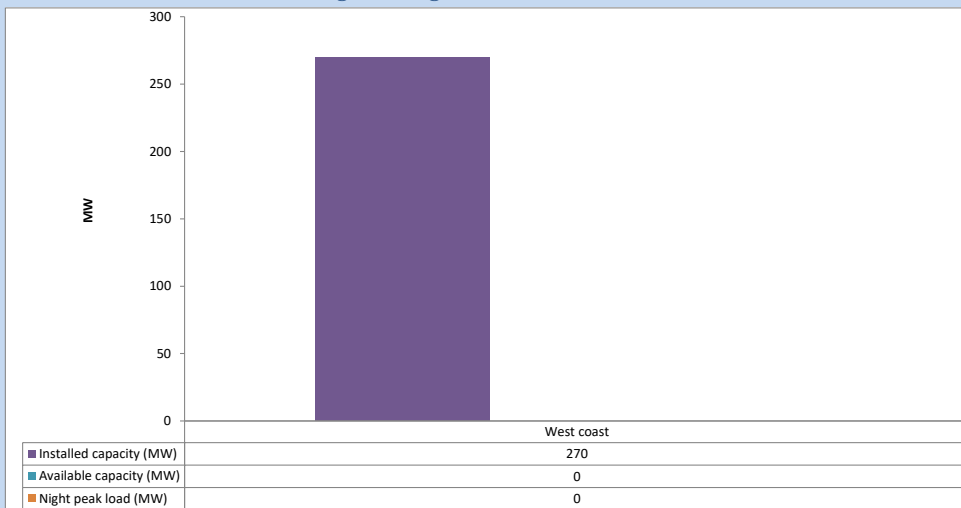
April 24, 2024



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

April 25, 2024

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

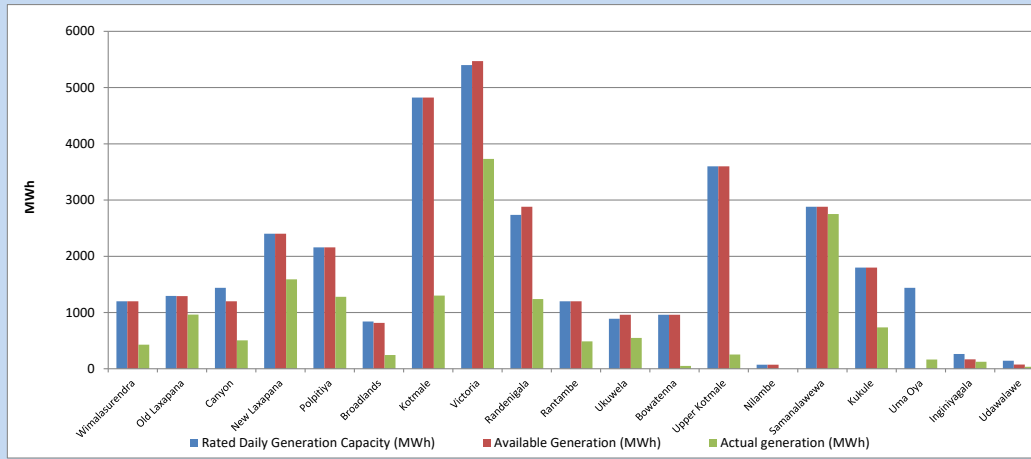


Plant availability is recorded at 6.00 am on

April 25, 2024

## 7. Major Hydro Plant Dispatch

April 24, 2024

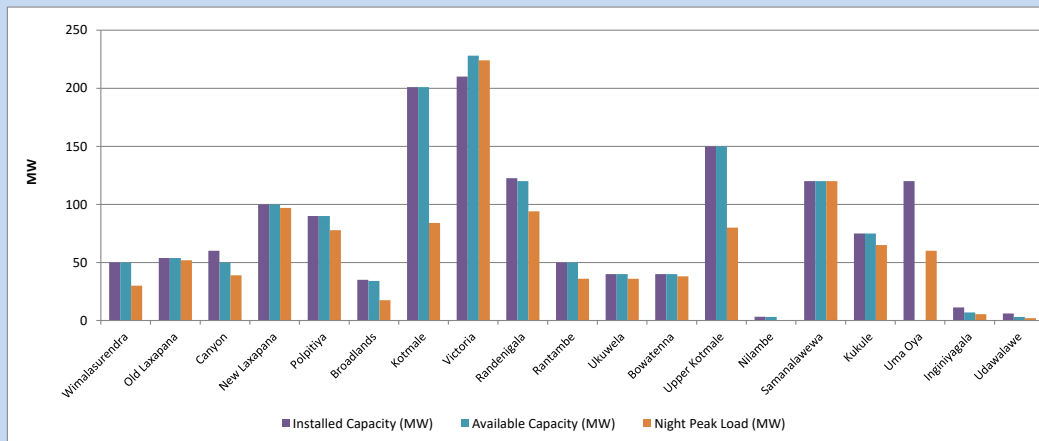


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

April 25, 2024

## 8. Major Hydro Plant Loading at Night Peak

April 24, 2024



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

April 25, 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	30	427
Old Laxapana	54	54	52	964
Canyon	60	50	39	504
New Laxapana	100	100	97	1,590
Polpitiya	90	90	78	1,280
Broadlands	35	34	18	243
Kotmale	201	201	84	1,300
Victoria	210	228	224	3,732
Randenigala	123	120	94	1,239
Rantambe	50	50	36	487
Ukuwela	40	40	36	548
Bowatenna	40	40	38	50
Upper Kotmale	150	150	80	253
Nilambe	3	3	0	0
Samanalawewa	120	120	120	2,751
Kukule	75	75	65	736
Uma Oya (Testing )	120	0	60	164
Inginiyagala	11	7	5	124
Udawalawe	6	3	2	36
Puttalam Coal I	270	270	263	6,382
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,531
KPS Small GTs	54	0	0	11
KPS GT 7	115	115	23	2,474
KCCP	165	147	146	3,569
Sapugaskanda A	70	50	50	1,128
Sapugaskanda B	72	54	54	1,247
Uthura Janani	22	16	16	374
Barge CEB	62	60	45	1,311
CEB-Hambantota	30	15	16	342
CEB-Mathugama	20	11	11	257
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	151	3,028
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
<b>Total</b>	<b>3,594</b>	<b>2,576</b>	<b>2,322</b>	<b>46,270</b>

Note-

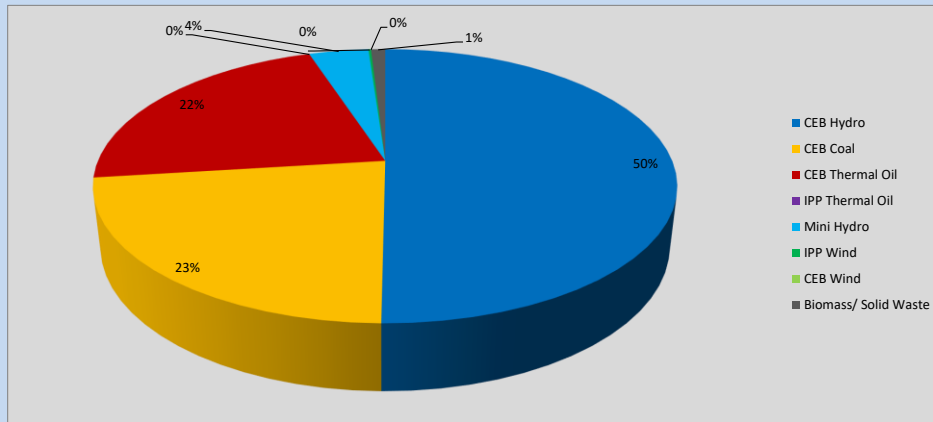
Plant availability is the availability recorded at 6 am on

April 25, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

### 10. Contribution to the Night Peak in MW

April 24, 2024



**Table 06**

CEB Hydro	1172	MW
CEB Coal	534	MW
CEB Thermal Oil	512	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	92	MW
IPP Wind	4	MW
CEB Wind	0	MW
Biomass/ Solid Waste	22	MW

### Recorded Peak Demand Data

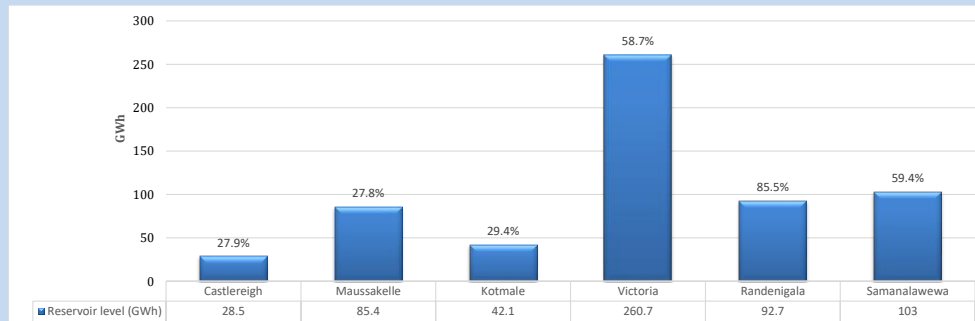
**Table 07**

Night Peak*	2,336	MW
Day Peak Maximum Demand	2,330	MW
Day Peak Minimum Demand	1,696	MW
Off Peak Minimum Demand	1,473	MW

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

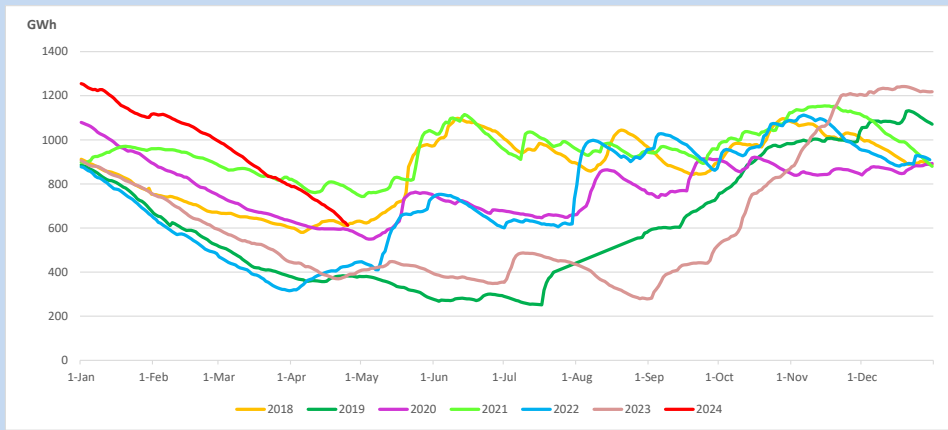
### Reservoir Levels -

as at 06.00 Hr on April 25, 2024

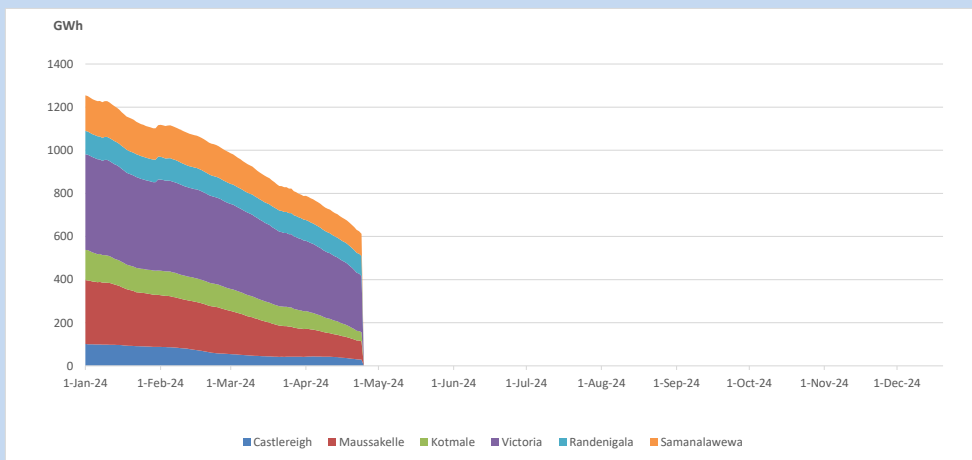


Total Reservoir Level 612.4 GWh  
% of Total capacity 47.9%

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

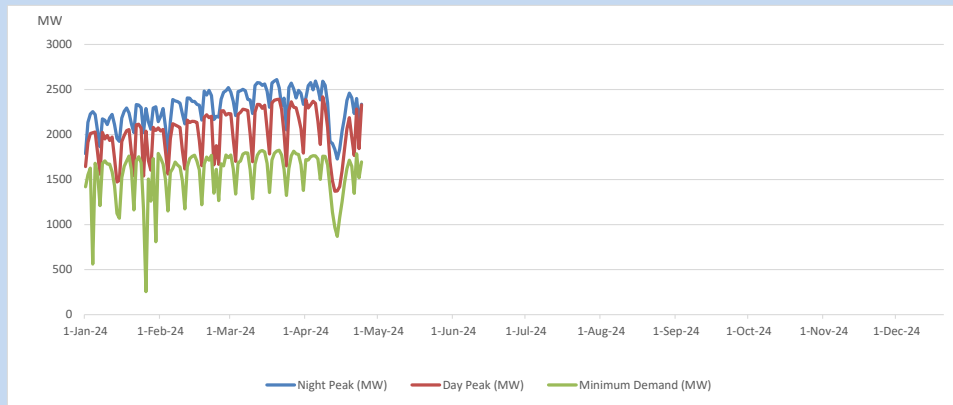


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





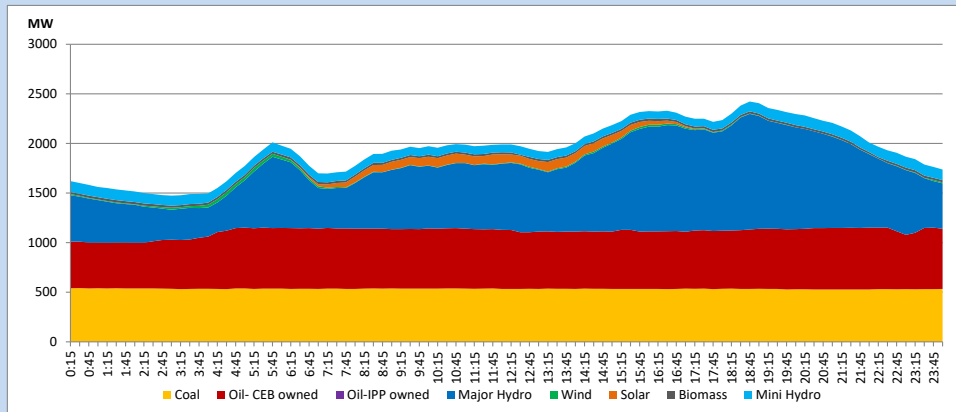
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

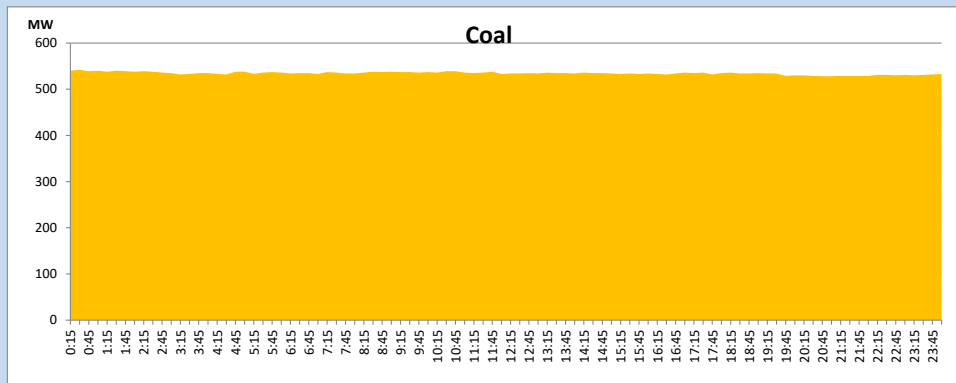
April 24, 2024



Solar and wind data is based on Telemetered Power Stations only

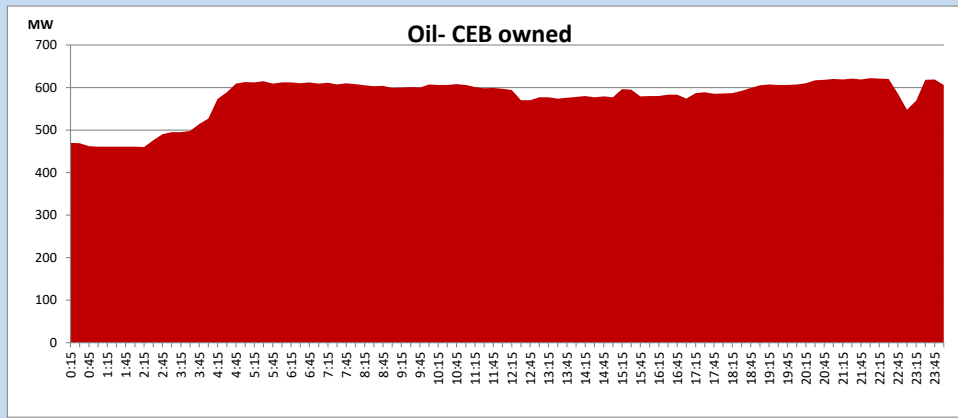
### Coal Generation during

April 24, 2024



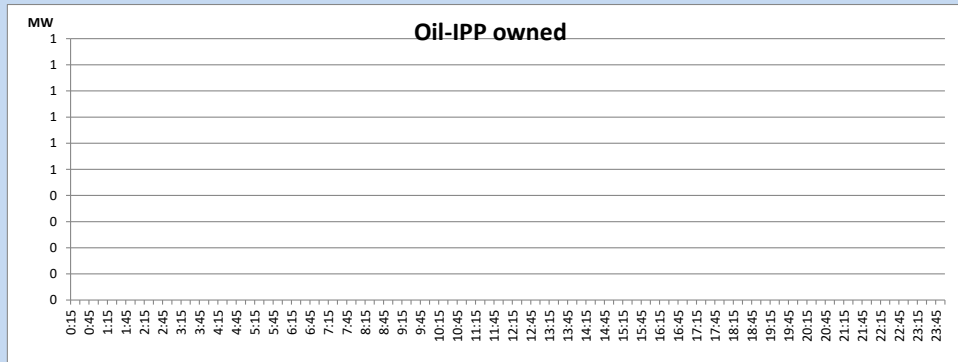
CEB Oil Plant Generation during

April 24, 2024



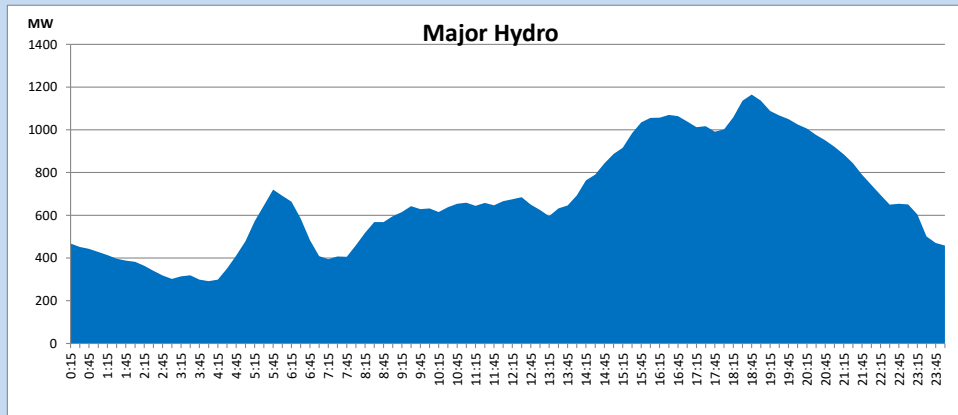
IPP Oil Plant Generation during

April 24, 2024



Major Hydro Generation during

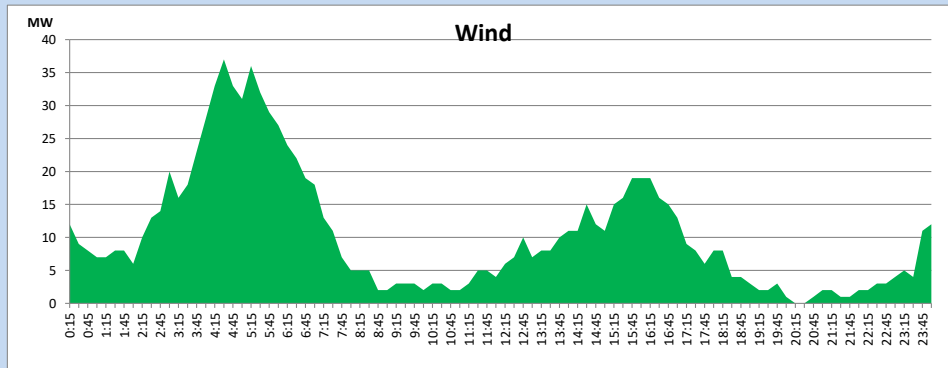
April 24, 2024



## Wind Generation during

April 24, 2024

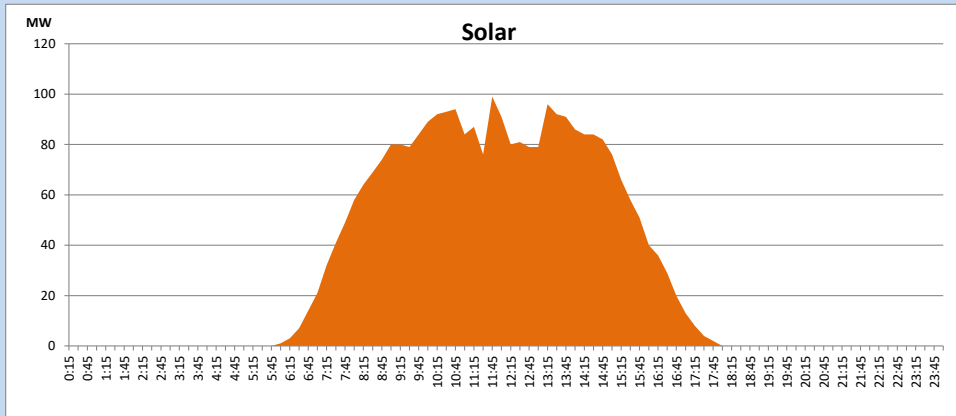
Based on Telemetered Power Stations only



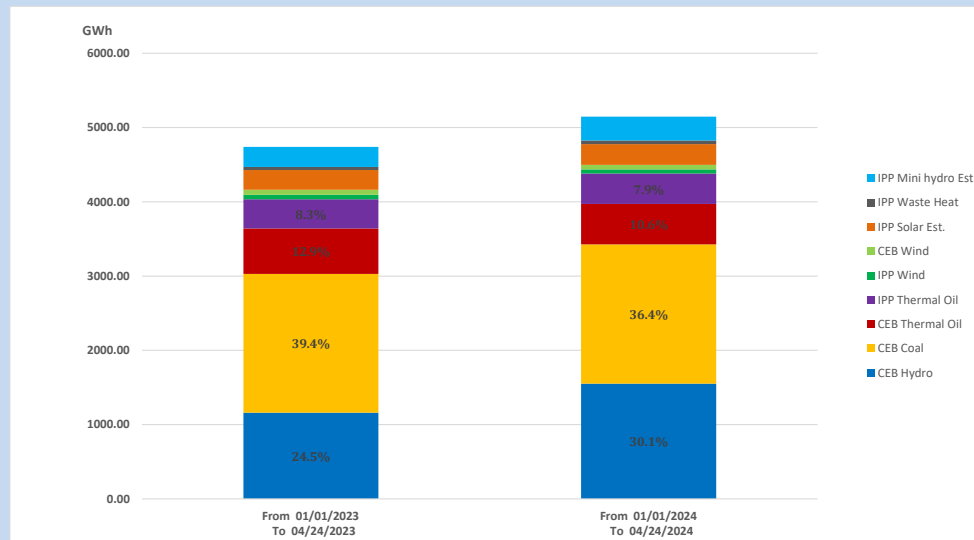
## Solar Generation during

April 24, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 04/24/2023

4739 GWh

From 01/01/2024 To 04/24/2024

5146 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

April 24, 2024

- 1) Chunnakam 132/33kV T/F 03 tripped from both ends at 13:40hrs due to the operation of differential protection. Chunnakam 132/33kV T/F 03 normalized at 16:45hrs.
- 2) KPS GT 02 tripped at 15:35hrs, rejecting 16MW from the system due to high exhaust temperature. KPS GT 02 is yet to resume generation.
- 3) Athurugiriya - Polpitiya - Thulhiriya 132kV cct tripped & A/R from all three ends at 17:31hrs due to the operation of distance protection. At the same time, Athurugiriya - New Polpitiya - Thulhiriya 132kV cct tripped & A/R from New Polpitiya & Athurugiriya ends due to the operation of distance protection.