

# Generation and Reservoirs Statistics

April 25, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

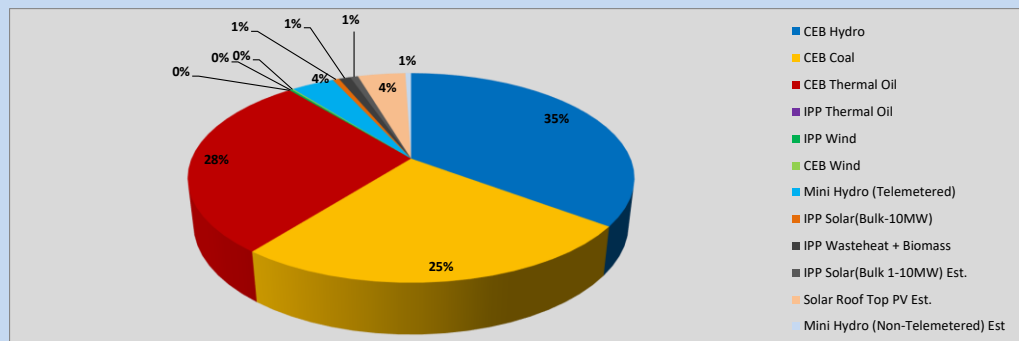


Table 01

	Generation (MWh)
CEB Hydro	17,762
CEB Coal	12,828
CEB Thermal Oil	14,362
IPP Thermal Oil	-
IPP Wind	112
CEB Wind	77
Mini Hydro (Telemetered)	1,872
IPP Solar (Bulk)	286
IPP Waste heat + Biomass	502
<b>Total Generation (Excluding estimated figures)</b>	<b>47,801</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	249
* Estimated IPP Solar PV (Bulk 1-10MW)	344
* Estimated Solar Roof Top PV	2080
<b>Total Generation (Including estimated figures)</b>	<b>50,474</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	307	27.49%
CEB Coal	414	37.01%
CEB Thermal Oil	181	16.23%
IPP Thermal	76	6.83%
SPP Wind	7	0.66%
CEB Wind	7	0.64%
Mini Hydro *	44	3.94%
IPP Solar *	71	6.31%
IPP Waste heat + BMP	10	0.89%
<b>Total</b>	<b>1,118</b>	

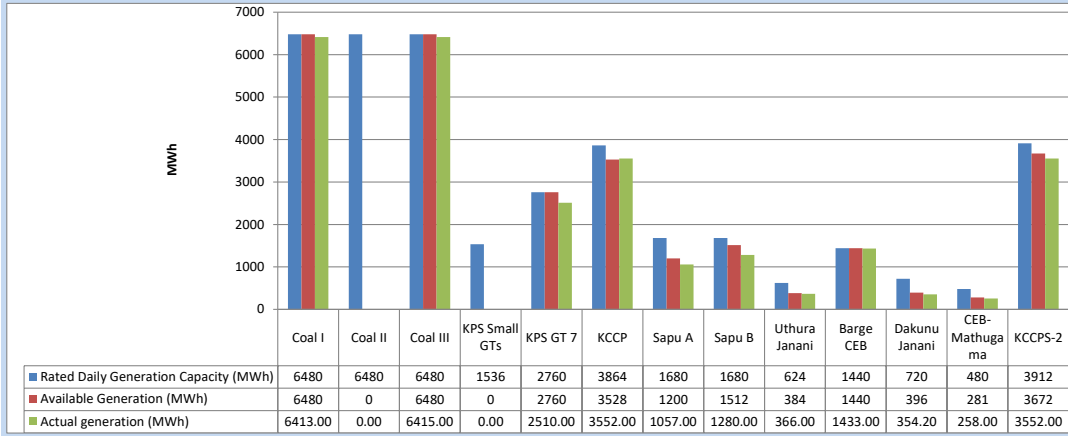
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,569	30.33%
CEB Coal	1,888	36.50%
CEB Thermal Oil	560	10.83%
IPP Thermal	408	7.88%
SPP Wind	56	1.09%
CEB Wind	62	1.20%
Mini Hydro *	299	5.78%
IPP Solar *	282	5.45%
IPP Waste heat	47	0.92%
<b>Total</b>	<b>5,172</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

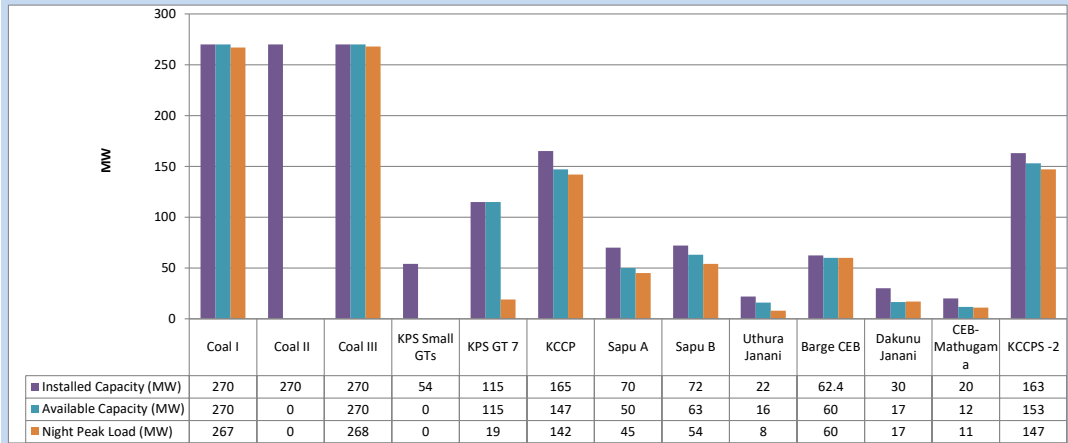
April 25, 2024



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

April 26, 2024

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

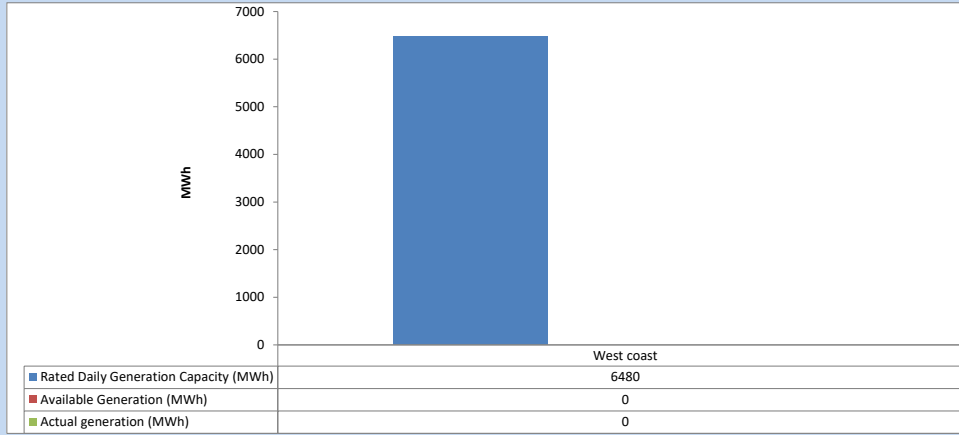


Plant availability is recorded at 6.00 am on

April 26, 2024

### 5. IPP owned Thermal Plant Dispatch

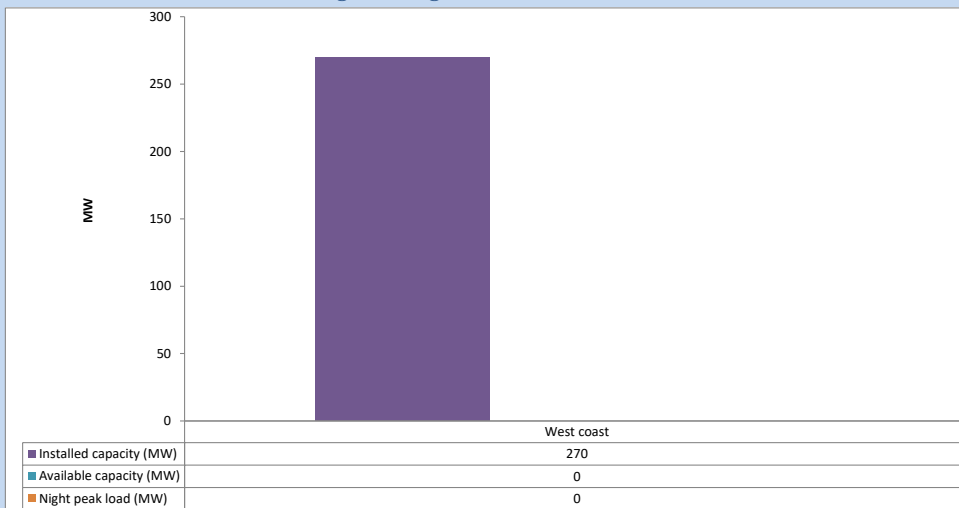
April 25, 2024



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

April 26, 2024

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

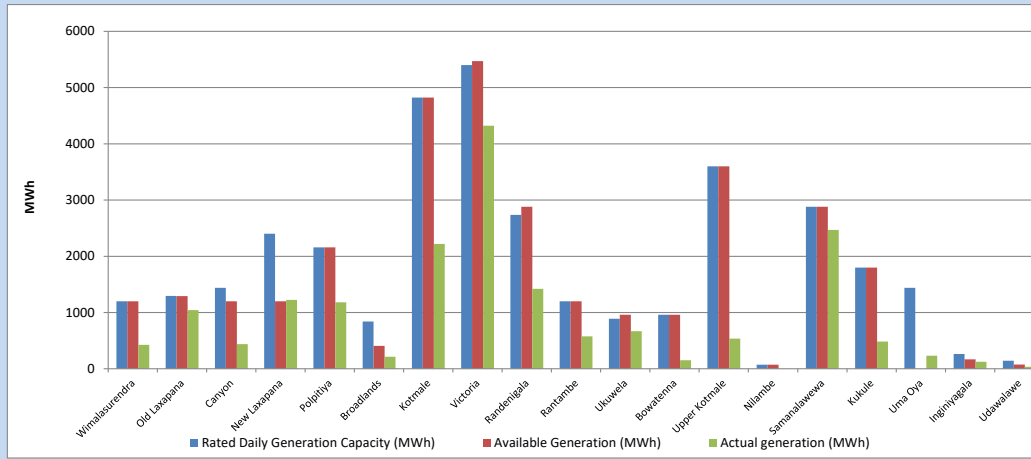


Plant availability is recorded at 6.00 am on

April 26, 2024

## 7. Major Hydro Plant Dispatch

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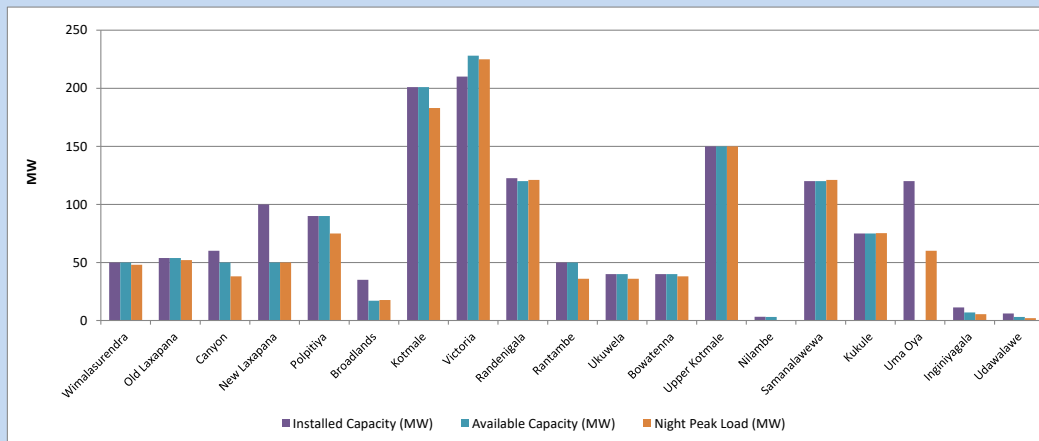


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

April 26, 2024

## 8. Major Hydro Plant Loading at Night Peak

April 25, 2024



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

April 26, 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	48	424
Old Laxapana	54	54	52	1,044
Canyon	60	50	38	437
New Laxapana	100	50	50	1,225
Polpitiya	90	90	75	1,180
Broadlands	35	17	18	213
Kotmale	201	201	183	2,220
Victoria	210	228	225	4,322
Randenigala	123	120	121	1,421
Rantambe	50	50	36	576
Ukuwela	40	40	36	667
Bowatenna	40	40	38	152
Upper Kotmale	150	150	150	537
Nilambe	3	3	0	0
Samanalawewa	120	120	121	2,470
Kukule	75	75	75	483
Uma Oya (Testing )	120	0	60	232
Inginiyagala	11	7	5	124
Udawalawe	6	3	2	34
Puttalam Coal I	270	270	267	6,413
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	268	6,415
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	19	2,510
KCCP	165	147	142	3,552
Sapugaskanda A	70	50	45	1,057
Sapugaskanda B	72	63	54	1,280
Uthura Janani	22	16	8	366
Barge CEB	62	60	60	1,433
CEB-Hambantota	30	17	17	354
CEB-Mathugama	20	12	11	258
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	147	3,552
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>2,520</b>	<b>2,474</b>	<b>47,800</b>

Note-

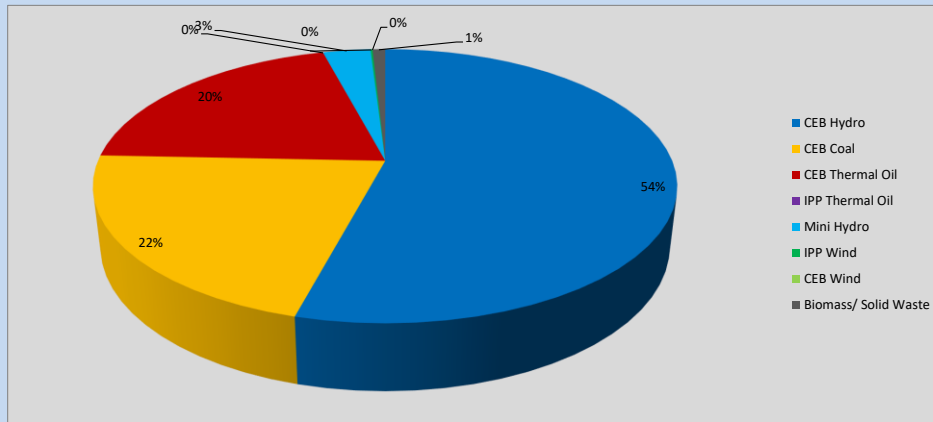
Plant availability is the availability recorded at 6 am on

April 26, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

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

April 25, 2024



**Table 06**

CEB Hydro	1348	MW
CEB Coal	535	MW
CEB Thermal Oil	503	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	78	MW
IPP Wind	3.3	MW
CEB Wind	0	MW
Biomass/ Solid Waste	21	MW

### Recorded Peak Demand Data

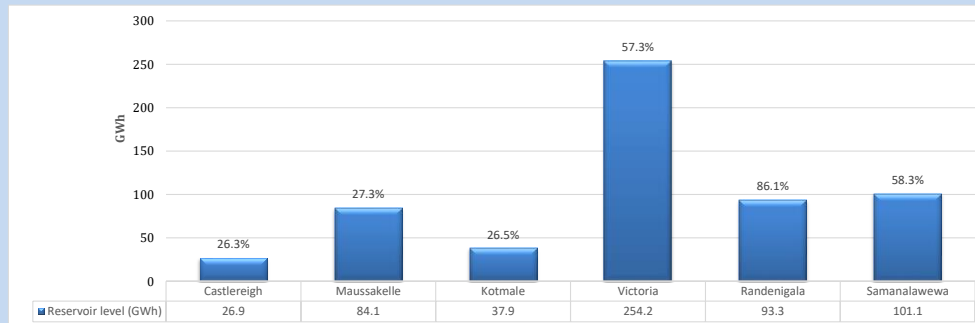
**Table 07**

Night Peak*	2,488	MW
Day Peak Maximum Demand	2,378	MW
Day Peak Minimum Demand	1,726	MW
Off Peak Minimum Demand	1,545	MW

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

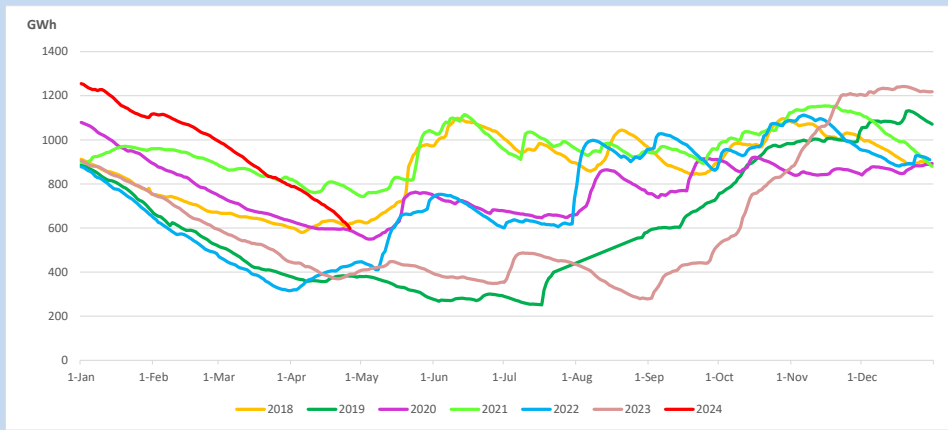
### Reservoir Levels -

as at 06.00 Hr on April 26, 2024

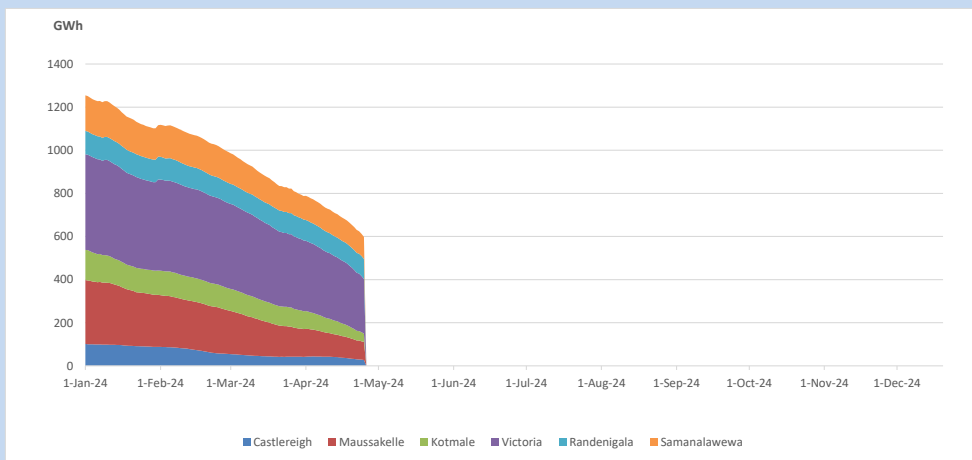


Total Reservoir Level 597.5 GWh  
% of Total capacity 46.7%

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

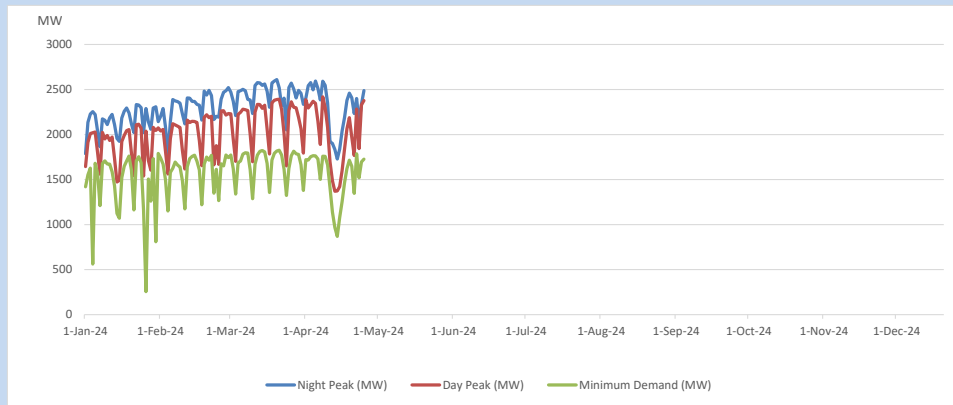


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





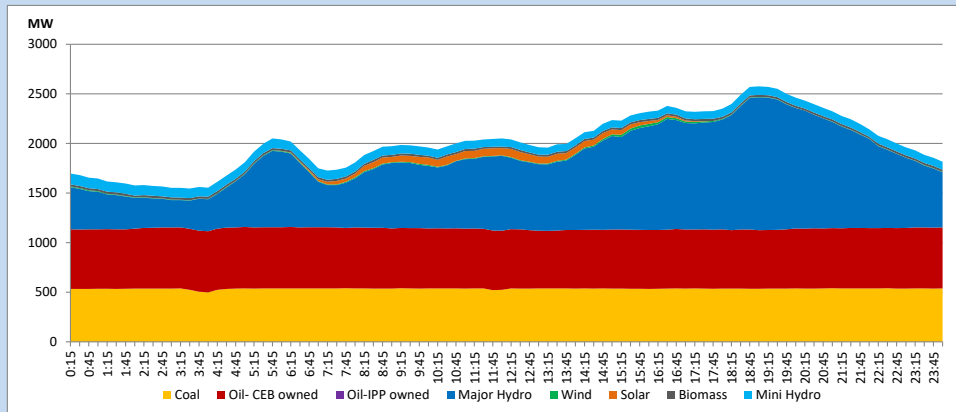
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

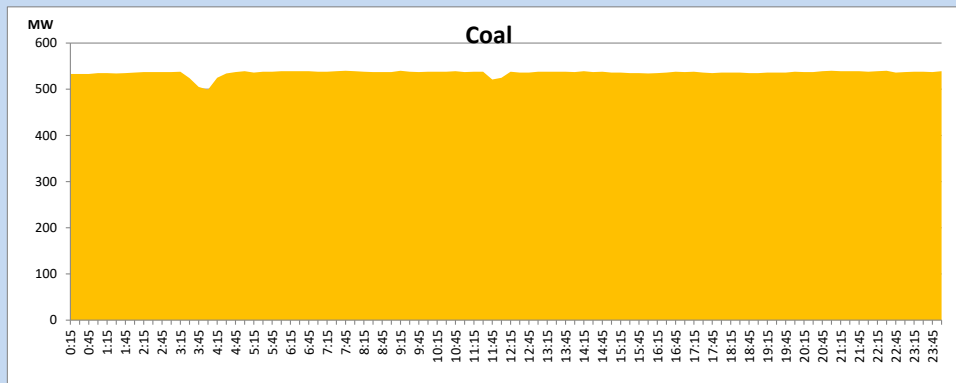
April 25, 2024



Solar and wind data is based on Telemetered Power Stations only

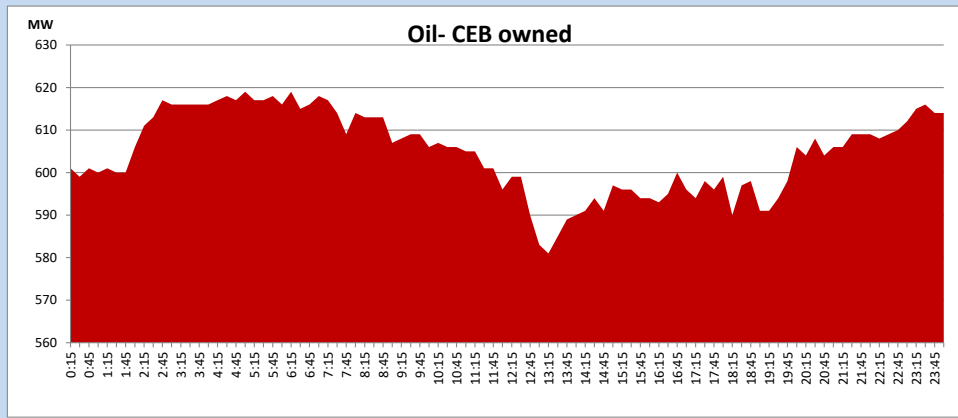
### Coal Generation during

April 25, 2024



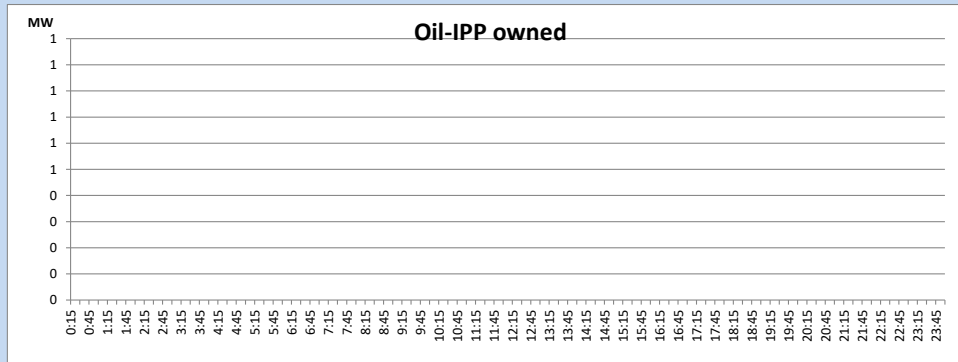
CEB Oil Plant Generation during

April 25, 2024



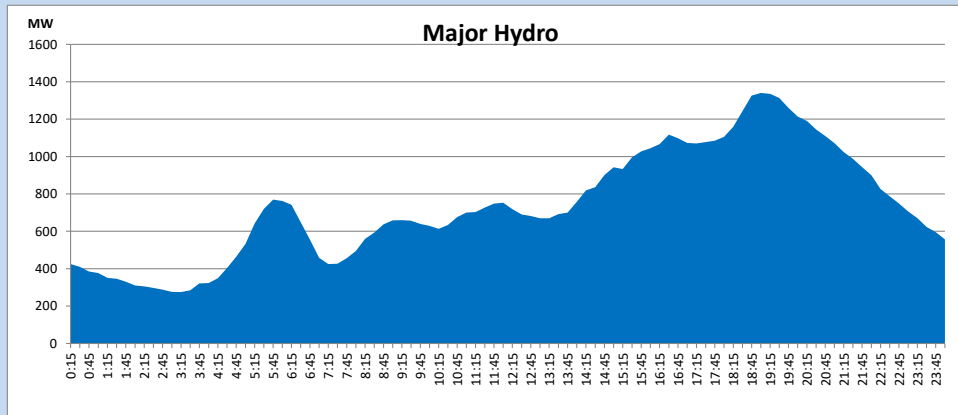
IPP Oil Plant Generation during

April 25, 2024



Major Hydro Generation during

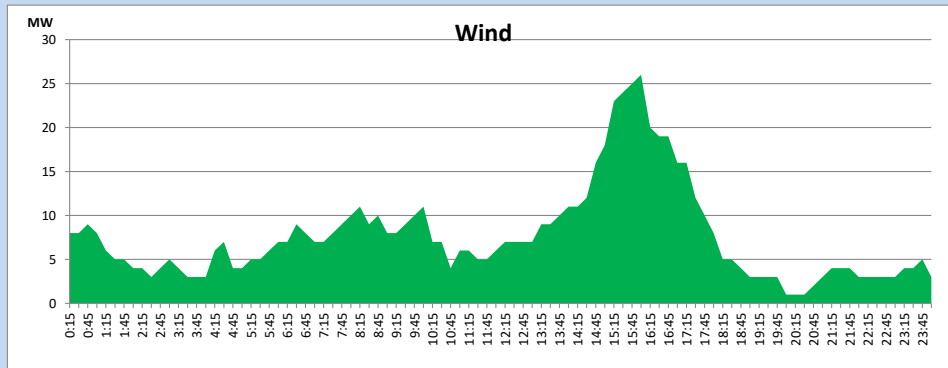
April 25, 2024



## Wind Generation during

April 25, 2024

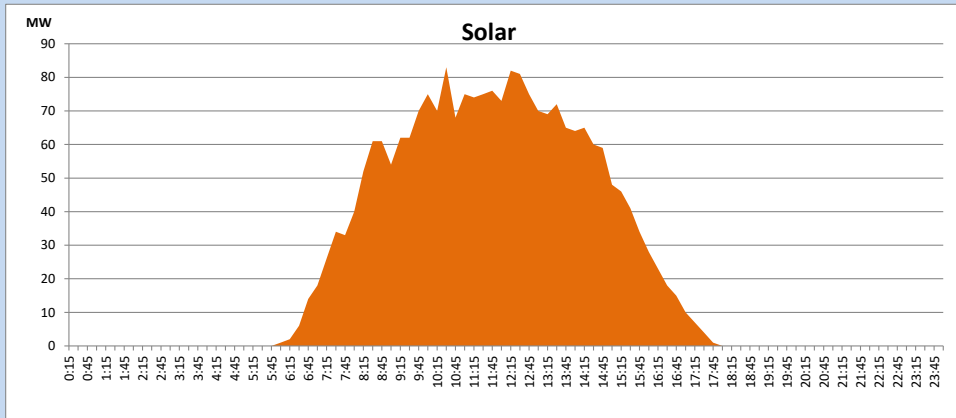
Based on Telemetered Power Stations only



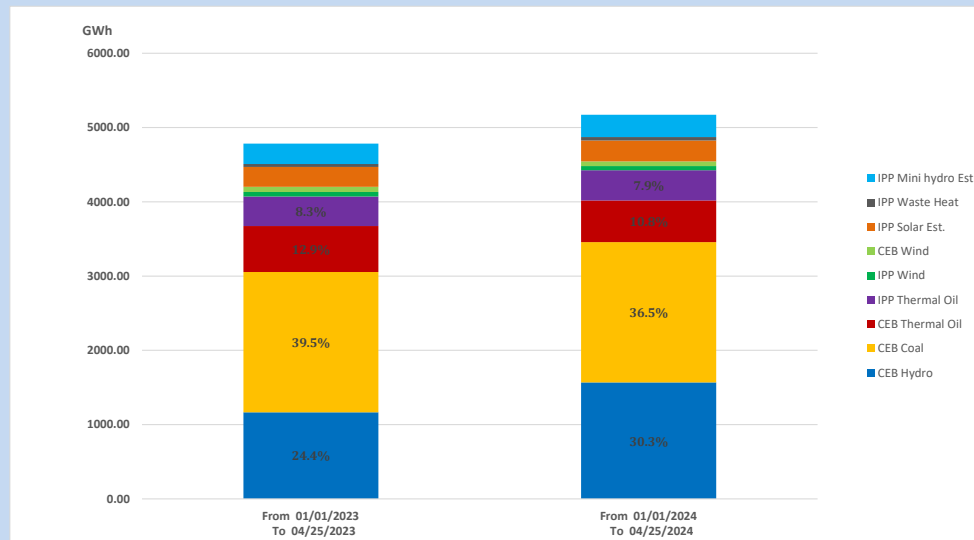
## Solar Generation during

April 25, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 04/25/2023

4783 GWh

From 01/01/2024 To 04/25/2024

5172 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 25, 2024

- 1) New Laxapana unit 01 made a forced shutdown at 08:56hrs due to needle valve malfunction. New Laxapana unit 01 is yet to resume generation.
- 2) Old Habarana - Ukuwela 132kV cct tripped & A/R from both ends at 11:34hrs due to the operation of distance protection.
- 3) Chunnakam 132/33kV T/F 03 tripped from both ends at 17:44hrs. The T/F was normalized at 18:50hrs.