

# Generation and Reservoirs Statistics

June 15, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

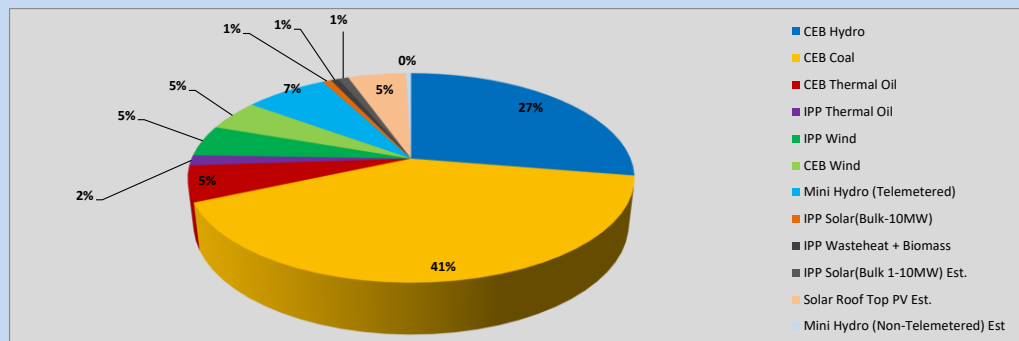


Table 01

	Generation (MWh)
CEB Hydro	12,686
CEB Coal	18,766
CEB Thermal Oil	2,535
IPP Thermal Oil	742
IPP Wind	2,194
CEB Wind	2,183
Mini Hydro (Telemetered)	3,299
IPP Solar (Bulk)	341
IPP Waste heat + Biomass	301
<b>Total Generation (Excluding estimated figures)</b>	<b>43,047</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	199
* Estimated IPP Solar PV (Bulk 1-10MW)	408
* Estimated Solar Roof Top PV	2320
<b>Total Generation (Including estimated figures)</b>	<b>45,974</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	242	35.68%
CEB Coal	229	33.78%
CEB Thermal Oil	23	3.39%
IPP Thermal	12	1.80%
SPP Wind	27	3.92%
CEB Wind	30	4.45%
Mini Hydro *	67	9.85%
IPP Solar *	44	6.53%
IPP Waste heat + BMP	4	0.60%
<b>Total</b>	<b>679</b>	

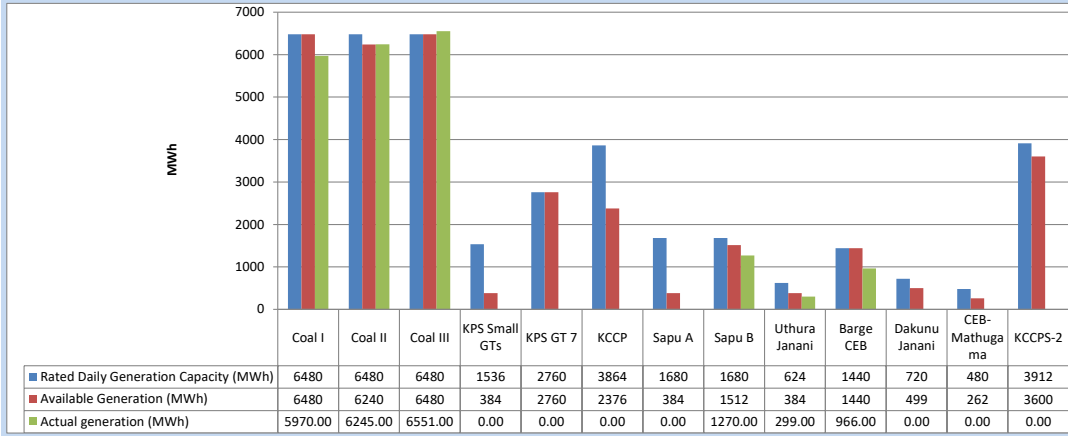
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,282	30.29%
CEB Coal	2,765	36.71%
CEB Thermal Oil	801	10.64%
IPP Thermal	429	5.70%
SPP Wind	117	1.56%
CEB Wind	124	1.65%
Mini Hydro *	499	6.62%
IPP Solar *	446	5.92%
IPP Waste heat	68	0.91%
<b>Total</b>	<b>7,532</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

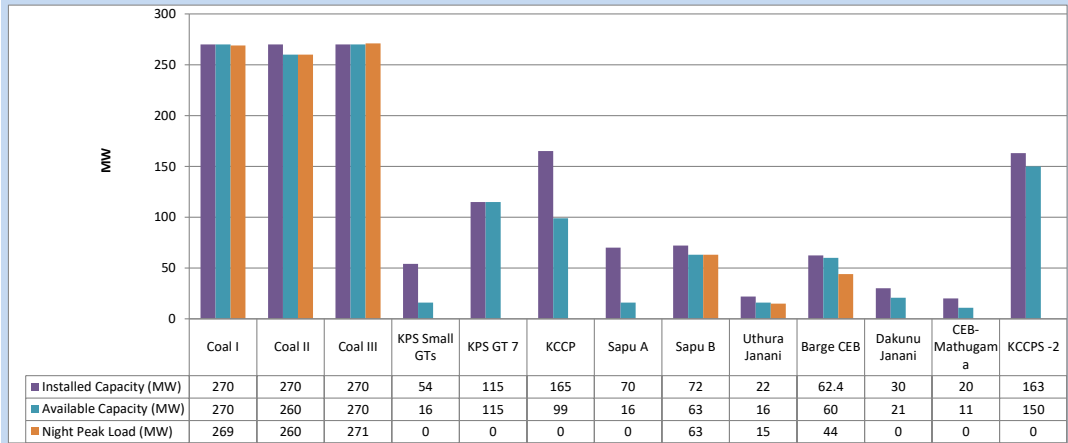
June 15, 2024



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

June 16, 2024

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

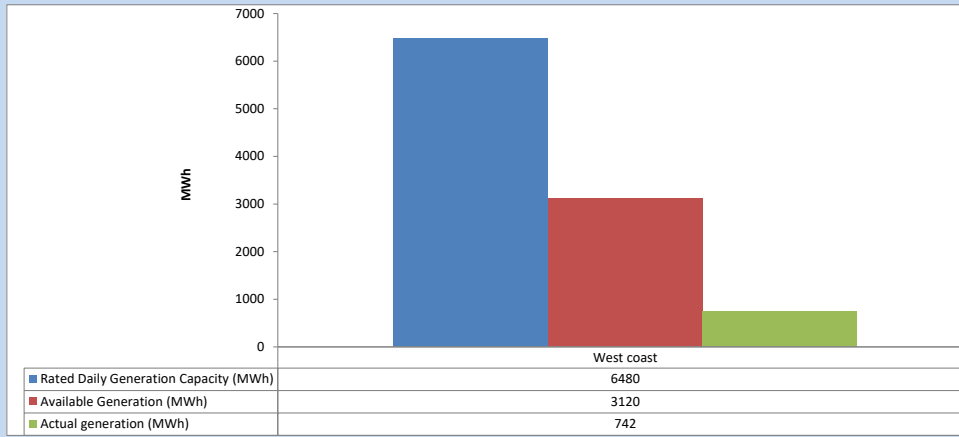


Plant availability is recorded at 6.00 am on

June 16, 2024

### 5. IPP owned Thermal Plant Dispatch

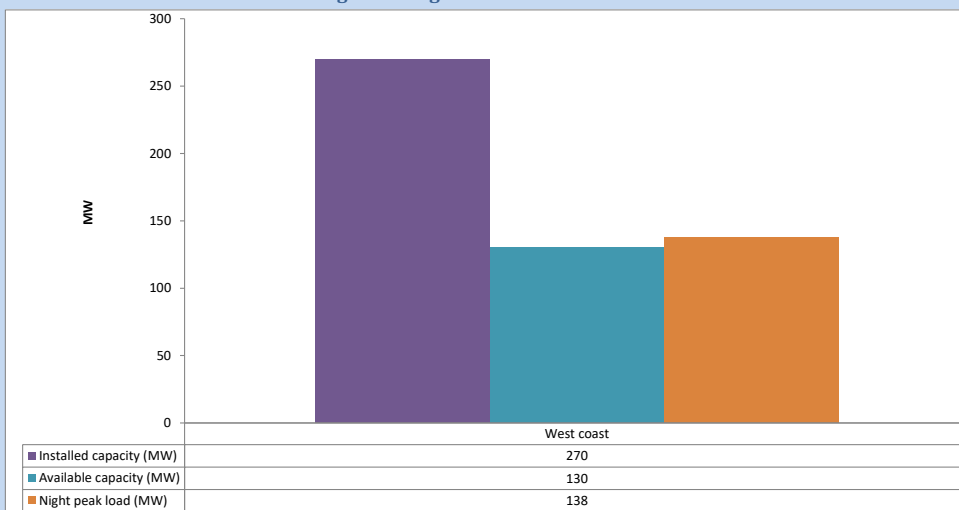
June 15, 2024



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

June 16, 2024

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

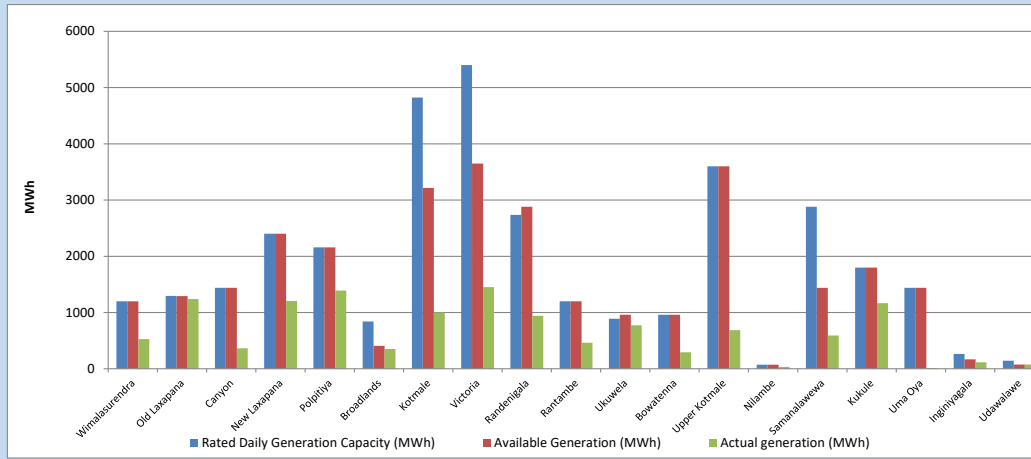


Plant availability is recorded at 6.00 am on

June 16, 2024

## 7. Major Hydro Plant Dispatch

June 15, 2024

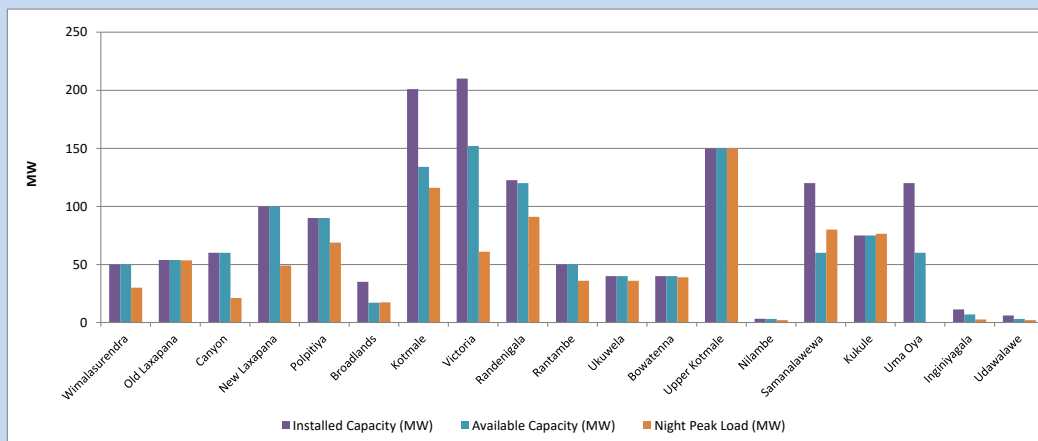


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

June 16, 2024

## 8. Major Hydro Plant Loading at Night Peak

June 15, 2024



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

June 16, 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	526
Old Laxapana	54	54	54	1,241
Canyon	60	60	21	365
New Laxapana	100	100	49	1,207
Polpitiya	90	90	69	1,390
Broadlands	35	17	17	353
Kotmale	201	134	116	1,000
Victoria	210	152	61	1,453
Randenigala	123	120	91	942
Rantambe	50	50	36	463
Ukuwela	40	40	36	772
Bowatenna	40	40	39	293
Upper Kotmale	150	150	150	686
Nilambe	3	3	2	32
Samanalawewa	120	60	80	592
Kukule	75	75	76	1,167
Uma Oya (Testing )	120	60	0	14
Inginiyagala	11	7	3	116
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	269	5,970
Puttalam Coal II	270	260	260	6,245
Puttalam Coal III	270	270	271	6,551
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	16	0	0
Sapugaskanda B	72	63	63	1,270
Uthura Janani	22	16	15	299
Barge CEB	62	60	44	966
CEB-Hambantota	30	21	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	130	138	742
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>2,762</b>	<b>2,335</b>	<b>43,047</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

June 15, 2024

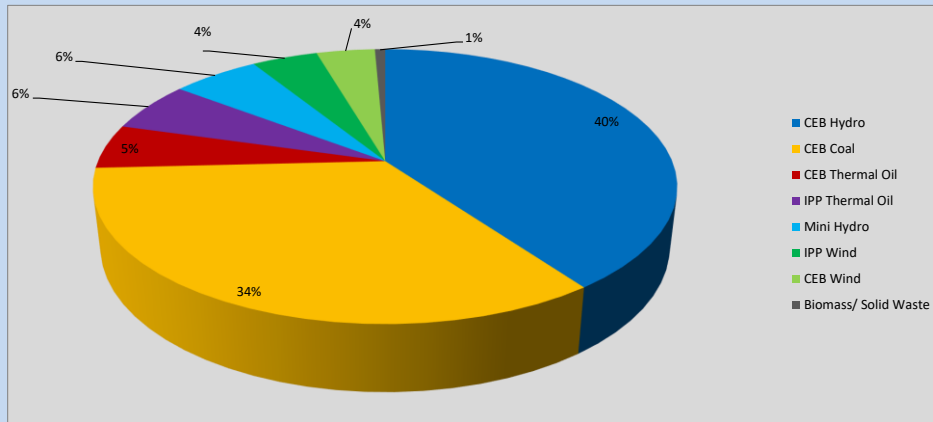


Table 06

CEB Hydro	935	MW
CEB Coal	800	MW
CEB Thermal Oil	122	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	101.8	MW
CEB Wind	90.5	MW
Biomass/ Solid Waste	16	MW

### Recorded Peak Demand Data

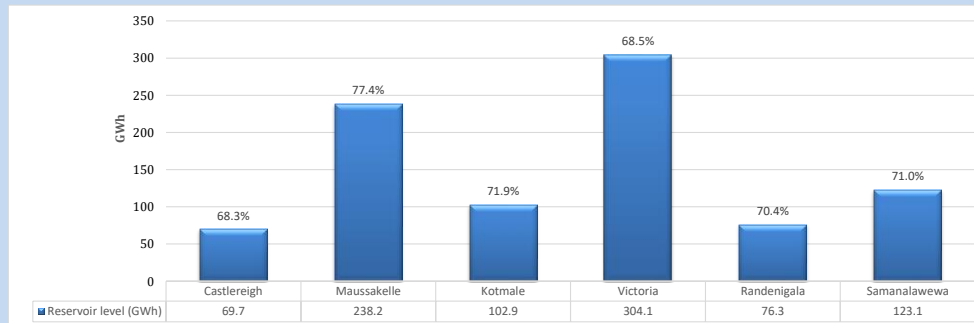
Table 07

Night Peak*	2,338	MW
Day Peak Maximum Demand	2,013	MW
Day Peak Minimum Demand	1,666	MW
Off Peak Minimum Demand	1,499	MW

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

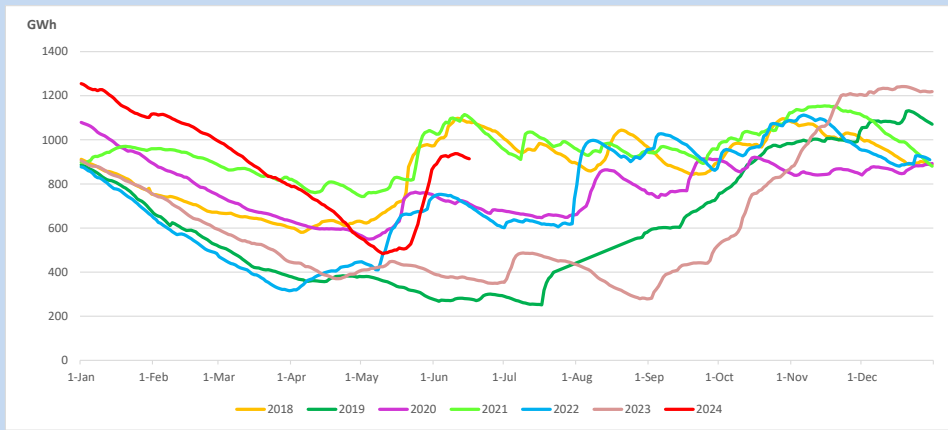
### Reservoir Levels -

as at 06.00 Hr on June 16, 2024

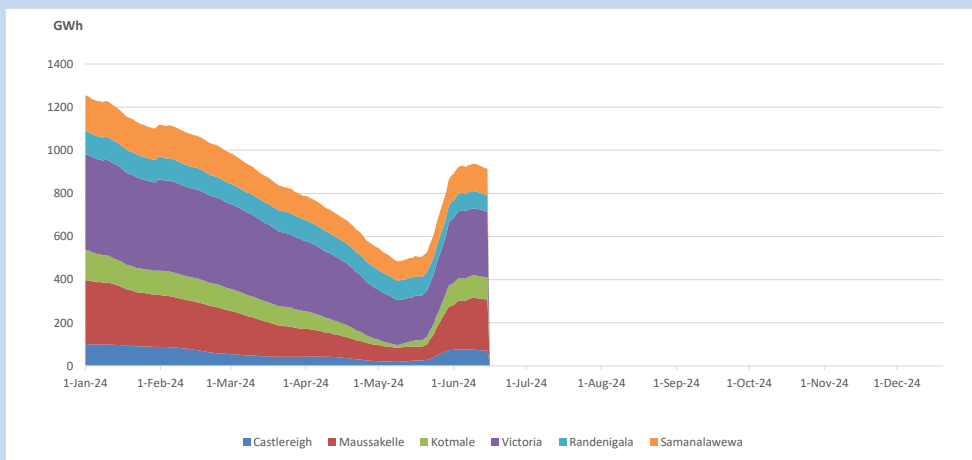


Total Reservoir Level 914.3 GWh  
% of Total capacity 71.5%

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

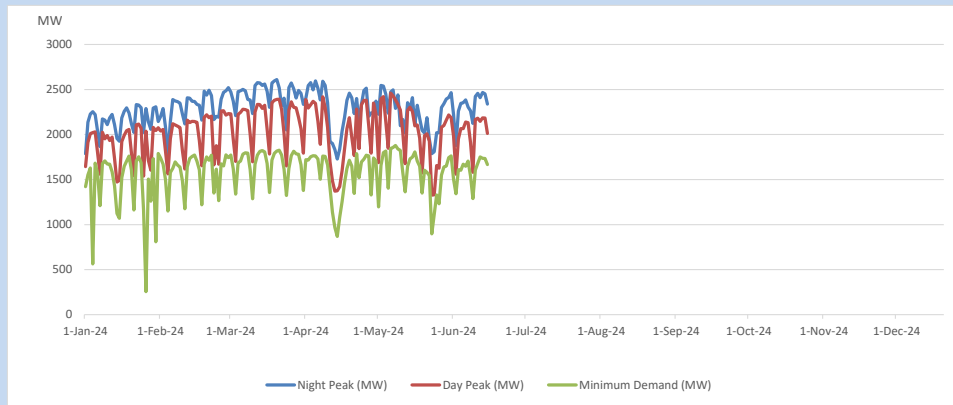


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





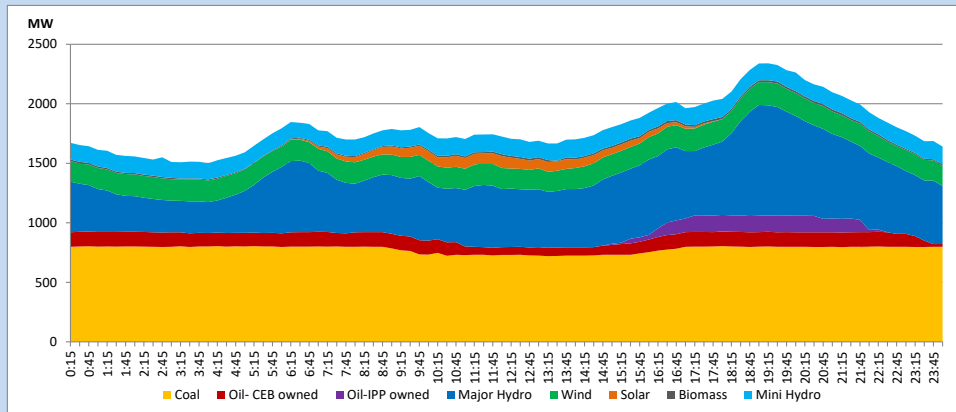
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

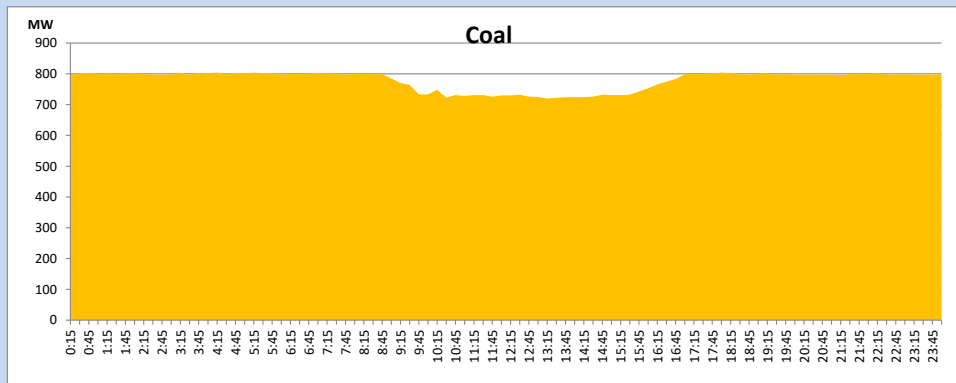
June 15, 2024



Solar and wind data is based on Telemetered Power Stations only

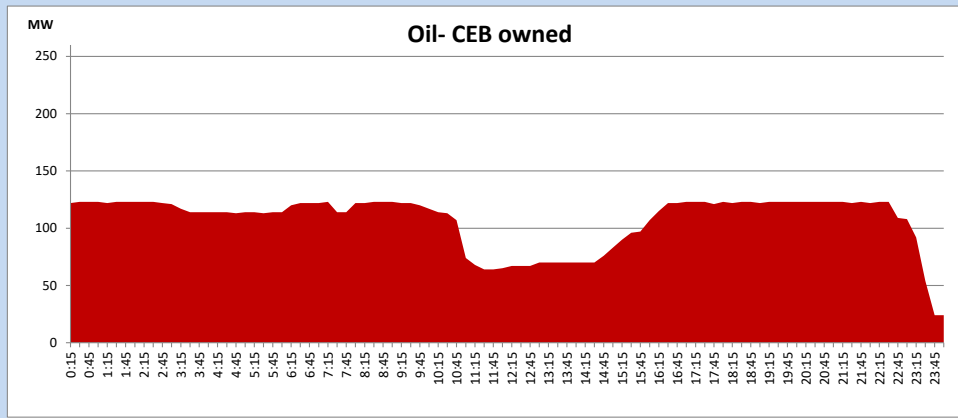
### Coal Generation during

June 15, 2024



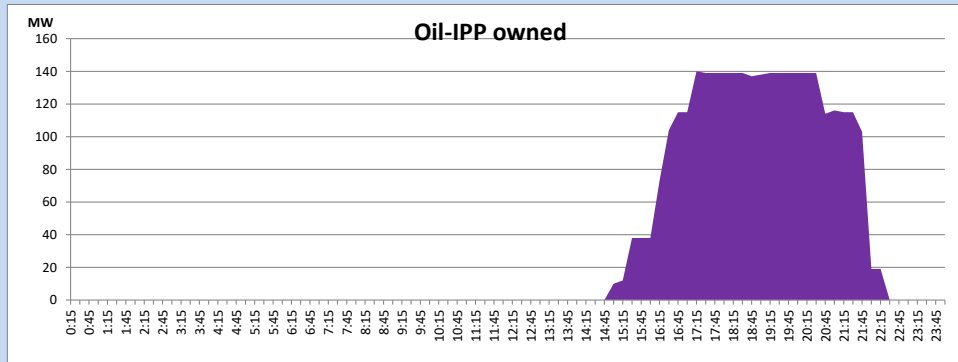
CEB Oil Plant Generation during

June 15, 2024



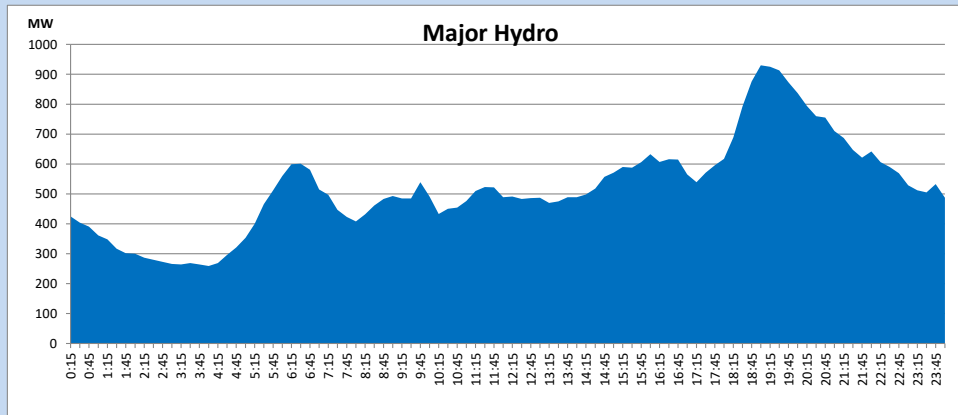
IPP Oil Plant Generation during

June 15, 2024



Major Hydro Generation during

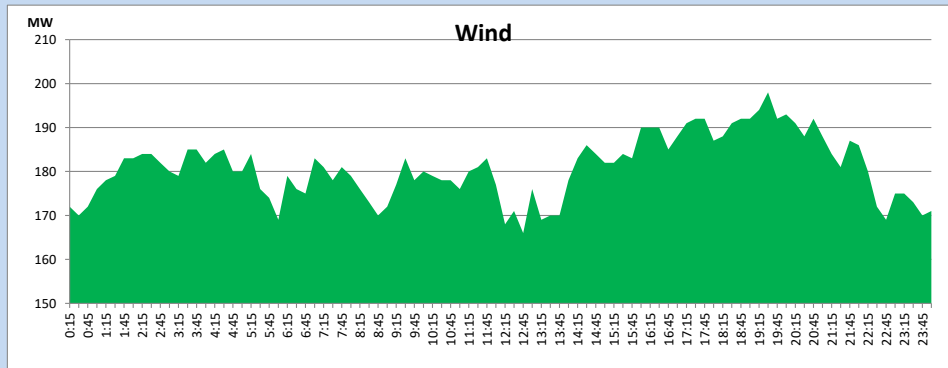
June 15, 2024



## Wind Generation during

June 15, 2024

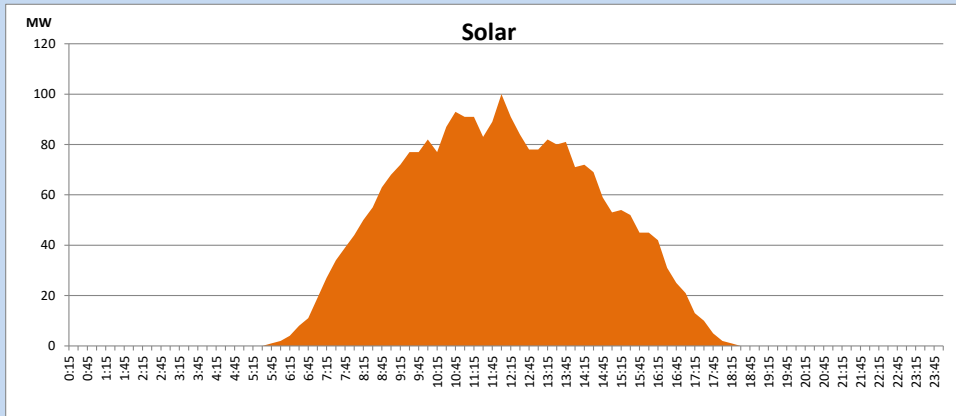
Based on Telemetered Power Stations only



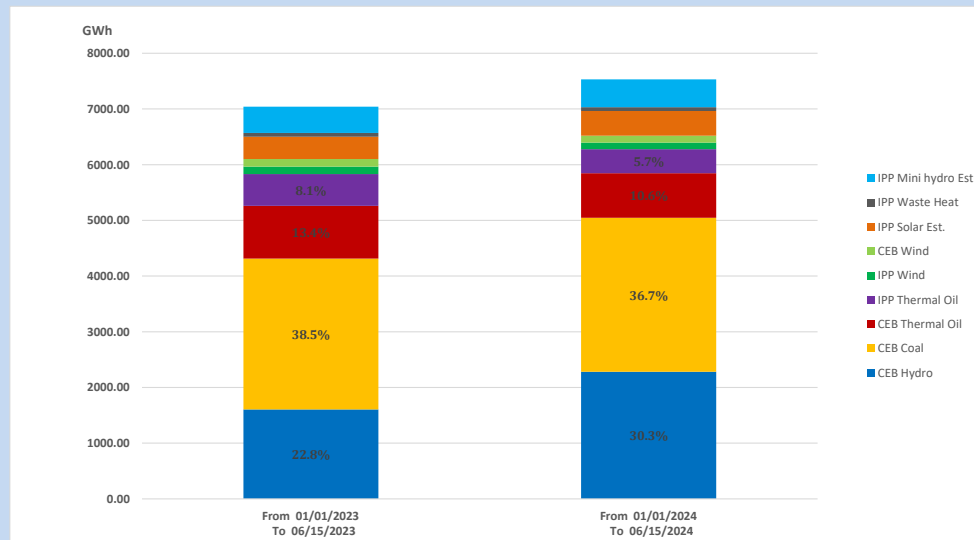
## Solar Generation during

June 15, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 06/15/2023

7041 GWh

From 01/01/2024 To 06/15/2024

7532 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

June 15, 2024

- 1) Ukuwela GSS 132/33kV T/F 01 and 02 tripped only from 33kV end at 07:26hrs with an indication of EF protection operated, causing Ukuwela GSS to be dead (Ukuwela 132/33kV T/F 03 had been released for B/D rectification). At the same time, 33kV bus section CB 02 tripped due to the operation of EF protection and 33kV feeder 01 tripped and AR with an indication of OC. Ukuwela GSS 132/33kV T/F 01, 33kV B/S 02, and 132/33kV T/F 02 normalized at 07:46hrs, 10:34hrs and 10:36hrs respectively. All affected feeders except feeder 01 normalized by 12:13hrs.
- 2) Uma Oya PS Unit 01 made available for commercial operation from 23:55hrs.