

# Generation and Reservoirs Statistics

July 25, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

July 25, 2024

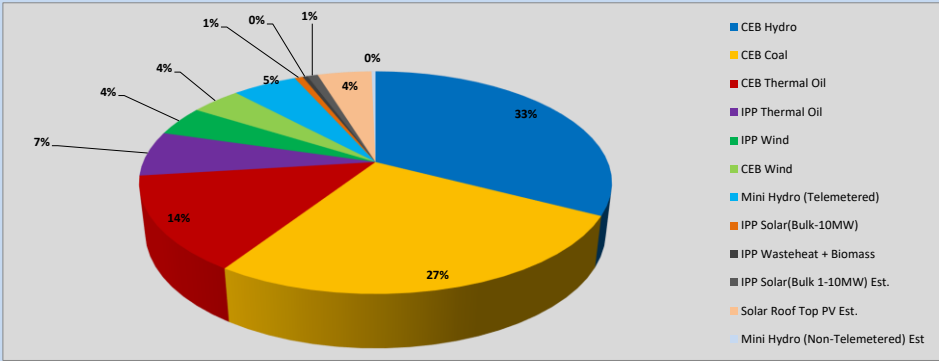


Table 01

|   |                          | Generation (MWh) |
|---|--------------------------|------------------|
| CEB Hydro   | CEB Hydro                | 15981            |
| CEB Coal  | CEB Coal                 | 13067            |
| CEB Thermal Oil                                       | CEB Thermal Oil          | 6760             |
| IPP Thermal Oil                                       | IPP Thermal Oil          | 3204             |
| IPP Wind  | IPP Wind                 | 2137             |
| CEB Wind  | CEB Wind                 | 2014             |
| Mini Hydro (Telemetered)                              | Mini Hydro (Telemetered) | 2595             |
| IPP Solar (Bulk)                                      | IPP Solar (Bulk)         | 331              |
| IPP Waste heat + Biomass                              | IPP Waste heat + Biomass | 193              |
| <b>Total Generation (Excluding estimated figures)</b> |                          | <b>46,282</b>    |
| * Estimated unserved energy                           |                          | 0                |
| * Estimated Mini Hydro (Non telemetered)              |                          | 156              |
| * Estimated IPP Solar PV (Bulk 1-10MW)                |                          | 424              |
| * Estimated Solar Roof Top PV                         |                          | 2170             |
| <b>Total Generation (Including estimated figures)</b> |                          | <b>49,032</b>    |

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

| Category             | Dispatch (GWh) |        |
|----------------------|----------------|--------|
| CEB Hydro            | 408            | 35.50% |
| CEB Coal             | 354            | 30.83% |
| CEB Thermal Oil      | 84             | 7.30%  |
| IPP Thermal          | 30             | 2.63%  |
| SPP Wind             | 51             | 4.41%  |
| CEB Wind             | 50             | 4.31%  |
| Mini Hydro *         | 92             | 8.03%  |
| IPP Solar *          | 72             | 6.28%  |
| IPP Waste heat + BMP | 8              | 0.71%  |
| <b>Total</b>         | <b>1,149</b>   |        |

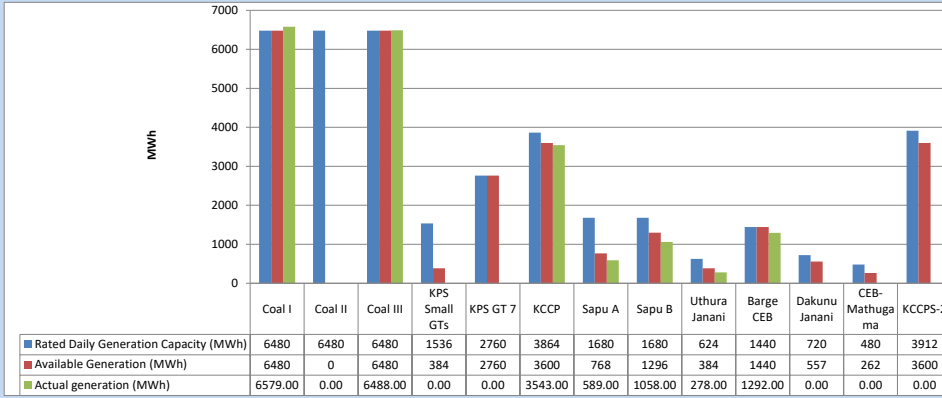
Table 03 - Current Year

| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 2,915          | 31.17% |
| CEB Coal        | 3,359          | 35.91% |
| CEB Thermal Oil | 900            | 9.63%  |
| IPP Thermal     | 464            | 4.96%  |
| SPP Wind        | 203            | 2.17%  |
| CEB Wind        | 206            | 2.20%  |
| Mini Hydro *    | 641            | 6.86%  |
| IPP Solar *     | 579            | 6.19%  |
| IPP Waste heat  | 86             | 0.92%  |
| <b>Total</b>    | <b>9,352</b>   |        |

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

July 25, 2024

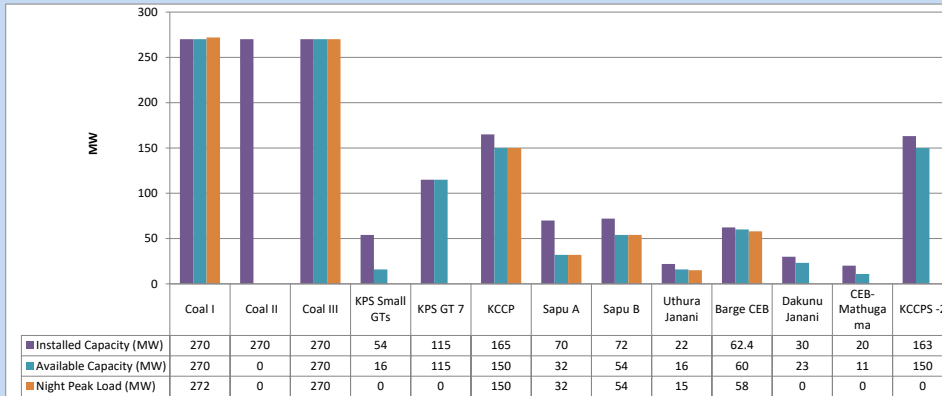


Available Generation is estimated based on plant availability at 6.00am on

July 26, 2024

### 1.3 CEB owned Thermal Plant Loading at the Night Peak

July 25, 2024

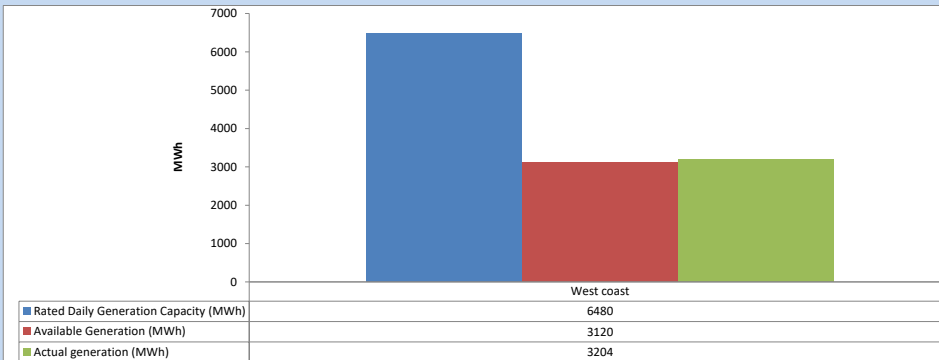


Plant availability is recorded at 6.00 am on

July 26, 2024

### 1.4 IPP owned Thermal Plant Dispatch

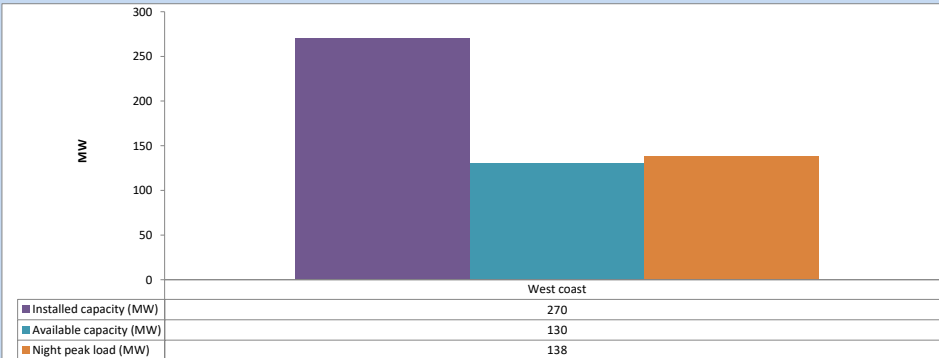
July 25, 2024



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

July 26, 2024

### 1.5 IPP owned Thermal Plant Loading at the Night Peak

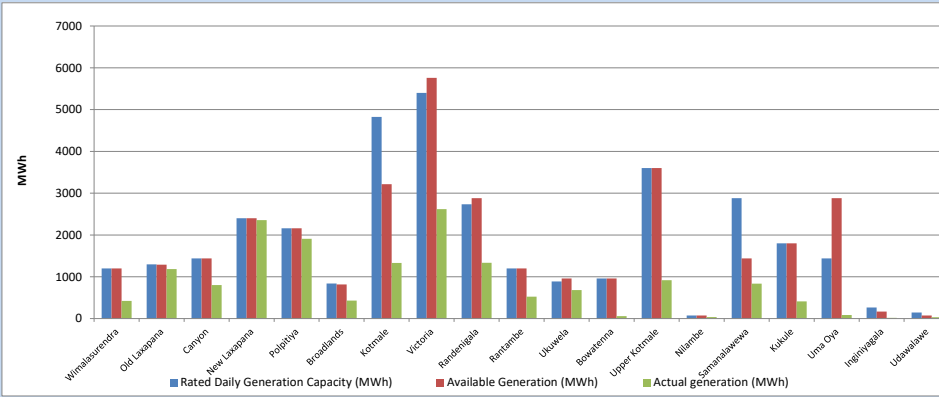


Plant availability is recorded at 6.00 am on

July 26, 2024

### 1.6 Major Hydro Plant Dispatch

July 25, 2024

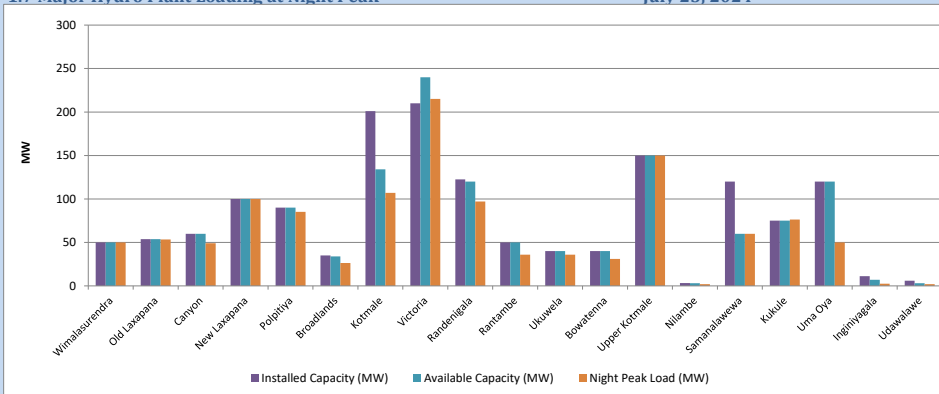


Available Generation is estimated based on plant availability at 6.00am on

July 26, 2024

### 1.7 Major Hydro Plant Loading at Night Peak

July 25, 2024



Plant availability is recorded at 6.00 am on

July 26, 2024

### 1.8 Summary of Major Plant performance

July 25, 2024

Table 04

| Plant                 | Maximum Available Total Capacity (MW) | Plant Availability (MW) | Night peak Load (MW) | Plant Dispatch (MWh) |
|-----------------------|---------------------------------------|-------------------------|----------------------|----------------------|
| Wimalasurendra        | 50                                    | 50                      | 50                   | 423                  |
| Old Laxapana          | 54                                    | 54                      | 54                   | 1,185                |
| Canyon                | 60                                    | 60                      | 49                   | 802                  |
| New Laxapana          | 100                                   | 100                     | 100                  | 2,354                |
| Polpitiya             | 90                                    | 90                      | 85                   | 1,910                |
| Broadlands            | 35                                    | 34                      | 26                   | 431                  |
| Kotmale               | 201                                   | 134                     | 107                  | 1,330                |
| Victoria              | 210                                   | 240                     | 215                  | 2,618                |
| Randenigala           | 123                                   | 120                     | 97                   | 1,334                |
| Rantambe              | 50                                    | 50                      | 36                   | 524                  |
| Ukuwela               | 40                                    | 40                      | 36                   | 680                  |
| Bowatenna             | 40                                    | 40                      | 31                   | 58                   |
| Upper Kotmale         | 150                                   | 150                     | 150                  | 916                  |
| Nilambe               | 3                                     | 3                       | 2                    | 37                   |
| Samanalawewa          | 120                                   | 60                      | 60                   | 837                  |
| Kukule                | 75                                    | 75                      | 76                   | 410                  |
| Uma Oya               | 120                                   | 120                     | 50                   | 83                   |
| Inginipigala          | 11                                    | 7                       | 3                    | 18                   |
| Udawalawe             | 6                                     | 3                       | 2                    | 32                   |
| Puttalam Coal I       | 270                                   | 270                     | 272                  | 6,579                |
| Puttalam Coal II      | 270                                   | 0                       | 0                    | 0                    |
| Puttalam Coal III     | 270                                   | 270                     | 270                  | 6,488                |
| KPS Small GTs         | 54                                    | 16                      | 0                    | 0                    |
| KPS GT 7              | 115                                   | 115                     | 0                    | 0                    |
| KCCP                  | 165                                   | 150                     | 150                  | 3,543                |
| Sapugaskanda A        | 70                                    | 32                      | 32                   | 589                  |
| Sapugaskanda B        | 72                                    | 54                      | 54                   | 1,058                |
| Uthura Janani         | 22                                    | 16                      | 15                   | 278                  |
| Barge CEB             | 62                                    | 60                      | 58                   | 1,292                |
| CEB-Hambantota        | 30                                    | 23                      | 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                  | 3,204                |
| Nothern Power         | 36                                    | 0                       | 0                    | 0                    |
| ACE Embilipitiya      | 93                                    | 0                       | 0                    | 0                    |
| Sobadhanavi (Testing) | 220                                   | 0                       | 0                    | 0                    |
| <b>Total</b>          | <b>3,594</b>                          | <b>2,727</b>            | <b>2,532</b>         | <b>46,283</b>        |

Note-

Plant availability is the availability recorded at 6 am on

July 26, 2024

### 1.9 Contribution to the Night Peak in MW

July 25, 2024

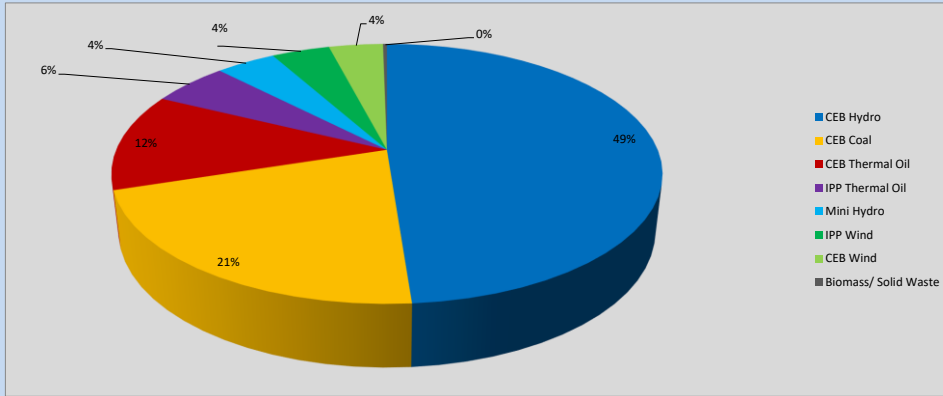


Table 05

|                          |       |    |
|--------------------------|-------|----|
| CEB Hydro                | 1242  | MW |
| CEB Coal                 | 542   | MW |
| CEB Thermal Oil          | 309   | MW |
| IPP Thermal Oil          | 138   | MW |
| Mini Hydro (Telemetered) | 107   | MW |
| IPP Wind                 | 103.8 | MW |
| CEB Wind                 | 96.7  | MW |
| Biomass/ Solid Waste     | 7     | MW |

### Recorded Peak Demand Data

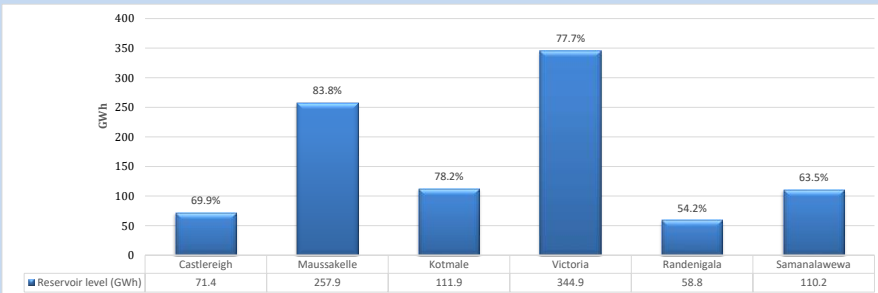
Table 06

|                         |       |    |
|-------------------------|-------|----|
| Night Peak*             | 2,545 | MW |
| Day Peak Maximum Demand | 2,247 | MW |
| Day Peak Minimum Demand | 1,738 | MW |
| Off Peak Minimum Demand | 1,596 | MW |

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

### 1.10 Reservoir Levels -

as at 06.00 Hr on July 26, 2024



Total Reservoir Level  
955.1 GWh  
% of Total capacity  
74.7%

### 1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

July 25, 2024

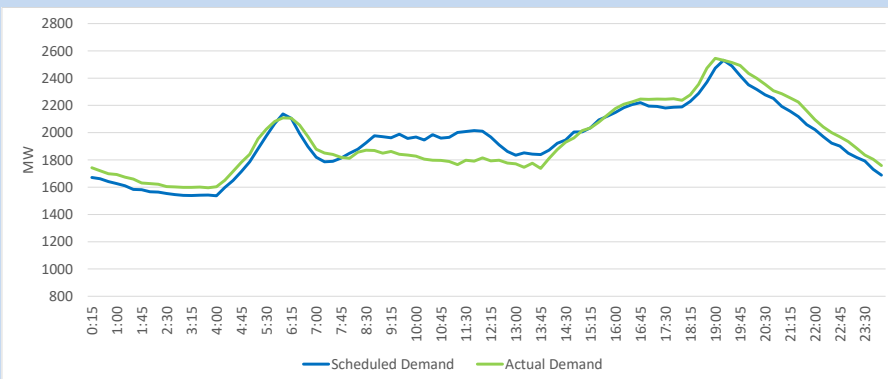
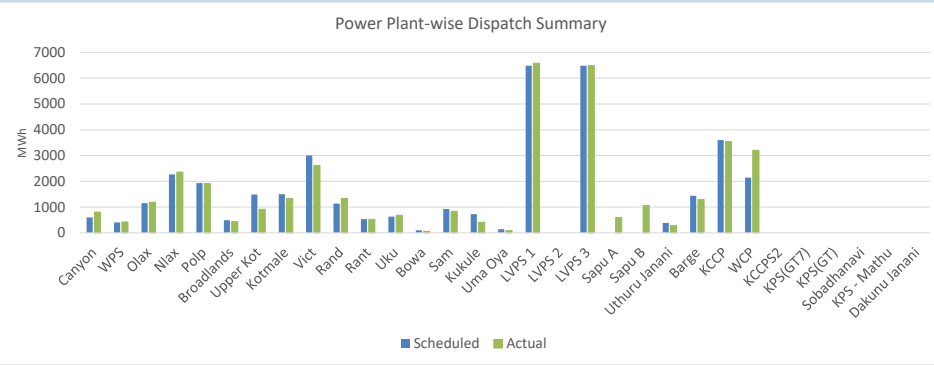


Table 07

| Category           | Scheduled Dispatch (MWh) | Actual Dispatch (MWh) | Deviation (MWh) |
|--------------------|--------------------------|-----------------------|-----------------|
| Major Hydro        | 16,998                   | 15,894                | -1104           |
| CEB Coal           | 12,960                   | 13,067                | 107             |
| CEB Thermal Oil    | 5,424                    | 6,761                 | 1337            |
| IPP Thermal Oil    | 2,146                    | 3,204                 | 1058            |
| NCRE (Telemetered) | 7,114                    | 7,662                 | 549             |
| <b>Total</b>       | <b>44,641</b>            | <b>46,588</b>         | <b>1946</b>     |

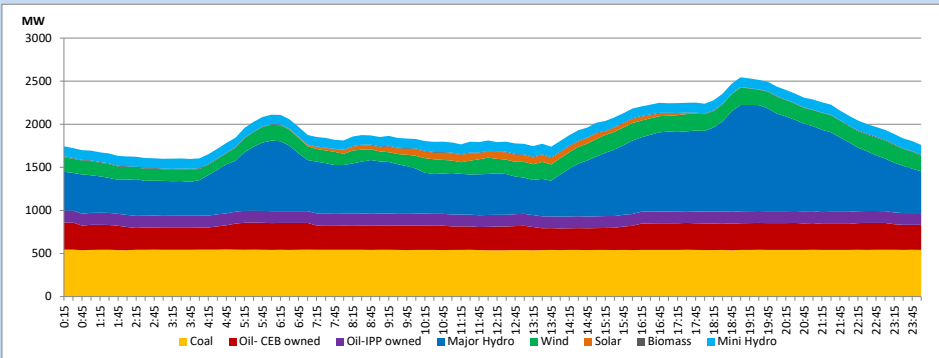
### 1.12 Power Plant-wise Dispatch Summary

July 25, 2024



### 1.13 Daily Load Curve

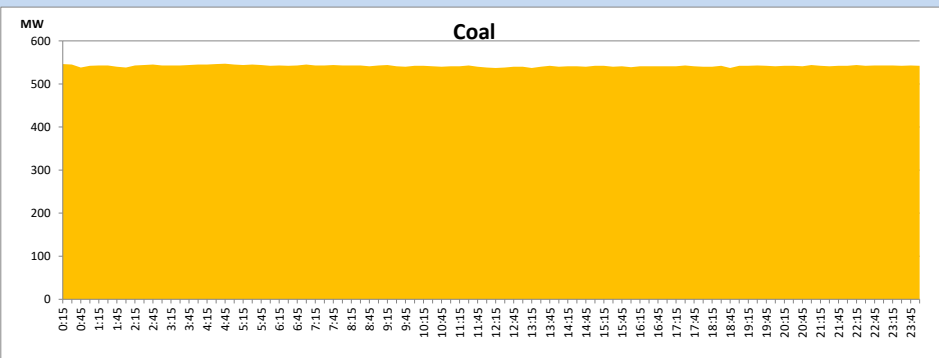
July 25, 2024



Solar and wind data is based on Telemetered Power Stations only

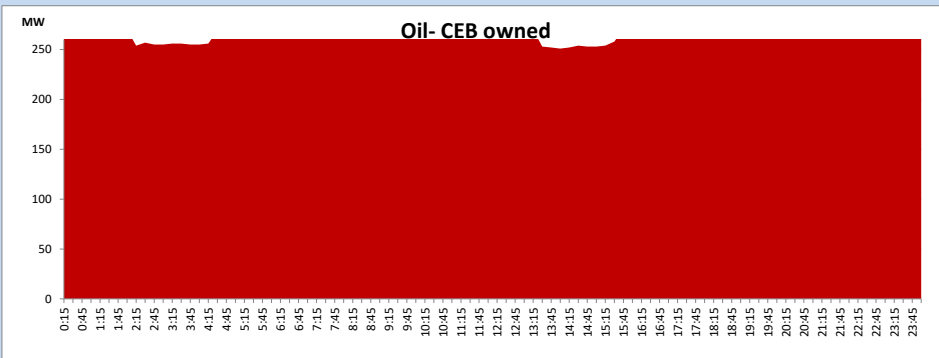
### Coal Generation during

July 25, 2024

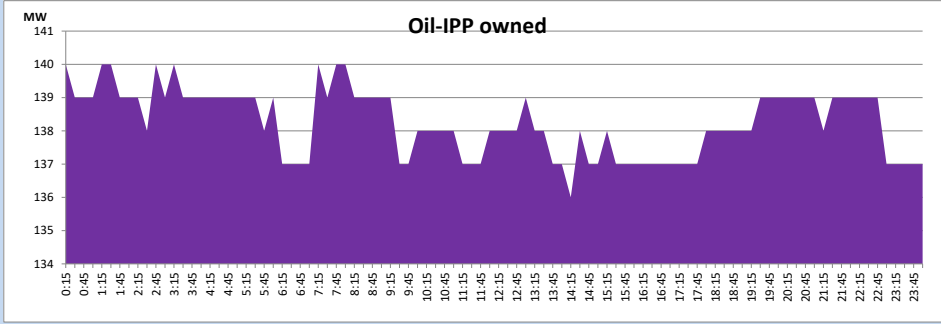


### CEB Oil Plant Generation during

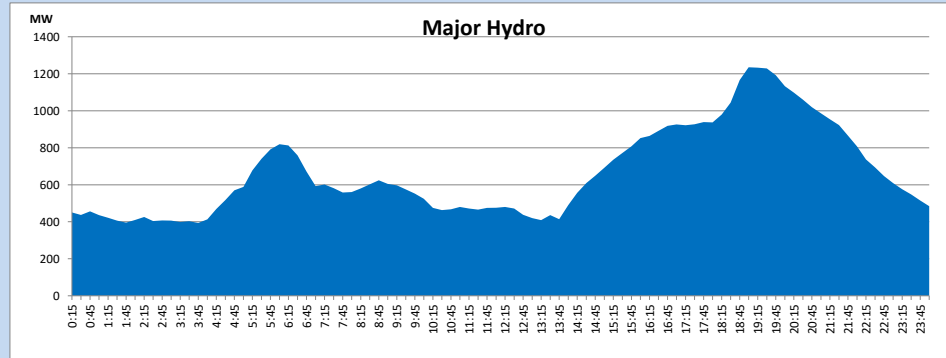
July 25, 2024



**IPP Oil Plant Generation during July 25, 2024**

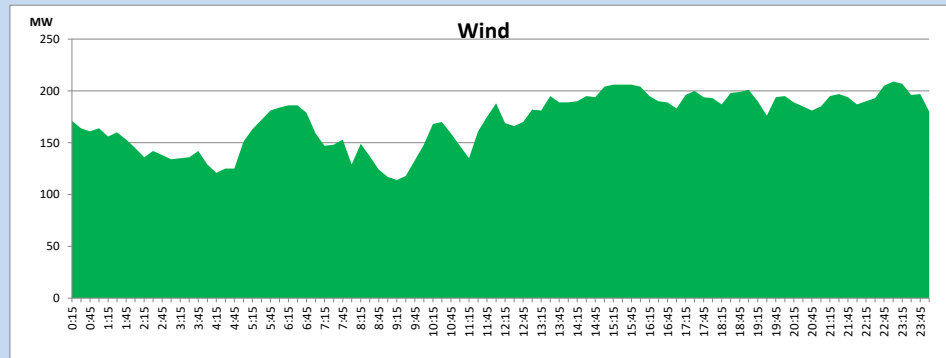


**Major Hydro Generation during July 25, 2024**



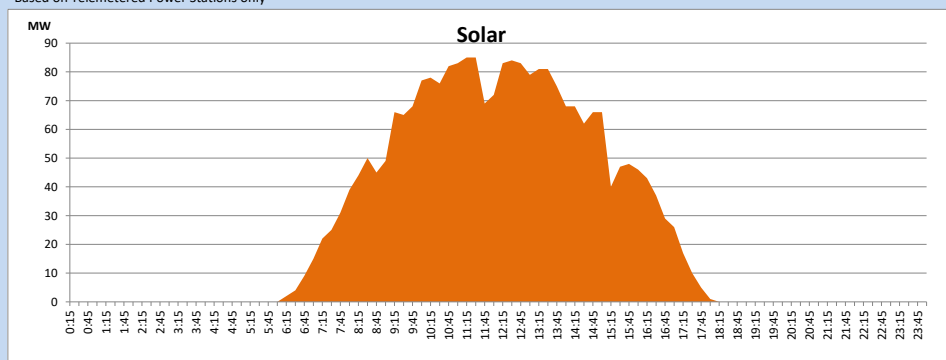
**Wind Generation during July 25, 2024**

Based on Telemetered Power Stations only



**Solar Generation during July 25, 2024**

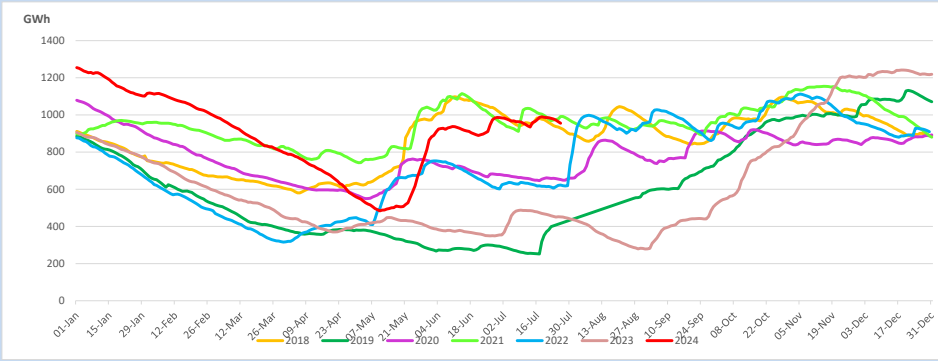
Based on Telemetered Power Stations only



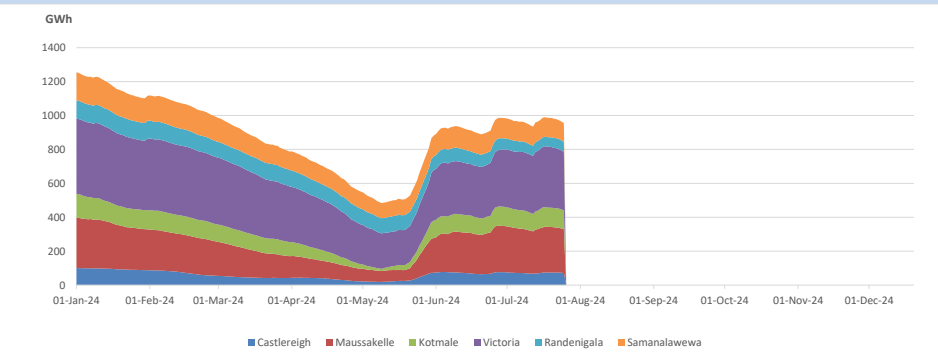
**1.14 Major Incidents reported during the day July 25, 2024**

- 1). New Galle - Deniyaya 132kV cct tripped and A/R from both ends at 07:45hrs due to the operation of distance protection.
- 2). Bowathenna machine made available at 10:18hrs, which was released for annual maintenance and testing on 17.06.2024.
- 3). At 10:51 hrs, Mahiyanganaya 132/33kV transformer O1 tripped only from the 132kV side with the indication of TCS. At that time, T/F O2 was released for maintenance, causing all 33kV feeders to be dead. Transformer O1 and the affected feeders were normalized by 11:15 hrs.

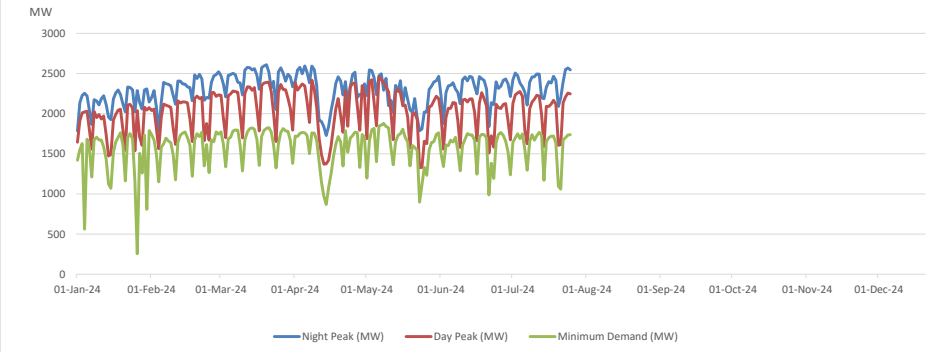
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



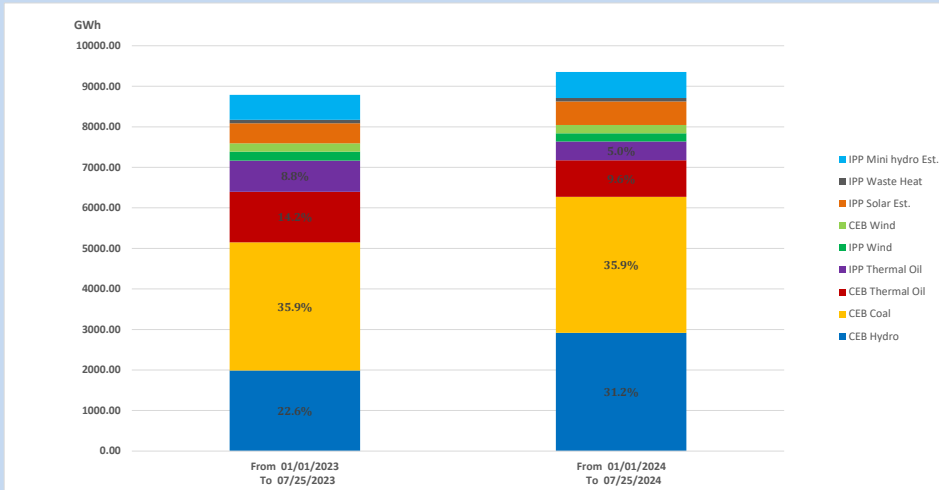
## 4. Variation of Demand during the current year



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



## 5. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 07/25/2023

8788 GWh

From 01/01/2024 To 07/25/2024

9352 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 Power 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              |

## 6. Installed System Capacity

Table 09

|                              | Installed Capacity (MW) |
|------------------------------|-------------------------|
| CEB Hydro                    | 1530                    |
| CEB Coal                     | 810                     |
| CEB Thermal Oil              | 786                     |
| 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)     | 343                     |
| Rooftop Solar (LT Bulk)      | 289                     |
| Rooftop Solar (HT Bulk)      | 84                      |

Data Source - Monthly Review Report [Mar-2024]