

# Generation and Reservoirs Statistics

January 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

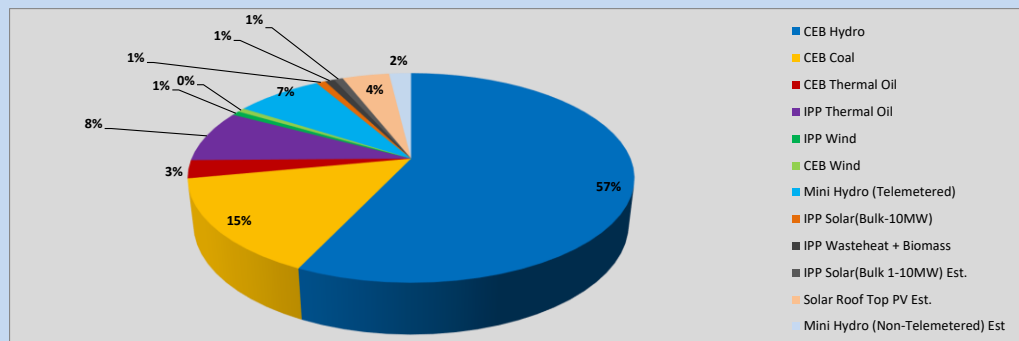


Table 01

|   | Generation (MWh) |
|---|------------------|
| CEB Hydro   | 23,160           |
| CEB Coal  | 6,075            |
| CEB Thermal Oil                                       | 1,130            |
| IPP Thermal Oil                                       | 3,263            |
| IPP Wind  | 281              |
| CEB Wind  | 263              |
| Mini Hydro (Telemetered)                              | 3,058            |
| IPP Solar (Bulk)                                      | 319              |
| IPP Waste heat + Biomass                              | 330              |
| <b>Total Generation (Excluding estimated figures)</b> | <b>37,879</b>    |
| * Estimated unserved energy                           | 0                |
| * Estimated Mini Hydro (Non telemetered)              | 773              |
| * Estimated IPP Solar PV (Bulk 1-10MW)                | 304              |
| * Estimated Solar Roof Top PV                         | 1650             |
| <b>Total Generation (Including estimated figures)</b> | <b>40,606</b>    |

\* Estimated figures of CEB generation report

Table 02

|   | Installed Capacity (MW) |
|---|-------------------------|
| CEB Hydro   | 1409                    |
| CEB Coal  | 810                     |
| CEB Thermal Oil   | 781                     |
| IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya) | 387                     |
| IPP Wind  | 148                     |
| CEB Wind  | 100                     |
| Mini Hydro  | 422                     |
| IPP Waste heat + Biomass                                      | 50                      |
| IPP Solar   | 136                     |
| Rooftop Solar (Ordinary)                                      | 277                     |
| Rooftop Solar (LT Bulk)                                       | 263                     |
| Rooftop Solar (HT Bulk)                                       | 70                      |

Data Source - Monthly Review Report [Aug-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            | 397            | 60.51% |
| CEB Coal             | 93             | 14.22% |
| CEB Thermal Oil      | 12             | 1.76%  |
| IPP Thermal          | 24             | 3.68%  |
| SPP Wind             | 9              | 1.32%  |
| CEB Wind             | 12             | 1.78%  |
| Mini Hydro *         | 70             | 10.61% |
| IPP Solar *          | 35             | 5.35%  |
| IPP Waste heat + BMP | 5              | 0.79%  |
| <b>Total</b>         | <b>655</b>     |        |

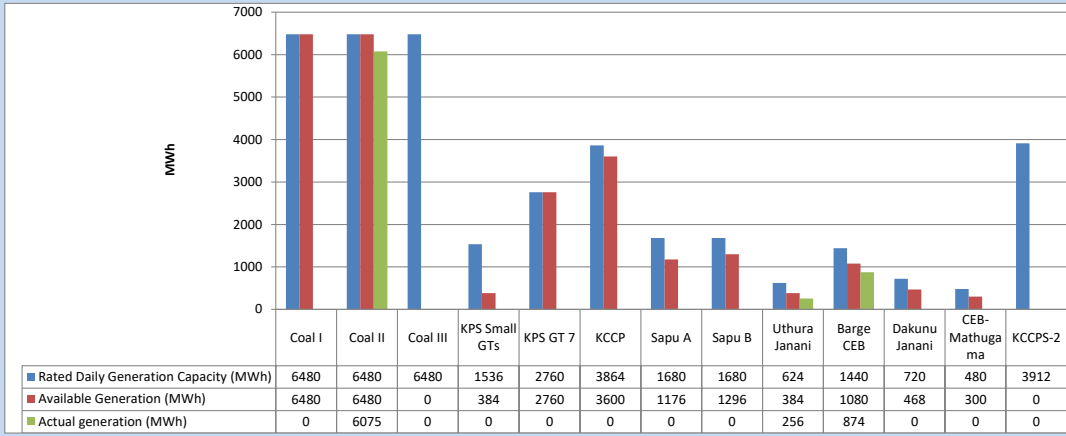
Table 04 - Current Year

| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 397            | 60.51% |
| CEB Coal        | 93             | 14.22% |
| CEB Thermal Oil | 12             | 1.76%  |
| IPP Thermal     | 24             | 3.68%  |
| SPP Wind        | 9              | 1.32%  |
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| Mini Hydro *    | 70             | 10.61% |
| IPP Solar *     | 35             | 5.35%  |
| IPP Waste heat  | 5              | 0.79%  |
| <b>Total</b>    | <b>655</b>     |        |

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

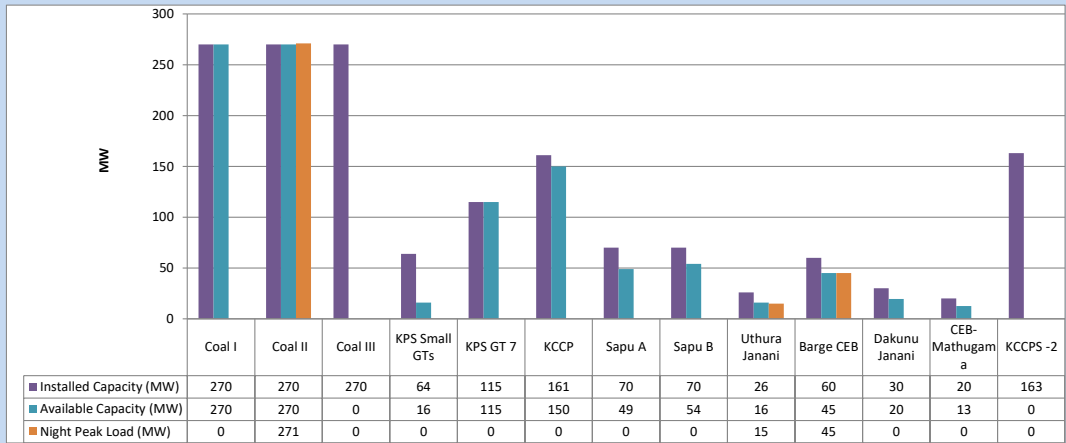
January 16, 2024



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

January 17, 2024

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

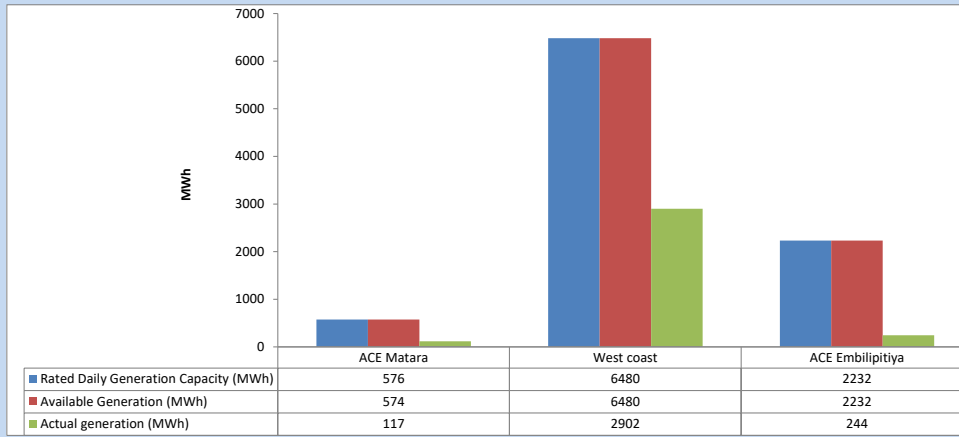


Plant availability is recorded at 6.00 am on

January 17, 2024

### 5. IPP owned Thermal Plant Dispatch

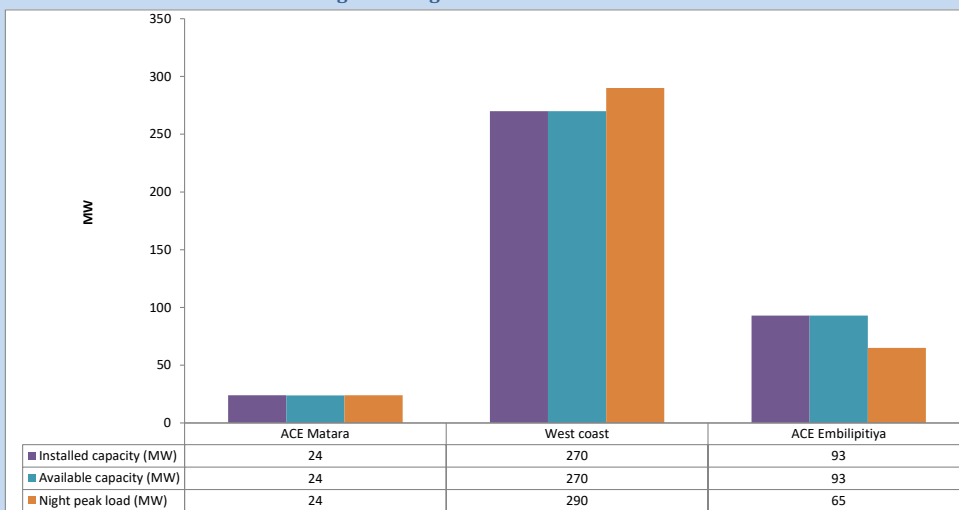
January 16, 2024



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

January 17, 2024

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

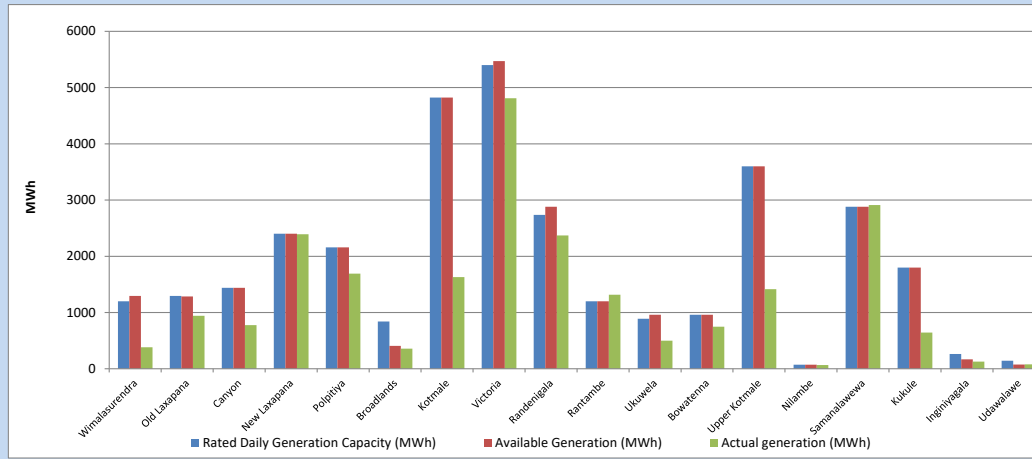


Plant availability is recorded at 6.00 am on

January 17, 2024

## 7. Major Hydro Plant Dispatch

January 16, 2024

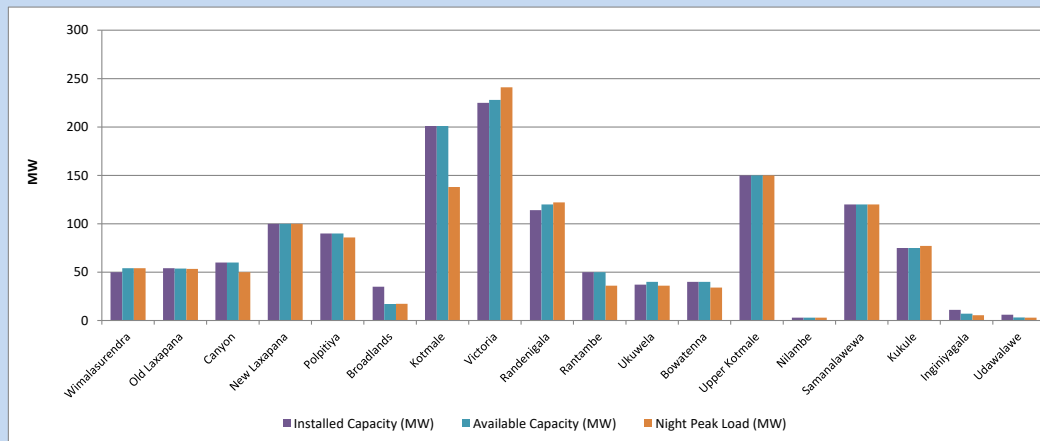


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

January 17, 2024

## 8. Major Hydro Plant Loading at Night Peak

January 16, 2024



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

January 17, 2024

## 9. Summary of Major Plant performance

Table 05

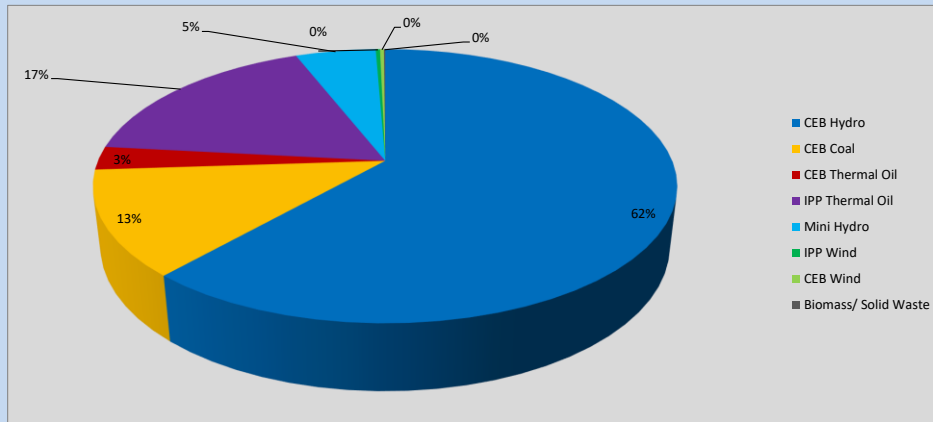
| Plant             | Installed Capacity | Plant Availability | Night peak Load | Plant Dispatch |
|-------------------|--------------------|--------------------|-----------------|----------------|
|                   | (MW)               | (MW)               | (MW)            | (MWh)          |
| Wimalasurendra    | 50                 | 54                 | 54              | 383            |
| Old Laxapana      | 54                 | 54                 | 53              | 943            |
| Canyon            | 60                 | 60                 | 50              | 775            |
| New Laxapana      | 100                | 100                | 100             | 2,393          |
| Polpitiya         | 90                 | 90                 | 86              | 1,690          |
| Broadlands        | 35                 | 17                 | 17              | 359            |
| Kotmale           | 201                | 201                | 138             | 1,630          |
| Victoria          | 225                | 228                | 241             | 4,810          |
| Randenigala       | 114                | 120                | 122             | 2,371          |
| Rantambe          | 50                 | 50                 | 36              | 1,317          |
| Ukuwela           | 37                 | 40                 | 36              | 500            |
| Bowatenna         | 40                 | 40                 | 34              | 749            |
| Upper Kotmale     | 150                | 150                | 150             | 1,414          |
| Nilambe           | 3                  | 3                  | 3               | 66             |
| Samanalawewa      | 120                | 120                | 120             | 2,911          |
| Kukule            | 75                 | 75                 | 77              | 643            |
| Inginiyagala      | 11                 | 7                  | 6               | 128            |
| Udawalawe         | 6                  | 3                  | 3               | 78             |
| Puttalam Coal I   | 270                | 270                | 0               | 0              |
| Puttalam Coal II  | 270                | 270                | 271             | 6,075          |
| Puttalam Coal III | 270                | 0                  | 0               | 0              |
| KPS Small GTs     | 64                 | 16                 | 0               | 0              |
| KPS GT 7          | 115                | 115                | 0               | 0              |
| KCCP              | 161                | 150                | 0               | 0              |
| Sapugaskanda A    | 70                 | 49                 | 0               | 0              |
| Sapugaskanda B    | 70                 | 54                 | 0               | 0              |
| Uthura Janani     | 26                 | 16                 | 15              | 256            |
| Barge CEB         | 60                 | 45                 | 45              | 874            |
| CEB-Hambantota    | 30                 | 20                 | 0               | 0              |
| CEB-Mathugama     | 20                 | 13                 | 0               | 0              |
| ACE Matara        | 24                 | 24                 | 24              | 117            |
| Asia Power        | 50                 | 0                  | 0               | 0              |
| KCCPS -2          | 163                | 0                  | 0               | 0              |
| West Coast        | 270                | 270                | 290             | 2,902          |
| Nothern Power     | 36                 | 0                  | 0               | 0              |
| ACE Embilipitiya  | 93                 | 93                 | 65              | 244            |
| Total             | 3,483              | 2,816              | 2,166           | 37,879         |

Plant availability is the availability recorded at 6 am on

January 17, 2024

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

January 16, 2024



**Table 06**

|                          |      |    |
|--------------------------|------|----|
| CEB Hydro                | 1345 | MW |
| CEB Coal                 | 271  | MW |
| CEB Thermal Oil          | 60   | MW |
| IPP Thermal Oil          | 379  | MW |
| Mini Hydro (Telemetered) | 116  | MW |
| IPP Wind                 | 6.2  | MW |
| CEB Wind                 | 5.6  | MW |
| Biomass/ Solid Waste     | 2    | MW |

#### Recorded Peak Demand Data

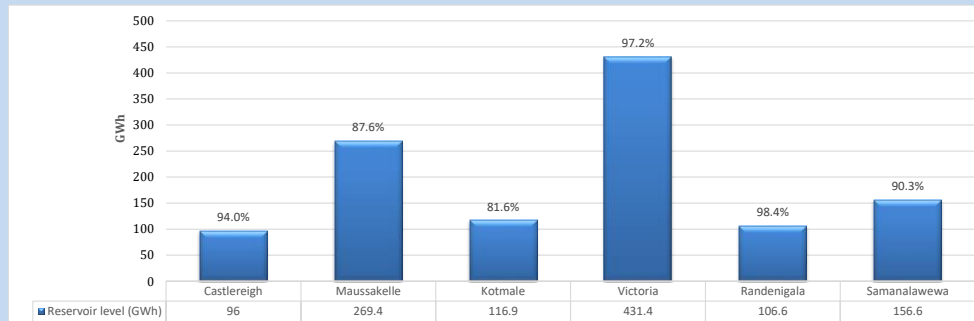
**Table 07**

|                         |       |    |
|-------------------------|-------|----|
| Night Peak*             | 2,184 | MW |
| Day Peak Maximum Demand | 1,922 | MW |
| Day Peak Minimum Demand | 1,521 | MW |
| Off Peak Minimum Demand | 1,033 | MW |

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

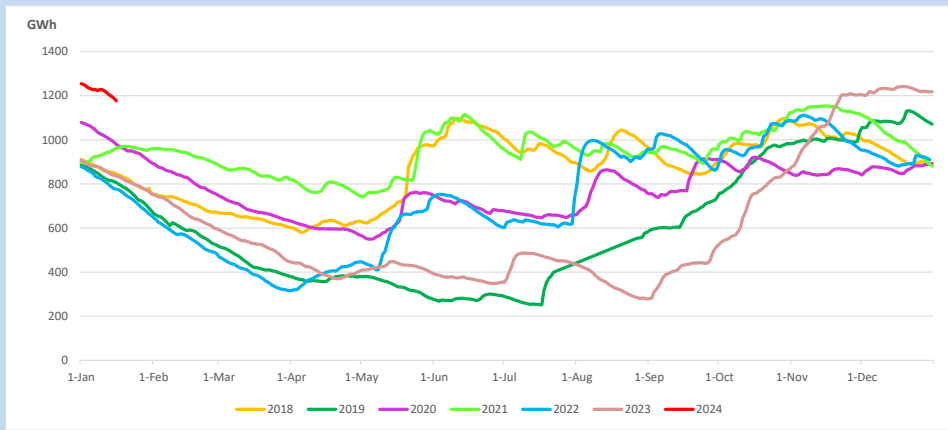
#### Reservoir Levels -

as at 06.00 Hr on January 17, 2024

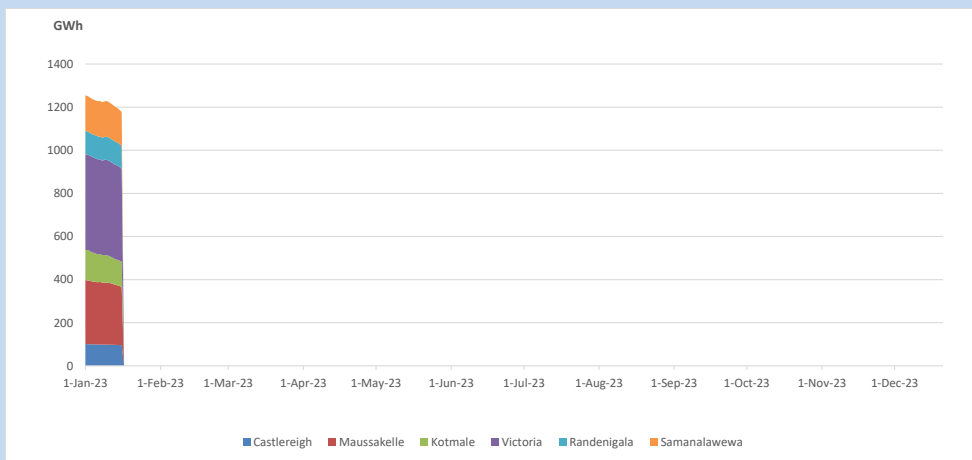


Total Reservoir Level 1176.9 GWh  
% of Total capacity 92.1%

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

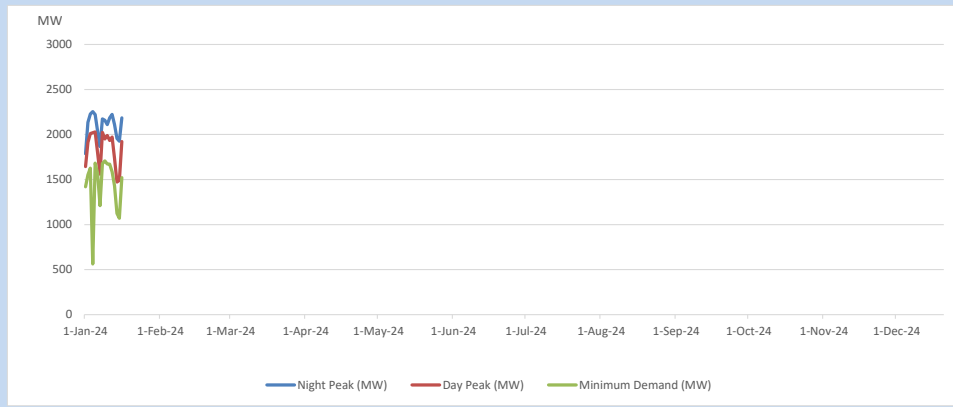


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





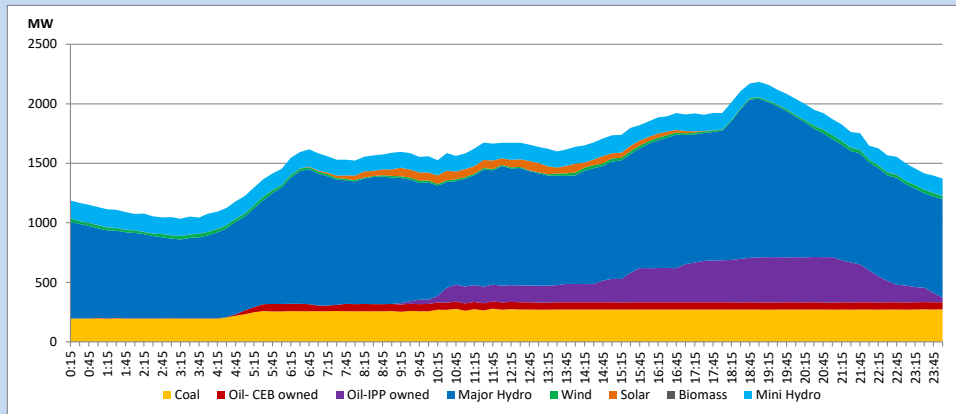
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

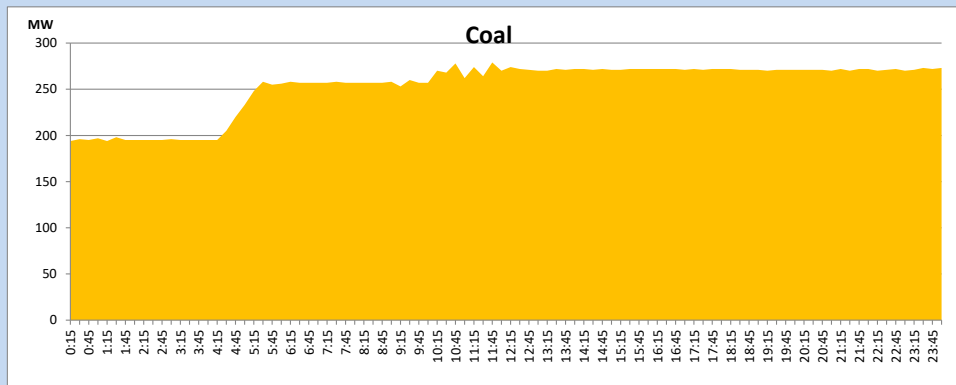
January 16, 2024



Solar and wind data is based on Telemetered Power Stations only

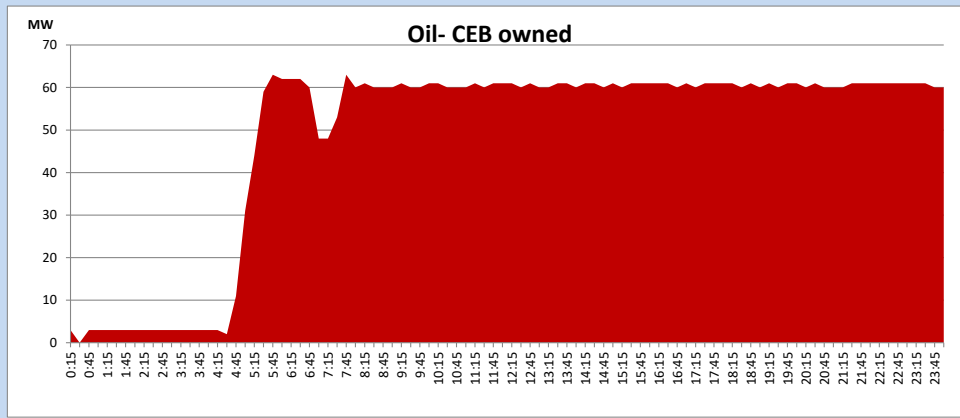
### Coal Generation during

January 16, 2024



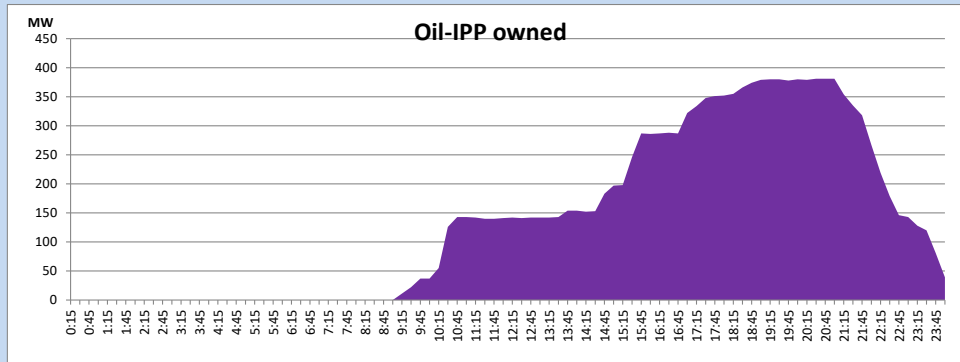
CEB Oil Plant Generation during

January 16, 2024



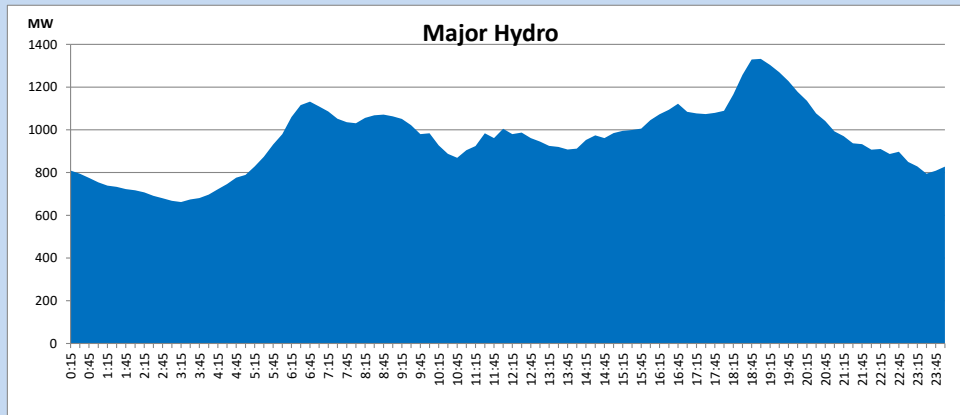
IPP Oil Plant Generation during

January 16, 2024



Major Hydro Generation during

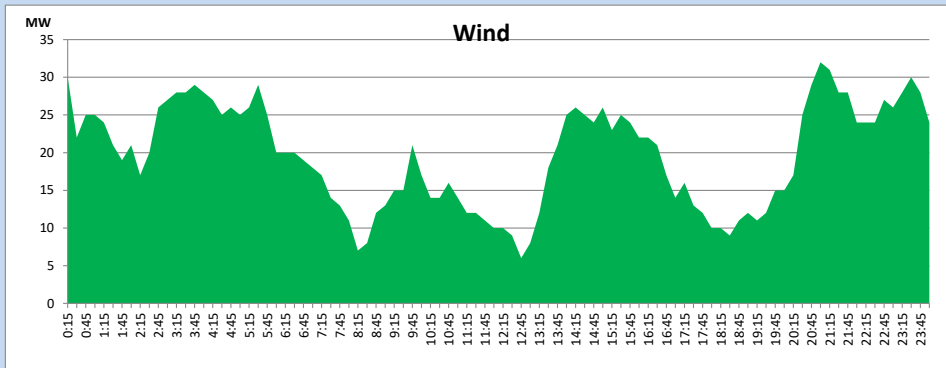
January 16, 2024



## Wind Generation during

January 16, 2024

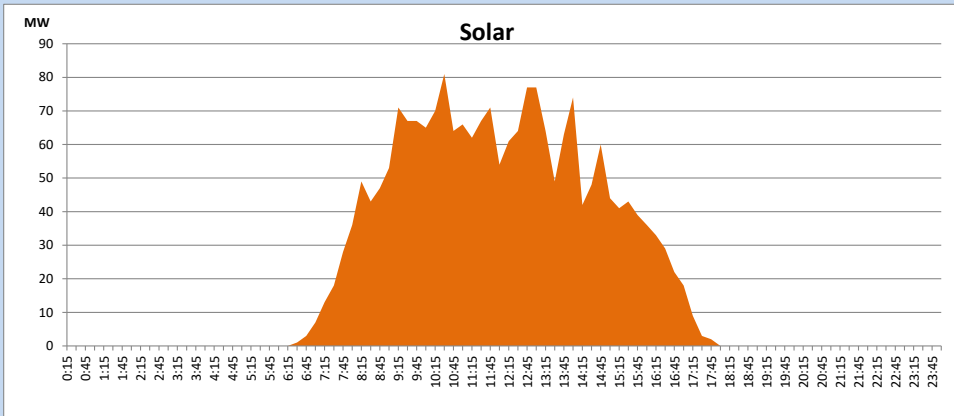
Based on Telemetered Power Stations only



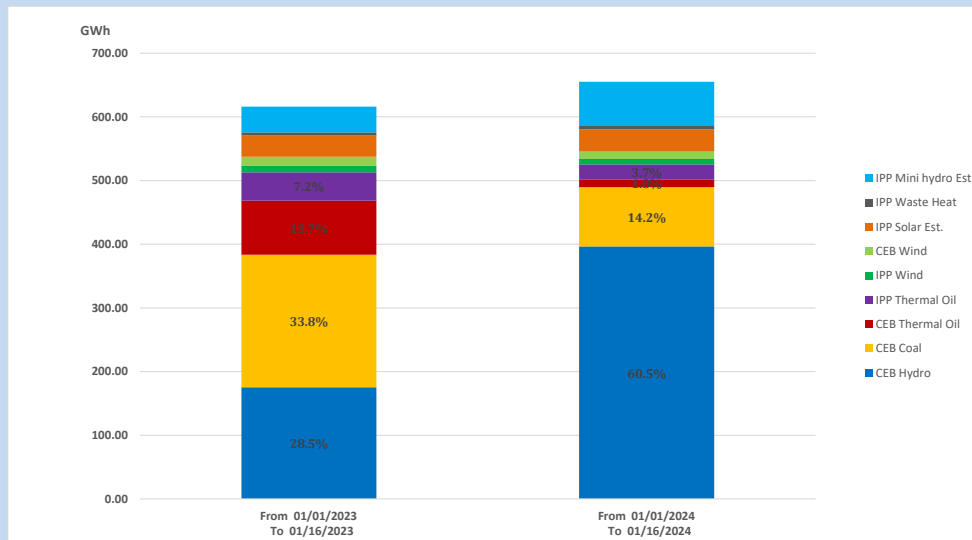
## Solar Generation during

January 16, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
From 01/01/2023 To 01/16/2023  
From 01/01/2024 To 01/16/2024

616 GWh  
655 GWh

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

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 |
| ACE Matara       | Heavy Fuel               |
| ACE Embilipitiya | Heavy Fuel               |

Major Incidents reported during the day

January 16, 2024

- 1). New Anuradhapura – Trinco 132kV cct tripped and A/R from both ends at 01:47hrs (17.01.2024) due to the operation of distance protection