

# **Generation and Reservoirs Statistics**

January 9, 2025



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

January 9, 2025

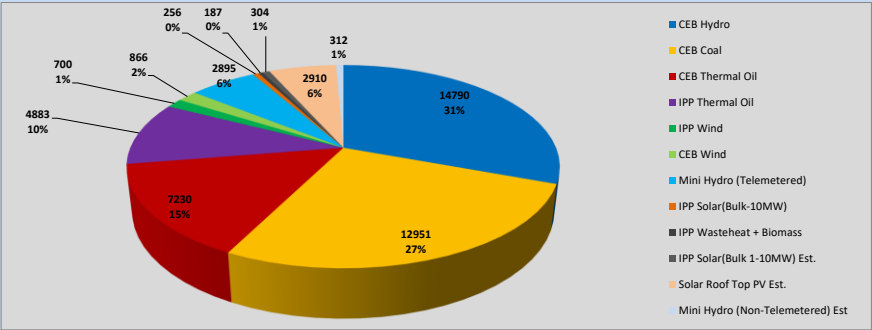


Table 01

|                                                | Generation (MWh) |
|------------------------------------------------|------------------|
| CEB Hydro                                      | 14,790           |
| CEB Coal                                       | 12,951           |
| CEB Thermal Oil                                | 7,230            |
| IPP Thermal Oil                                | 4,883            |
| IPP Wind                                       | 700              |
| CEB Wind                                       | 866              |
| Mini Hydro (Telemetered)                       | 2,895            |
| IPP Solar (Bulk)                               | 256              |
| IPP Waste heat + Biomass                       | 187              |
| Total Generation (Excluding estimated figures) | 44,758           |
| * Estimated unserved energy                    | 0                |
| * Estimated Mini Hydro (Non telemetered)       | 312              |
| * Estimated IPP Solar PV (Bulk 1-10MW)         | 304              |
| * Estimated Solar Roof Top PV                  | 2,910            |
| Total Generation (Including estimated figures) | 48,284           |

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

| Category             | Dispatch (GWh) |        |
|----------------------|----------------|--------|
| CEB Hydro            | 132            | 33.01% |
| CEB Coal             | 116            | 29.10% |
| CEB Thermal Oil      | 56             | 13.95% |
| IPP Thermal          | 17             | 4.22%  |
| IPP Wind             | 6              | 1.61%  |
| CEB Wind             | 8              | 1.94%  |
| Mini Hydro *         | 31             | 7.74%  |
| IPP Solar *          | 31             | 7.65%  |
| IPP Waste heat + BMP | 3              | 0.77%  |
| Total                | 399            |        |

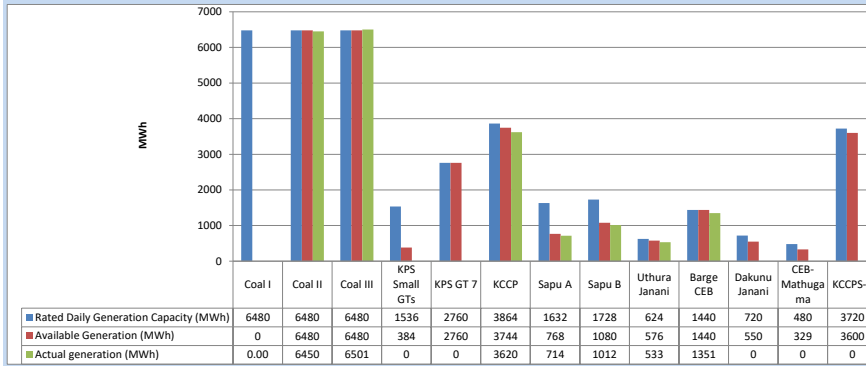
Table 03 - Current Year

| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 132            | 33.01% |
| CEB Coal        | 116            | 29.10% |
| CEB Thermal Oil | 56             | 13.95% |
| IPP Thermal     | 17             | 4.22%  |
| IPP Wind        | 6              | 1.61%  |
| CEB Wind        | 8              | 1.94%  |
| Mini Hydro *    | 31             | 7.74%  |
| IPP Solar *     | 31             | 7.65%  |
| IPP Waste heat  | 3              | 0.77%  |
| Total           | 399            |        |

\*Including estimated contribution from non telemetered plants

## 1.2 CEB owned Thermal Plant Dispatch

January 9, 2025

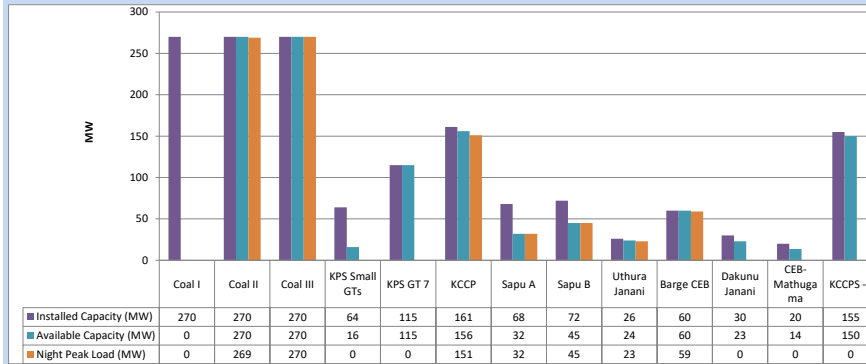


Available Generation is estimated based on plant availability at 6.00am on

January 10, 2025

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

January 9, 2025

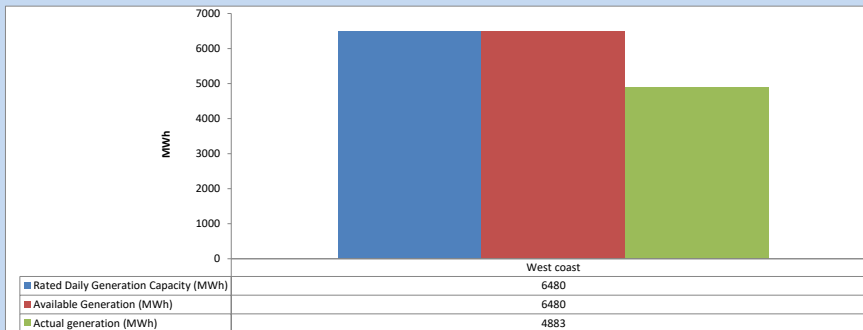


Plant availability is recorded at 6.00 am on

January 10, 2025

## 1.4 IPP owned Thermal Plant Dispatch

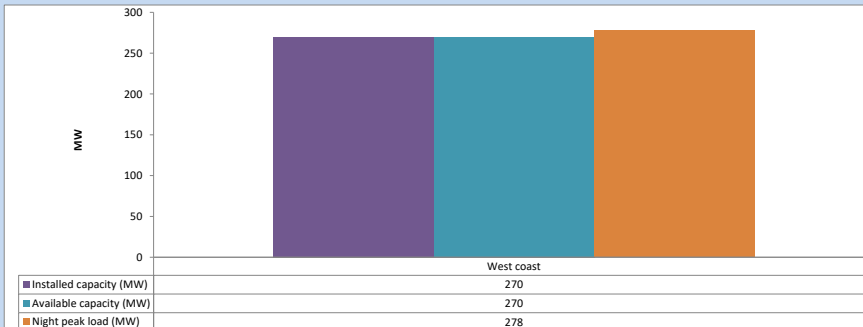
January 9, 2025



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

January 10, 2025

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

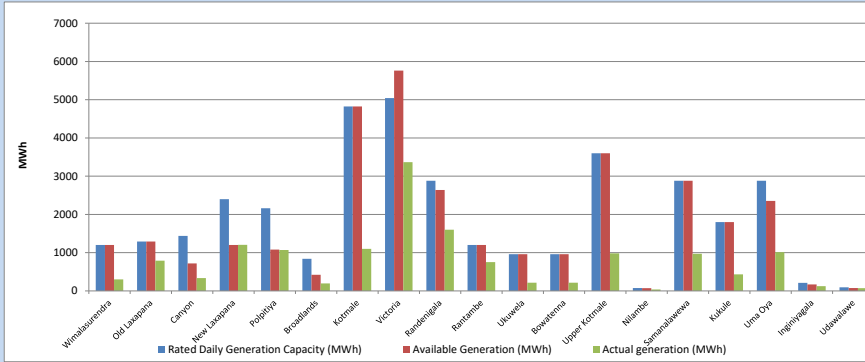


Plant availability is recorded at 6.00 am on

January 10, 2025

## 1.6 Major Hydro Plant Dispatch

January 9, 2025

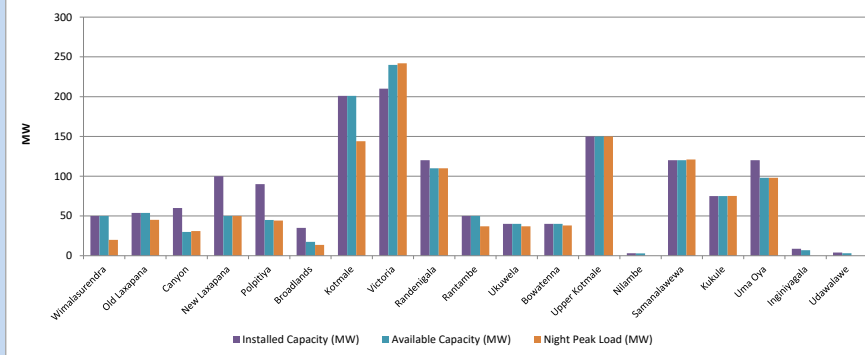


Available Generation is estimated based on plant availability at 6.00am on

January 10, 2025

## 1.7 Major Hydro Plant Loading at Night Peak

January 9, 2025



Plant availability is recorded at 6.00 am on

January 10, 2025

## 1.8 Summary of Major Plant performance

January 9, 2025

Table 04

| Plant             | Maximum Available Total Capacity | Plant Availability | Night peak Load | Plant Dispatch |
|-------------------|----------------------------------|--------------------|-----------------|----------------|
|                   | (MW)                             | (MW)               | (MW)            | (MWh)          |
| Wimalasurendra    | 50                               | 50                 | 20              | 302            |
| Old Laxapana      | 54                               | 54                 | 45              | 791            |
| Canyon            | 60                               | 30                 | 31              | 334            |
| New Laxapana      | 100                              | 50                 | 50              | 1,205          |
| Polpitiya         | 90                               | 45                 | 44              | 1,070          |
| Broadlands        | 35                               | 18                 | 14              | 197            |
| Kotmale           | 201                              | 201                | 144             | 1,100          |
| Victoria          | 210                              | 240                | 242             | 3,366          |
| Randenigala       | 120                              | 110                | 110             | 1,601          |
| Rantambe          | 50                               | 50                 | 37              | 754            |
| Ukuwela           | 40                               | 40                 | 37              | 216            |
| Bowatenna         | 40                               | 40                 | 38              | 216            |
| Upper Kotmale     | 150                              | 150                | 150             | 983            |
| Nilambe           | 3                                | 3                  | 0               | 37             |
| Samanalawewa      | 120                              | 120                | 121             | 972            |
| Kukule            | 75                               | 75                 | 75              | 435            |
| Uma Oya           | 120                              | 98                 | 98              | 1,014          |
| Inginigala        | 9                                | 7                  | 0               | 126            |
| Udawalawe         | 4                                | 3                  | 0               | 72             |
| Puttalam Coal I   | 270                              | 0                  | 0               | 0              |
| Puttalam Coal II  | 270                              | 270                | 269             | 6,450          |
| Puttalam Coal III | 270                              | 270                | 270             | 6,501          |
| KPS Small GTs     | 64                               | 16                 | 0               | 0              |
| KPS GT 7          | 115                              | 115                | 0               | 0              |
| KCCP              | 161                              | 156                | 151             | 3,620          |
| Sapugaskanda A    | 68                               | 32                 | 32              | 714            |
| Sapugaskanda B    | 72                               | 45                 | 45              | 1,012          |
| Uthura Janani     | 26                               | 24                 | 23              | 533            |
| Barge CEB         | 60                               | 60                 | 59              | 1,351          |
| CEB-Hambantota    | 30                               | 23                 | 0               | 0              |
| CEB-Mathugama     | 20                               | 14                 | 0               | 0              |
| KCCPS-2           | 155                              | 150                | 0               | 0              |
| West Coast        | 270                              | 270                | 278             | 4,883          |
| Sobadhanavi       | 220                              | 212                | 0               | 0              |
| Total             | 3,602                            | 2,828              | 2,572           | 39,855         |

Note- Excluding NCRE generation

Plant availability is the availability recorded at 6 am on

January 10, 2025

### 1.9 Contribution to the Night Peak in MW

January 9, 2025

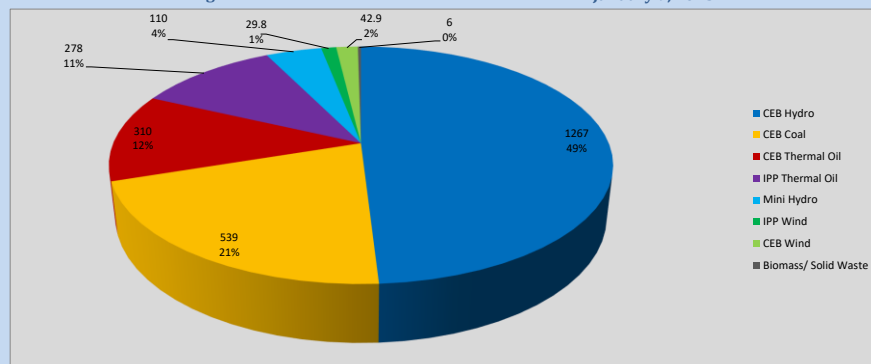


Table 05

|                          |       |    |
|--------------------------|-------|----|
| CEB Hydro                | 1,267 | MW |
| CEB Coal                 | 539   | MW |
| CEB Thermal Oil          | 310   | MW |
| IPP Thermal Oil          | 278   | MW |
| Mini Hydro (Telemetered) | 110   | MW |
| IPP Wind                 | 29.8  | MW |
| CEB Wind                 | 42.9  | MW |
| Biomass/ Solid Waste     | 6     | MW |

### Recorded Peak Demand Data

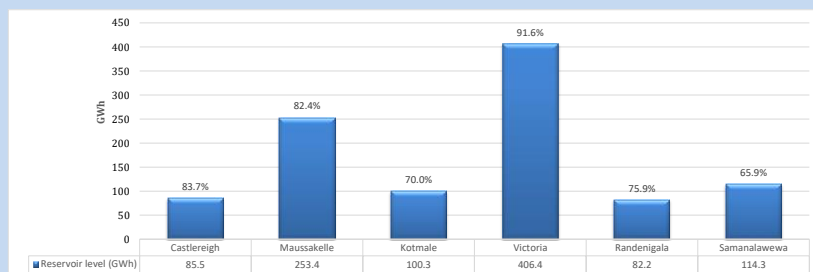
Table 06

|                         |       |    |
|-------------------------|-------|----|
| Night Peak*             | 2,583 | MW |
| Day Peak Maximum Demand | 2,256 | MW |
| Day Peak Minimum Demand | 1,643 | MW |
| Off Peak Minimum Demand | 1,434 | 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 January 10, 2025



Total Reservoir Level  
% of Total capacity

1,042 GWh  
81.5%

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

January 9, 2025

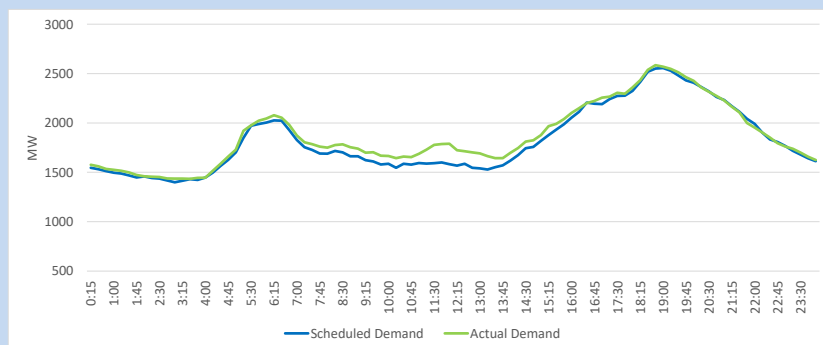
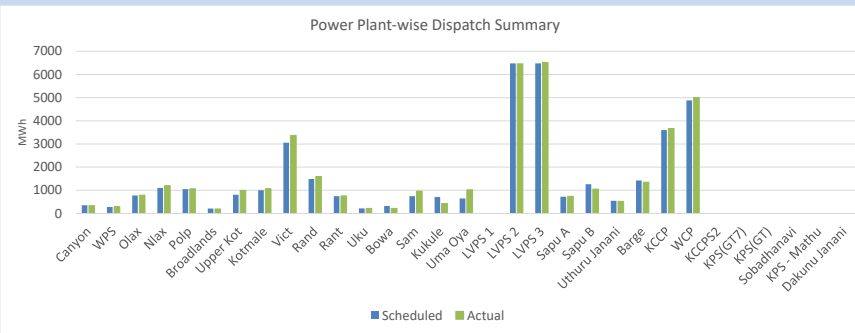


Table 07

| Category                                       | Scheduled Dispatch (MWh) | Actual Dispatch (MWh) | Deviation (MWh) |
|------------------------------------------------|--------------------------|-----------------------|-----------------|
| Major Hydro                                    | 13,513                   | 14,790                | 1,277           |
| CEB Coal                                       | 12,960                   | 12,951                | (9)             |
| CEB Thermal Oil                                | 7,551                    | 7,230                 | (321)           |
| IPP Thermal Oil                                | 4,882                    | 4,883                 | 1               |
| NCRE (excluding non telemetered power plants ) | 4,734                    | 4,904                 | 170             |
| <b>Total</b>                                   | <b>43,639</b>            | <b>44,758</b>         | <b>1,119</b>    |

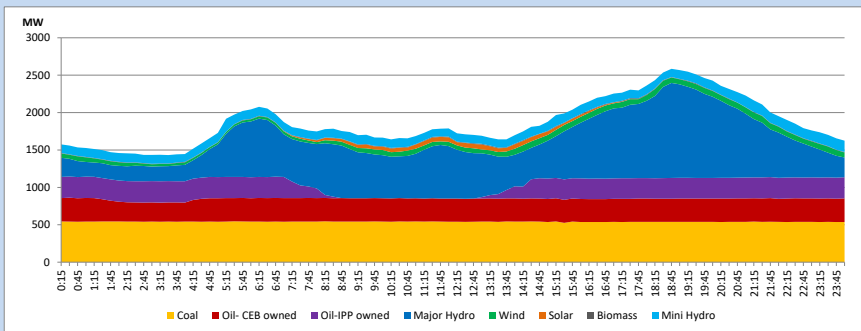
### 1.12 Power Plant-wise Dispatch Summary

January 9, 2025



### 1.13 Daily Load Curve

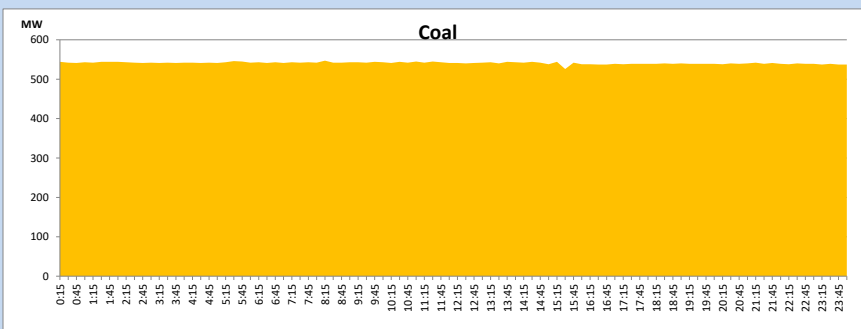
January 9, 2025



Solar and wind data is based on Telemetered Power Stations only

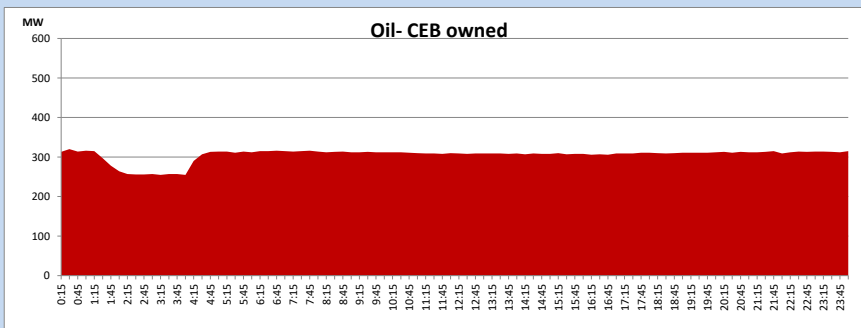
### Coal Generation during

January 9, 2025

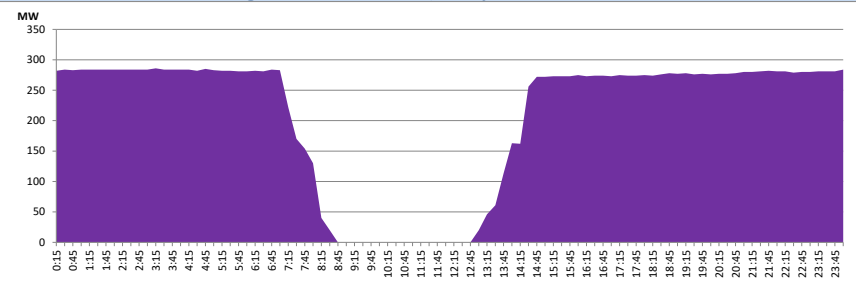


### CEB Oil Plant Generation during

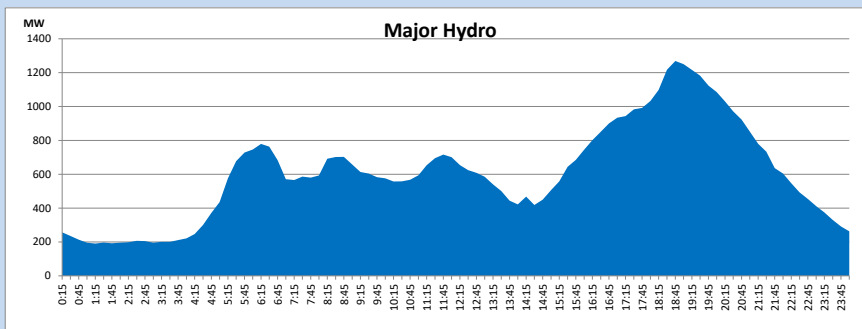
January 9, 2025



#### IPP Oil Plant Generation during January 9, 2025

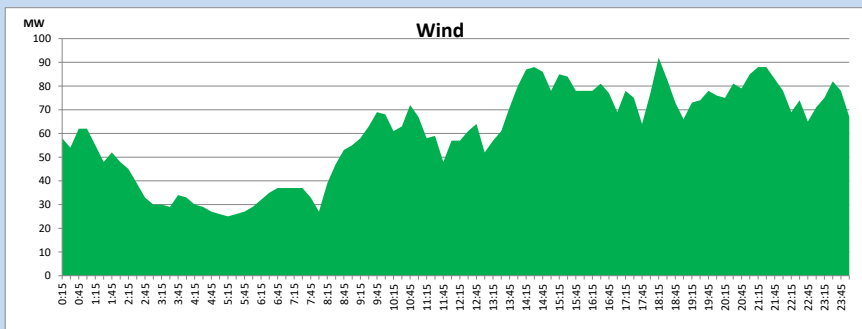


#### Major Hydro Generation during January 9, 2025



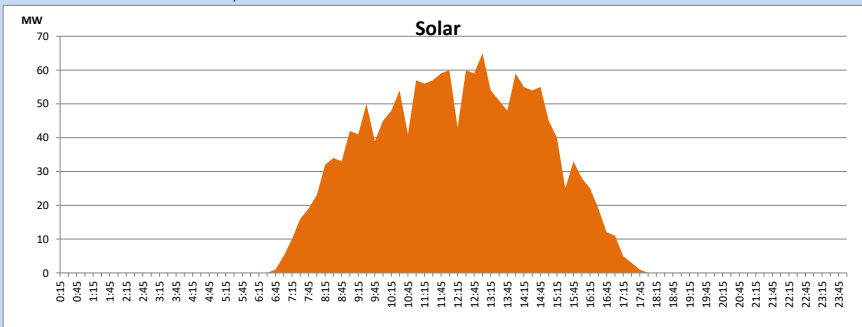
#### Wind Generation during January 9, 2025

Based on Telemetered Power Stations only



#### Solar Generation during January 9, 2025

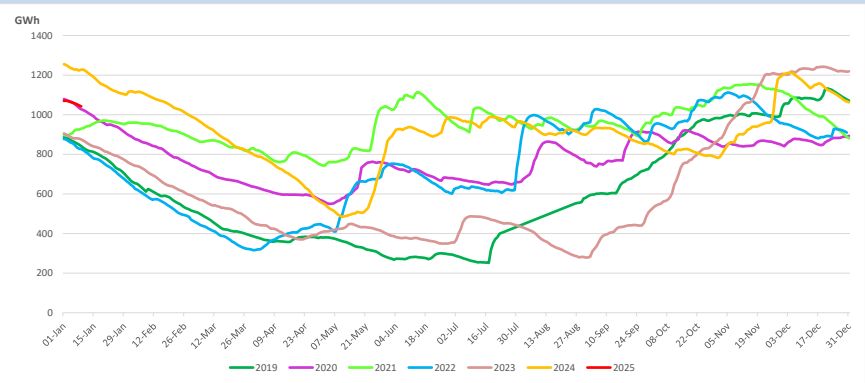
Based on Telemetered Power Stations only



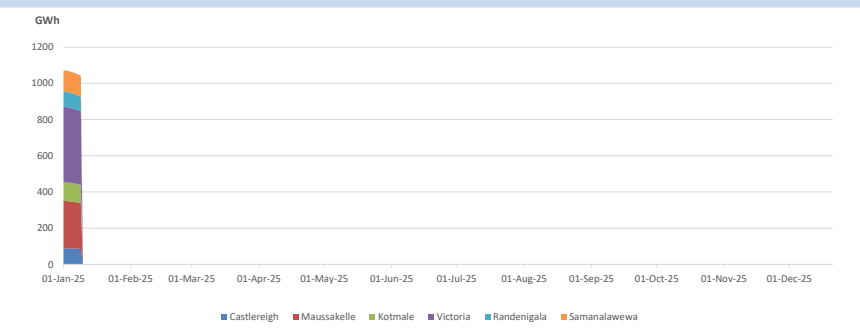
#### 1.14 Major Incidents reported during the day January 9, 2025

Nil

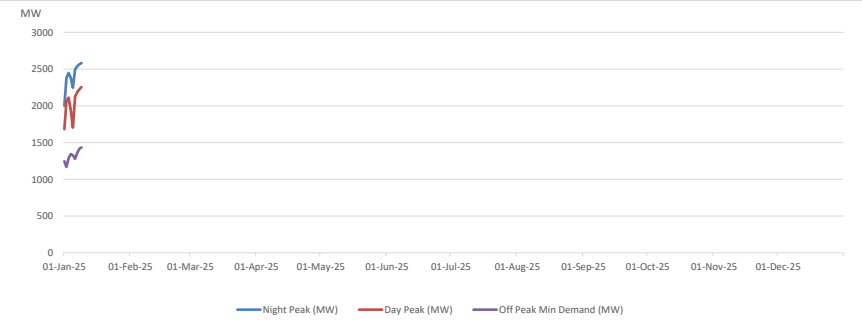
2. Comparison of Total Reservoir Storage Levels with Past Years



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



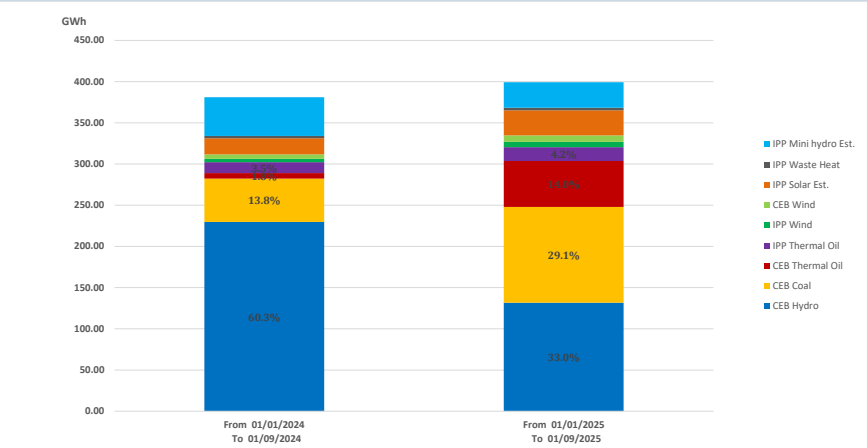
4. Variation of Demand during the current year



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 01/01/2024 To 01/09/2024 381 GWh  
From 01/01/2025 To 01/09/2025 399 GWh  
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

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 Capcity

Table 09

|                                             | Installed Capacity (MW) |
|---------------------------------------------|-------------------------|
| CEB Hydro                                   | 1,531                   |
| CEB Coal                                    | 810                     |
| CEB Thermal Oil                             | 771                     |
| IPP Thermal Oil (West Coast & Sobadhanavi ) | 482                     |
| IPP Wind                                    | 163                     |
| CEB Wind                                    | 100                     |
| Mini Hydro                                  | 424                     |
| IPP Waste heat + Biomass                    | 55                      |
| IPP Solar                                   | 143                     |
| Rooftop Solar (Ordinary) -CEB               | 564                     |
| Rooftop Solar (LT Bulk) -CEB                | 357                     |
| Rooftop Solar (HT Bulk)- CEB                | 110                     |
| Rooftop Solar - LECO                        | 245                     |

Data Source - Monthly Review Report Oct 2024 for NCRE installed capacities except for Rooftop solar LECO