

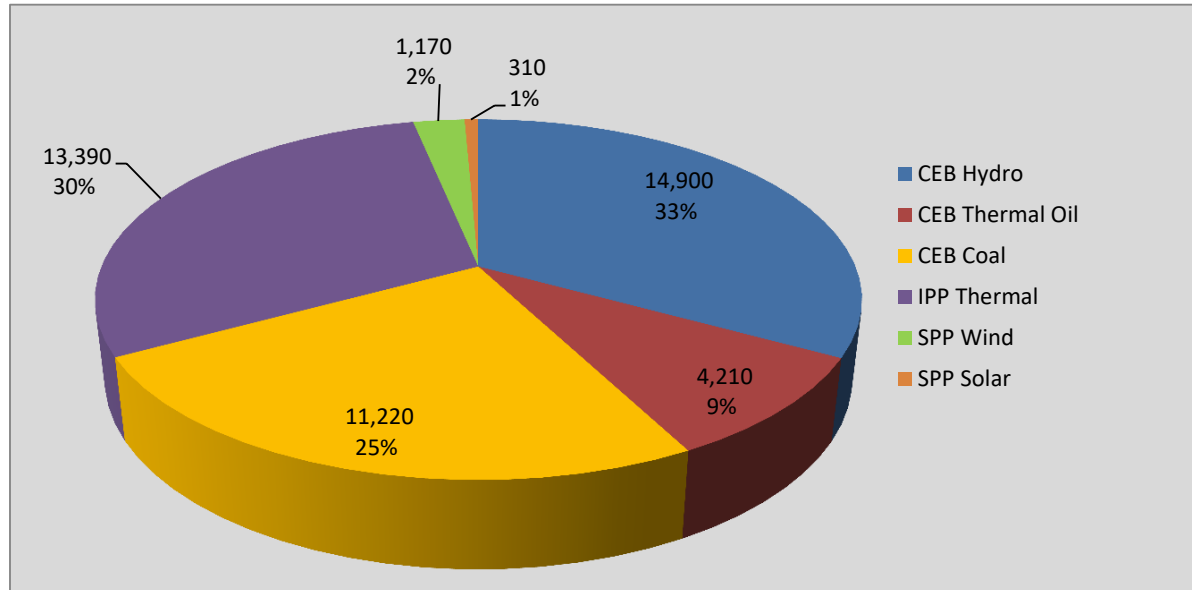
# **Generation and Reservoirs Statistics**

**August 27, 2020**



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## Daily Generation Mix in MWh



**Total Generation 45,190 MWh**

Note: Generation from other SPPs (Mini Hydro and Biomass) is not included

## Cumulative Dispatch

Note: Generation from other SPPs (Mini Hydro, small scale Solar and Biomass) is not included

### For Current Month

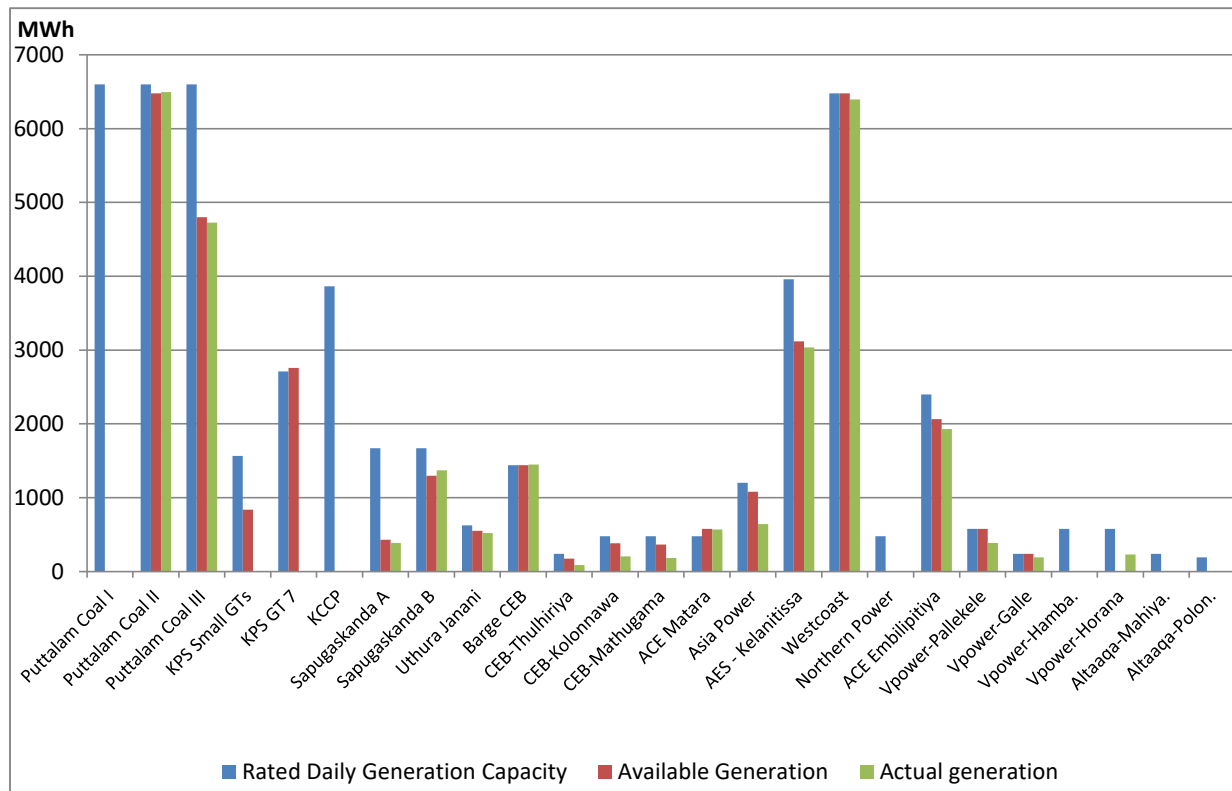
| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 415.1          | 39.23% |
| CEB Thermal Oil | 90.9           | 8.60%  |
| CEB Coal        | 357.8          | 33.82% |
| IPP Thermal     | 155.8          | 14.73% |
| SPP Wind        | 30.8           | 2.91%  |
| SPP Solar       | 7.6            | 0.72%  |
| <b>Total</b>    | <b>1,057.9</b> |        |

### For Current Year

| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 2,277.8        | 24.14% |
| CEB Thermal Oil | 1,038.2        | 11.00% |
| CEB Coal        | 3,927.2        | 41.61% |
| IPP Thermal     | 1,914.5        | 20.29% |
| SPP Wind        | 212.7          | 2.25%  |
| SPP Solar       | 67.3           | 0.71%  |
| <b>Total</b>    | <b>9,437.7</b> |        |

## Thermal Plant Dispatch on

August 27, 2020

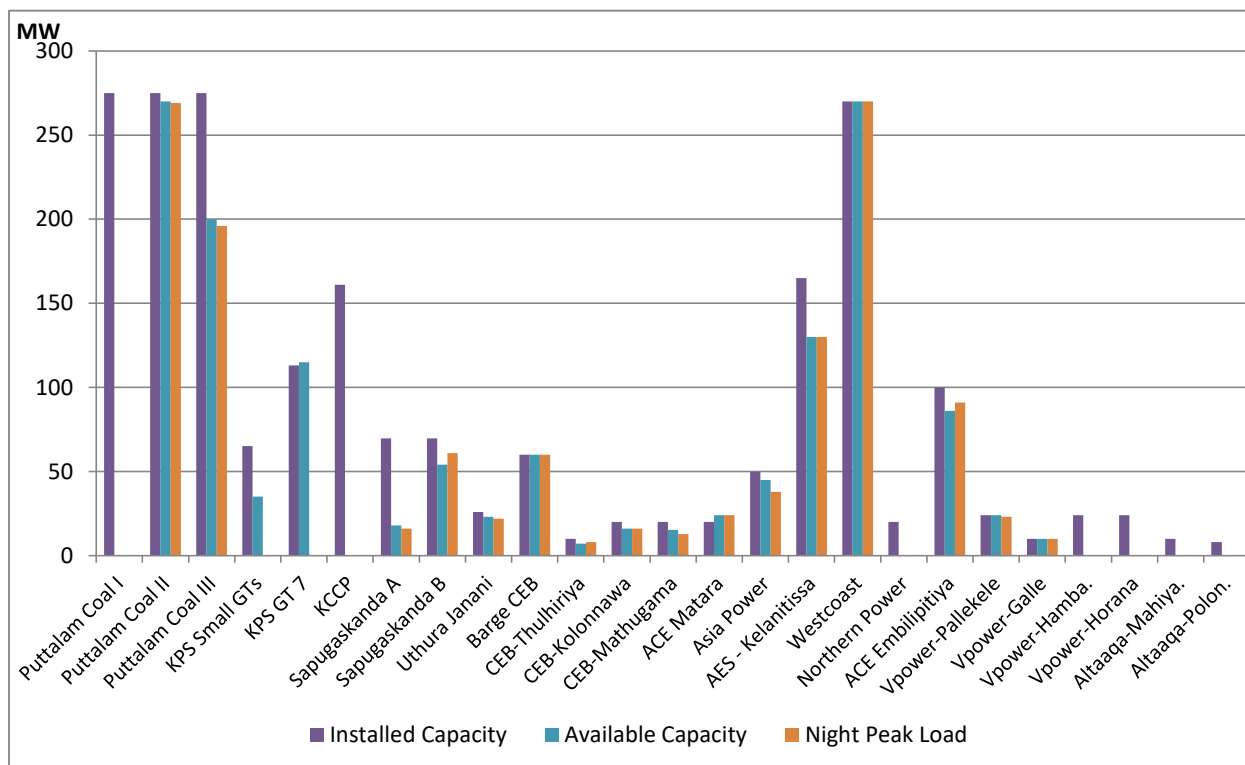


Note- Available Generation is estimated based on plant availability at 6.00am on

August 28, 2020

## Thermal Plant Loading at Night Peak on

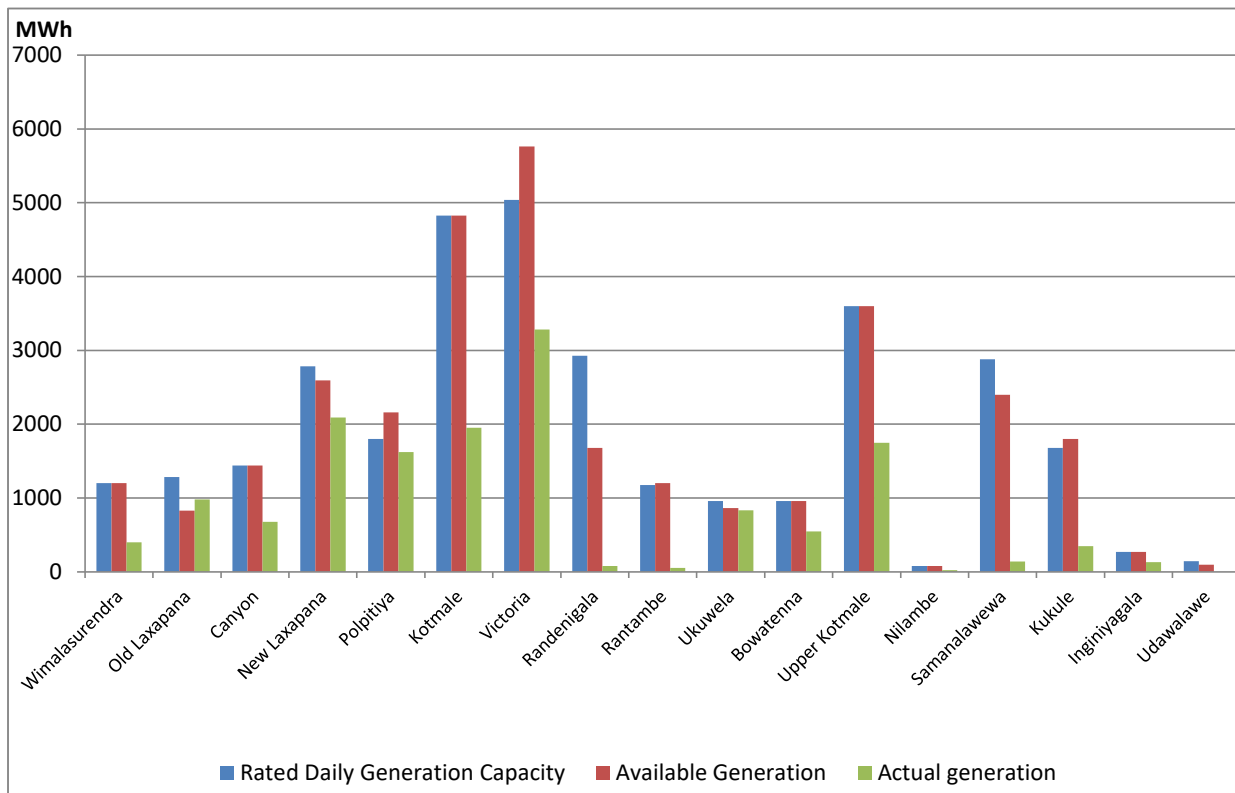
August 27, 2020



Note- Plant availability is recorded at 6.00 am on August 28, 2020

## Major Hydro Plant Dispatch on

August 27, 2020

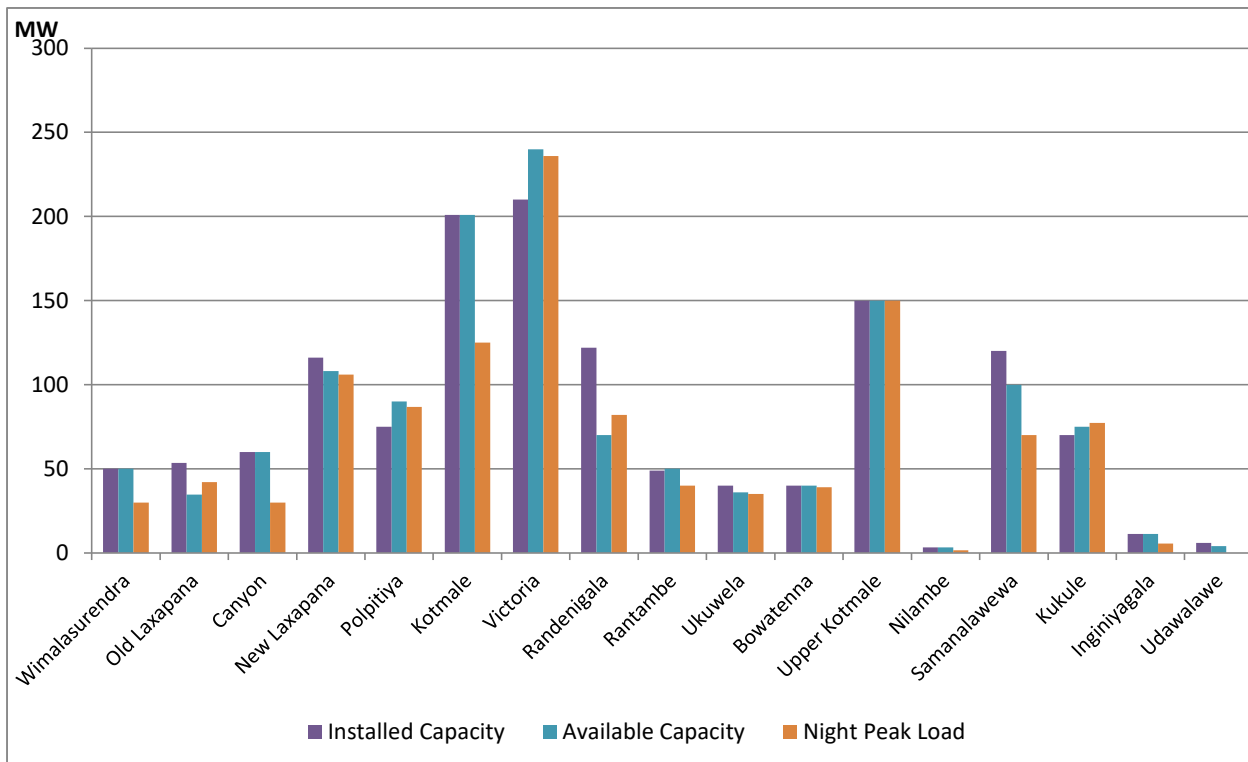


Note- Available Generation is estimated based on plant availability at 6.00am on

August 28, 2020

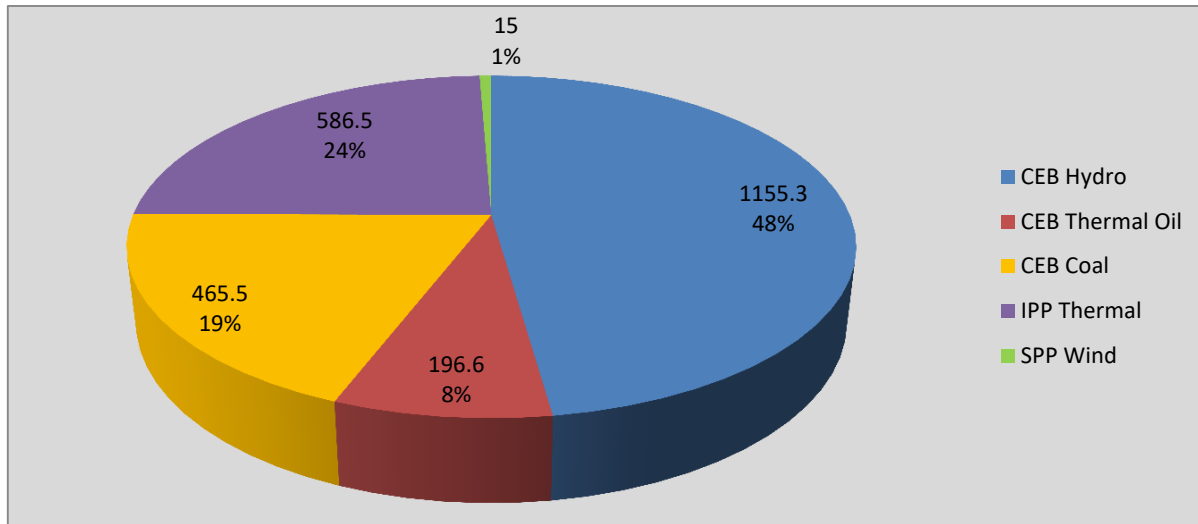
## Major Hydro Plant Loading at Night Peak o

August 27, 2020



Note- Plant availability is recorded at 6.00 am on August 28, 2020

## Contribution to the Night Peak in MW



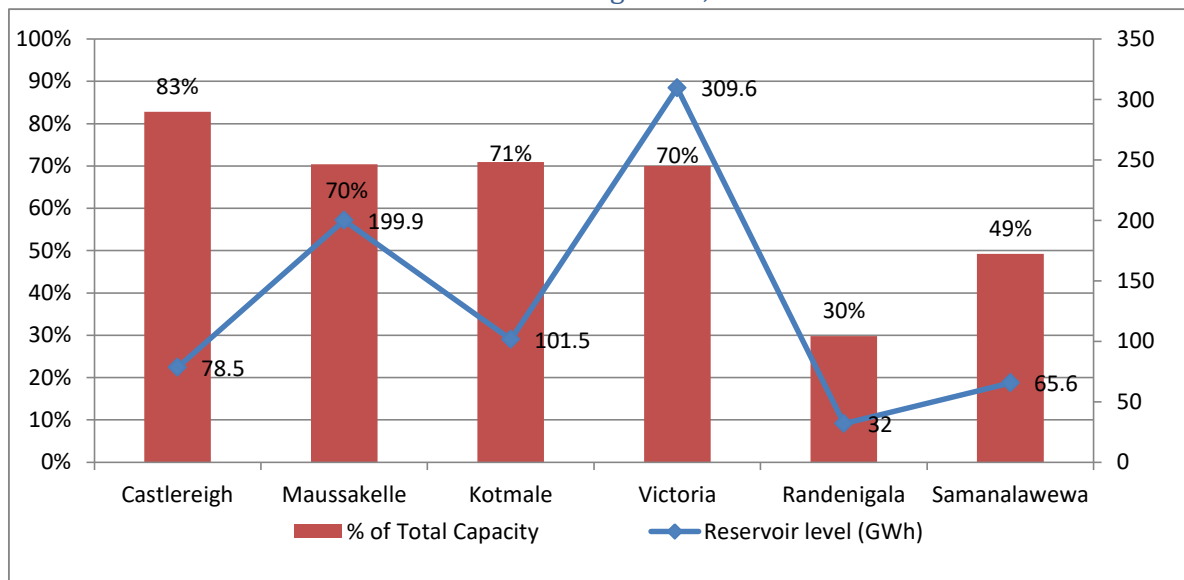
|                |         |    |
|----------------|---------|----|
| Night Peak*    | 2,419.0 | MW |
| Day Peak       | 2,129.5 | MW |
| Minimum Demand | 1,349.7 | MW |

Notes: \*The above chart pattern and night peak figure is presented excluding the contribution of Moragahakanda, other minihydro and biomass power plants from June 8 2020 onwards

\*\*Day peak and Minimum demand includes the contribution from Moragahakanda, wind and solar plants

\* in addition to the night peak figure presented above, Moragahakanda plant, other MiniHydro and Biomass Plants of installed capacity 177.00 MW has recorded total 64.60 MW at the night peak

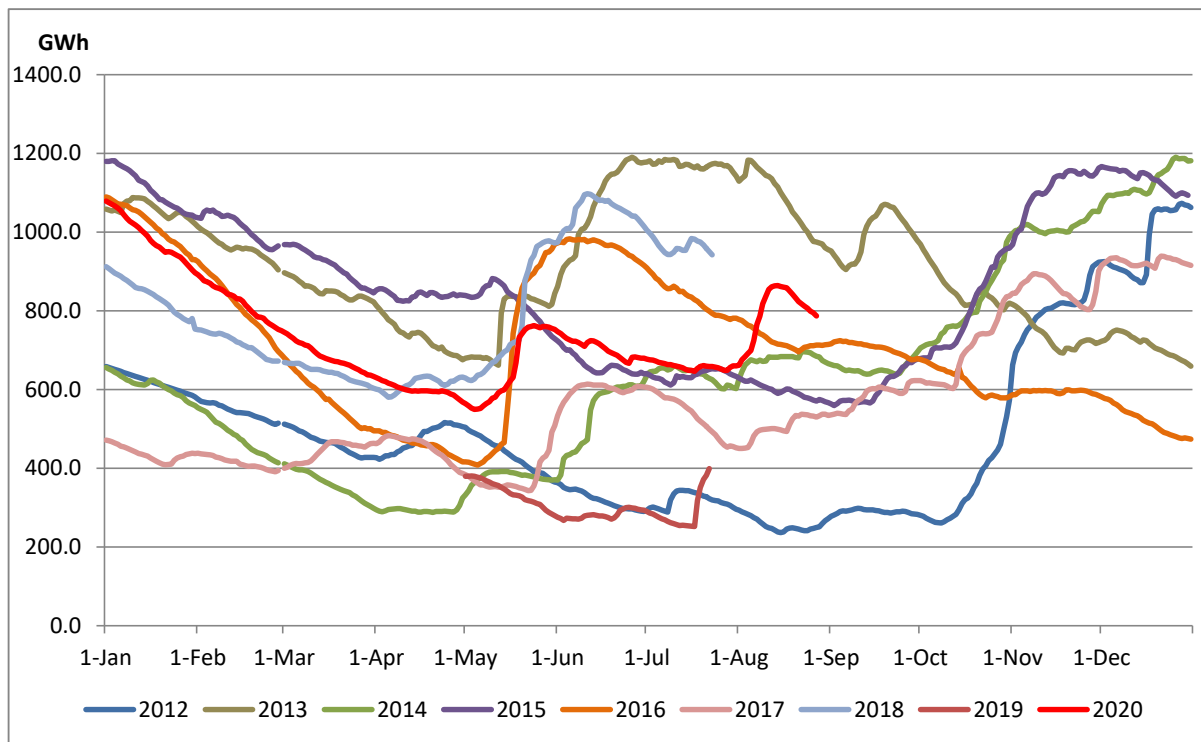
## Reservoir Levels - as at 06.00 Hr on August 28, 2020



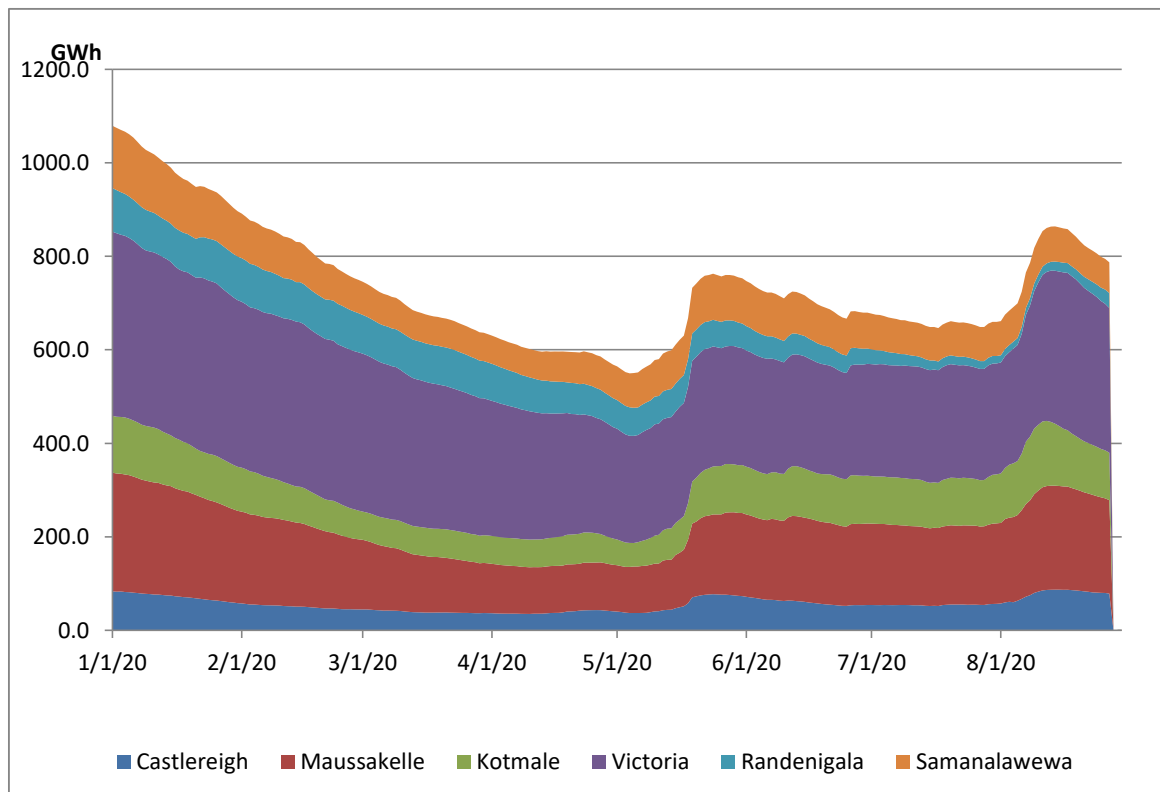
Total Reservoir Level(GWh) 787.1  
% of Total capacity 65.3%

## Comparison of Total Reservoir Storage Levels with Past Years

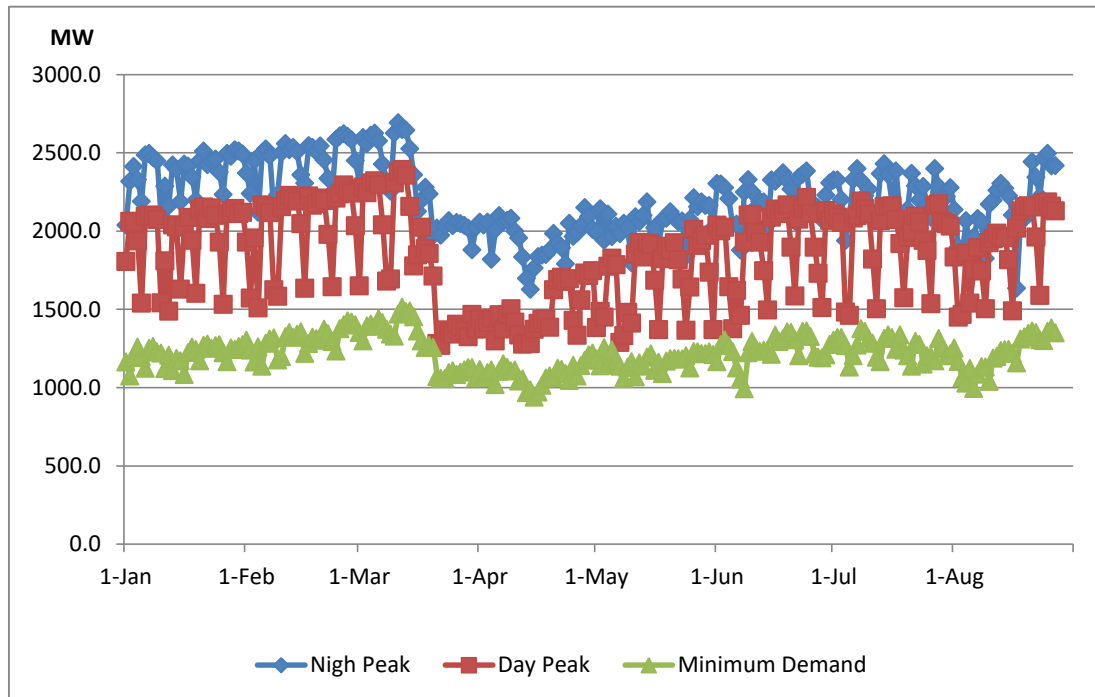
Data from June 2018 to March 2020 are not indicated in the graph



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



## Variation of Demand during the current year



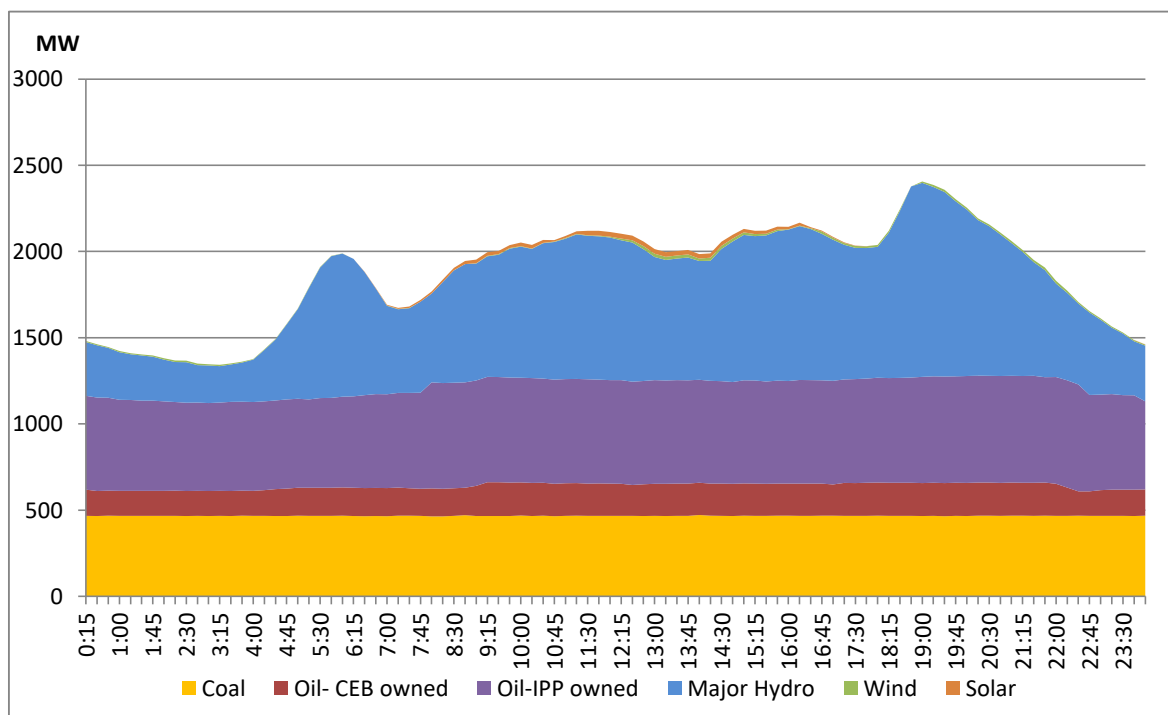
Notes: The night peak graph in the above chart is revised from June 8, 2020 to exclude the contribution from Mini hydro and biomass power plants

Day peak and minimum demand graphs includes the contribution from Moragahakanda power plant

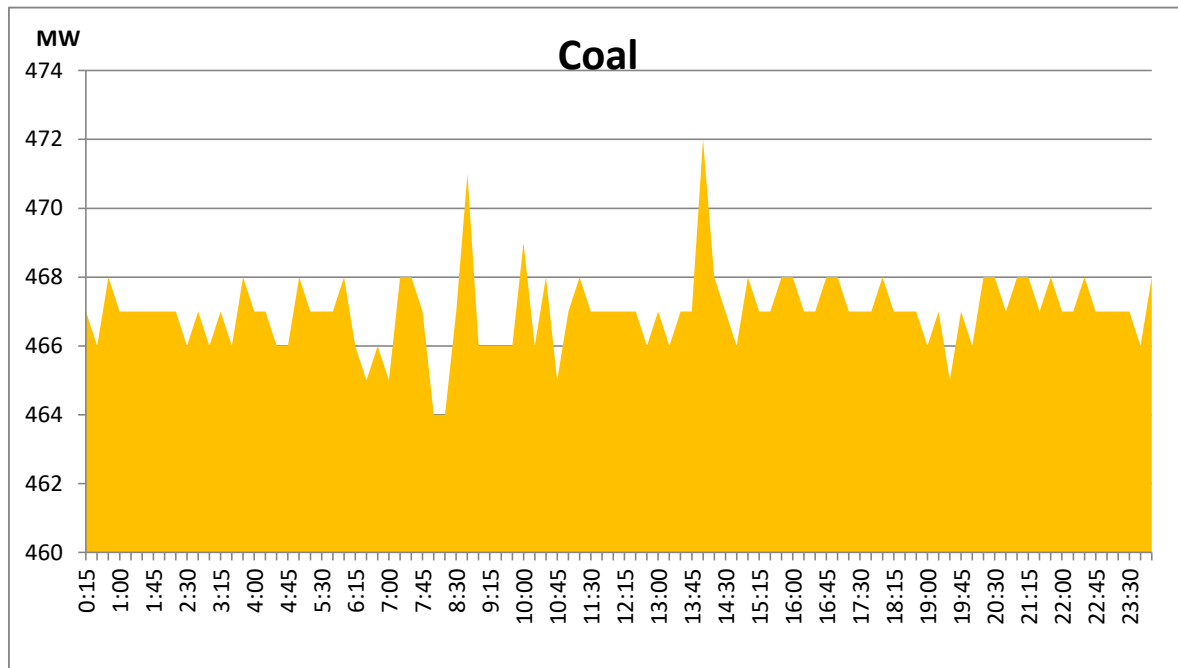
All graphs include the contribution telemetered from solar and wind plants

## Daily Load Curve - August 26, 2020

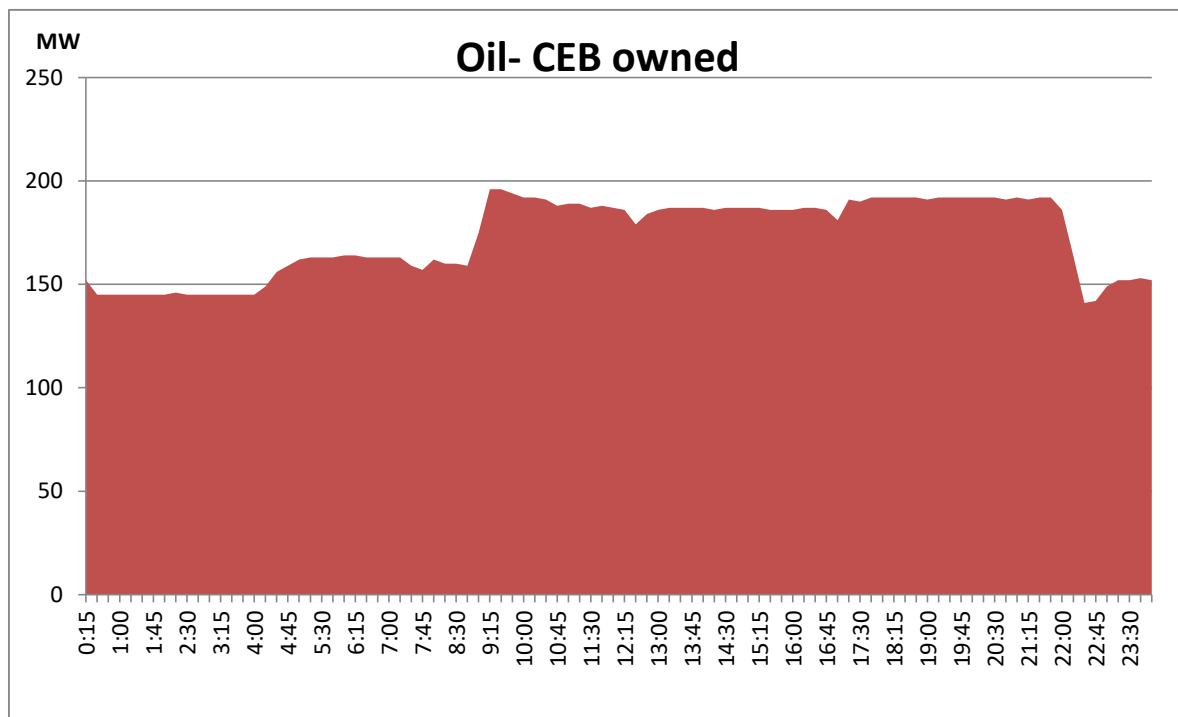
Solar and wind data is based on Telemetered Power Stations only



## Coal generation during the day, August 26, 2020

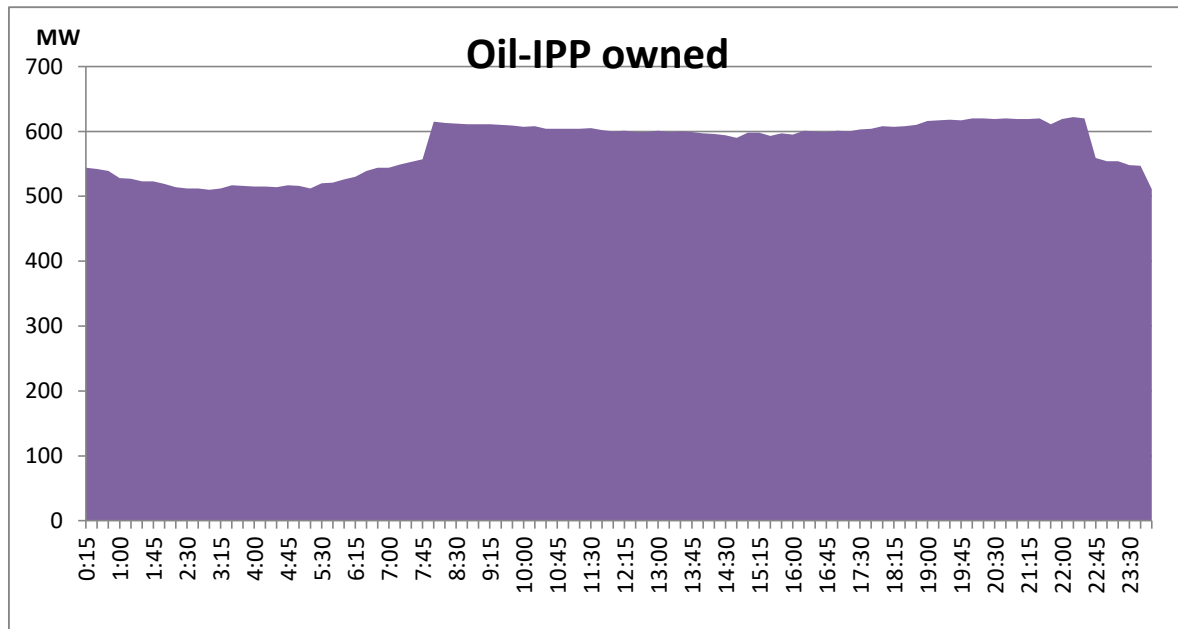


## CEB Oil plant generation during, August 26, 2020

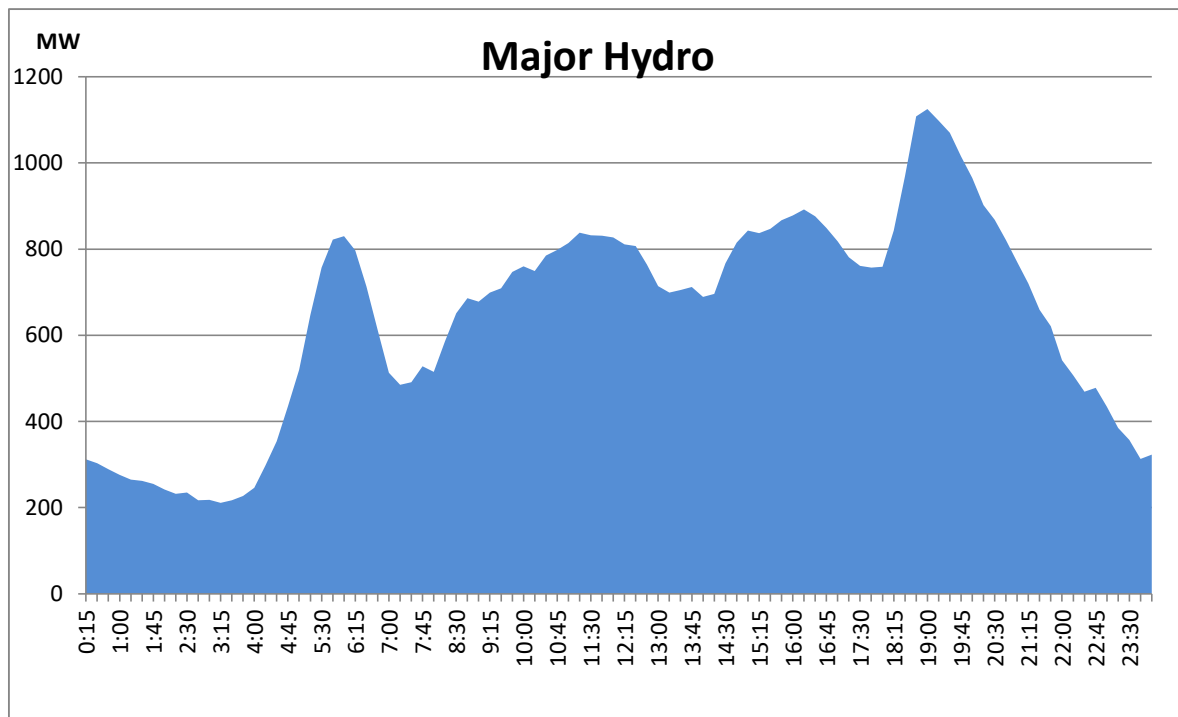




## IPP Oil Plant generation during , August 26, 2020

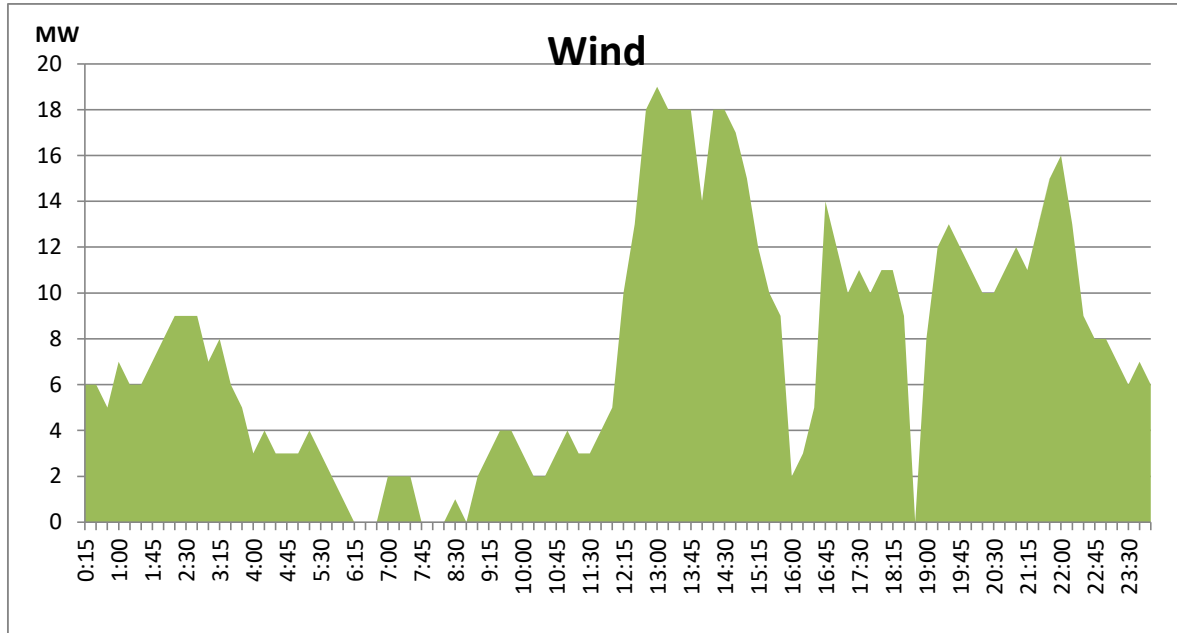


## Major Hydro generation during the August 26, 2020



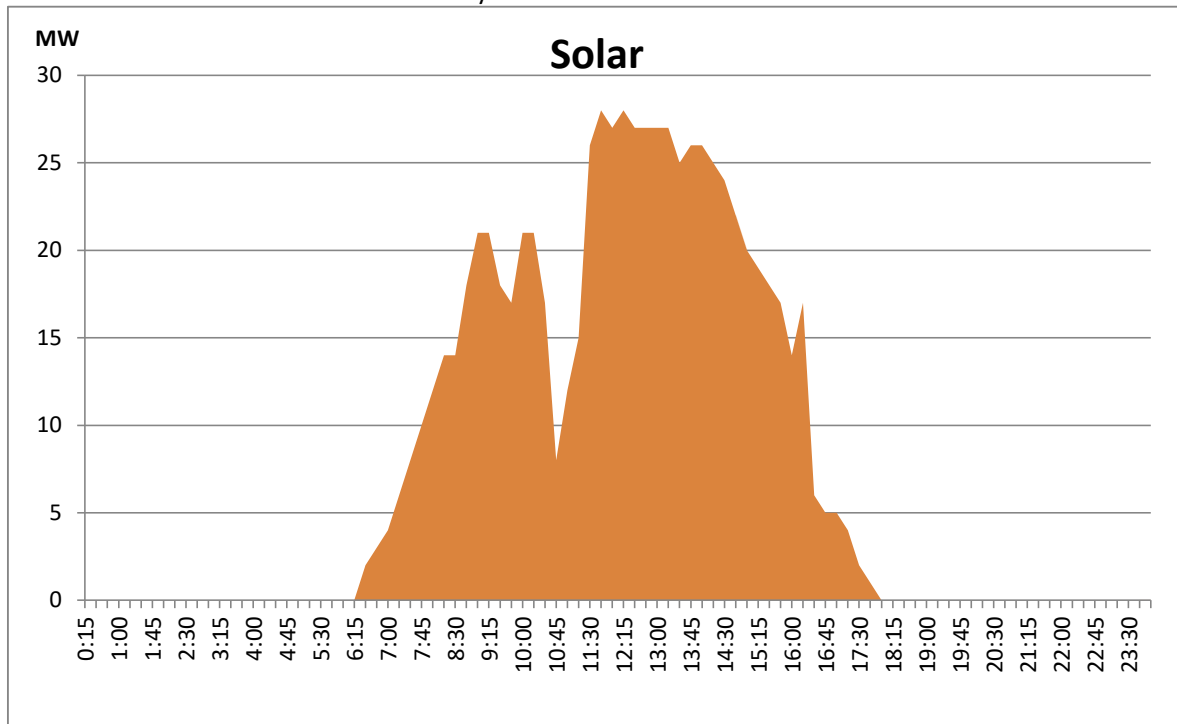
## Wind generation during the day, August 26, 2020

Based on Telemetered Power Stations only



## Solar generation during the day, August 26, 2020

Based on Telemetered Power Stations only



| Plant             | Dispatch (MWh)  | Night peak Load (MW) | Plant Availability (MW)at 6 am |
|-------------------|-----------------|----------------------|--------------------------------|
|                   | August 27, 2020 | August 27, 2020      | August 28, 2020                |
| Wimalasurendra    | 401.00          | 30.00                | 50.00                          |
| Old Laxapana      | 981.00          | 42.10                | 34.60                          |
| Canyon            | 675.00          | 30.00                | 60.00                          |
| New Laxapana      | 2,091.00        | 106.00               | 108.00                         |
| Polpitiya         | 1,622.00        | 86.80                | 90.00                          |
| Kotmale           | 1,950.00        | 125.00               | 201.00                         |
| Victoria          | 3,282.00        | 236.00               | 240.00                         |
| Randenigala       | 77.00           | 82.00                | 70.00                          |
| Rantambe          | 51.00           | 40.00                | 50.00                          |
| Ukuwela           | 834.00          | 35.00                | 36.00                          |
| Bowatenna         | 548.00          | 39.00                | 40.00                          |
| Upper Kotmale     | 1,750.00        | 150.00               | 150.00                         |
| Nilambe           | 22.00           | 1.60                 | 3.20                           |
| Samanalawewa      | 138.00          | 70.00                | 100.00                         |
| Kukule            | 349.00          | 77.20                | 75.00                          |
| Inginiyagala      | 130.00          | 5.50                 | 11.25                          |
| Udawalawe         | -               | -                    | 4.00                           |
| Puttalam Coal I   | -               | -                    | -                              |
| Puttalam Coal II  | 6,495.00        | 269.00               | 270.00                         |
| Puttalam Coal III | 4,726.00        | 196.00               | 200.00                         |
| KPS Small GTs     | -               | -                    | 35.00                          |
| KPS GT 7          | -               | -                    | 115.00                         |
| KCCP              | -               | -                    | -                              |
| Sapugaskanda A    | 388.00          | 16.00                | 18.00                          |
| Sapugaskanda B    | 1,373.00        | 61.00                | 54.00                          |
| Uthura Janani     | 520.00          | 22.00                | 23.00                          |
| Barge CEB         | 1,450.00        | 60.00                | 60.00                          |
| CEB-Thulhiriya    | 89.00           | 8.00                 | 7.20                           |
| CEB-Kolonnawa     | 204.00          | 16.00                | 16.00                          |
| CEB-Mathugama     | 182.00          | 12.80                | 15.20                          |
| ACE Matara        | 570.00          | 24.00                | 24.00                          |
| Asia Power        | 641.00          | 38.00                | 45.00                          |
| AES - Kelanitissa | 3,038.00        | 130.00               | 130.00                         |
| Westcoast         | 6,397.00        | 270.00               | 270.00                         |
| Northern Power    | -               | -                    | -                              |
| ACE Embilipitiya  | 1,930.00        | 91.00                | 86.00                          |
| Vpower-Pallekele  | 385.00          | 23.00                | 24.00                          |
| Vpower-Galle      | 194.00          | 10.00                | 10.00                          |
| Vpower-Hamba.     | -               | -                    | -                              |
| Vpower-Horana     | 232.00          | -                    | -                              |
| Altaaqa-Mahiya.   | -               | -                    | -                              |
| Altaaqa-Polon.    | -               | -                    | -                              |
| Solar             | 308.00          | -                    | Not available                  |
| Wind              | 1,166.00        | 15.00                | Not available                  |
| MH and BM*        | Not available   | 65.00                | Not available                  |

\*Only include data from

177 MW of power plants

**Major Incidents during the day**

1) VPower Horana Plant made forced shutdown at 14:40 hrs due to environmental license issue.

**Thermal Plant Capacity and Fuel types**

| <b>Power Station</b>          | <b>Capacity (MW)</b> | <b>Primary Fuel</b>     |
|-------------------------------|----------------------|-------------------------|
| <b>CEB Hydro</b>              |                      |                         |
| Victoria                      | 210                  |                         |
| Ukuwela                       | 40                   |                         |
| Kotmale                       | 201                  |                         |
| Randenigala                   | 122                  |                         |
| Rantambe                      | 49                   |                         |
| Bowatenna                     | 40                   |                         |
| Nilambe                       | 3.2                  |                         |
| Upper Kotmale                 | 150                  |                         |
| Old Laxapana                  | 50                   |                         |
| New Laxapana                  | 115                  |                         |
| Polpitiya                     | 75                   |                         |
| Wimalasurendra                | 50                   |                         |
| Canyon                        | 60                   |                         |
| Samanalawewa                  | 120                  |                         |
| Kukuleganga                   | 75                   |                         |
| Inginiyagala                  | 10                   |                         |
| Udawalawe                     | 6                    |                         |
|                               |                      |                         |
| <b>CEB Thermal</b>            |                      |                         |
| Sapugaskanda 1                | 72                   | Heavy Fuel              |
| Sapugaskanda 2                | 72                   | Heavy Fuel              |
| Kelanitissa Small Gas Turb    | 68                   | Auto Diesel             |
| GT 7 - Kelanitissa            | 115                  | Auto Diesel             |
| Kelanitissa CCY               | 165                  | Naptha & Diesel         |
| Lakvijaya (Puttalam Coal)     | 275                  | Coal                    |
| Lakvijaya (Puttalam Coal)     | 275                  | Coal                    |
| Lakvijaya (Puttalam Coal)     | 275                  | Coal                    |
| Uthuru Janani                 | 24                   | Heavy Fuel              |
| Barge CEB                     | 60                   | Furnace Oil             |
|                               |                      |                         |
| <b>Private Thermal (IPPs)</b> |                      |                         |
| Asia Power                    | 51                   | Heavy Fuel              |
| Sojitz - Kelanitissa          | 163                  | Auto Diesel             |
| West Coast                    | 270                  | Low Sulphur Furnace oil |
|                               |                      |                         |
| ACE Embilipitiya              | 100                  | Furnace Oil             |