

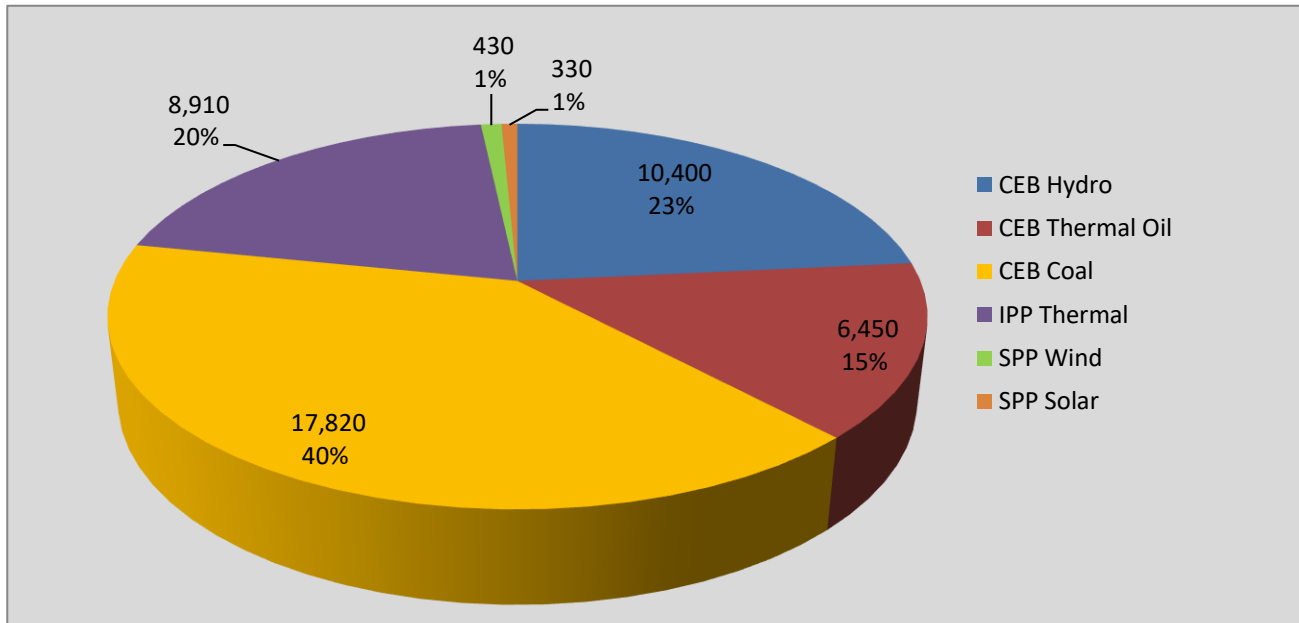
# **Generation and Reservoirs Statistics**

**April 20, 2021**



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## Daily Generation Mix in MWh



**Total Generation** **44,350 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

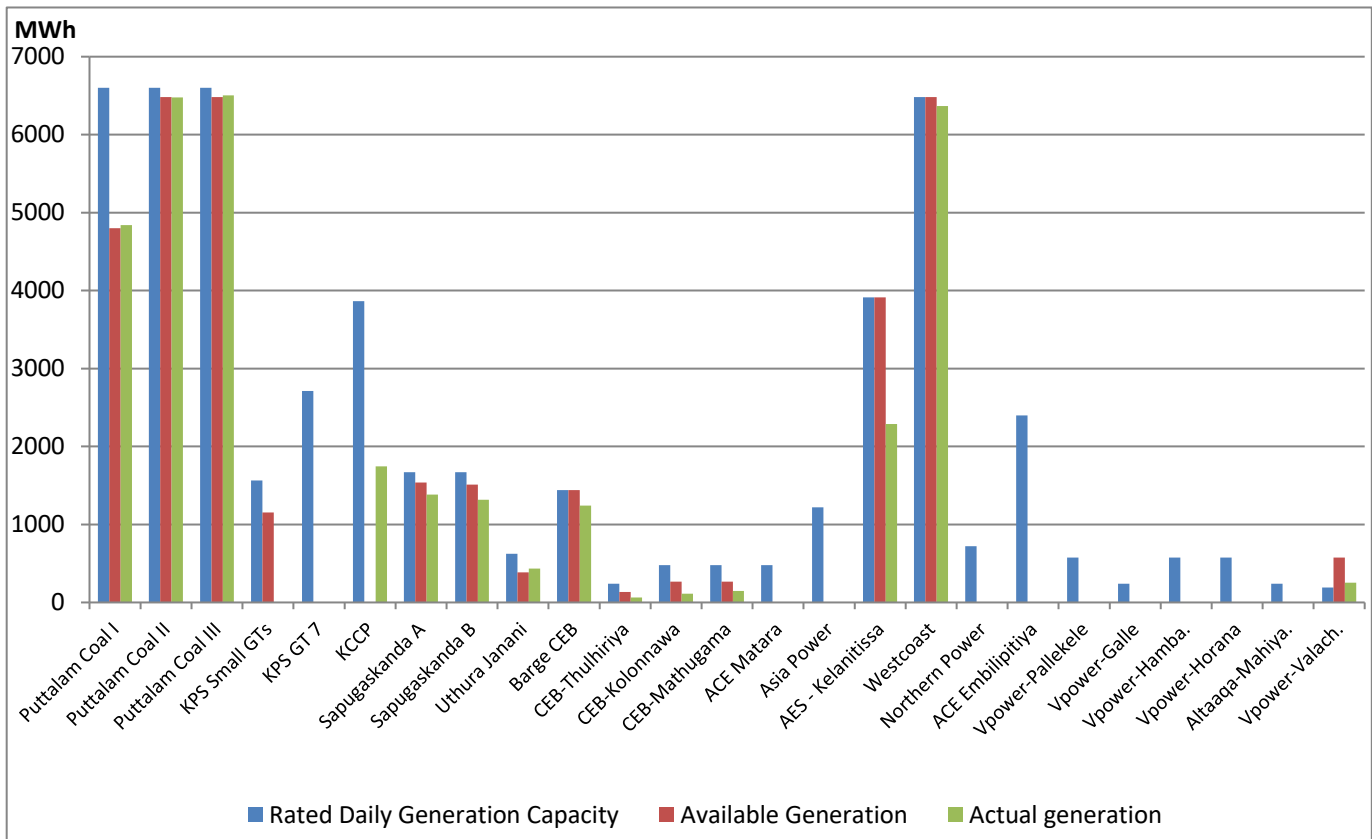
| Category        | Dispatch (GWh) | Percentage |
|-----------------|----------------|------------|
| CEB Hydro       | 192.7          | 23.86%     |
| CEB Thermal Oil | 119.0          | 14.74%     |
| CEB Coal        | 364.6          | 45.16%     |
| IPP Thermal     | 119.1          | 14.76%     |
| SPP Wind        | 6.2            | 0.77%      |
| SPP Solar       | 5.8            | 0.71%      |
| <b>Total</b>    | <b>807.3</b>   |            |

### For Current Year

| Category        | Dispatch (GWh) | Percentage |
|-----------------|----------------|------------|
| CEB Hydro       | 888.2          | 19.66%     |
| CEB Thermal Oil | 551.7          | 12.21%     |
| CEB Coal        | 2,085.7        | 46.17%     |
| IPP Thermal     | 922.6          | 20.42%     |
| SPP Wind        | 31.8           | 0.70%      |
| SPP Solar       | 27.9           | 0.62%      |
| <b>Total</b>    | <b>4,517.5</b> |            |

# Thermal Plant Dispatch

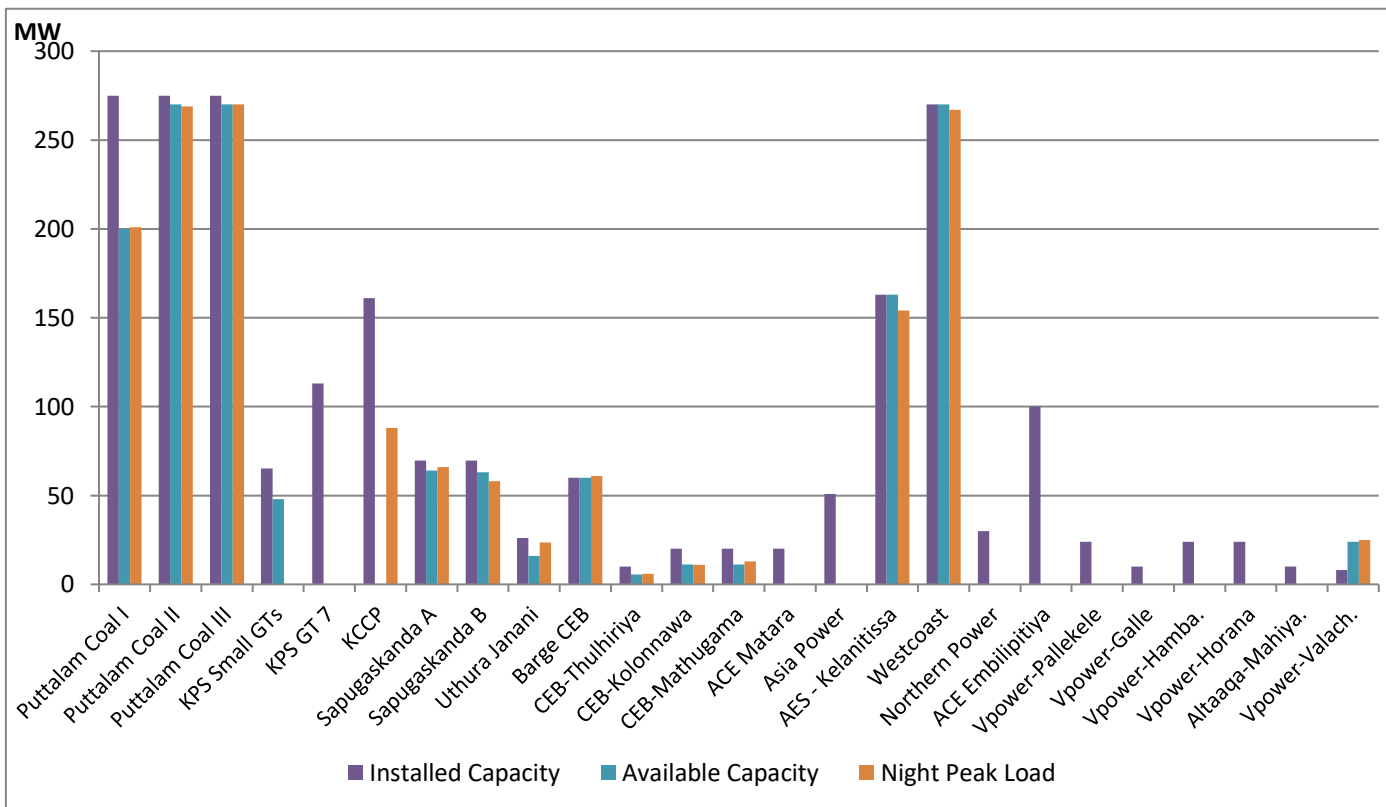
April 20, 2021



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

April 21, 2021

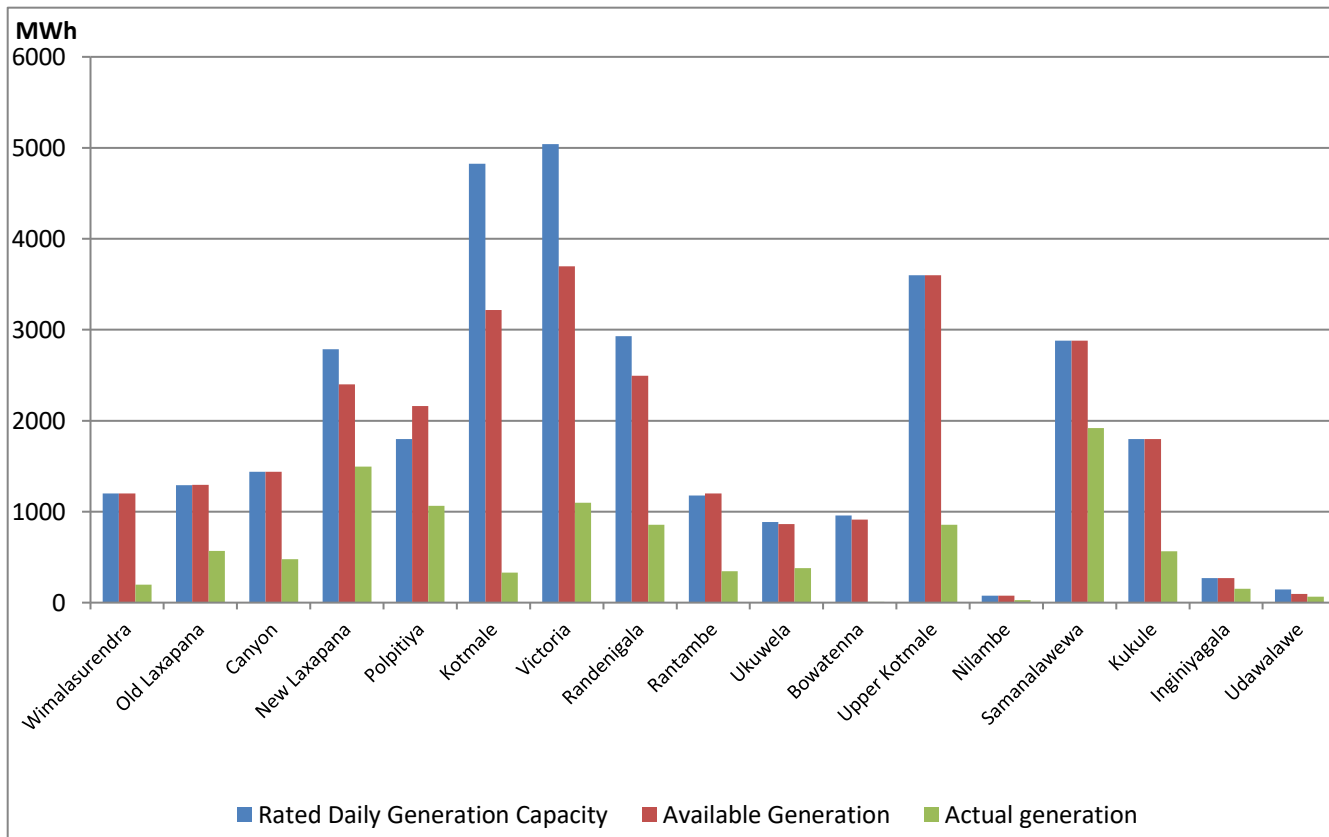
# Thermal Plant Loading at the Night Peak



Note- Plant availability is recorded at 6.00 am on April 21, 2021

## Major Hydro Plant Dispatch

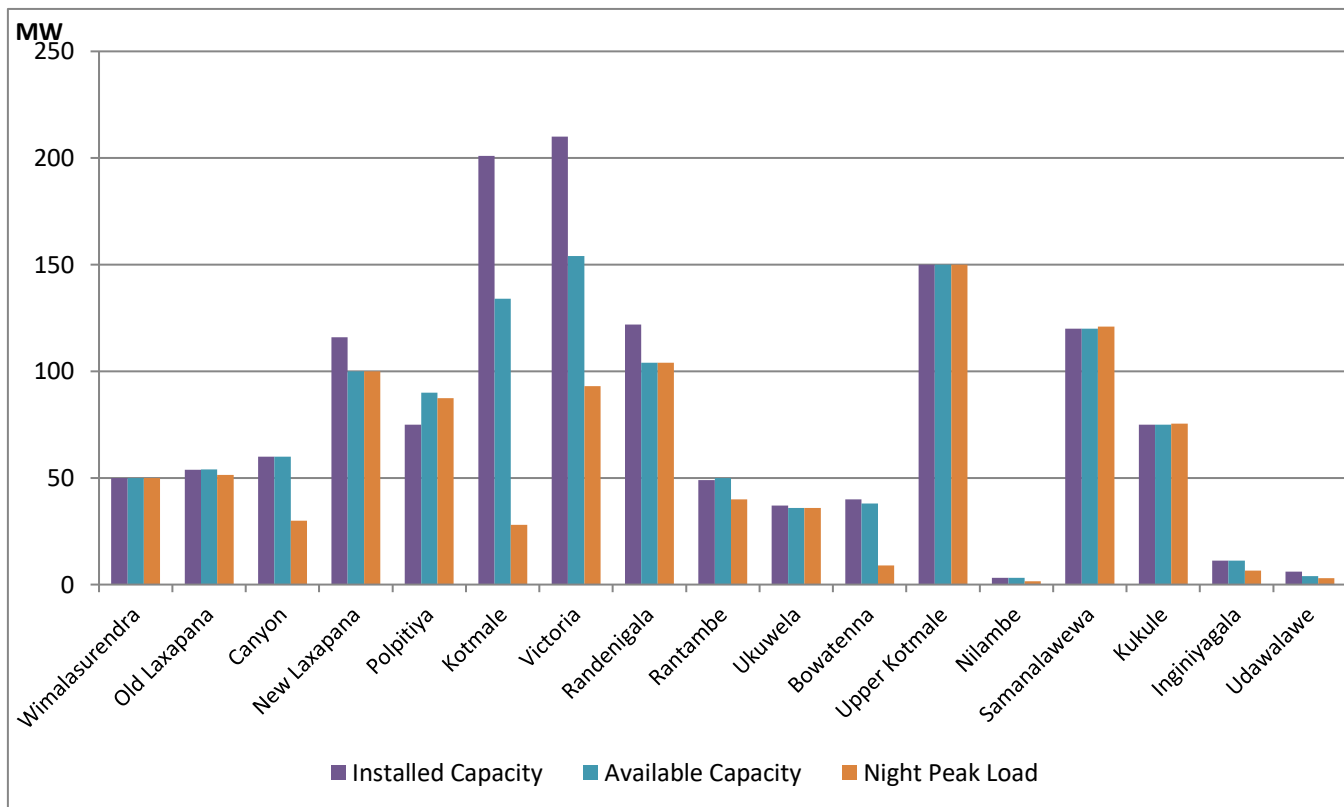
April 20, 2021



Note- Available Generation is estimated based on plant availability at 6.00am on April 21, 2021

## Major Hydro Plant Loading at Night Peak

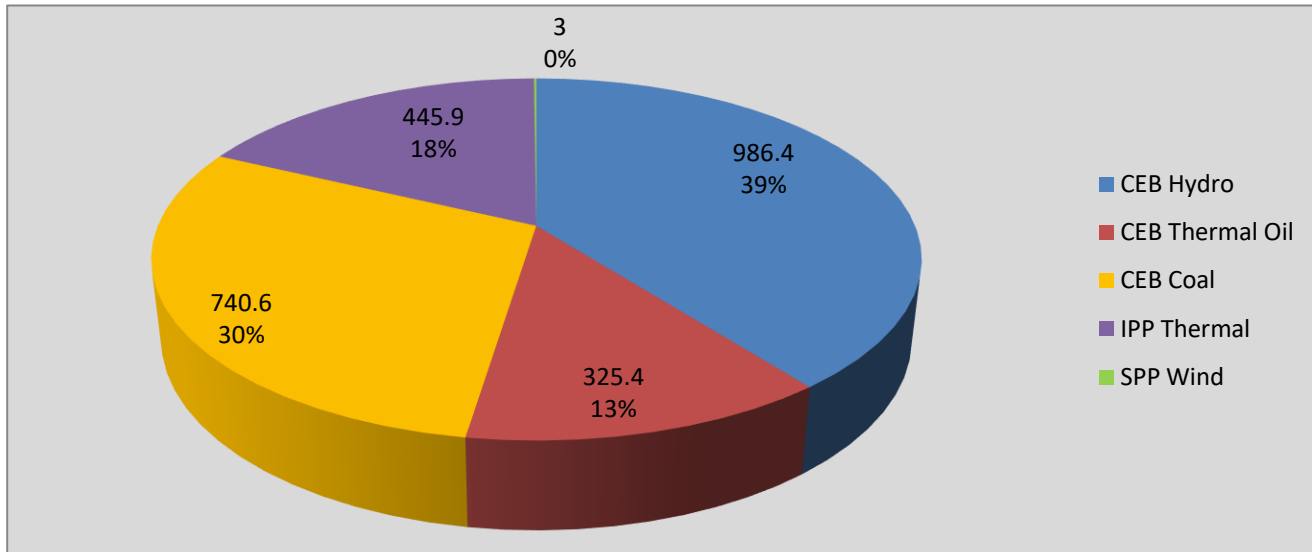
April 20, 2021



Note- Plant availability is recorded at 6.00 am on April 21, 2021

## Contribution to the Night Peak in MW

April 20, 2021



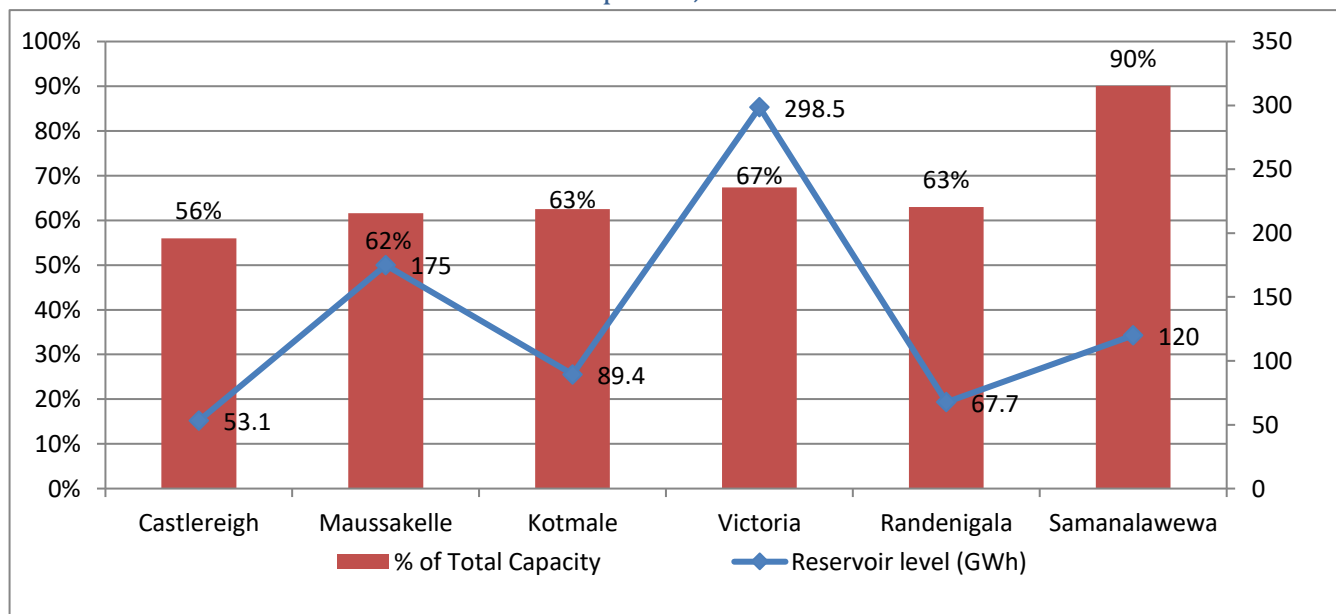
|                |            |
|----------------|------------|
| Night Peak*    | 2,501.3 MW |
| Day Peak       | 2,128.9 MW |
| Minimum Demand | 1,331.5 MW |

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

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

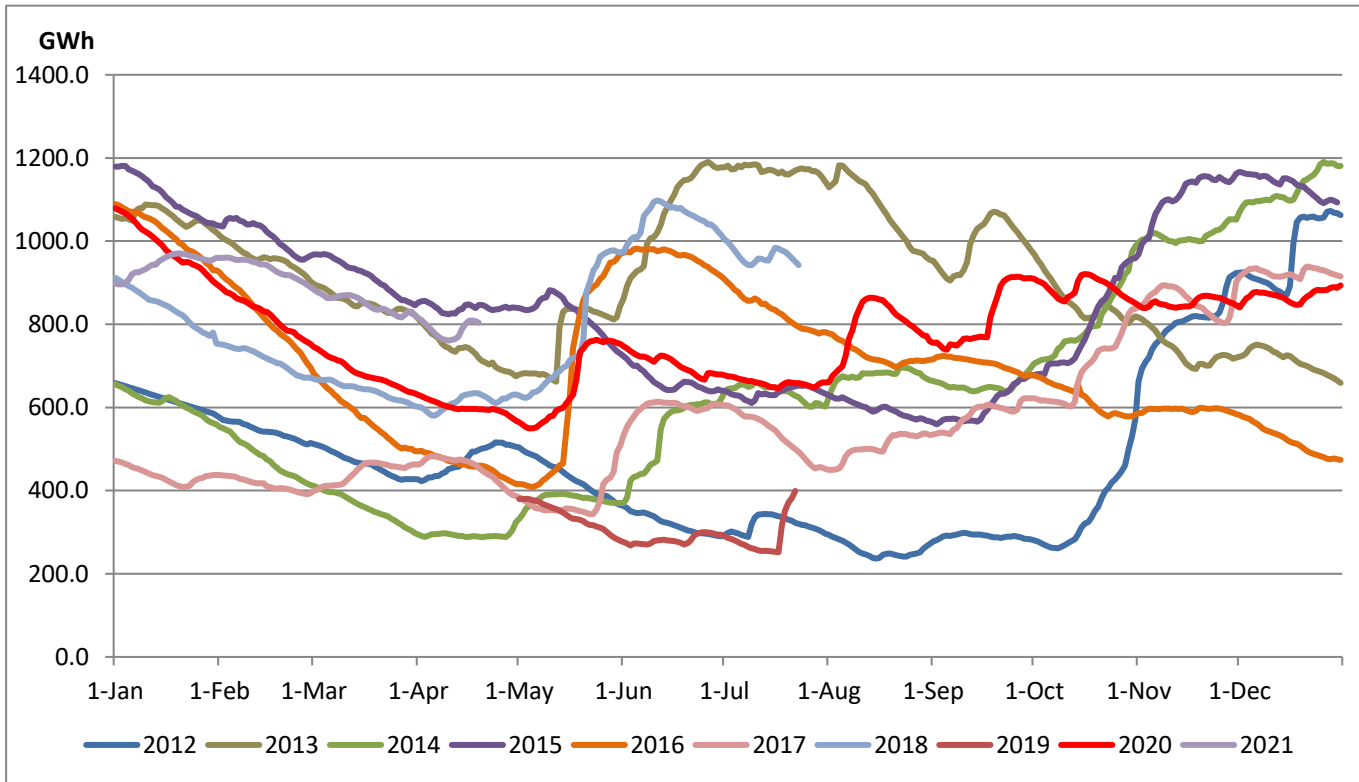
\* in addition to the night peak figure presented above, Moragahakanda plant, other MiniHydro and Biomass Plants of installed capacity 198.00 MW has recorded total 100.70 MW at night peak

## Reservoir Levels - as at 06.00 Hr on April 21, 2021



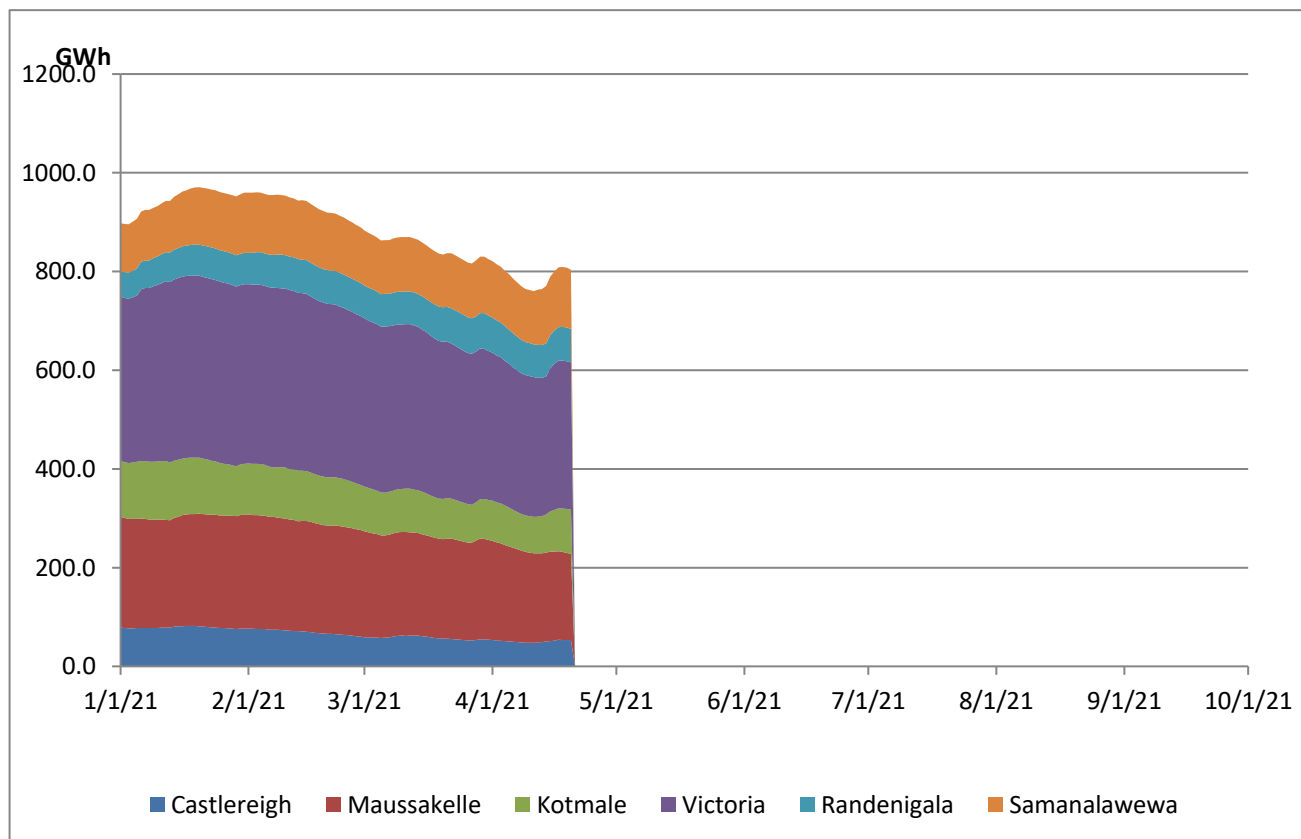
|                            |       |
|----------------------------|-------|
| Total Reservoir Level(GWh) | 803.7 |
| % of Total capacity        | 66.7% |

## Comparison of Total Reservoir Storage Levels with Past Years

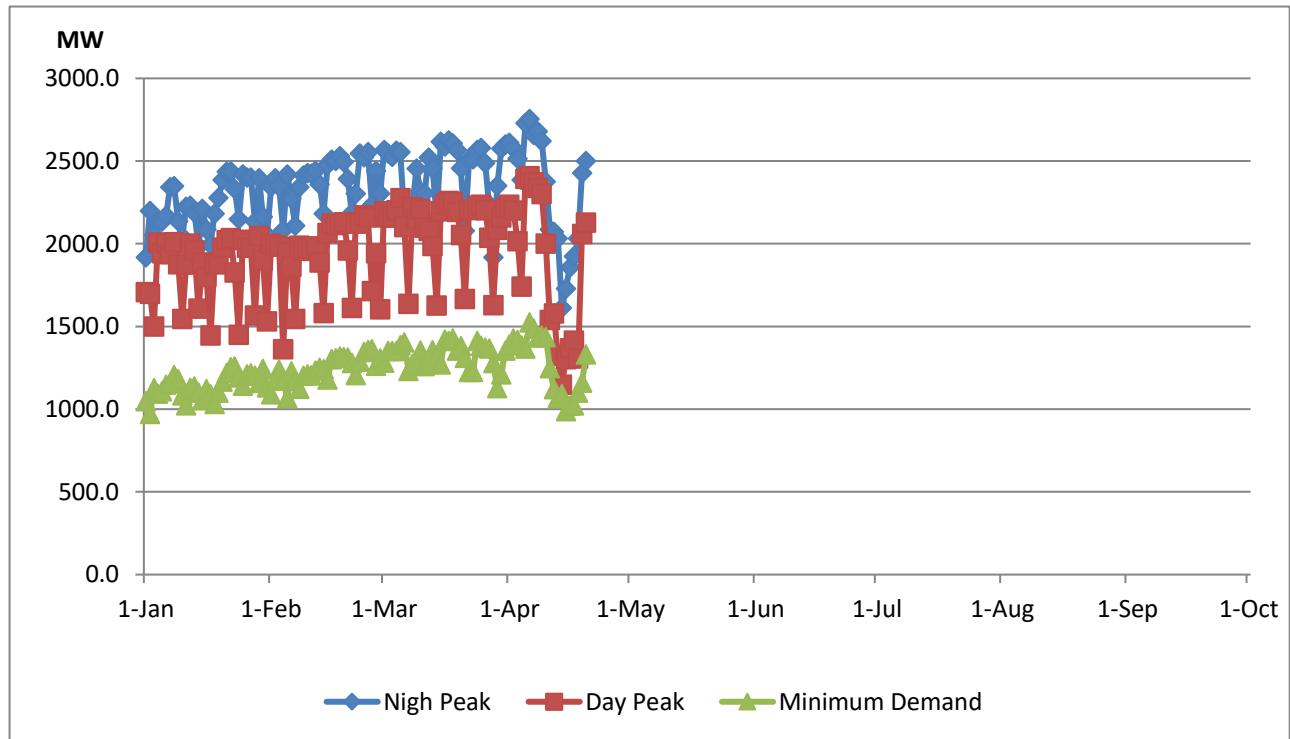


Data for 2018 and 2019 are only available for part of year.

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



## Variation of Demand during the current year



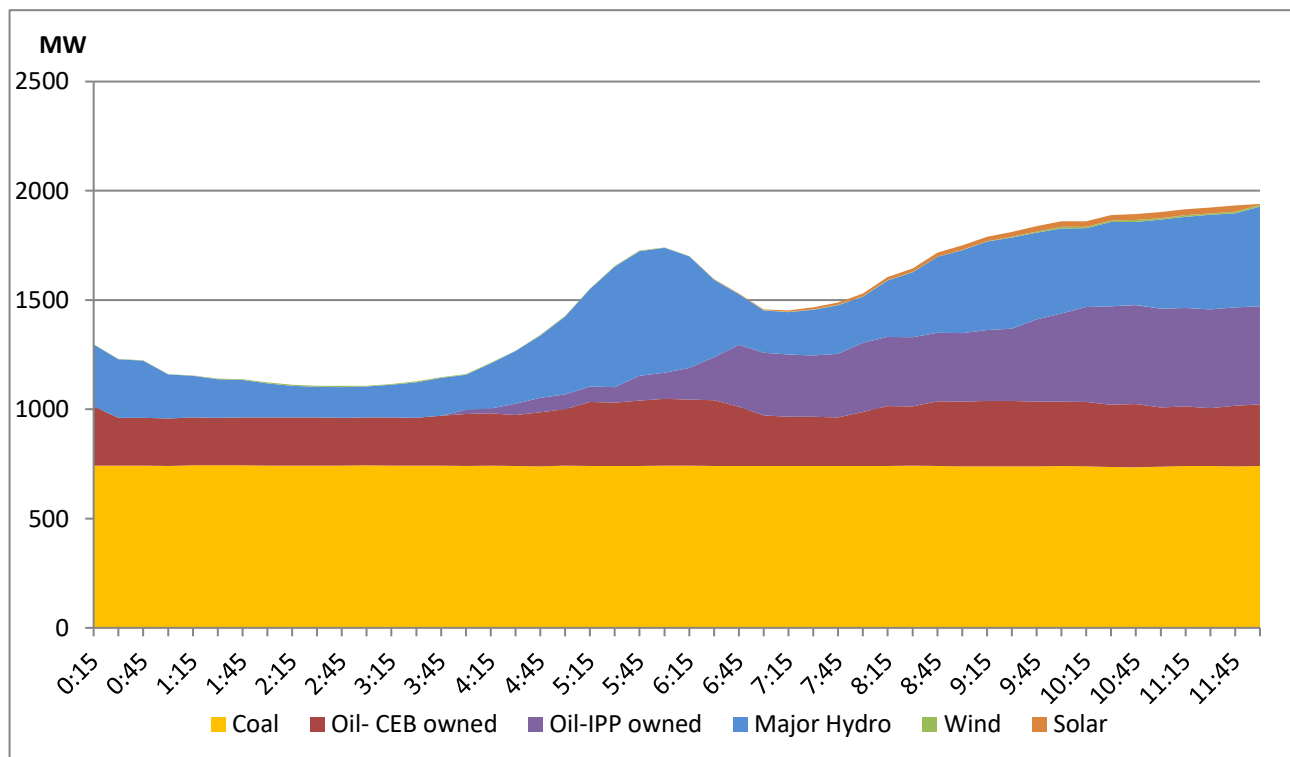
**Notes:**

The night peak is excluding the contribution from Minihydro and biomass power plants  
 Day peak and minimum demand graphs includes the contribution from Moragahakanda power plant  
 All graphs include the contribution from telemetered solar and wind plants

## Daily Load Curve of the Previous day

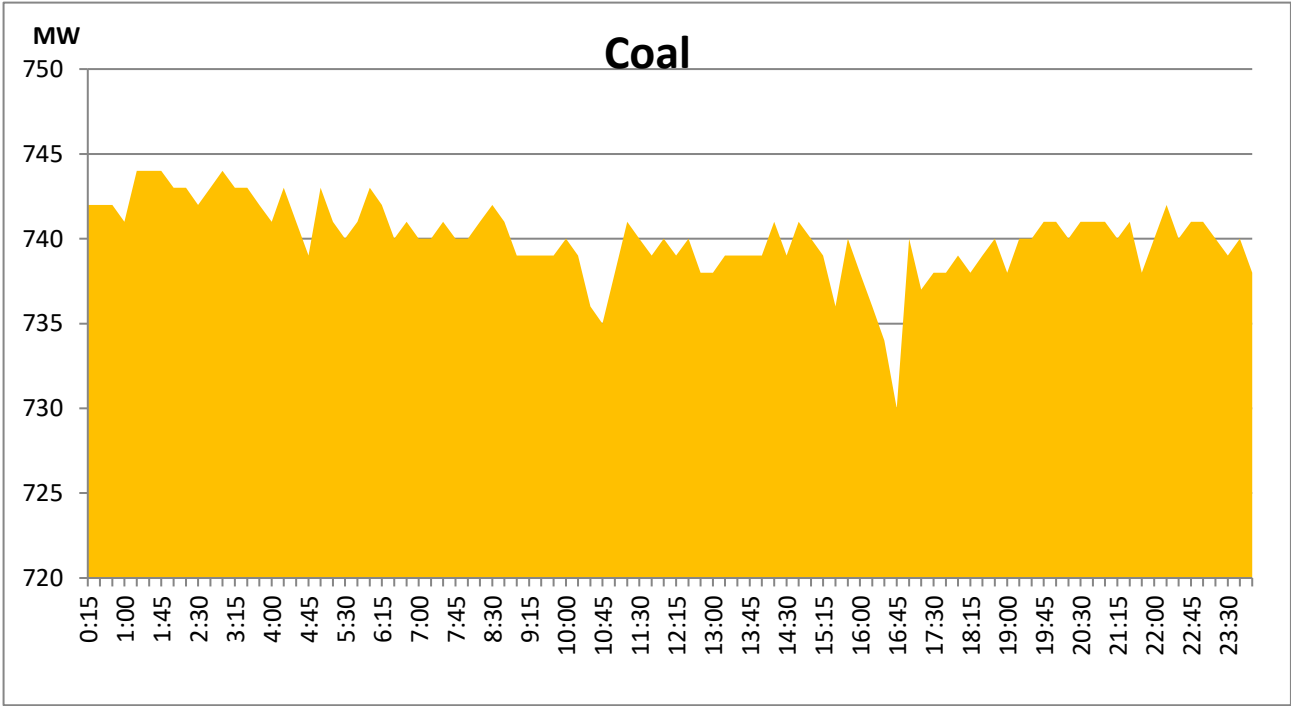
**April 19, 2021**

Solar and wind data is based on Telemetered Power Stations only



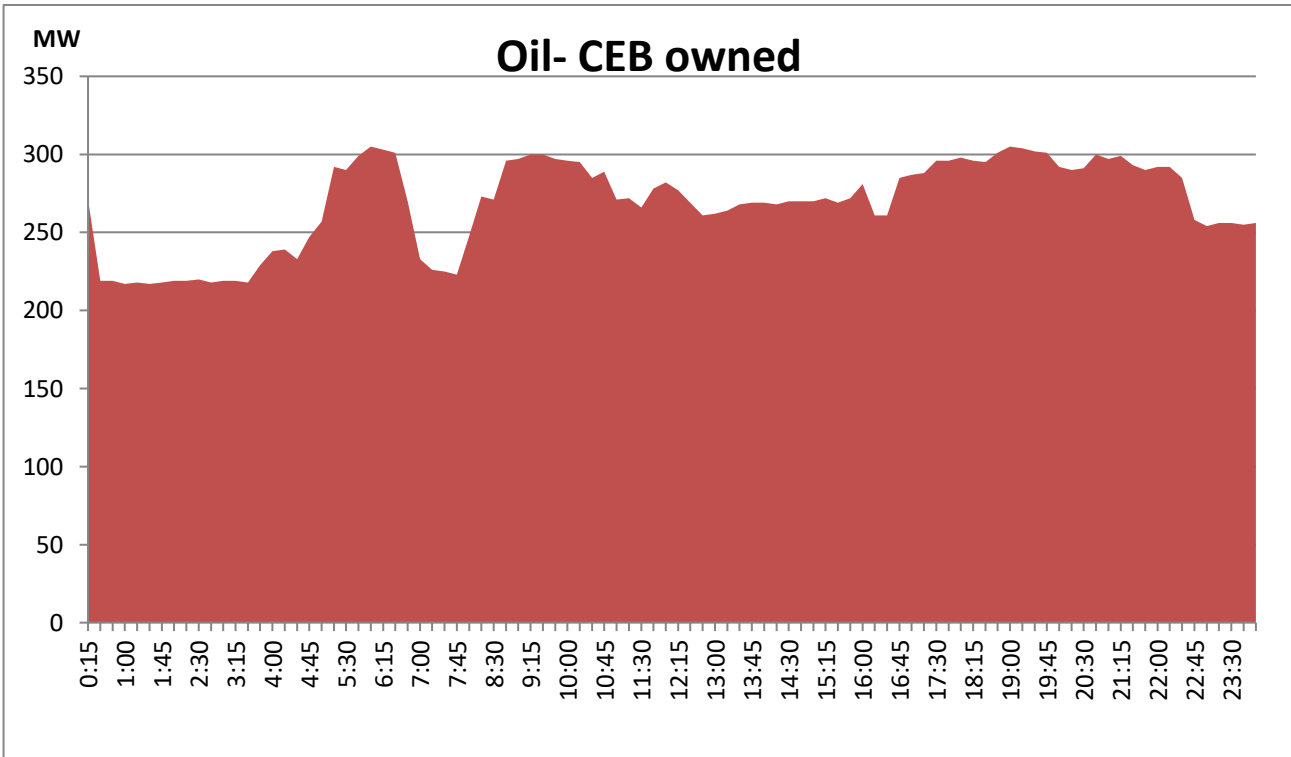
**Coal Generation during the Previous day**

**April 19, 2021**



**CEB Oil Plant Generation during the Previous day**

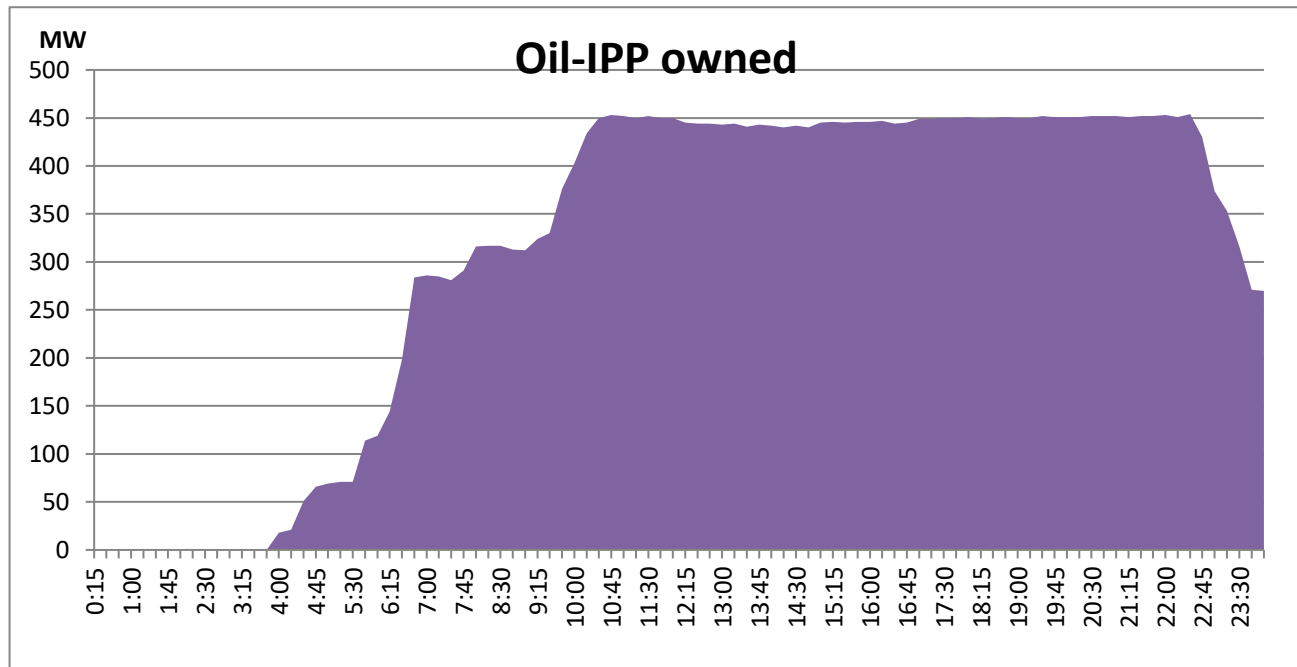
**April 19, 2021**





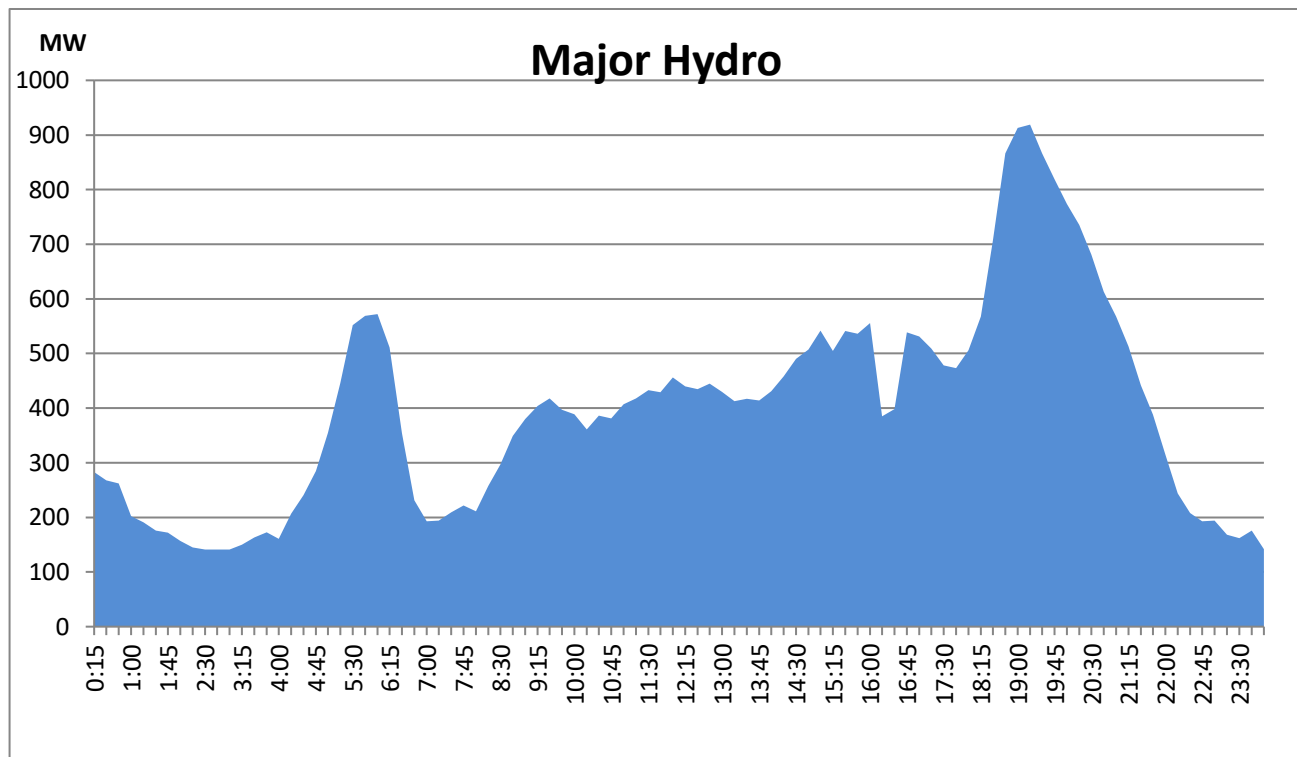
### IPP Oil Plant Generation during the Previous day

April 19, 2021



### Major Hydro Generation during the Previous day

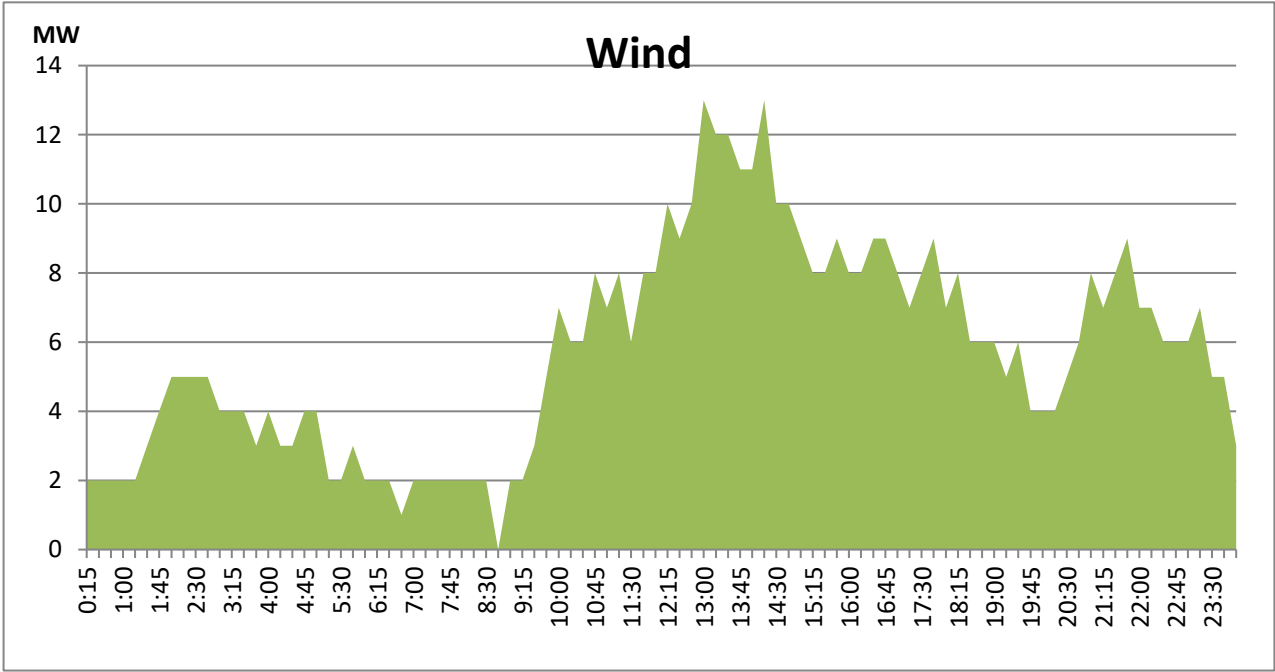
April 19, 2021



# Wind Generation during the Previous day

April 19, 2021

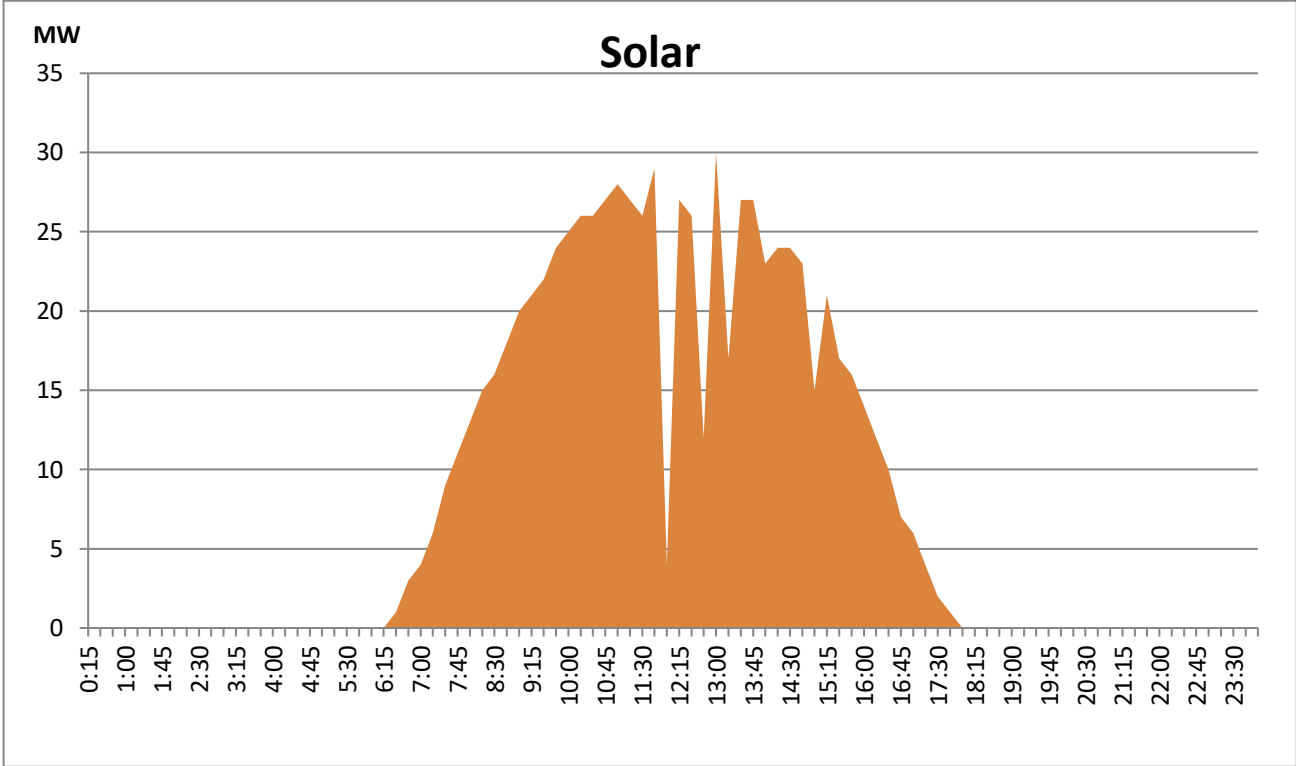
Based on Telemetered Power Stations only



# Solar Generation during the Previous day

April 19, 2021

Based on Telemetered Power Stations only



Summary of Major Plant performance

| Plant              | Installed Capacity<br>(MW) | Plant Availability<br>(MW) | Night peak Load<br>(MW) | Plant Dispatch<br>(GWh) |
|--------------------|----------------------------|----------------------------|-------------------------|-------------------------|
| Wimalasurendra     | 50.00                      | 50.00                      | 50.00                   | 199.00                  |
| Old Laxapana       | 53.80                      | 54.00                      | 51.40                   | 567.00                  |
| Canyon             | 60.00                      | 60.00                      | 30.00                   | 478.00                  |
| New Laxapana       | 116.00                     | 100.00                     | 100.00                  | 1,496.00                |
| Polpitiya          | 75.00                      | 90.00                      | 87.40                   | 1,064.00                |
| Kotmale            | 201.00                     | 134.00                     | 28.00                   | 330.00                  |
| Victoria           | 210.00                     | 154.00                     | 93.00                   | 1,097.00                |
| Randenigala        | 122.00                     | 104.00                     | 104.00                  | 857.00                  |
| Rantambe           | 49.00                      | 50.00                      | 40.00                   | 344.00                  |
| Ukuwela            | 37.00                      | 36.00                      | 36.00                   | 380.00                  |
| Bowatenna          | 40.00                      | 38.00                      | 9.00                    | 9.00                    |
| Upper Kotmale      | 150.00                     | 150.00                     | 150.00                  | 855.00                  |
| Nilambe            | 3.20                       | 3.20                       | 1.60                    | 27.00                   |
| Samanalawewa       | 120.00                     | 120.00                     | 121.00                  | 1,920.00                |
| Kukule             | 75.00                      | 75.00                      | 75.50                   | 565.00                  |
| Inginiyagala       | 11.25                      | 11.25                      | 6.50                    | 152.00                  |
| Udawalawe          | 6.00                       | 4.00                       | 3.00                    | 64.00                   |
| Puttalam Coal I    | 275.00                     | 200.00                     | 201.00                  | 4,840.00                |
| Puttalam Coal II   | 275.00                     | 270.00                     | 269.00                  | 6,476.00                |
| Puttalam Coal III  | 275.00                     | 270.00                     | 270.00                  | 6,505.00                |
| KPS Small GTs      | 65.20                      | 48.00                      | -                       | -                       |
| KPS GT 7           | 113.00                     | -                          | -                       | -                       |
| KCCP               | 161.00                     | -                          | 88.00                   | 1,746.00                |
| Sapugaskanda A     | 69.60                      | 64.00                      | 66.00                   | 1,385.00                |
| Sapugaskanda B     | 69.60                      | 63.00                      | 58.00                   | 1,317.00                |
| Uthura Janani      | 26.01                      | 16.00                      | 23.50                   | 434.00                  |
| Barge CEB          | 60.00                      | 60.00                      | 61.00                   | 1,244.00                |
| CEB-Thulhiriya     | 10.00                      | 5.60                       | 6.00                    | 63.00                   |
| CEB-Kolonnawa      | 20.00                      | 11.20                      | 11.00                   | 113.00                  |
| CEB-Mathugama      | 20.00                      | 11.20                      | 13.00                   | 148.00                  |
| ACE Matara         | 20.00                      | -                          | -                       | -                       |
| Asia Power         | 50.80                      | -                          | -                       | -                       |
| AES - Kelanitissa  | 163.00                     | 163.00                     | 154.00                  | 2,290.00                |
| Westcoast          | 270.00                     | 270.00                     | 267.00                  | 6,367.00                |
| ACE Embilipitiya   | 100.00                     | -                          | -                       | -                       |
| Vpower-Pallekele   | 24.00                      | -                          | -                       | -                       |
| Vpower-Galle       | 10.00                      | -                          | -                       | -                       |
| Vpower-Hamba.      | 24.00                      | -                          | -                       | -                       |
| Vpower-Horana      | 24.00                      | -                          | -                       | -                       |
| Altaaqa-Mahiya.    | 10.00                      | -                          | -                       | -                       |
| Altaaqa-Polon.     | 8.00                       | 24.00                      | 25.00                   | 255.00                  |
| Solar              | 58.00                      |                            | -                       | 332.00                  |
| Wind               | 128.00                     |                            | 3.00                    | 429.00                  |
| MH and BM          | 394.00                     |                            | 100.70                  | Not available           |
| Total without NCRE | 3,522.46                   | 2,709.45                   |                         |                         |

Night peak load of MH and BM only include loading of Minihydro plants of total capacity MW 198

Installed capacity of Solar, wind, Mini-hydro and Biomass plants are as of end of December 2019

Plant availability is the availability recorded at 6 am on

April 21, 2021

## Thermal Plant Fuel types

| 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                | Naptha & Diesel |
| Lakvijaya 1                    | Coal            |
| Lakvijaya 2                    | Coal            |
| Lakvijaya 3                    | Coal            |
| Uthuru Janani                  | Heavy Fuel      |
| Barge CEB                      | Furnace Oil     |
|                                |                 |

| Power Station    | Primary Fuel            |
|------------------|-------------------------|
| Private Thermal  |                         |
| Asia Power       | Heavy Fuel              |
| Sojitz -         | Auto Diesel             |
| West Coast       | Low Sulphur Furnace oil |
|                  |                         |
| ACE Embilipitiya | Furnace Oil             |

### Major Incidents during the day -as reported by CEB morning of **April 21, 2021**

1) Sojitz plant tripped at 10:28hrs rejecting 157 MW from the system due to thermocouple fault. The system recovered with the activation of UFLS scheme stage (I). All affected feeders were normalized by 10:41hrs. Sojitz plant resumed generation at 11:06hrs.

2) Victoria Unit 02 tripped at 5:40hrs (21/04/2021) rejecting 20 MW from the system due to turbine guide bearing oil level low alarm. Victoria unit 02 made available at 6:10hrs (21/04/2021).