

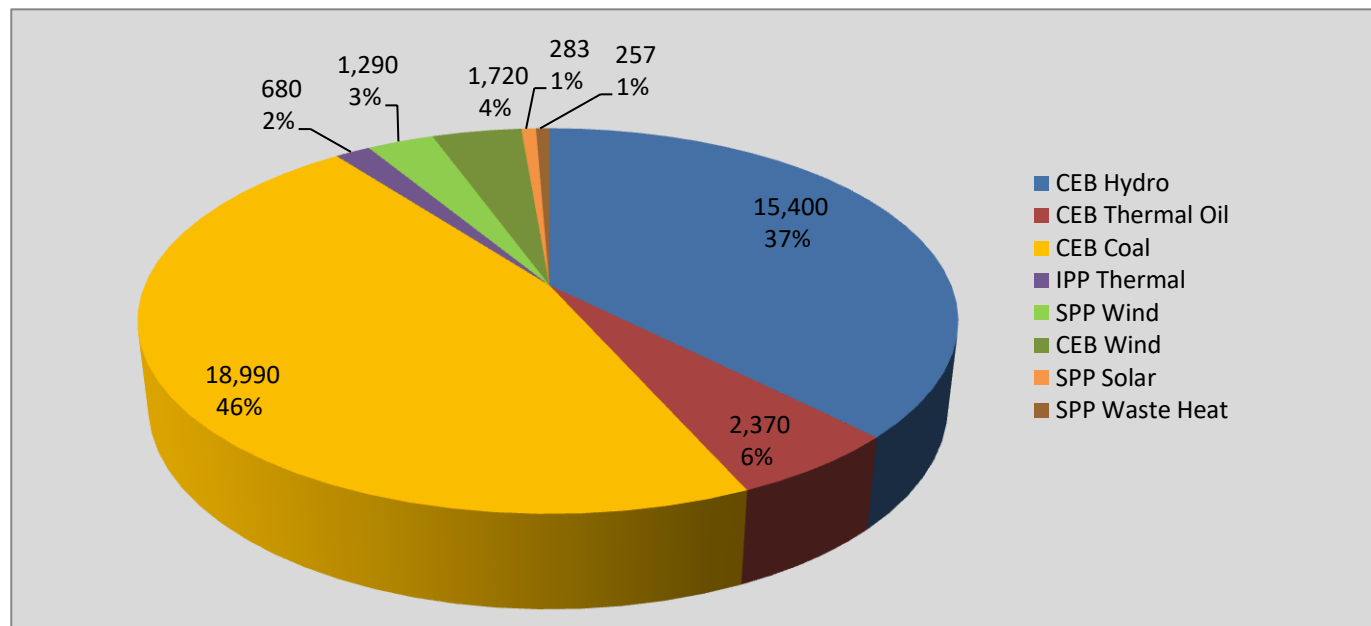
# **Generation and Reservoirs Statistics**

**September 16, 2021**



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## Daily Generation Mix in MWh



**Total Generation 41,000 MWh**

Note: Minihydro and Biomass and waste heat (except 10 MW WH plant at Kerawalapitiya) power plant energy is not included

## Cumulative Dispatch

Note: Minihydro and Biomass and waste heat (except 10 MW WH plant at Kerawalapitiya) power plant energy is not included

### For Current Month

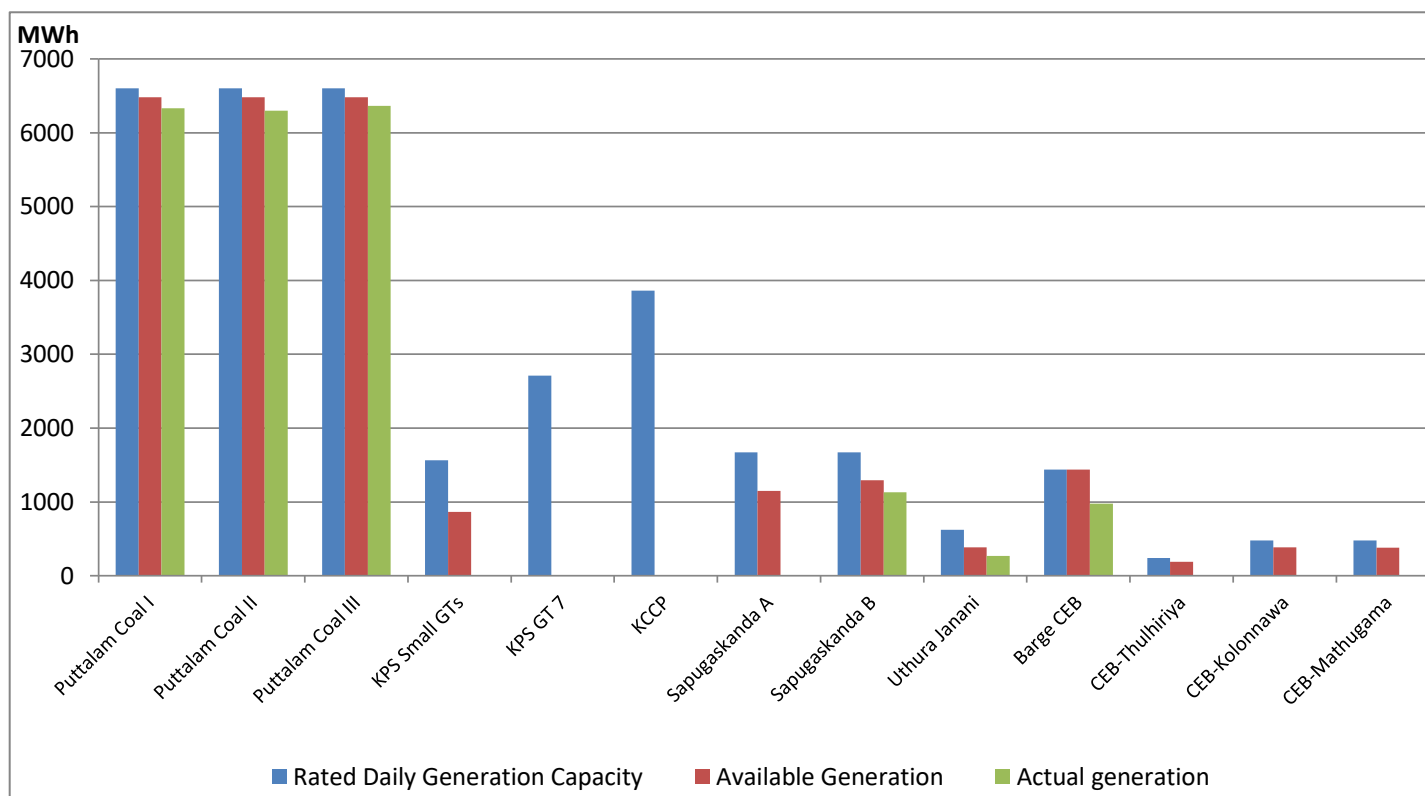
| Category        | Dispatch (GWh) |        |
|-----------------|----------------|--------|
| CEB Hydro       | 250.5          | 40.42% |
| CEB Thermal Oil | 46.0           | 7.42%  |
| CEB Coal        | 233.3          | 37.64% |
| IPP Thermal     | 19.9           | 3.20%  |
| SPP Wind        | 30.0           | 4.84%  |
| CEB Wind        | 33.3           | 5.38%  |
| SPP Solar       | 4.3            | 0.70%  |
| SPP Waste Heat  | 2.4            | 0.39%  |
| <b>Total</b>    | <b>619.8</b>   |        |

### For Current Year

| Category        | Dispatch (GWh)  |        |
|-----------------|-----------------|--------|
| CEB Hydro       | 3,476.4         | 33.49% |
| CEB Thermal Oil | 943.4           | 9.09%  |
| CEB Coal        | 4,259.8         | 41.04% |
| IPP Thermal     | 1,202.2         | 11.58% |
| SPP Wind        | 168.4           | 1.62%  |
| CEB Wind        | 236.2           | 2.28%  |
| SPP Solar       | 69.6            | 0.67%  |
| SPP Waste Heat  | 24.0            | 0.23%  |
| <b>Total</b>    | <b>10,379.8</b> |        |

## CEB owned Thermal Plant Dispatch

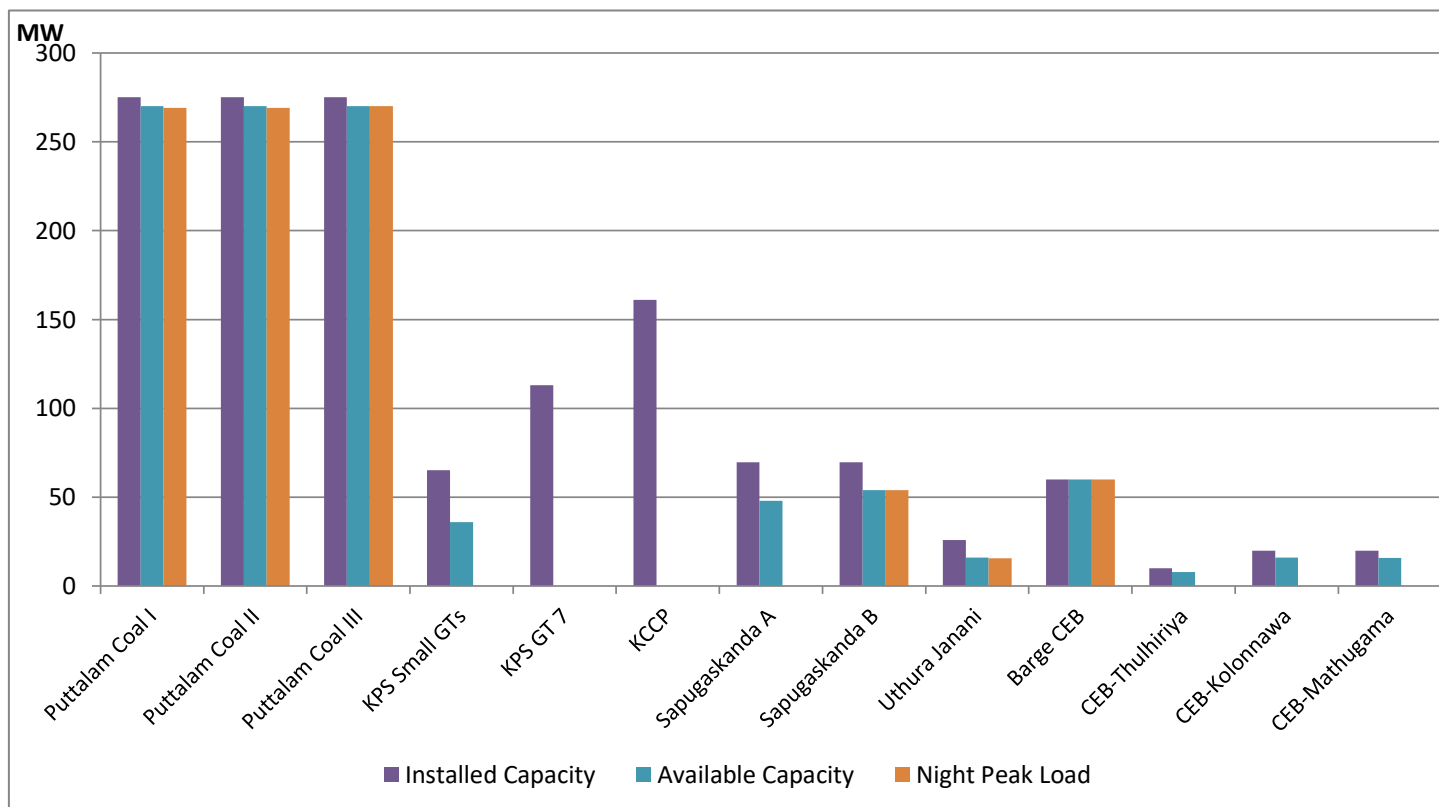
September 16, 2021



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

September 17, 2021

## CEB owned Thermal Plant Loading at the Night Peak



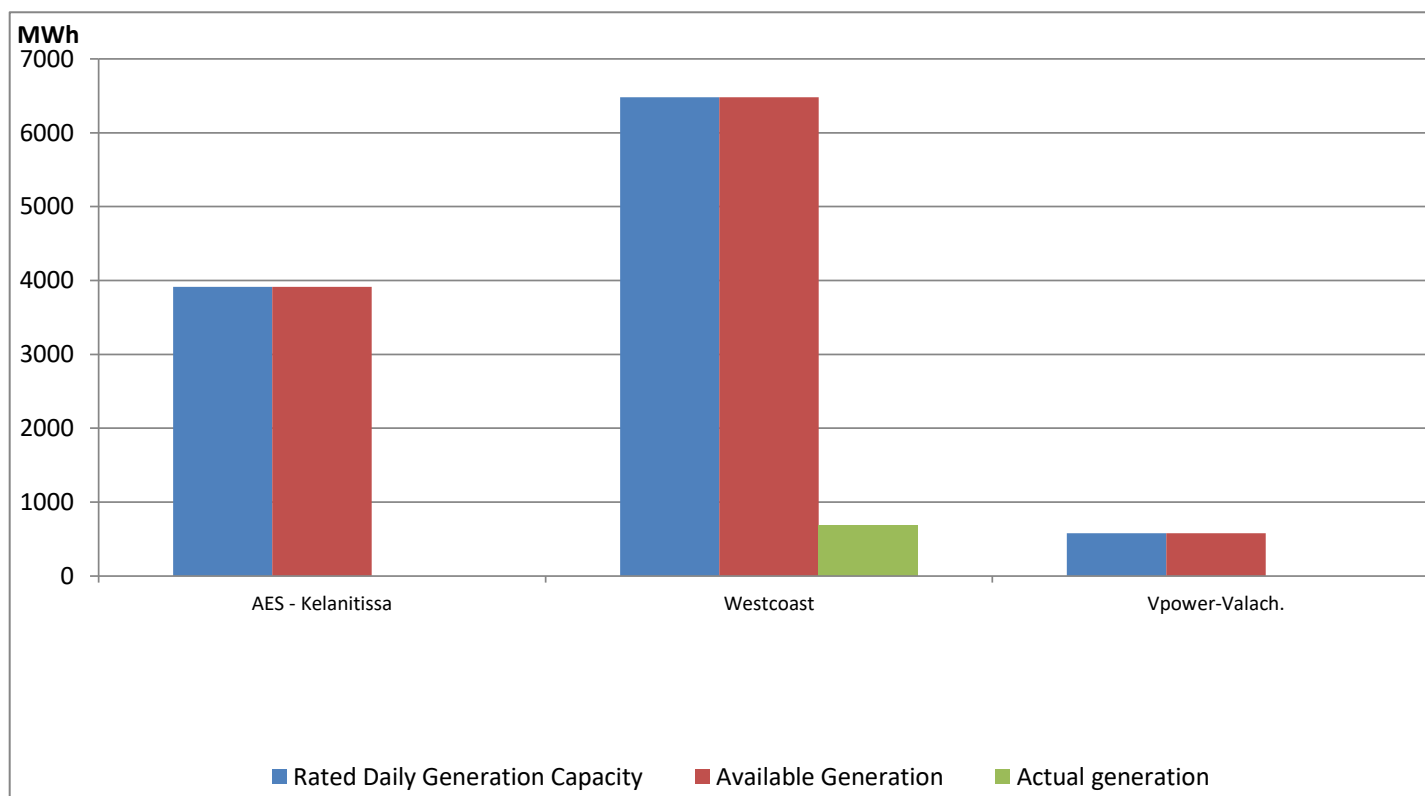
Note- Plant availability is recorded at 6.00 am on

September 17, 2021

## IPP owned Thermal Plant Dispatch

September 16, 2021

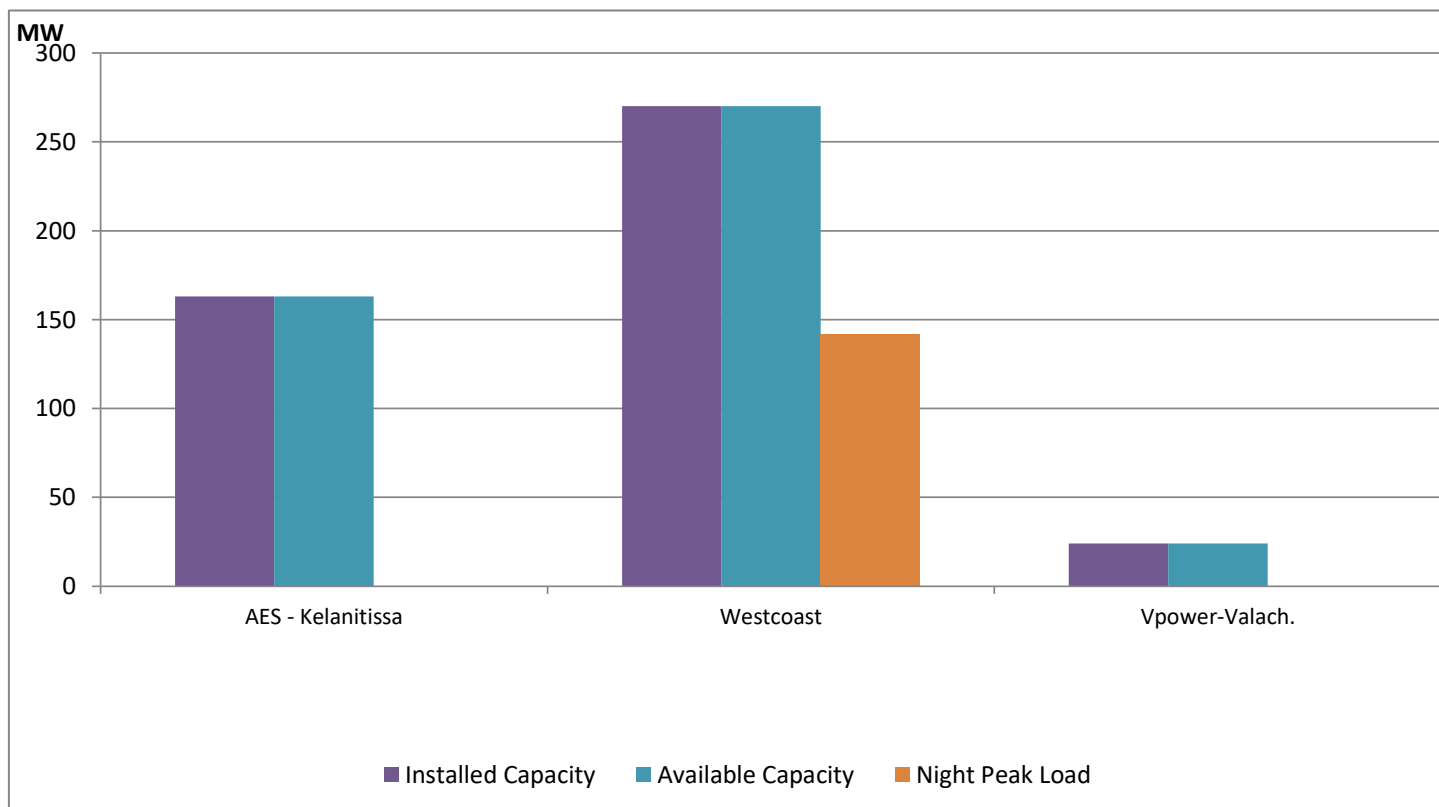
ACE Embilipitiya, ACE Matara, Asia Power, V Power Pallekale, Vpower Galle, V Power Horana, Vpower Hambantota and Altaqa Mahiyanganaya are not available due to expiration of PPAs



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

September 17, 2021

## IPP owned Thermal Plant Loading at the Night Peak

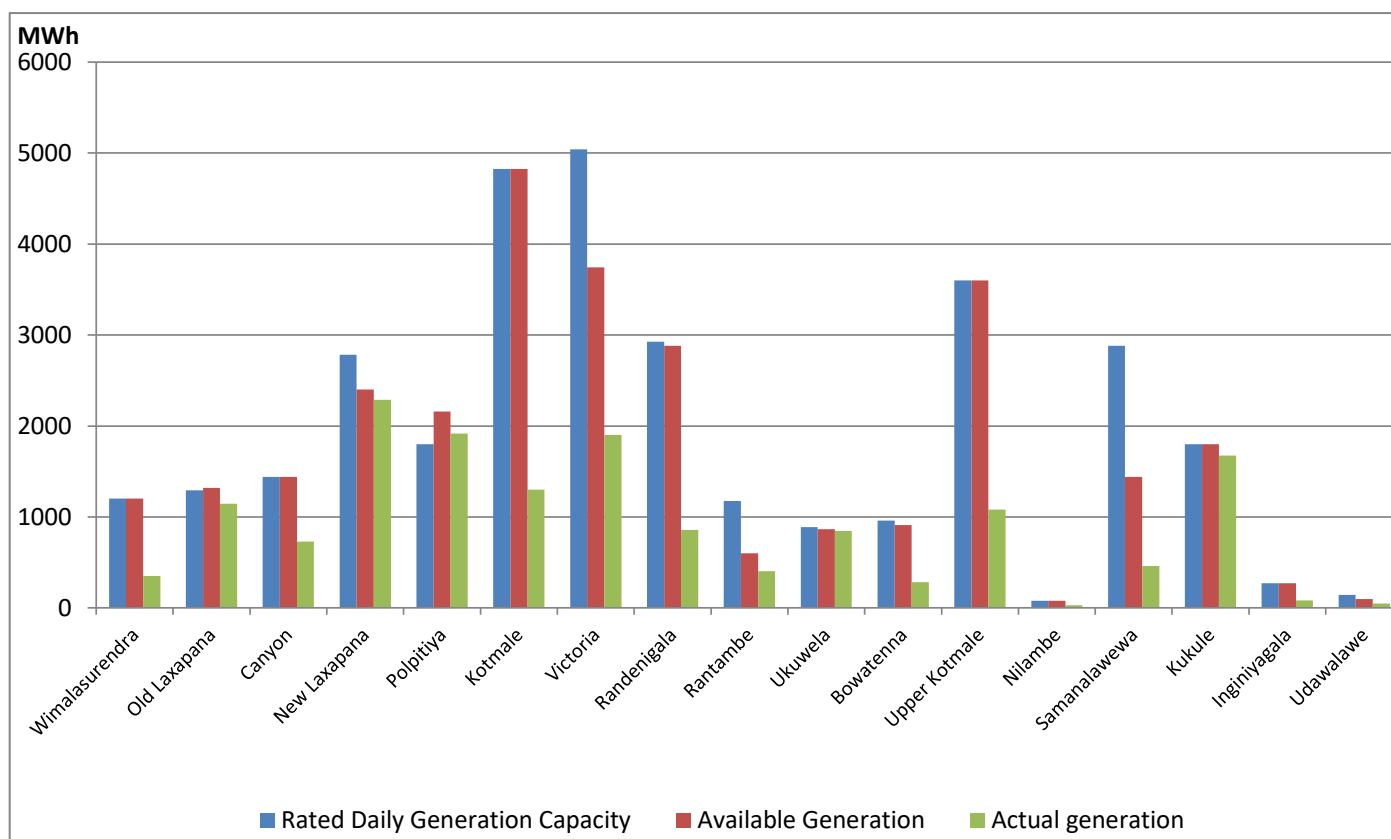


Note- Plant availability is recorded at 6.00 am on

September 17, 2021

## Major Hydro Plant Dispatch

September 16, 2021

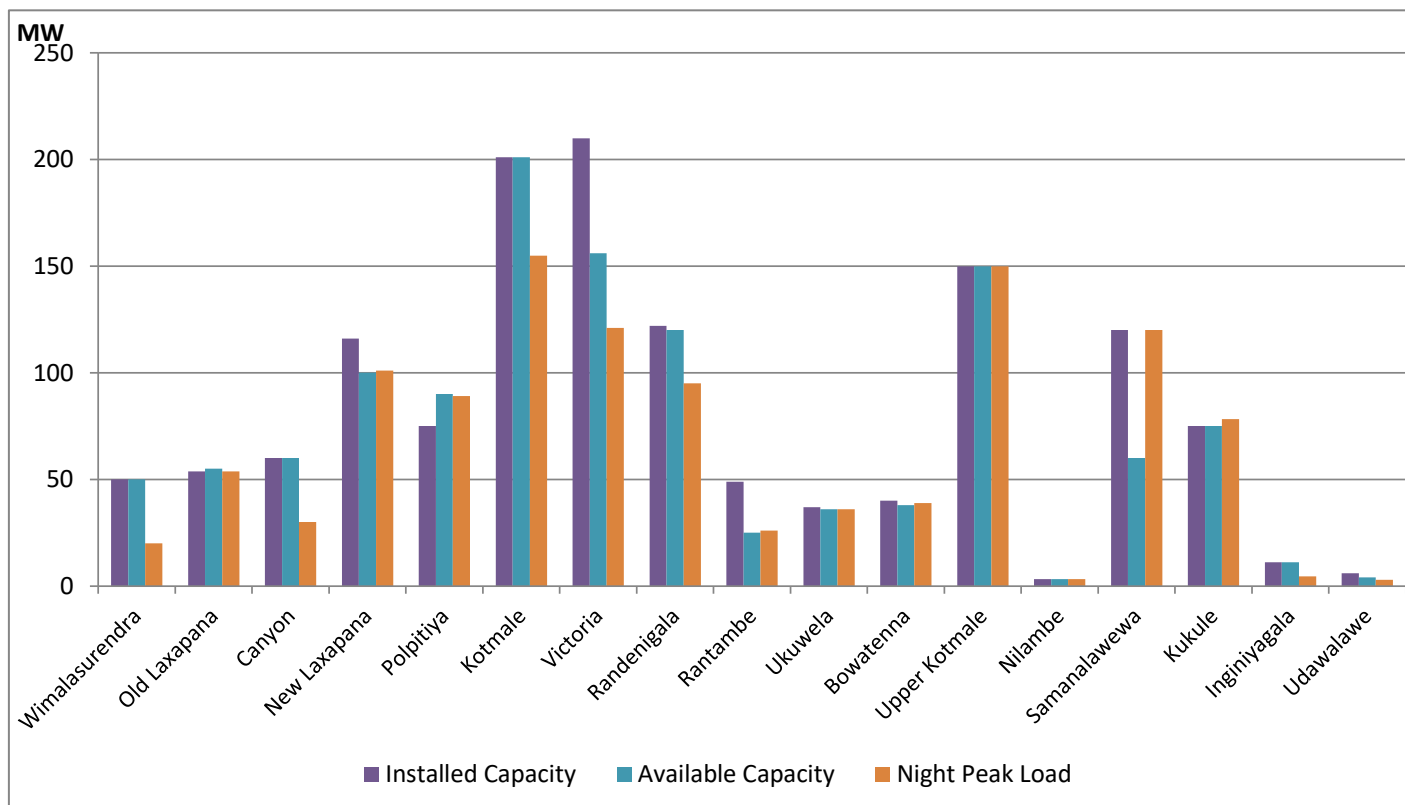


Note- Available Generation is estimated based on plant availability at 6.00am on

September 17, 2021

## Major Hydro Plant Loading at Night Peak

September 16, 2021



Note- Plant availability is recorded at 6.00 am on

September 17, 2021

Summary of Major Plant performance

| Plant              | Installed Capacity | Plant Availability | Night peak Load | Plant Dispatch |
|--------------------|--------------------|--------------------|-----------------|----------------|
|                    | (MW)               | (MW)               | (MW)            | (GWh)          |
| Wimalasurendra     | 50.00              | 50.00              | 20.00           | 352.00         |
| Old Laxapana       | 53.80              | 55.00              | 53.80           | 1,145.00       |
| Canyon             | 60.00              | 60.00              | 30.00           | 729.00         |
| New Laxapana       | 116.00             | 100.00             | 101.00          | 2,289.00       |
| Polpitiya          | 75.00              | 90.00              | 89.10           | 1,918.00       |
| Kotmale            | 201.00             | 201.00             | 155.00          | 1,300.00       |
| Victoria           | 210.00             | 156.00             | 121.00          | 1,900.00       |
| Randenigala        | 122.00             | 120.00             | 95.00           | 857.00         |
| Rantambe           | 49.00              | 25.00              | 26.00           | 404.00         |
| Ukuwela            | 37.00              | 36.00              | 36.00           | 848.00         |
| Bowatenna          | 40.00              | 38.00              | 39.00           | 284.00         |
| Upper Kotmale      | 150.00             | 150.00             | 150.00          | 1,080.00       |
| Nilambe            | 3.20               | 3.20               | 3.20            | 31.00          |
| Samanalawewa       | 120.00             | 60.00              | 120.00          | 462.00         |
| Kukule             | 75.00              | 75.00              | 78.30           | 1,674.00       |
| Inginiyagala       | 11.25              | 11.25              | 4.50            | 81.00          |
| Udawalawe          | 6.00               | 4.00               | 3.00            | 49.00          |
| Puttalam Coal I    | 275.00             | 270.00             | 269.00          | 6,330.00       |
| Puttalam Coal II   | 275.00             | 270.00             | 269.00          | 6,299.00       |
| Puttalam Coal III  | 275.00             | 270.00             | 270.00          | 6,364.00       |
| KPS Small GTs      | 65.20              | 36.00              | -               | -              |
| KPS GT 7           | 113.00             | -                  | -               | -              |
| KCCP               | 161.00             | -                  | -               | -              |
| Sapugaskanda A     | 69.60              | 48.00              | -               | -              |
| Sapugaskanda B     | 69.60              | 54.00              | 54.00           | 1,130.00       |
| Uthura Janani      | 26.01              | 16.00              | 15.70           | 267.00         |
| Barge CEB          | 60.00              | 60.00              | 60.00           | 976.00         |
| CEB-Thulhiriya     | 10.00              | 8.00               | -               | -              |
| CEB-Kolonnawa      | 20.00              | 16.00              | -               | -              |
| CEB-Mathugama      | 20.00              | 15.80              | -               | -              |
| AES - Kelanitissa  | 163.00             | 163.00             | -               | -              |
| Westcoast          | 270.00             | 270.00             | 142.00          | 679.00         |
| Vpower-Valach.     | 24.00              | 24.00              | -               | -              |
| Solar              | 58.00              |                    | -               | 286.00         |
| Wind               | 128.00             |                    | 88.80           | 3,013.00       |
| MH and BM          | 394.00             |                    | 110.00          | Not available  |
| Total without NCRE | 3,538.46           | 2,755.25           |                 |                |

Night peak load of MH and BM only include loading of Minihydro plants of total capacity MW 207

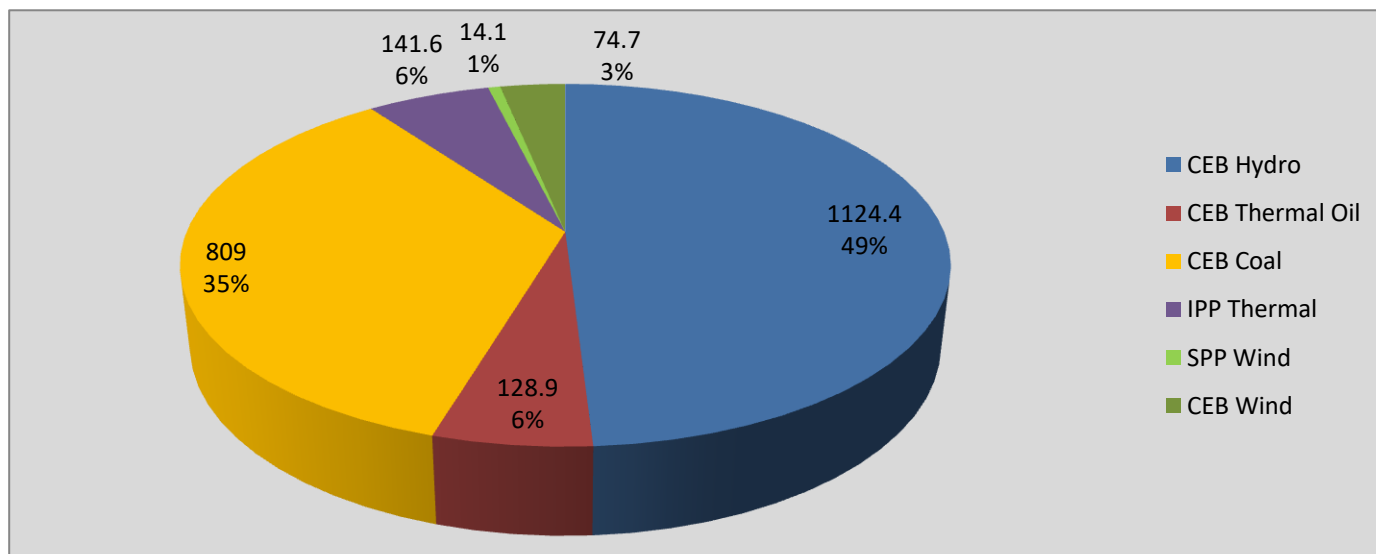
Installed capacity of Solar, wind, Mini-hydro and Biomass plants are as of end of December 2019

Plant availability is the availability recorded at 6 am on

September 17, 2021

## Contribution to the Night Peak in MW

September 16, 2021



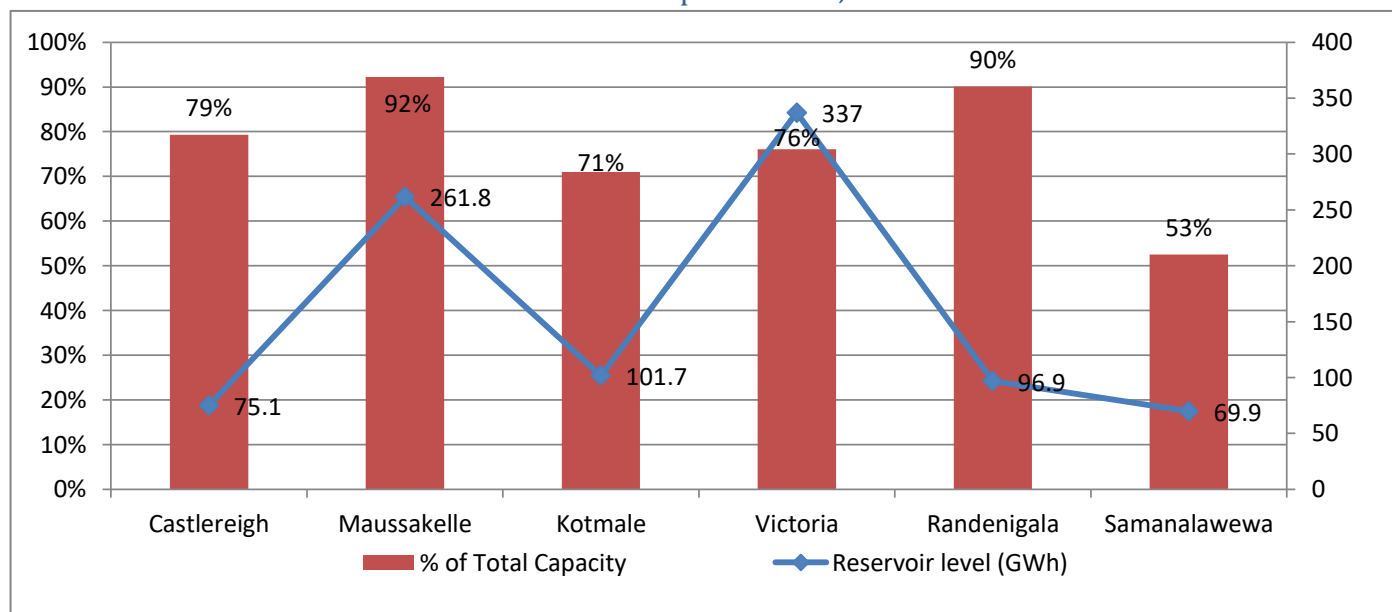
Night Peak\* 2,292.7 MW  
 Day Peak 1,908.0 MW  
 Minimum Demand 1,295.2 MW

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

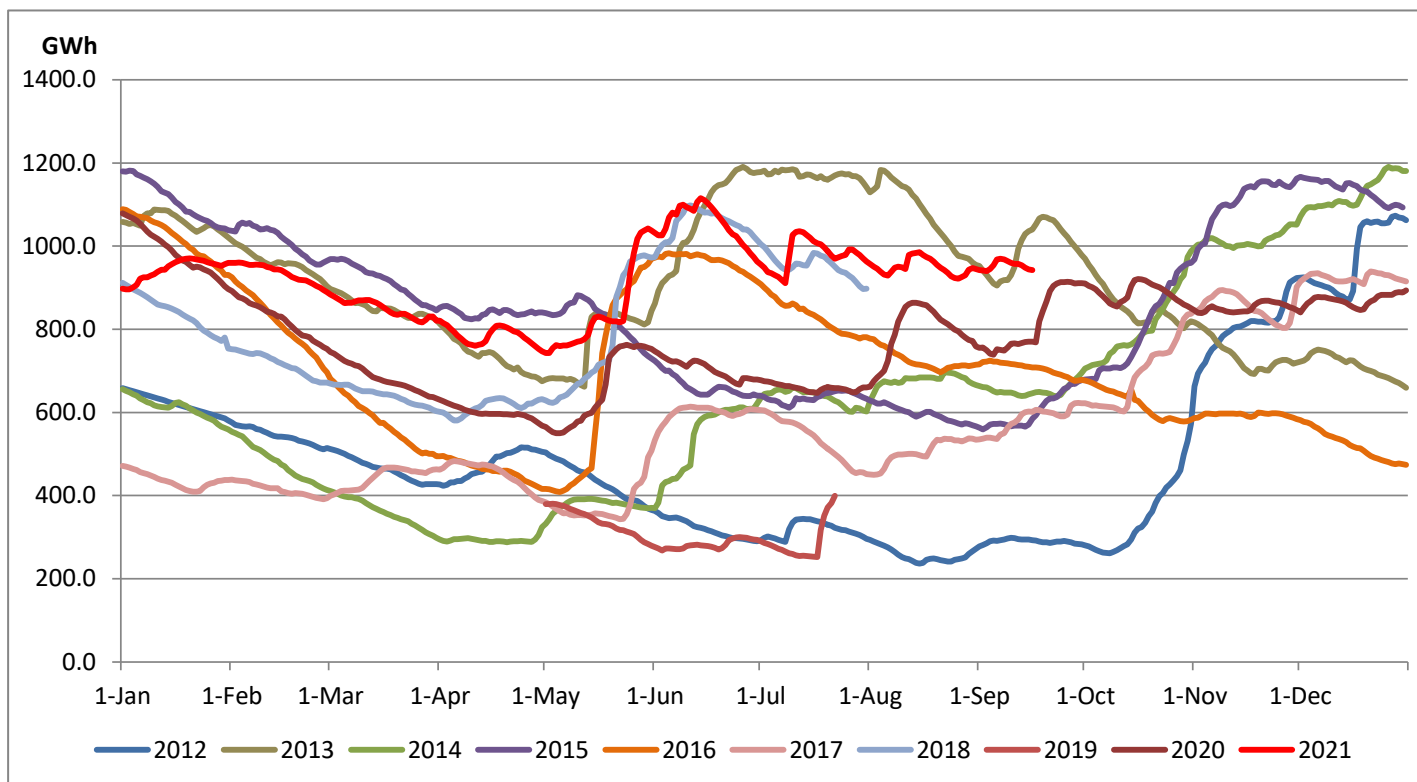
\* in addition to the night peak figure presented above, Kerawalapitiya waste heat plant, other MiniHydro and Biomass Plants of installed capacity 207.00 MW has recorded total 110.00 MW at night peak

## Reservoir Levels - as at 06.00 Hr on September 17, 2021



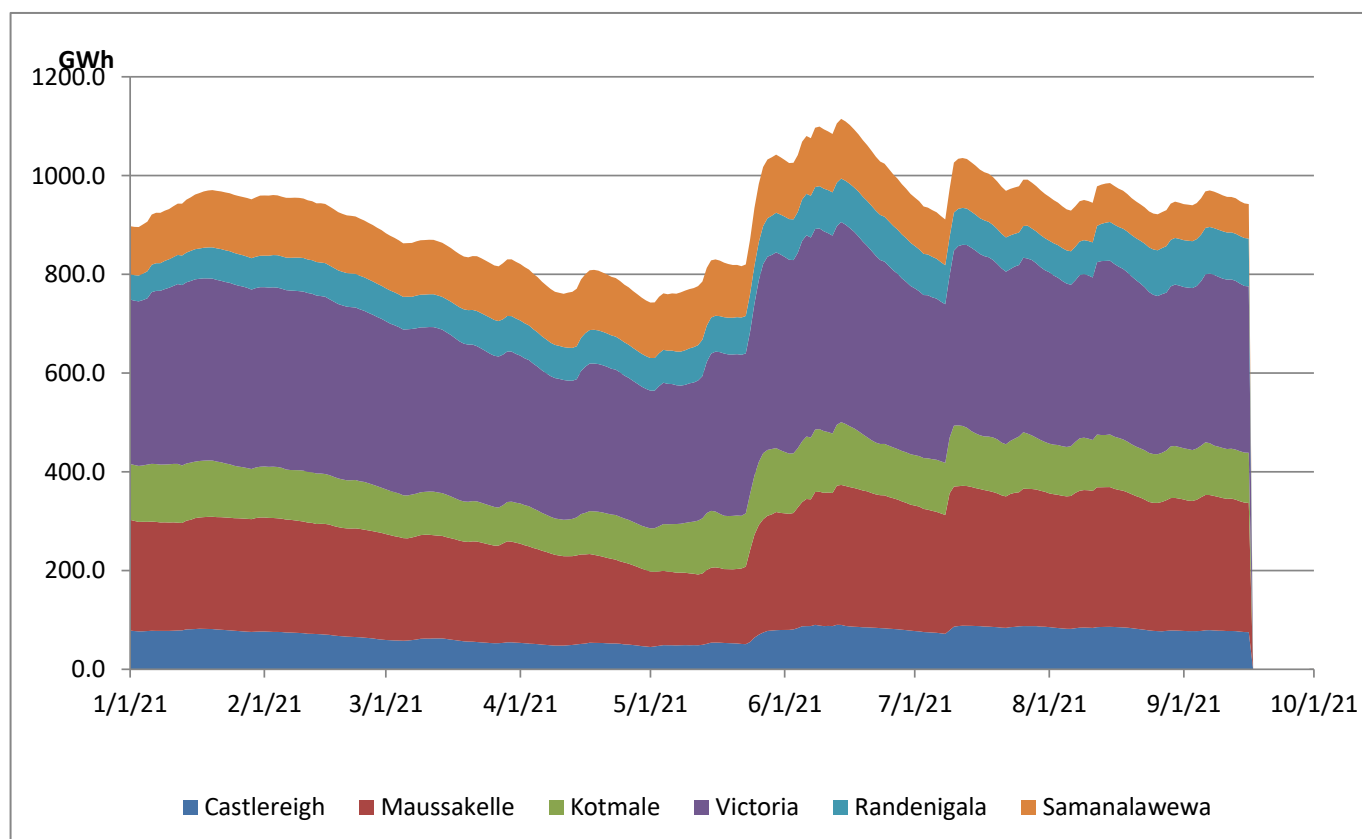
Total Reservoir Level(GWh) 942.4  
 % of Total capacity 78.2%

## Comparison of Total Reservoir Storage Levels with Past Years



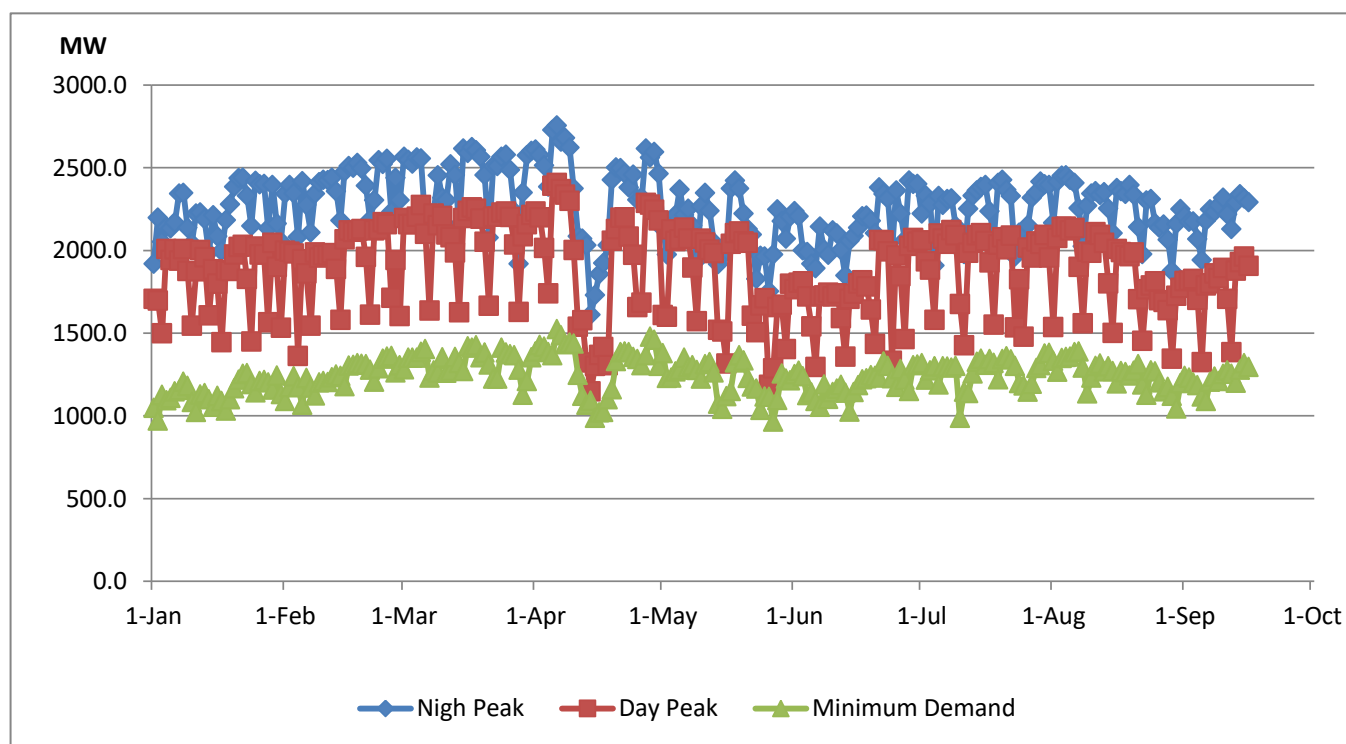
Data for 2018 and 2019 are only available for part of year.

## 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

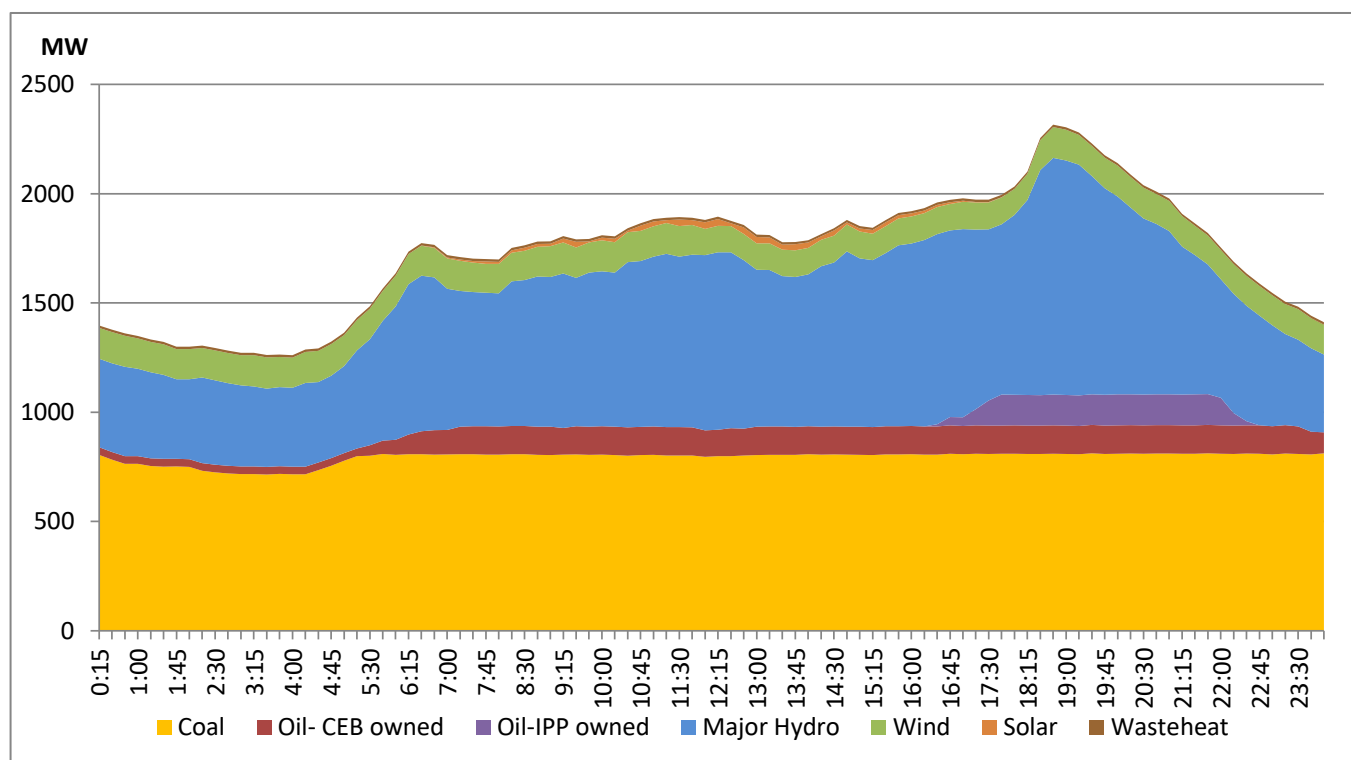
Day peak and minimum demand graphs includes the contribution from Moragahakanda power plant

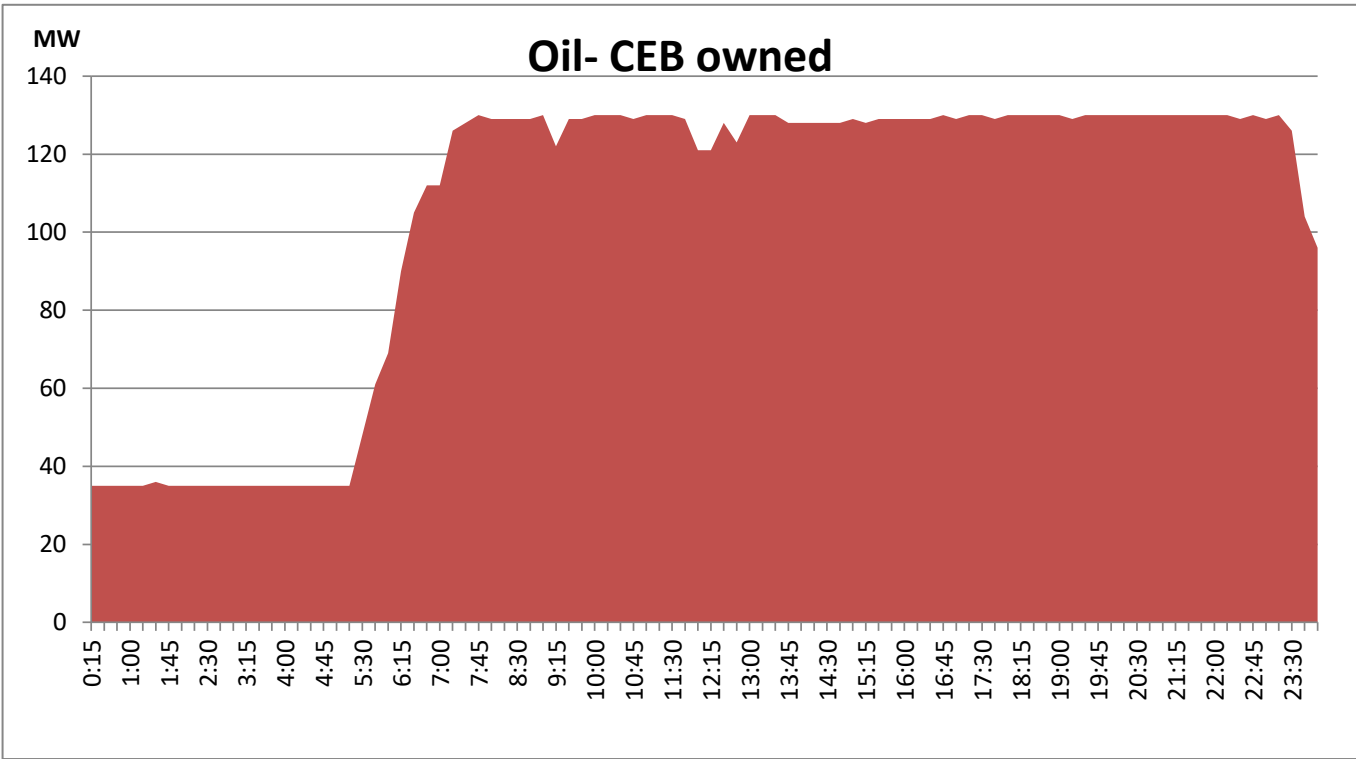
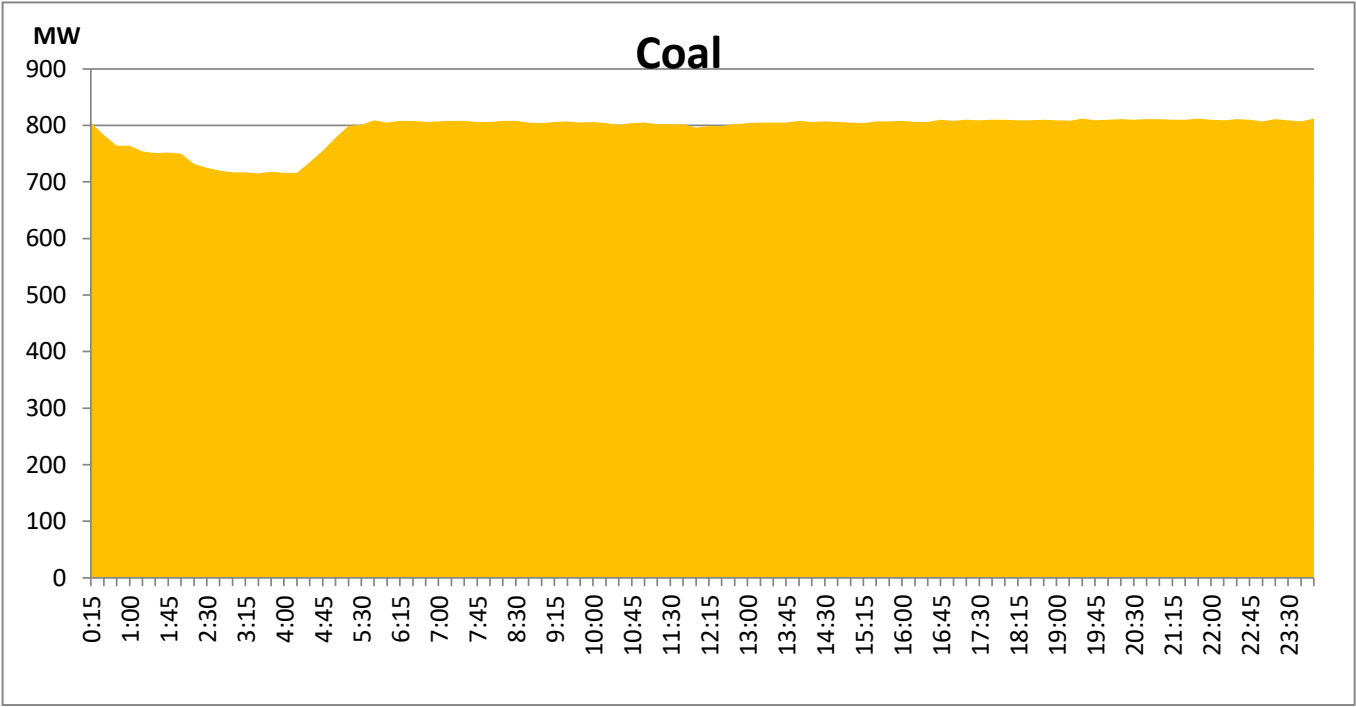
All graphs include the contribution from telemetered solar and wind plants

## Daily Load Curve of the Previous day

September 15, 2021

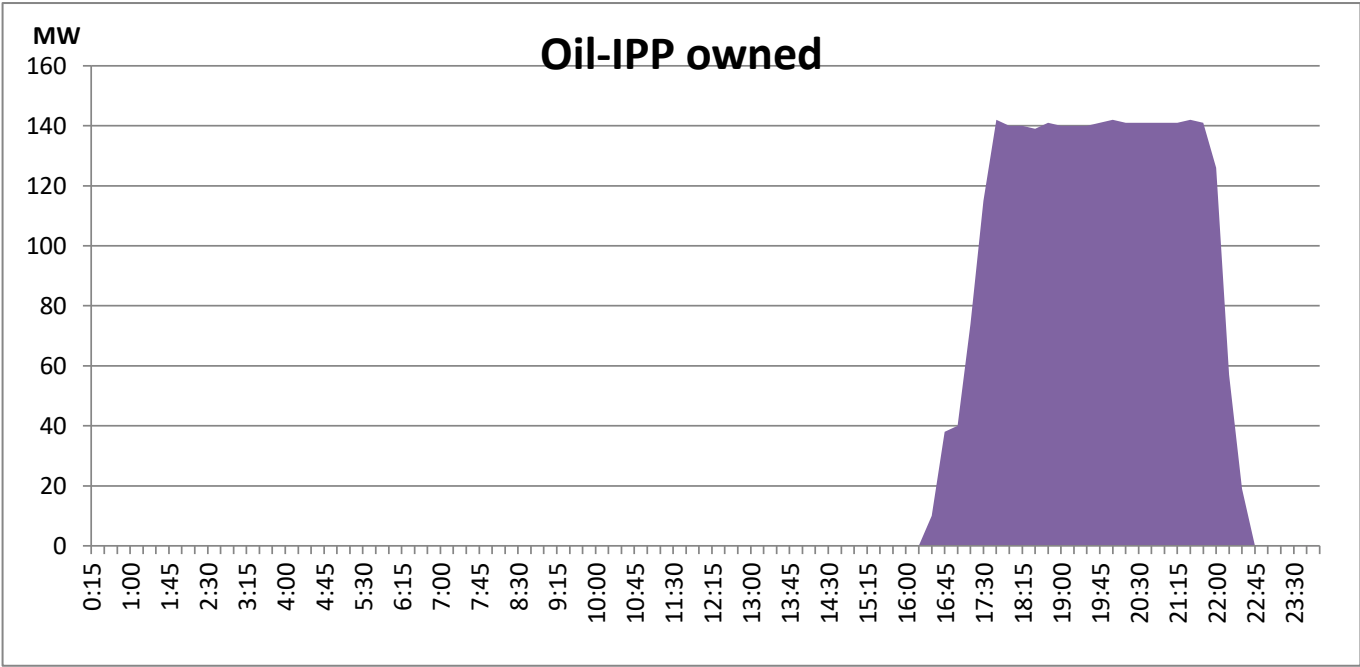
Solar and wind data is based on Telemetered Power Stations only





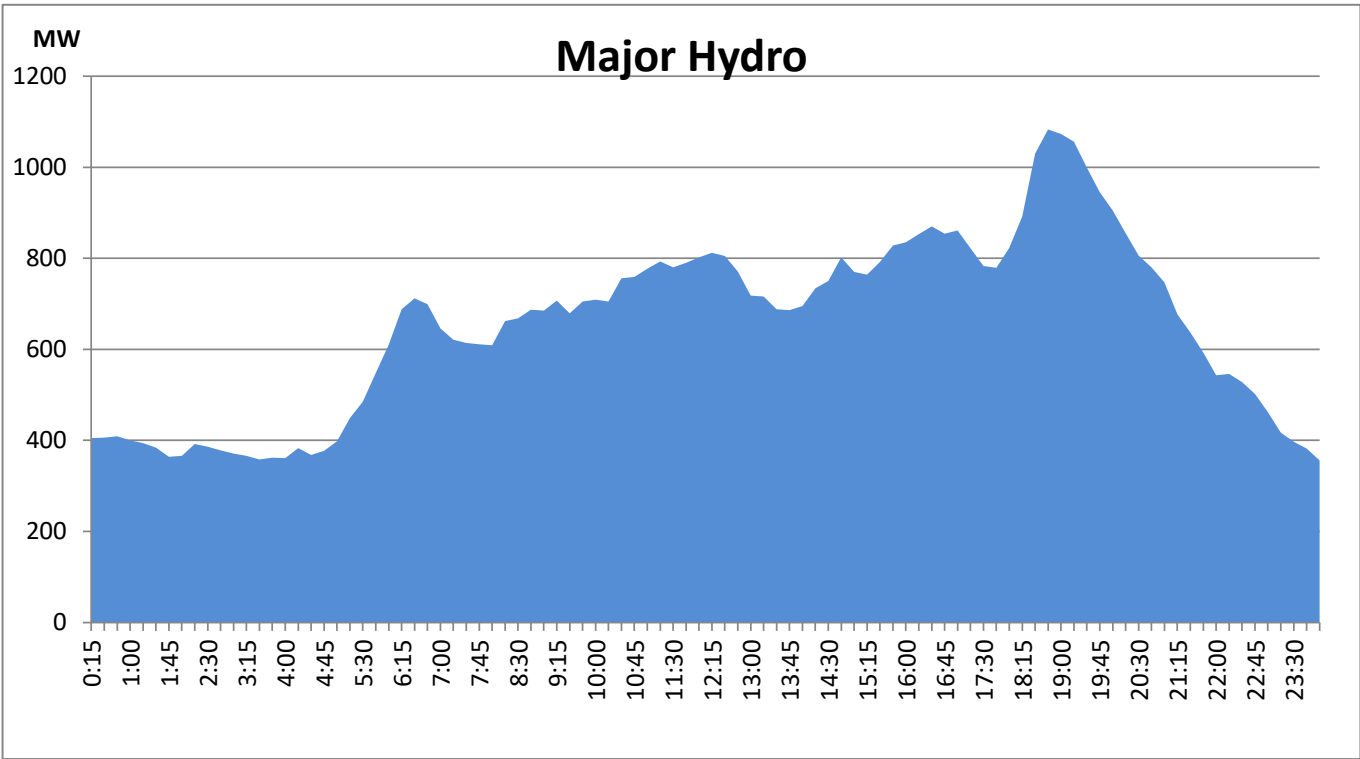
IPP Oil Plant Generation during the Previous day

September 15, 2021



Major Hydro Generation during the Previous day

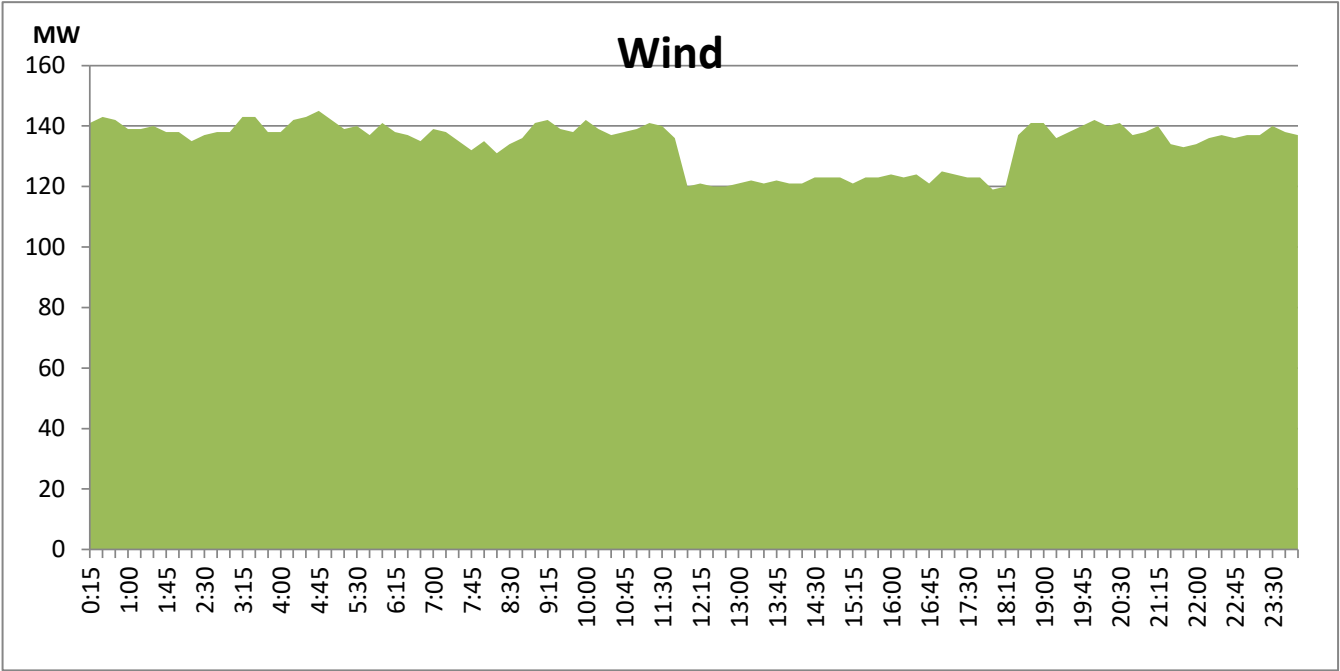
September 15, 2021



Wind Generation during the Previous day

September 15, 2021

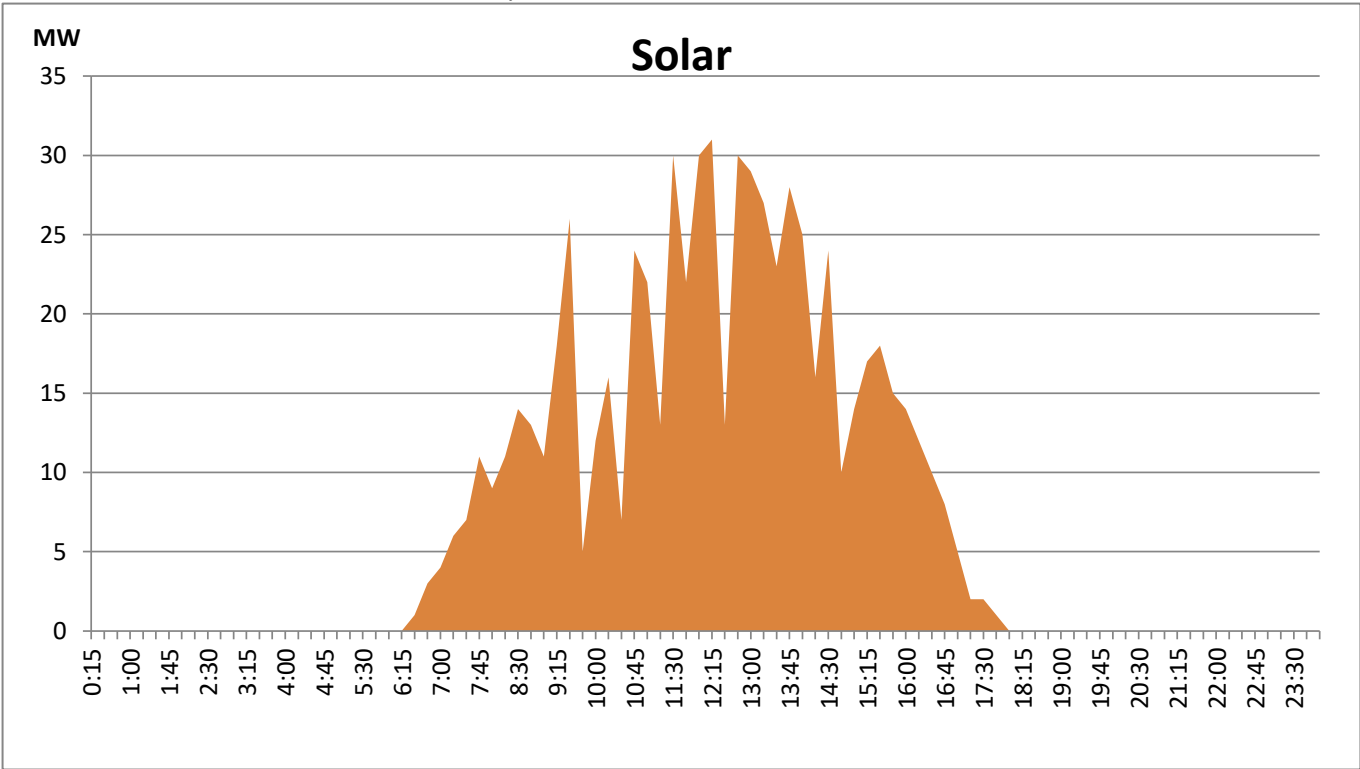
Based on Telemetered Power Stations only



Solar Generation during the Previous day

September 15, 2021

Based on Telemetered Power Stations only



## 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     |
|                                |                 |

Major Incidents during the day -as reported by CEB morning of  
Nil

| Power Station   | Primary Fuel               |
|-----------------|----------------------------|
| Private Thermal |                            |
| Sojitz -        | Auto Diesel                |
| West Coast      | Low Sulphur<br>Furnace oil |
|                 |                            |
|                 |                            |

September 17, 2021