

Generation and Reservoirs Statistics

November 2, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

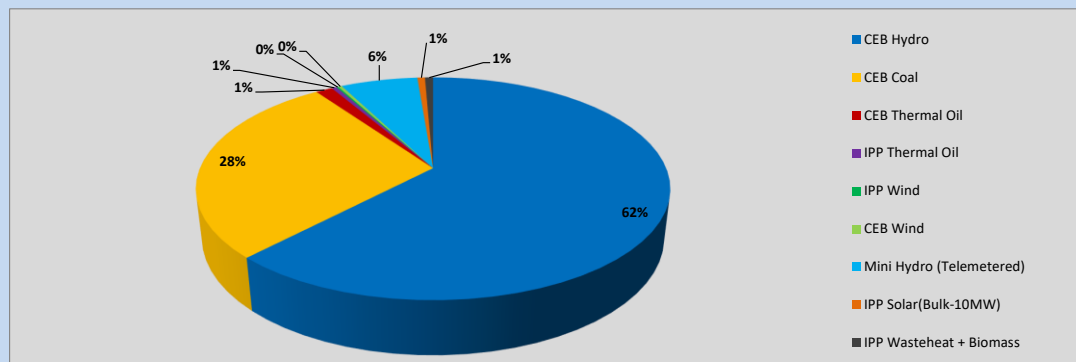


Table 01

| | Generation (MWh) |
|---|------------------|
| CEB Hydro | 23,237 |
| CEB Coal | 10,482 |
| CEB Thermal Oil | 511 |
| IPP Thermal Oil | 150 |
| IPP Wind | 62 |
| CEB Wind | 112 |
| Mini Hydro (Telemetered) | 2,347 |
| IPP Solar (Bulk) | 231 |
| IPP Waste heat + Biomass | 248 |
| Total Generation (Excluding estimated figures) | 37,380 |
| * Estimated unserved energy | 0 |
| * Estimated Mini Hydro (Non telemetered) | 2523 |
| * Estimated IPP Solar PV (Bulk 1-10MW) | 304 |
| * Estimated Solar Roof Top PV | 1640 |
| Total Generation (Including estimated figures) | 41,847 |

* 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 | 416 |
| IPP Waste heat + Biomass | 50 |
| IPP Solar | 130 |
| Rooftop Solar* (Ordinary) | 267 |
| Rooftop Solar* (LT Bulk) | 256 |
| Rooftop Solar* (HT Bulk) | 61 |

Data Source - Monthly Review Report [May-2023]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

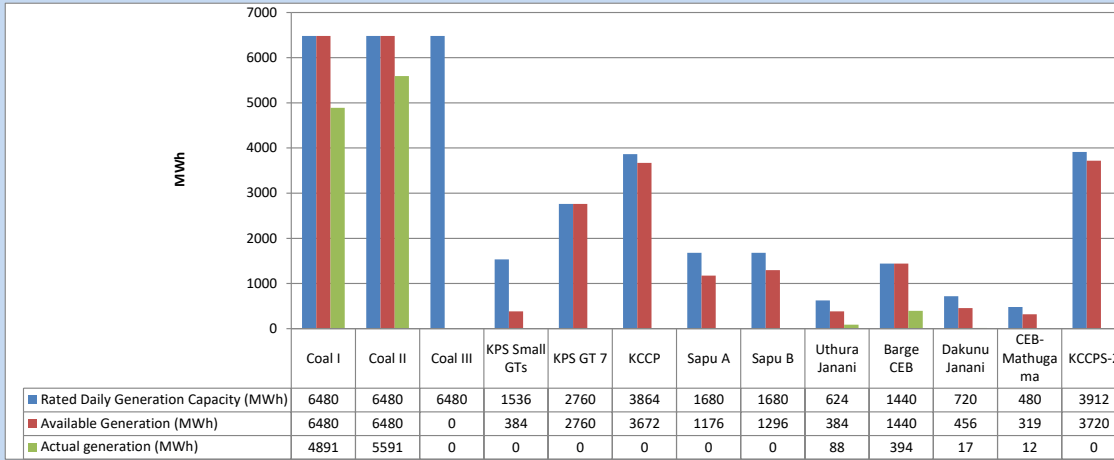
| Category | Dispatch (GWh) | |
|--------------------------|----------------|--------|
| CEB Hydro | 46 | 61.05% |
| CEB Coal | 21 | 27.91% |
| CEB Thermal Oil | 1 | 1.14% |
| IPP Thermal | 0 | 0.20% |
| SPP Wind | 0 | 0.29% |
| CEB Wind | 0 | 0.34% |
| Mini Hydro (Telemetered) | 5 | 6.92% |
| IPP Solar(Bulk-10MW) | 1 | 0.66% |
| IPP Waste heat + BMP | 1 | 0.69% |
| Total | 75 | |

Table 04 - Current Year

| Category | Dispatch (GWh) | |
|--------------------------|----------------|--------|
| CEB Hydro | 3,160 | 26.90% |
| CEB Coal | 4,297 | 36.58% |
| CEB Thermal Oil | 1,955 | 16.64% |
| IPP Thermal | 1,114 | 9.48% |
| SPP Wind | 347 | 2.95% |
| CEB Wind | 356 | 3.03% |
| Mini Hydro (Telemetered) | 315 | 2.68% |
| IPP Solar(Bulk-10MW) | 91 | 0.78% |
| IPP Waste heat | 109 | 0.92% |
| Total | 11,748 | |

3. CEB owned Thermal Plant Dispatch

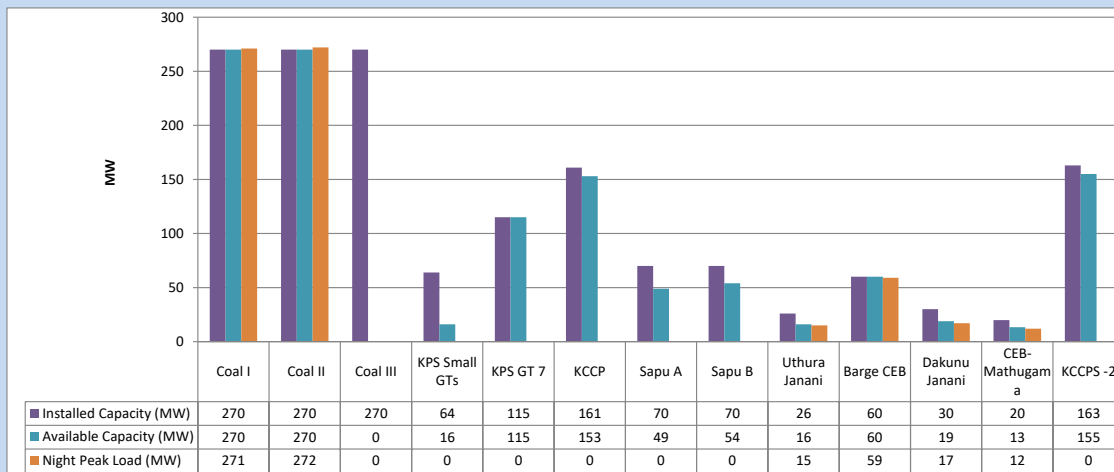
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Available Generation is estimated based on plant availability at 6.00am on

November 3, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

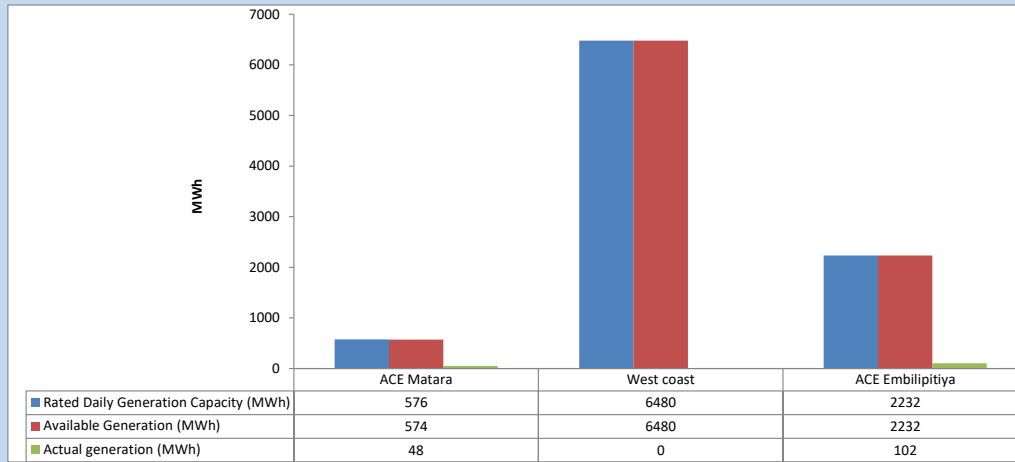


Plant availability is recorded at 6.00 am on

November 3, 2023

5. IPP owned Thermal Plant Dispatch

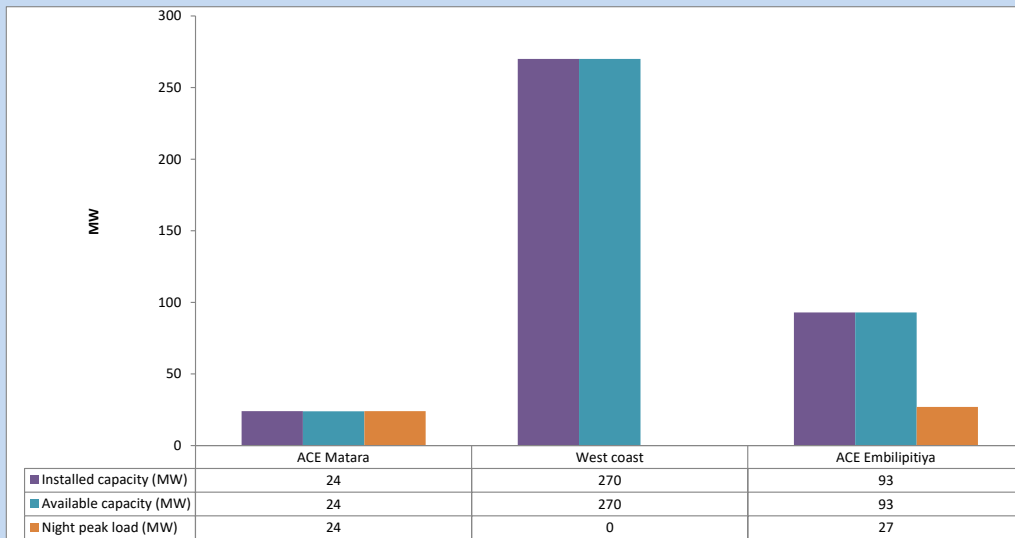
November 2, 2023



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

November 3, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

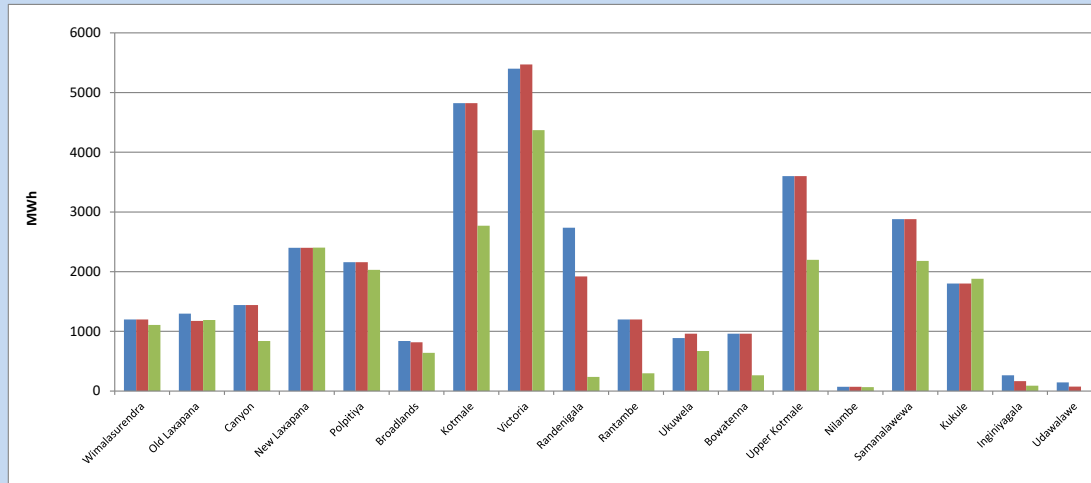


Plant availability is recorded at 6.00 am on

November 3, 2023

7. Major Hydro Plant Dispatch

November 2, 2023

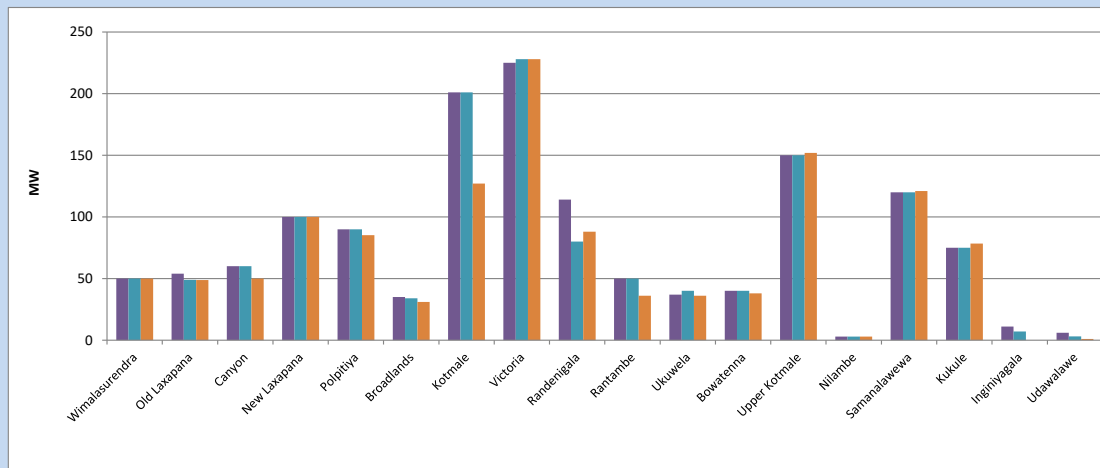


Available Generation is estimated based on plant availability at 6.00am on November 3, 2023
Broadlands power plant is operating in the Commissioning Stage

November 3, 2023

8. Major Hydro Plant Loading at Night Peak

November 2, 2023



Plant availability is recorded at 6.00 am on November 3, 2023
Broadlands power plant is operating in the Commissioning Stage

November 3, 2023

9. Summary of Major Plant performance

Table 05

| Plant | Installed Capacity (MW) | Plant Availability (MW) | Night peak Load (MW) | Plant Dispatch (MWh) |
|---------------------|----------------------------|----------------------------|-------------------------|-------------------------|
| Wimalasurendra | 50 | 50 | 50 | 1,109 |
| Old Laxapana Canyon | 54 | 49 | 49 | 1,191 |
| New Laxapana | 60 | 60 | 50 | 840 |
| Polpitiya | 100 | 100 | 100 | 2,402 |
| Broadlands | 90 | 90 | 85 | 2,030 |
| Kotmale | 35 | 34 | 31 | 641 |
| Victoria | 201 | 201 | 127 | 2,770 |
| Randenigala | 225 | 228 | 228 | 4,370 |
| Rantambe | 114 | 80 | 88 | 236 |
| Ukuwela | 50 | 50 | 36 | 298 |
| Bowatenna | 37 | 40 | 36 | 670 |
| Upper Kotmale | 40 | 40 | 38 | 265 |
| Nilambe | 150 | 150 | 152 | 2,197 |
| Samanalawewa | 3 | 3 | 3 | 66 |
| Kukule | 120 | 120 | 121 | 2,180 |
| Inginiyagala | 75 | 75 | 78 | 1,881 |
| Udawalawe | 11 | 7 | 0 | 91 |
| Puttalam Coal I | 6 | 3 | 1 | 0 |
| Puttalam Coal II | 270 | 270 | 271 | 4,891 |
| Puttalam Coal III | 270 | 270 | 272 | 5,591 |
| KPS Small GTs | 270 | 0 | 0 | 0 |
| KPS GT 7 | 64 | 16 | 0 | 0 |
| KCCP | 115 | 115 | 0 | 0 |
| Sapugaskanda A | 161 | 153 | 0 | 0 |
| Sapugaskanda B | 70 | 49 | 0 | 0 |
| Uthura Janani | 70 | 54 | 0 | 0 |
| Barge CEB | 26 | 16 | 15 | 88 |
| CEB-Hambantota | 60 | 60 | 59 | 394 |
| CEB-Mathugama | 30 | 19 | 17 | 17 |
| ACE Matara | 20 | 13 | 12 | 12 |
| Asia Power | 24 | 24 | 24 | 48 |
| KCCPS -2 | 50 | 0 | 0 | 0 |
| West Coast | 163 | 155 | 0 | 0 |
| Nothern Power | 270 | 270 | 0 | 0 |
| ACE Embilipitiya | 36 | 0 | 0 | 0 |
| Total | 93 | 93 | 27 | 102 |
| Total | 3,483 | 2,957 | 2,079 | 37,380 |

Plant availability is the availability recorded at 6 am on

November 3, 2023

10. Contribution to the Night Peak in MW

November 2, 2023

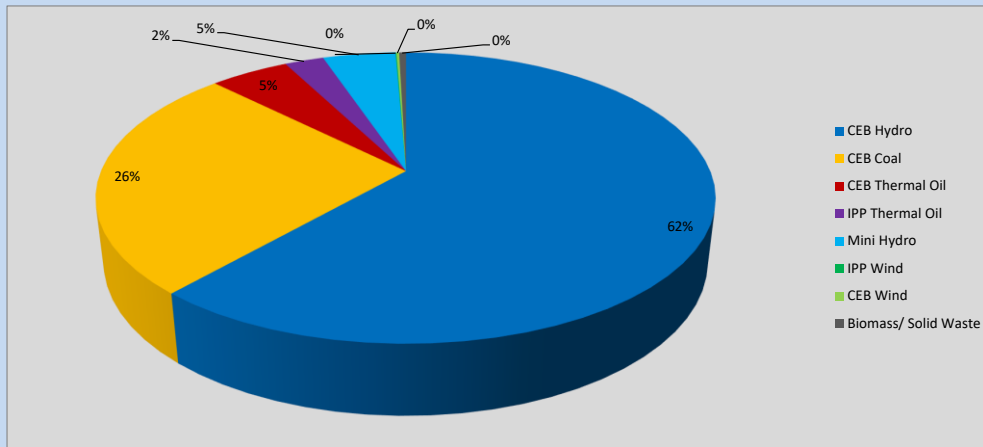


Table 06

| | | |
|--------------------------|------|----|
| CEB Hydro | 1288 | MW |
| CEB Coal | 543 | MW |
| CEB Thermal Oil | 103 | MW |
| IPP Thermal Oil | 51 | MW |
| Mini Hydro (Telemetered) | 95 | MW |
| IPP Wind | 1.2 | MW |
| CEB Wind | 3.5 | MW |
| Biomass/ Solid Waste | 9 | MW |

Recorded Peak Demand Data

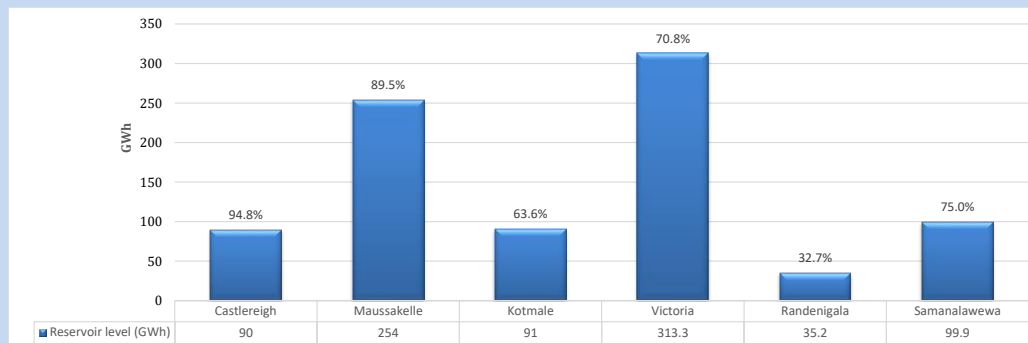
Table 07

| | | |
|-------------------------|-------|----|
| Night Peak* | 2,093 | MW |
| Day Peak Maximum Demand | 1,927 | MW |
| Day Peak Minimum Demand | 1,561 | MW |
| Off Peak Minimum Demand | 1,056 | MW |

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

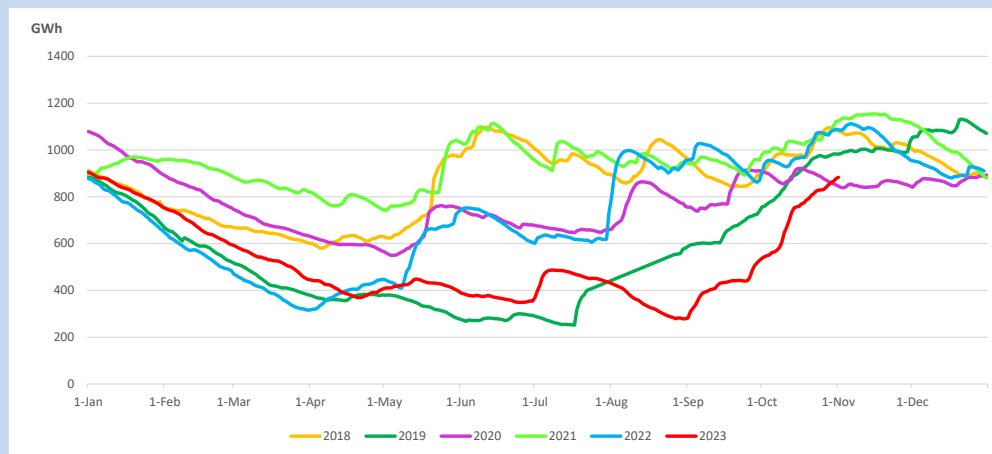
Reservoir Levels -

as at 06.00 Hr on November 3, 2023

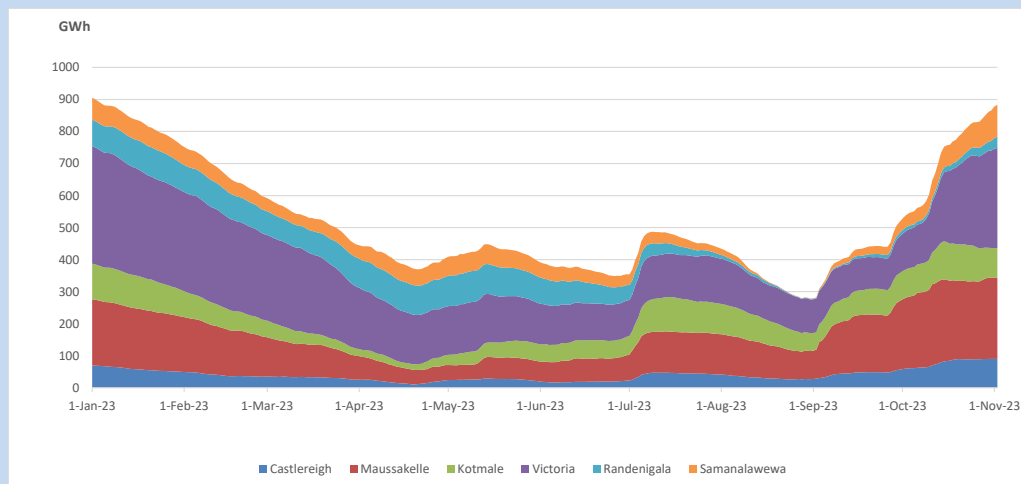


Total Reservoir Level 883.4 GWh
% of Total capacity 73.3%

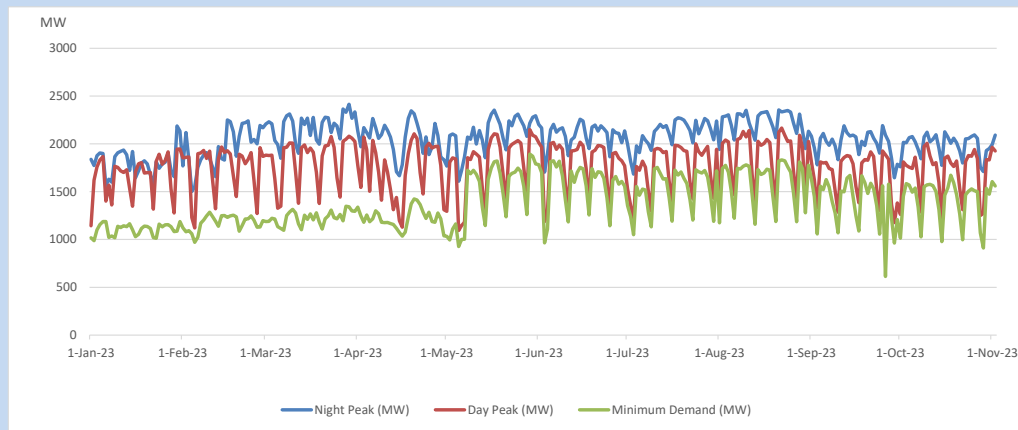
11. Comparison of Total Reservoir Storage Levels with Past Years



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



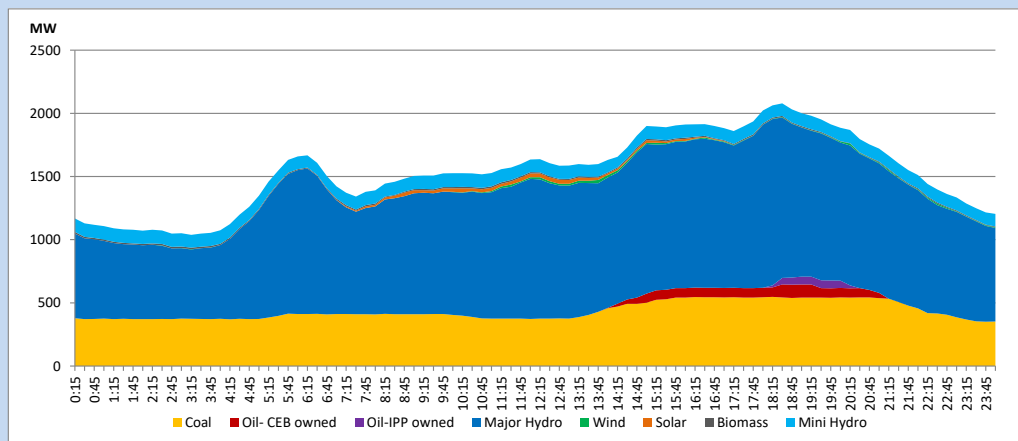
13. Variation of Demand during the current year



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

14. Daily Load Curve

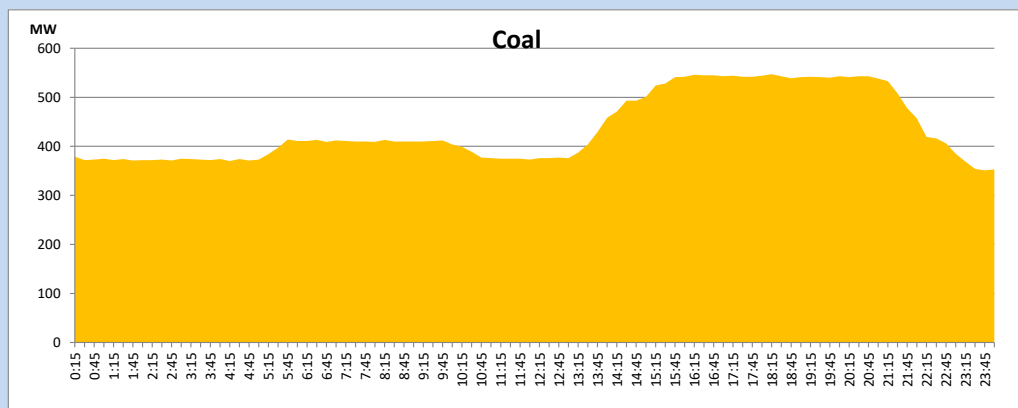
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Solar and wind data is based on Telemetered Power Stations only

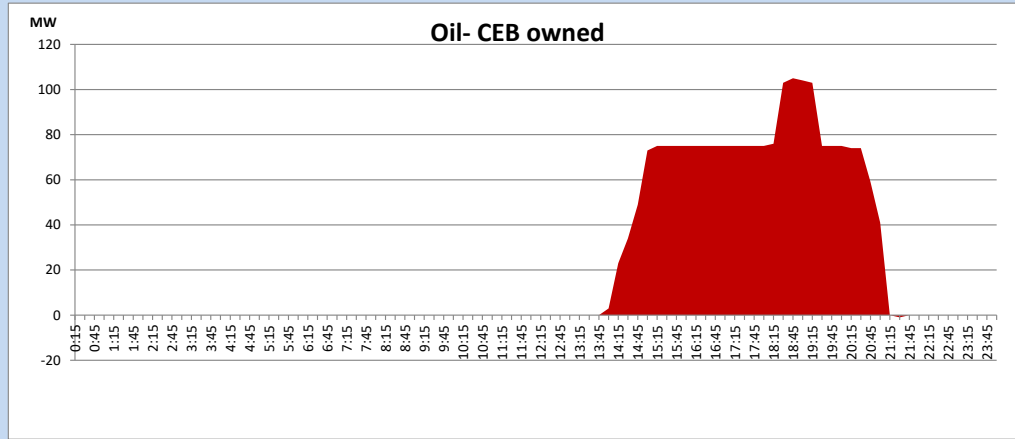
Coal Generation during

November 2, 2023



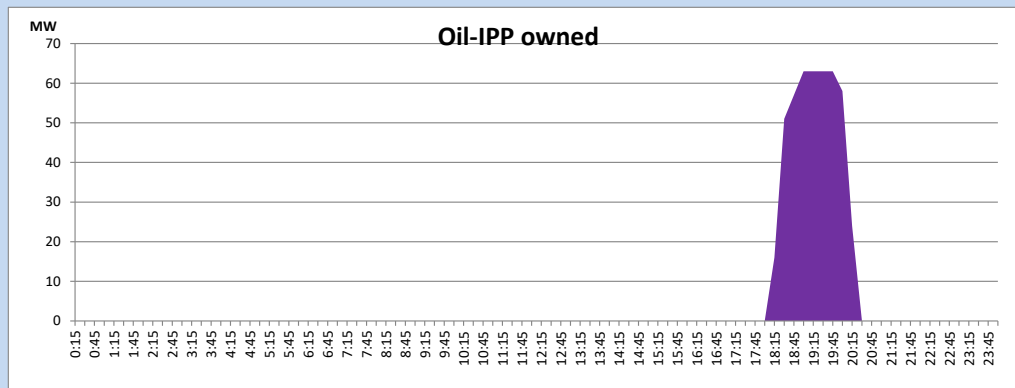
CEB Oil Plant Generation during

November 2, 2023



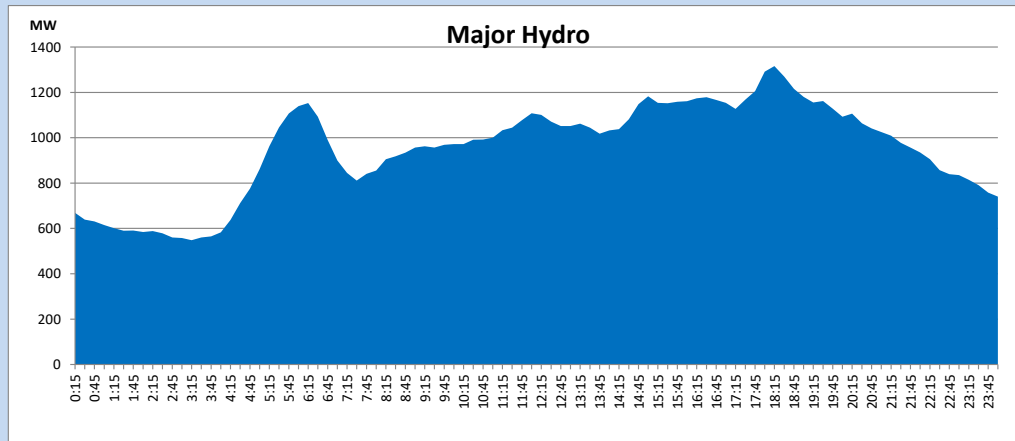
IPP Oil Plant Generation during

November 2, 2023



Major Hydro Generation during

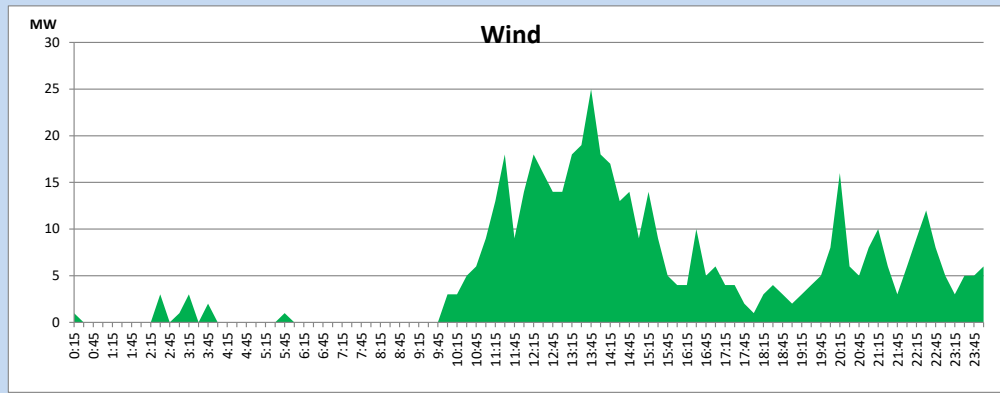
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Wind Generation during

November 2, 2023

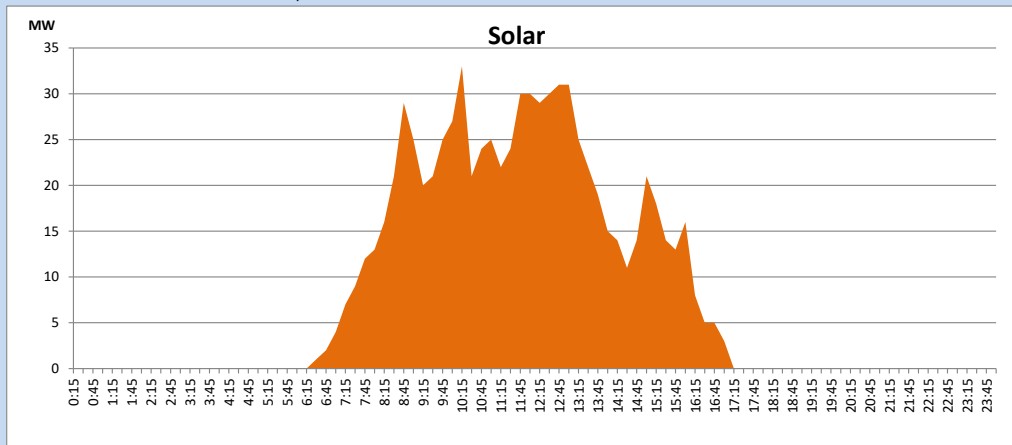
Based on Telemetered Power Stations only



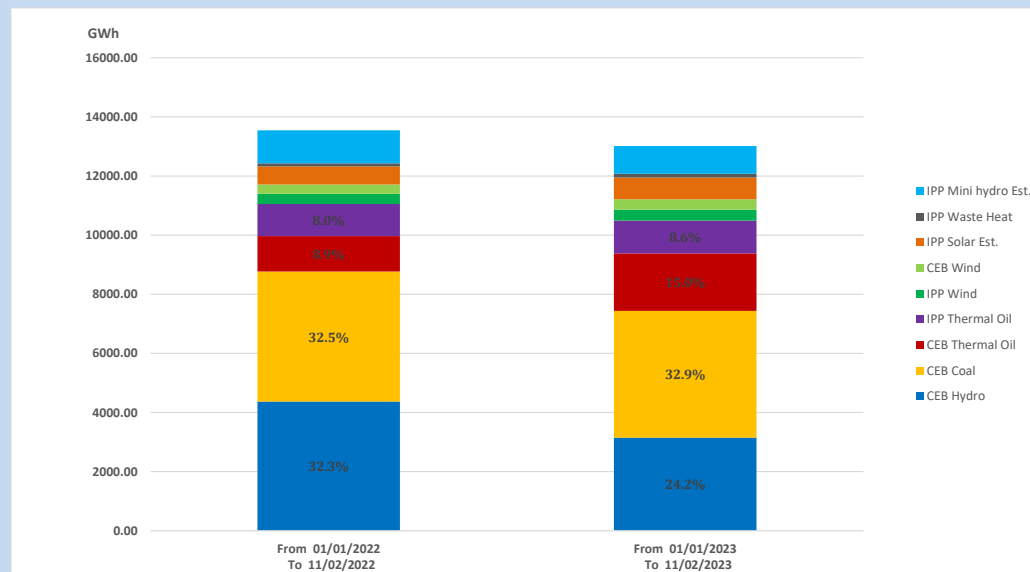
Solar Generation during

November 2, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 11/02/2022

13543 GWh

From 01/01/2023 To 11/02/2023

13021 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants (figures have been adjusted based on the data from the CEB monthly review reports.)

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

November 2, 2023

1) Ukuwela unit 01 made unavailable at 06.33hrs due to intake pressure low. Ukuwela unit 01 resumed generation at 14:09hrs.

2) Badulla - Nuwara Eliya - Old Laxapana 132kV cct 01 & 02 tripped at 14:21hrs due to the operation of distance protection. . This caused Nuwara Eliya, Badulla, Mahiyanganaya, Vavunathivu , Ampara and Monaragala GSSs to be dead due to incoming supply failure. Additionally, Rantembe Unit 02, which was running at 15MW, got rejected from the system due to incoming failure to Rantembe PS. All GSSs were normalized by 14:48hrs via Rantembe side. All effected feeders were restored by 14:50hrs. Badulla - Nuwara Eliya - Old Laxapana 132kV cct 01 was normalized at 14:44hrs. Badulla - Nuwara Eliya - Old Laxapana 132kV cct 02 was normalized at 15:10hrs. Rantembe PS resumed generation at 14:41hrs.

3) Kukule pond spilling continues to the present hour.