

Generation and Reservoirs Statistics

October 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 7, 2024

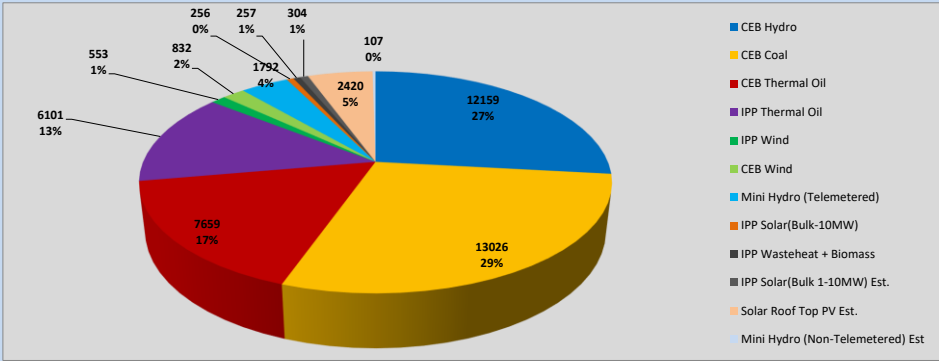


Table 01

| | Generation (MWh) |
|---|------------------|
| CEB Hydro | 12159 |
| CEB Coal | 13026 |
| CEB Thermal Oil | 7659 |
| IPP Thermal Oil | 6101 |
| IPP Wind | 553 |
| CEB Wind | 832 |
| Mini Hydro (Telemetered) | 1792 |
| IPP Solar (Bulk) | 256 |
| IPP Waste heat + Biomass | 257 |
| Total Generation (Excluding estimated figures) | 42,635 |
| * Estimated unserved energy | 0 |
| * Estimated Mini Hydro (Non telemetered) | 107 |
| * Estimated IPP Solar PV (Bulk 1-10MW) | 304 |
| * Estimated Solar Roof Top PV | 2420 |
| Total Generation (Including estimated figures) | 45,466 |

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

| Category | Dispatch (GWh) | |
|----------------------|----------------|--------|
| CEB Hydro | 86 | 26.64% |
| CEB Coal | 91 | 28.15% |
| CEB Thermal Oil | 52 | 16.15% |
| IPP Thermal | 41 | 12.83% |
| IPP Wind | 7 | 2.05% |
| CEB Wind | 8 | 2.62% |
| Mini Hydro * | 13 | 4.16% |
| IPP Solar * | 22 | 6.72% |
| IPP Waste heat + BMP | 2 | 0.67% |
| Total | 322 | |

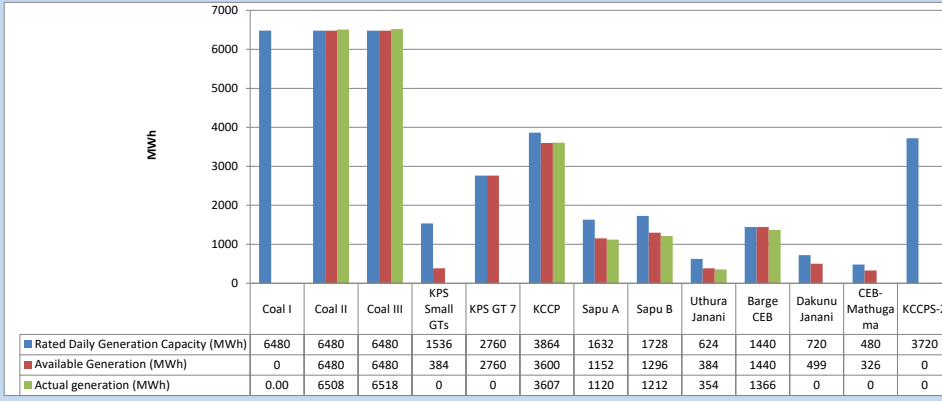
Table 03 - Current Year

| Category | Dispatch (GWh) | |
|-----------------|----------------|--------|
| CEB Hydro | 3,939 | 30.87% |
| CEB Coal | 4,491 | 35.20% |
| CEB Thermal Oil | 1,253 | 9.82% |
| IPP Thermal | 604 | 4.73% |
| IPP Wind | 318 | 2.49% |
| CEB Wind | 327 | 2.56% |
| Mini Hydro * | 943 | 7.39% |
| IPP Solar * | 768 | 6.02% |
| IPP Waste heat | 116 | 0.91% |
| Total | 12,759 | |

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 7, 2024

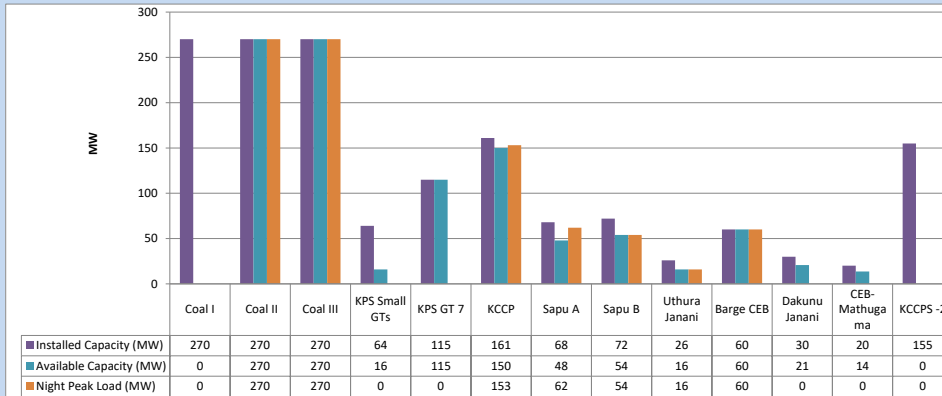


Available Generation is estimated based on plant availability at 6.00am on

October 8, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 7, 2024

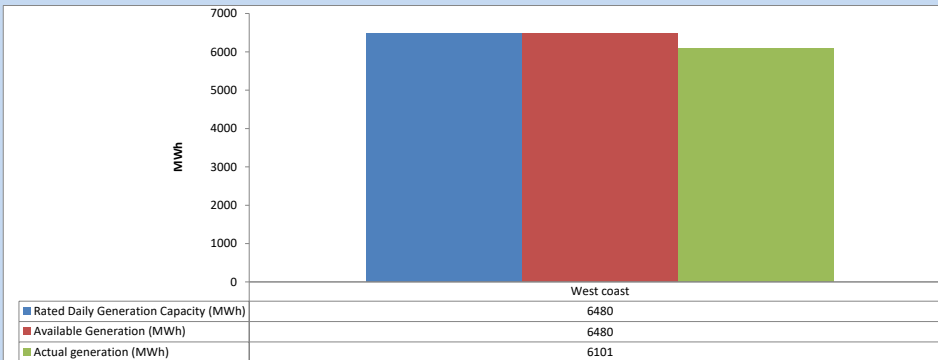


Plant availability is recorded at 6.00 am on

October 8, 2024

1.4 IPP owned Thermal Plant Dispatch

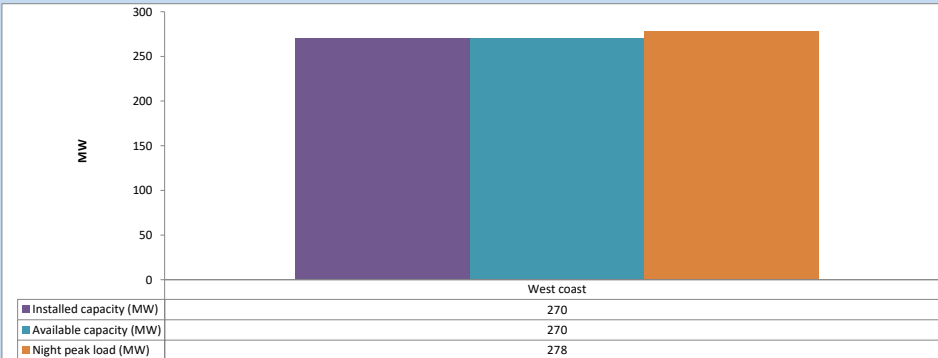
October 7, 2024



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

October 8, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

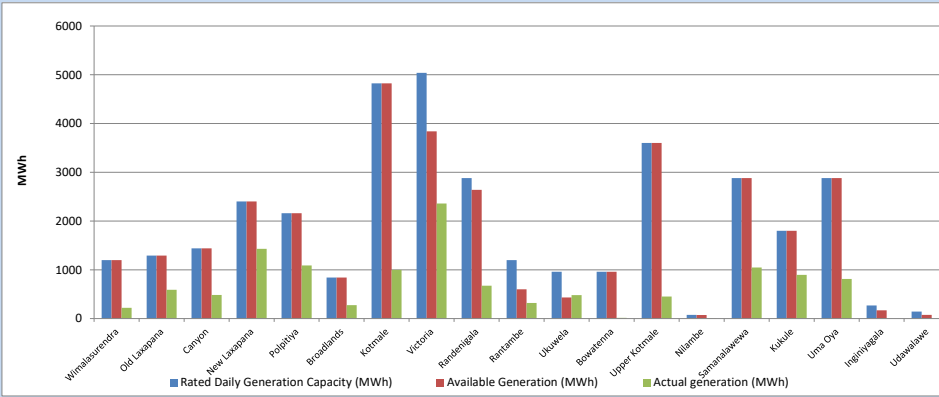


Plant availability is recorded at 6.00 am on

October 8, 2024

1.6 Major Hydro Plant Dispatch

October 7, 2024

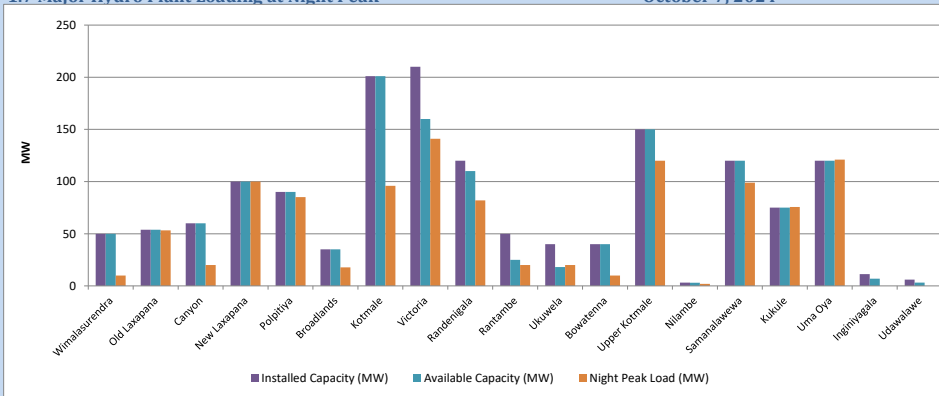


Available Generation is estimated based on plant availability at 6.00am on

October 8, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 7, 2024



Plant availability is recorded at 6.00 am on

October 8, 2024

1.8 Summary of Major Plant performance

October 7, 2024

Table 04

| Plant | Maximum Available Total Capacity (MW) | Plant Availability (MW) | Night peak Load (MW) | Plant Dispatch (MWh) |
|-------------------|---------------------------------------|-------------------------|----------------------|----------------------|
| Wimalasurendra | 50 | 50 | 10 | 219 |
| Old Laxapana | 54 | 54 | 53 | 589 |
| Canyon | 60 | 60 | 20 | 485 |
| New Laxapana | 100 | 100 | 100 | 1,431 |
| Polpitiya | 90 | 90 | 85 | 1,090 |
| Broadlands | 35 | 35 | 18 | 276 |
| Kotmale | 201 | 201 | 96 | 1,000 |
| Victoria | 210 | 160 | 141 | 2,359 |
| Randenigala | 120 | 110 | 82 | 675 |
| Rantambe | 50 | 25 | 20 | 321 |
| Ukuwela | 40 | 18 | 20 | 482 |
| Bowatenna | 40 | 40 | 10 | 16 |
| Upper Kotmale | 150 | 150 | 120 | 451 |
| Nilambe | 3 | 3 | 2 | 5 |
| Samanalawewa | 120 | 120 | 99 | 1,048 |
| Kukule | 75 | 75 | 76 | 897 |
| Uma Oya | 120 | 120 | 121 | 814 |
| Inginipagala | 11 | 7 | 0 | 0 |
| Udawalawe | 6 | 3 | 0 | 0 |
| Puttalam Coal I | 270 | 0 | 0 | 0 |
| Puttalam Coal II | 270 | 270 | 270 | 6,508 |
| Puttalam Coal III | 270 | 270 | 270 | 6,518 |
| KPS Small GTs | 64 | 16 | 0 | 0 |
| KPS GT 7 | 115 | 115 | 0 | 0 |
| KCCP | 161 | 150 | 153 | 3,607 |
| Sapugaskanda A | 68 | 48 | 62 | 1,120 |
| Sapugaskanda B | 72 | 54 | 54 | 1,212 |
| Uthura Janani | 26 | 16 | 16 | 354 |
| Barge CEB | 60 | 60 | 60 | 1,366 |
| CEB-Hambantota | 30 | 21 | 0 | 0 |
| CEB-Mathugama | 20 | 14 | 0 | 0 |
| KCCPS -2 | 155 | 0 | 0 | 0 |
| West Coast | 270 | 270 | 278 | 6,101 |
| Sobadhanavi | 220 | 212 | 0 | 0 |
| Total | 3,606 | 2,724 | 2,412 | 42,634 |

Note- Plant availability is the availability recorded at 6 am on

October 8, 2024

1.9 Contribution to the Night Peak in MW

October 7, 2024

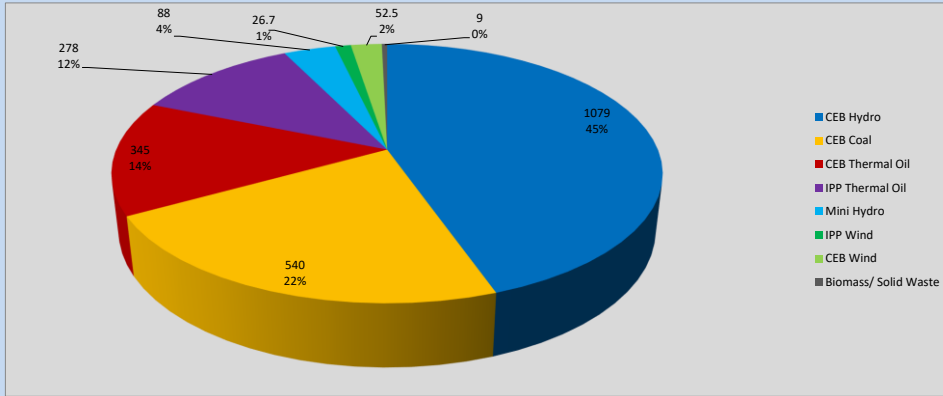


Table 05

| | | |
|--------------------------|------|----|
| CEB Hydro | 1079 | MW |
| CEB Coal | 540 | MW |
| CEB Thermal Oil | 345 | MW |
| IPP Thermal Oil | 278 | MW |
| Mini Hydro (Telemetered) | 88 | MW |
| IPP Wind | 26.7 | MW |
| CEB Wind | 52.5 | MW |
| Biomass/ Solid Waste | 9 | MW |

Recorded Peak Demand Data

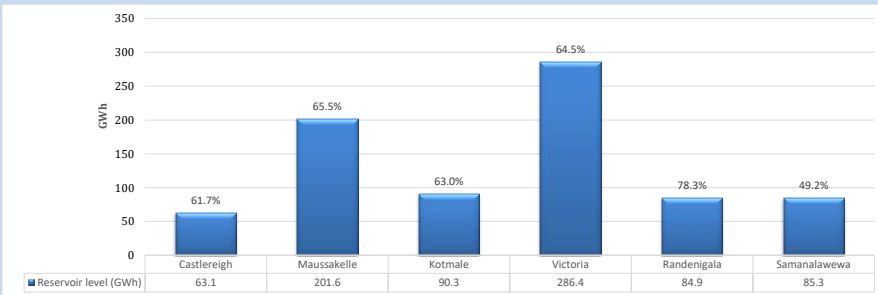
Table 06

| | | |
|-------------------------|-------|----|
| Night Peak* | 2,418 | MW |
| Day Peak Maximum Demand | 2,184 | MW |
| Day Peak Minimum Demand | 1,571 | MW |
| Off Peak Minimum Demand | 1,332 | 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 October 8, 2024



Total Reservoir Level
811.6 GWh
% of Total capacity
63.4%

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

October 7, 2024

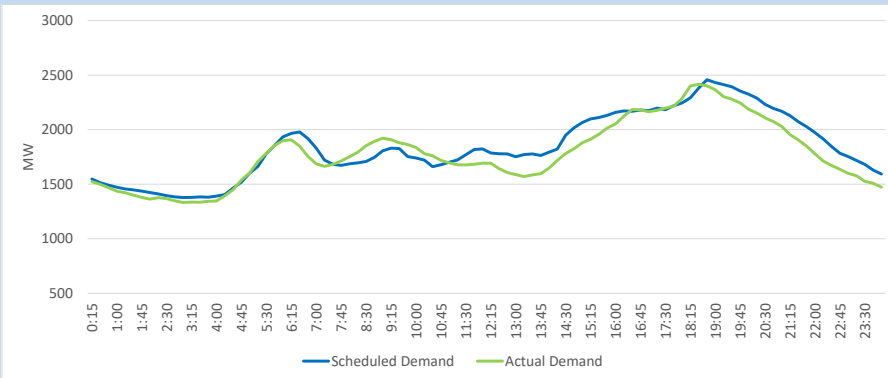
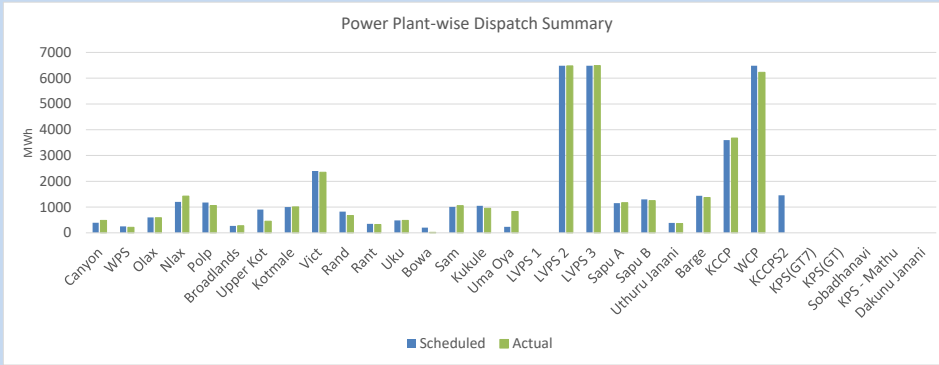


Table 07

| Category | Scheduled Dispatch (MWh) | Actual Dispatch (MWh) | Deviation (MWh) |
|--------------------|--------------------------|-----------------------|-----------------|
| Major Hydro | 12,319 | 12,171 | (148) |
| CEB Coal | 12,960 | 12,965 | 5 |
| CEB Thermal Oil | 9,326 | 7,822 | (1,505) |
| IPP Thermal Oil | 6,480 | 6,229 | (251) |
| NCRE (Telemetered) | 3,094 | 3,547 | 453 |
| Total | 44,179 | 42,733 | (1,446) |

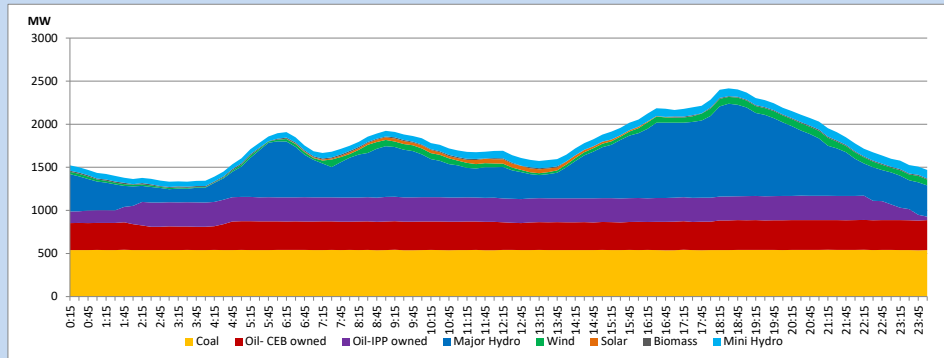
1.12 Power Plant-wise Dispatch Summary

October 7, 2024



1.13 Daily Load Curve

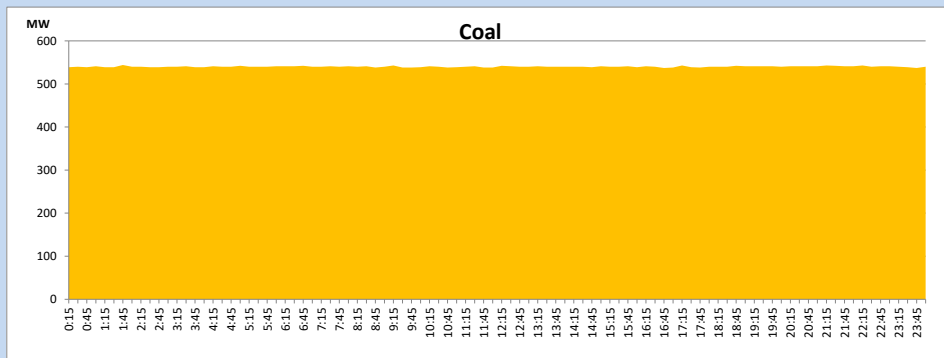
October 7, 2024



Solar and wind data is based on Telemetered Power Stations only

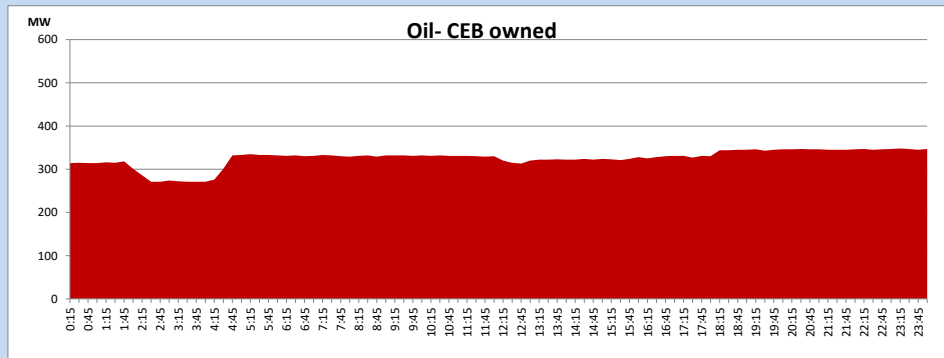
Coal Generation during

October 7, 2024



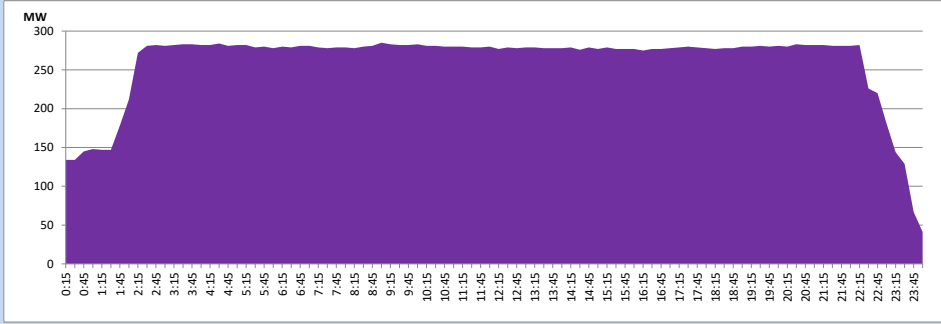
CEB Oil Plant Generation during

October 7, 2024



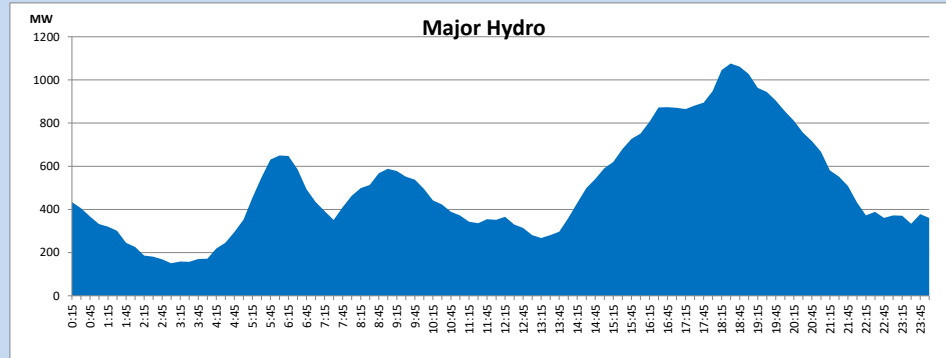
IPP Oil Plant Generation during

October 7, 2024



Major Hydro Generation during

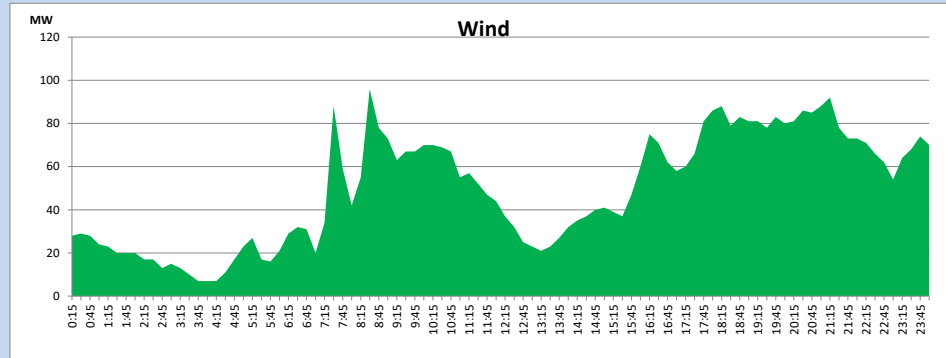
October 7, 2024



Wind Generation during

October 7, 2024

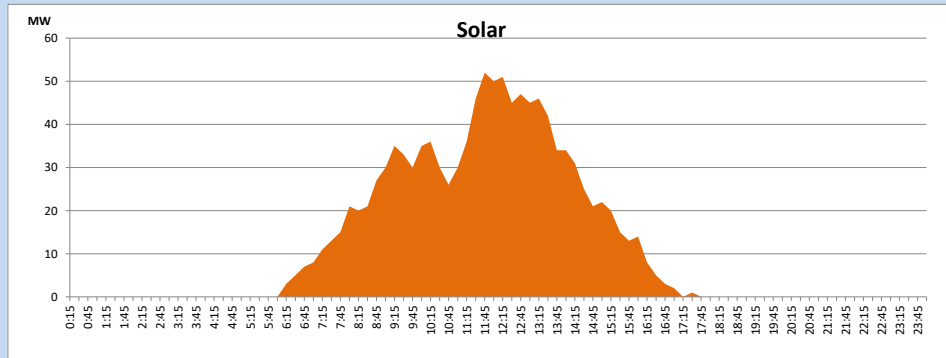
Based on Telemetered Power Stations only



Solar Generation during

October 7, 2024

Based on Telemetered Power Stations only

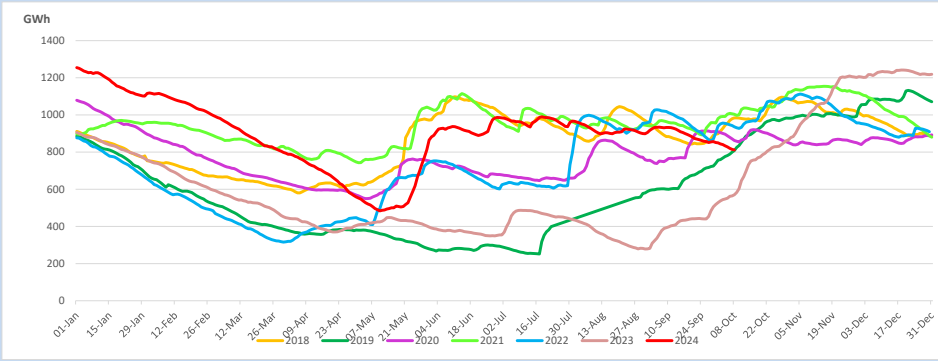


1.14 Major Incidents reported during the day

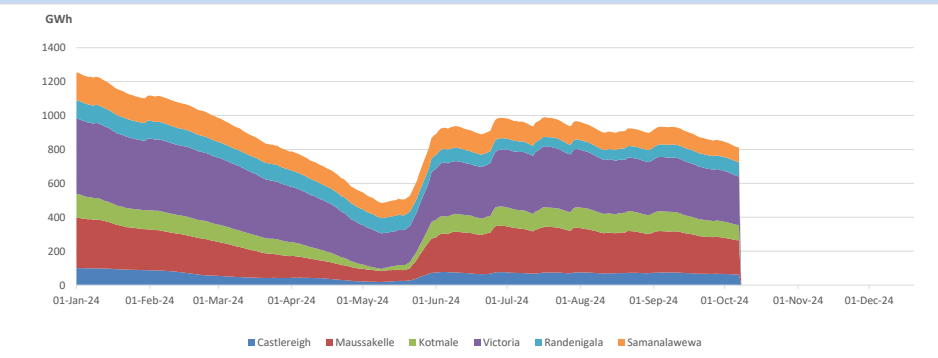
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1. New Galle - Deniyaya 132kV cct tripped from both ends at 07:17hrs due to the operation of differential protection. The cct was normalized at 12:35hrs.
2. Chunnakam 132/33kV T/F 03 tripped from both ends at 14:00hrs along with 33kV feeder 08 due to the operation of O/C protection. The T/F and feeder 08 normalized at 14:09hrs and 14:12hrs respectively.
3. Kolonnawa - Kosgama 132kV cct tripped only from Kolonnawa end at 14:23hrs due to Direct Transfer Trip. The cct. was normalized at 14:27hrs.
4. Katunayake 132/33kV T/F 03 tripped only from 33kV side at 21:23hrs due to the operation of E/F protection. The T/F is yet to be normalized.
5. Uma Oya Dyraba Pond spilling started at 00:20hrs and spilling stopped at 00:55hrs. (2024/10/08).

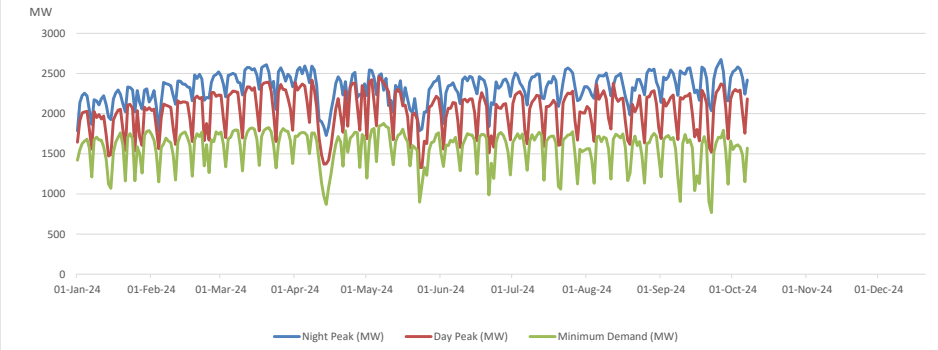
2. Comparison of Total Reservoir Storage Levels with Past Years



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

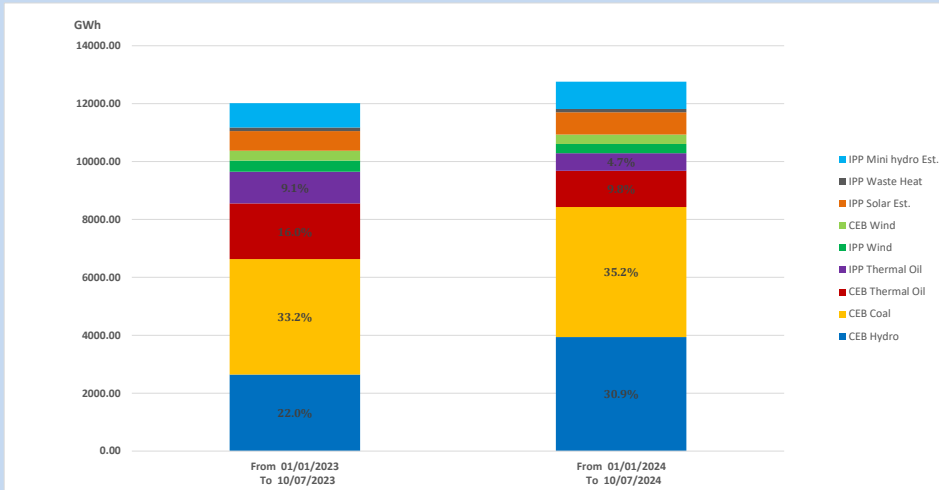


4. Variation of Demand during the current year



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 01/01/2023 To 10/07/2023

12014 GWh

From 01/01/2024 To 10/07/2024

12759 GWh

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

Unserviced energy due to power cuts has been excluded in 2023

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 Capacity

Table 09

| | Installed Capacity (MW) |
|--|-------------------------|
| CEB Hydro | 1535 |
| CEB Coal | 810 |
| CEB Thermal Oil | 771 |
| IPP Thermal Oil (West Coast & Sobadhanavi) | 490 |
| IPP Wind | 163 |
| CEB Wind | 100 |
| Mini Hydro | 422 |
| IPP Waste heat + Biomass | 54 |
| IPP Solar | 137 |
| Rooftop Solar (Ordinary) | 343 |
| Rooftop Solar (LT Bulk) | 289 |
| Rooftop Solar (HT Bulk) | 84 |

Data Source - Monthly Review Report May 2024 for NCRE installed capacities