



# Daily Electricity Generation & Cost Estimation Report

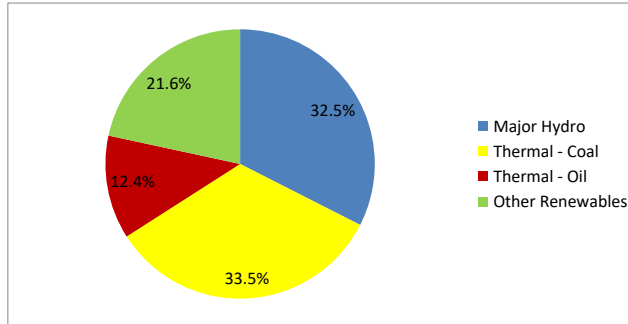
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13th October 2024



**Daily Generation Mix -13th Oct 2024**

| Plant Type                   | Generation (GWh) | Percentage |
|------------------------------|------------------|------------|
| Major Hydro                  | 12.24            | 32.5%      |
| Thermal - Coal               | 12.62            | 33.5%      |
| Thermal - Furnace Oil        | 4.69             | 12.4%      |
| Thermal - Diesel             | 0.00             | 0.0%       |
| Thermal - Naphtha            | 0.00             | 0.0%       |
| Wind - CEB                   | 0.69             | 1.8%       |
| Wind - IPP                   | 0.35             | 0.9%       |
| Solar - IPP - Ground Mounted | 0.56             | 1.5%       |
| Solar - Roof Top             | 2.42             | 6.4%       |
| Mini Hydro                   | 3.95             | 10.5%      |
| Municipal Solid Waste        | 0.18             | 0.5%       |
| <b>Total</b>                 | <b>37.70</b>     |            |



Note – Estimated generation from roof top solar, non-telemetered solar and mini hydro plants has been included in the above figures

**Estimated Generation Cost : 13th Oct 2024**

| Plant Type                   | Energy Cost (Mn LKR) | Non Fuel Energy Cost (Mn LKR) | Capacity Cost (Mn LKR) | Total Cost of Generation (Mn LKR) | Energy Cost per Unit (LKR/kWh) | Non fuel Energy Cost per Unit (LKR/kWh) | Capacity Charge per Unit (LKR/kWh) | Cost of Electricity per Unit (LKR/kWh) |
|------------------------------|----------------------|-------------------------------|------------------------|-----------------------------------|--------------------------------|---|------------------------------------|--|
| Major Hydro                  | 0.0                  | 0.0                           | 37.6                   | 37.6                              | 0.00                           | 0.00                                    | 3.07                               | 3.07                                   |
| Thermal - Coal               | 228.9                | 27.5                          | 44.5                   | 300.9                             | 18.15                          | 2.18                                    | 3.53                               | 23.85                                  |
| Thermal - Furnace Oil        | 205.4                | 9.4                           | 50.3                   | 265.0                             | 43.81                          | 2.00                                    | 10.72                              | 56.53                                  |
| Thermal - Diesel             | 0.0                  | 1.5                           | 19.8                   | 21.2                              | 0.00                           | 0.00                                    | 0.00                               | 0.00                                   |
| Thermal - Naphtha            | 0.0                  | 1.9                           | 3.2                    | 5.1                               | 0.00                           | 0.00                                    | 0.00                               | 0.00                                   |
| Wind - CEB                   | 0.0                  | 0.0                           | 20.9                   | 20.9                              | 0.00                           | 0.00                                    | 30.05                              | 30.05                                  |
| Wind - IPP                   | 5.6                  | 0.0                           | 0.0                    | 5.6                               | 16.15                          | 0.00                                    | 0.00                               | 16.15                                  |
| Solar - IPP - Ground Mounted | 10.9                 | 0.0                           | 0.0                    | 10.9                              | 19.58                          | 0.00                                    | 0.00                               | 19.58                                  |
| Solar - Roof Top             | 60.3                 | 0.0                           | 0.0                    | 60.3                              | 24.92                          | 0.00                                    | 0.00                               | 24.92                                  |
| Mini Hydro                   | 53.7                 | 0.0                           | 0.0                    | 53.7                              | 13.59                          | 0.00                                    | 0.00                               | 13.59                                  |
| Municipal Solid Waste        | 7.0                  | 0.0                           | 0.0                    | 7.0                               | 39.00                          | 0.00                                    | 0.00                               | 39.00                                  |
| <b>Total</b>                 | <b>571.8</b>         | <b>40.2</b>                   | <b>176.2</b>           | <b>788.2</b>                      | <b>15.17</b>                   | <b>1.07</b>                             | <b>4.67</b>                        | <b>20.91</b>                           |

Note -

Start/Stop costs has been excluded in the calculation

Capacity cost is based on the approved BST submission.

Unit Cost of Generation for the day : **20.91 LKR/kWh**  
 Total Generation Cost for the day: **788.23 Mn LKR**

**Fuel Prices**

( as at 1st Oct 2024)

|             | Price (LKR/Liter or LKR/kg) |
|-------------|-----------------------------|
| Furnace     | 191.00                      |
| Coal        | 44.20                       |
| Naphtha     | 191.16                      |
| Auto Diesel | 283.00                      |

**Scheduled (Day Ahead) Generation Mix - 13th Oct 2024 (Excluding generation from non telemetered power plants)**

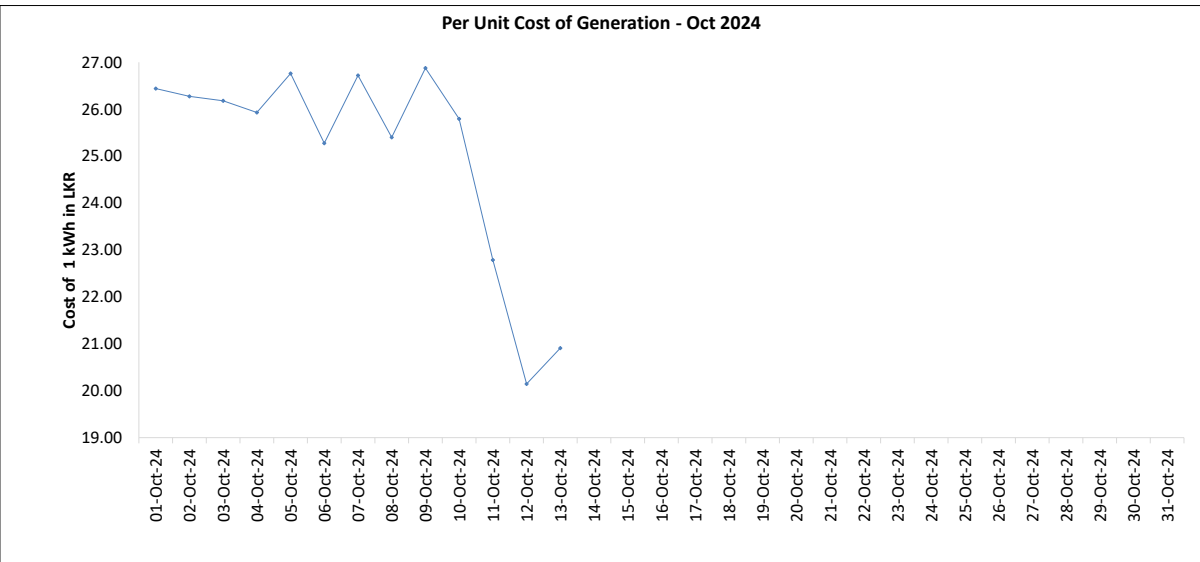
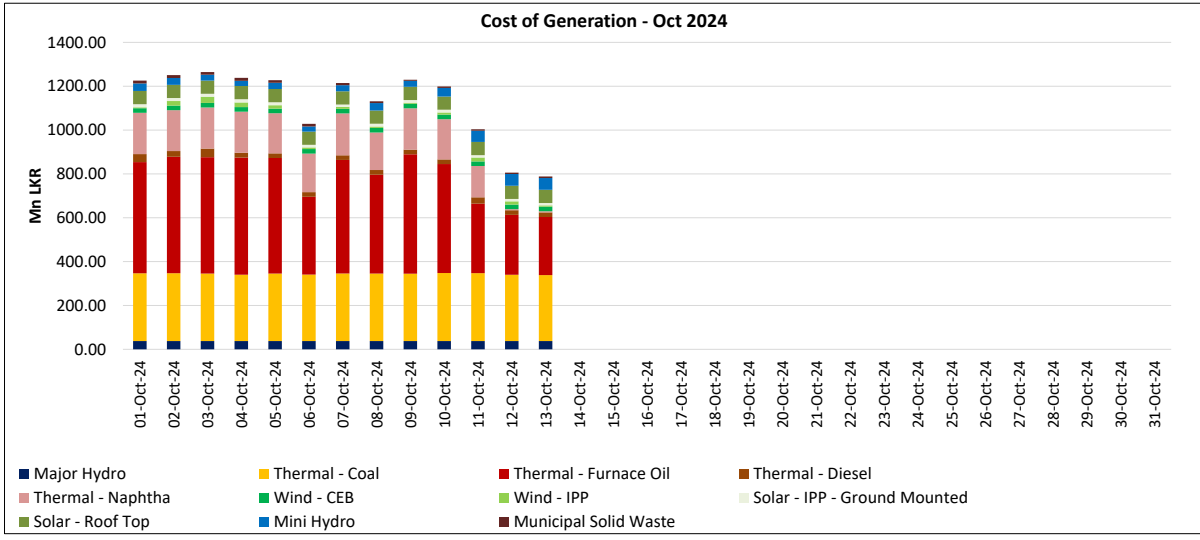
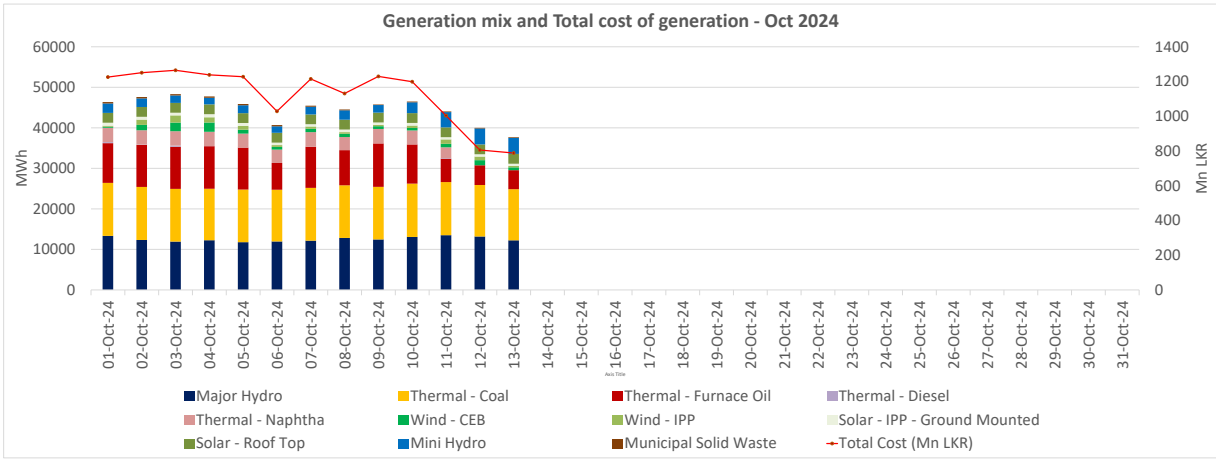
| Plant Type            | Generation (GWh) | Percentage |
|-----------------------|------------------|------------|
| Major Hydro           | 11.7             | 34%        |
| Thermal - Coal        | 12.6             | 37%        |
| Thermal - Furnace Oil | 4.5              | 13%        |
| Thermal - Diesel      | 0.0              | 0%         |
| Thermal - Naphtha     | 0.0              | 0%         |
| Wind - CEB            |                  |            |
| Wind - IPP            | 1.3              | 4%         |
| BMP                   | 0.2              | 2%         |
| Solar                 | 0.3              | 1%         |
| Mini Hydro            | 3.9              | 11%        |
| <b>Total</b>          | <b>34.41</b>     |            |

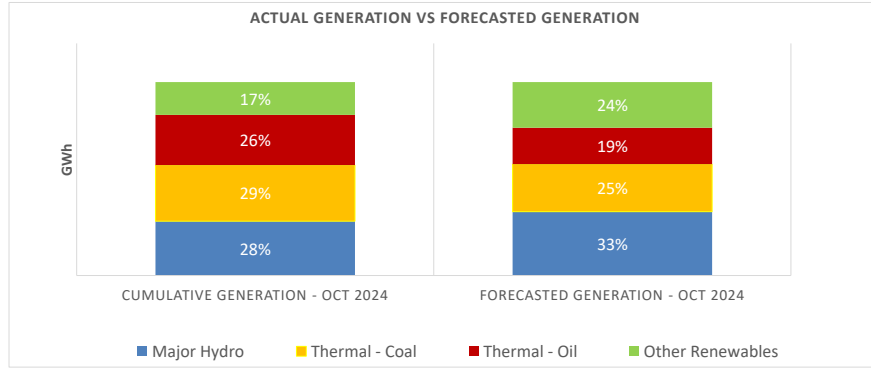
Estimated Generation Cost for the Scheduled Dispatch (Excluding non telemetered NCRE plants) **713.48 Mn LKR**

**Actual Generation Mix - 13th Oct 2024 (Excluding generation from non telemetered power plants)**

| Plant Type            | Generation (GWh) | Percentage |
|-----------------------|------------------|------------|
| Major Hydro           | 12.2             | 35%        |
| Thermal - Coal        | 12.6             | 36%        |
| Thermal - Furnace Oil | 4.7              | 13%        |
| Thermal - Diesel      | 0.00             | 0%         |
| Thermal - Naphtha     | 0.0              | 0%         |
| Wind - CEB            | 0.7              | 2%         |
| Wind - IPP            | 0.3              | 1%         |
| BMP                   | 0.2              | 0.5%       |
| Solar                 | 0.6              | 2%         |
| Mini Hydro            | 3.7              | 11%        |
| <b>Total</b>          | <b>35.06</b>     |            |

Estimated Generation Cost for the Actual Dispatch (Excluding non telemetered NCRE plants) **721.87 Mn LKR**





|                  | Cumulative Generation - Oct 2024<br>[GWh] | Forecasted Generation - Oct 2024<br>[GWh] |
|------------------|---|---|
| Major Hydro      | 163                                       | 470                                       |
| Thermal - Coal   | 168                                       | 350                                       |
| Thermal - Oil    | 151                                       | 269                                       |
| Other Renewables | 99  | 336                                       |
| <b>Total</b>     | <b>581</b>                                | <b>1425</b>                               |

Forecasted Generation - SDDP Oct 2024

**Estimated Cost of Generation - Oct 2024 ( Mn LKR)**

|                              |                         |
|------------------------------|-------------------------|
| Major Hydro                  | 488.67 Mn LKR           |
| Thermal - Coal               | 3988.27 Mn LKR          |
| Thermal - Furnace Oil        | 5850.33 Mn LKR          |
| Thermal - Diesel             | 322.86 Mn LKR           |
| Thermal - Naphtha            | 1995.46 Mn LKR          |
| Wind - CEB                   | 271.11 Mn LKR           |
| Wind - IPP                   | 165.17 Mn LKR           |
| Solar - IPP - Ground Mounted | 162.33 Mn LKR           |
| Solar - Roof Top             | 783.91 Mn LKR           |
| Mini Hydro                   | 455.12 Mn LKR           |
| Municipal Solid Waste        | 123.99 Mn LKR           |
| <b>Total Generation Cost</b> | <b>14,607.22 Mn LKR</b> |

Generation Energy Cost (Oct) 11,793.98 Mn LKR

\*Generation Capacity Cost (Oct) 2,290.63 Mn LKR

Other Cost (Oct) 522.61 Mn LKR

Average Unit Cost of Generation (Oct) 25.16 LKR/kWh

Note -

\* Capacity cost is based on the approved BST submission.