



# Daily Electricity Generation & Cost Estimation Report

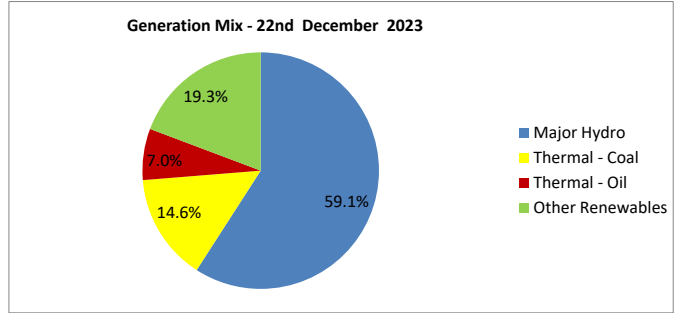
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22nd December 2023



**Daily Generation Mix - 22nd December 2023**

Plant Type	Generation (GWh)	Percentage
<b>Major Hydro</b>	24.56	59.1%
<b>Thermal - Coal</b>	6.07	14.6%
<b>Thermal - Furnace Oil</b>	2.90	7.0%
<b>Thermal - Diesel</b>	0.02	0.0%
<b>Thermal - Naphtha</b>	0.00	0.0%
<b>Wind - CEB</b>	1.15	2.8%
<b>Wind - IPP</b>	0.77	1.9%
<b>Solar - IPP - Ground Mounted</b>	0.60	1.4%
<b>Solar - Roof Top</b>	1.54	3.7%
<b>Mini Hydro</b>	3.57	8.6%
<b>Municipal Solid Waste</b>	0.37	0.9%
<b>Total</b>	<b>41.54</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 : 22nd December 2023**

Plant Type	Energy Cost (LKR Mn)	Non Fuel Energy Cost (LKR Mn)	Capacity Cost (LKR Mn)	Total Cost of Generation (LKR Mn)	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)
<b>Major Hydro</b>	0.0	0.0	59.6	59.6	0.00	0.00	2.43	2.43
<b>Thermal - Coal</b>	125.7	8.2	66.1	199.9	20.71	1.35	10.89	32.95
<b>Thermal - Furnace Oil</b>	149.4	6.0	60.8	216.2	51.51	2.06	20.98	74.55
<b>Thermal - Diesel</b>	1.3	1.8	15.9	19.0	85.64	120.76	1061.79	1268.20
<b>Thermal - Naphtha</b>	0.0	1.2	6.5	7.6	0.00	0.00	0.00	0.00
<b>Wind - CEB</b>	0.0	0.0	5.9	5.9	0.00	0.00	5.15	5.15
<b>Wind - IPP</b>	10.8	0.0	0.0	10.8	13.95	0.00	0.00	13.95
<b>Solar - IPP - Ground Mounted</b>	11.4	0.0	0.0	11.4	19.02	0.00	0.00	19.02
<b>Solar - Roof Top</b>	37.6	0.0	0.0	37.6	24.41	0.00	0.00	24.41
<b>Mini Hydro</b>	51.0	0.0	0.0	51.0	14.28	0.00	0.00	14.28
<b>Municipal Solid Waste</b>	12.8	0.0	0.0	12.8	34.58	0.00	0.00	34.58
<b>Total</b>	<b>399.9</b>	<b>17.1</b>	<b>214.8</b>	<b>631.8</b>	<b>9.63</b>	<b>0.41</b>	<b>5.17</b>	<b>15.21</b>

Note -

Start/Stop costs has been excluded in the calculation

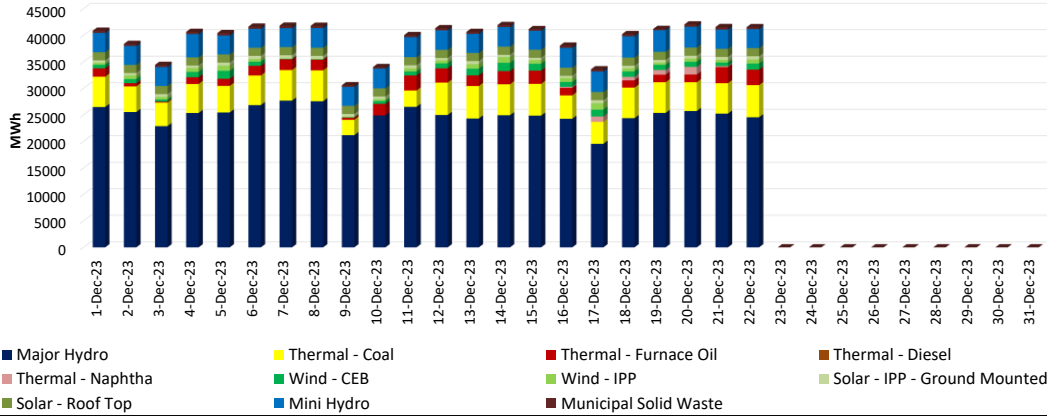
**Unit Cost of Generation for the day : 15.21 LKR/kWh**  
**Total Generation Cost for the day: 631.8 Mn LKR**

**Fuel Prices**

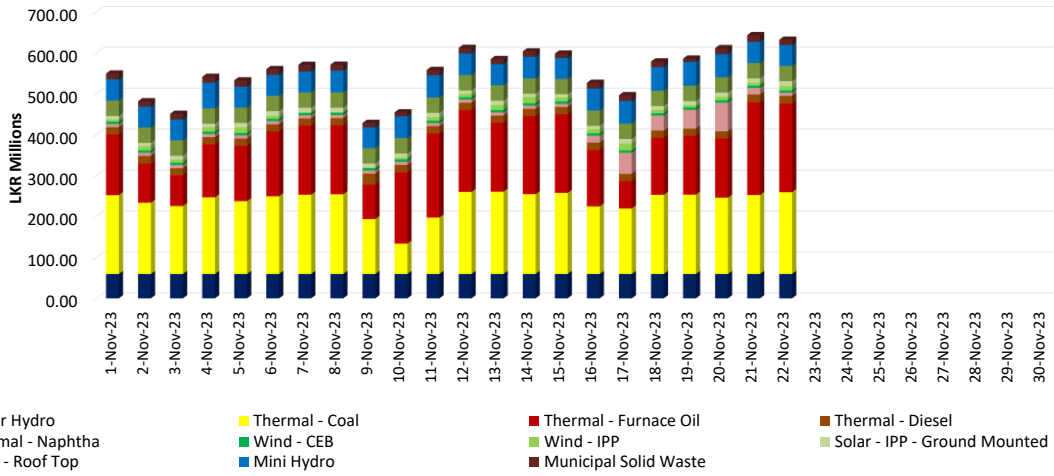
( as at 1st Dec 2023)

	Price (LKR/Liter or LKR/kg)
Furnace	205.00
Coal	50.45
Naphtha	161.00
Auto Diesel	329.00

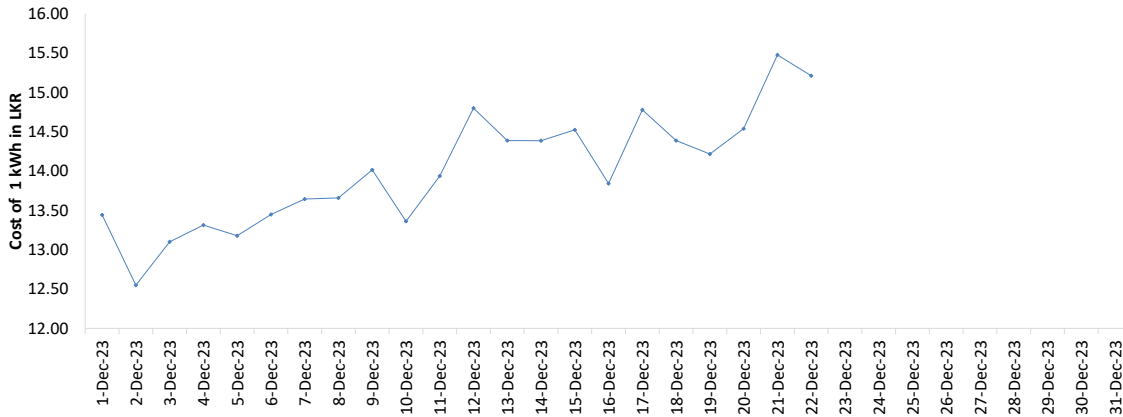
Generation Mix - December 2023

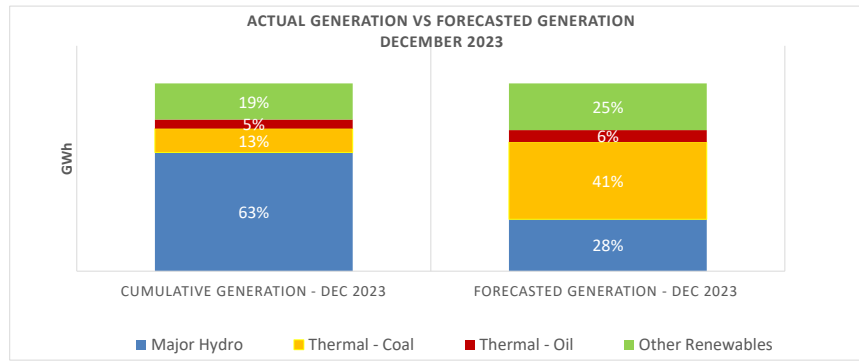


Cost of Generation - December 2023



Per Unit Cost of Generation - December 2023





	Cumulative Generation - December 2023 [GWh]	Forecasted Generation - December 2023 [GWh]
Major Hydro	549	353
Thermal - Coal	110	524
Thermal - Oil	42	81
Other Renewables	167	317
<b>Total</b>	<b>868</b>	<b>1276</b>

Forecasted Generation - SDDP November 2023

**Estimated Cost of Generation - December 2023 ( Mn LKR)**

Major Hydro	1310.74 Mn LKR
Thermal - Coal	3911.35 Mn LKR
Thermal - Furnace Oil	3366.69 Mn LKR
Thermal - Diesel	405.54 Mn LKR
Thermal - Naphtha	358.45 Mn LKR
Wind - CEB	130.50 Mn LKR
Wind - IPP	181.48 Mn LKR
Solar - IPP - Ground Mounted	215.34 Mn LKR
Solar - Roof Top	827.18 Mn LKR
Mini Hydro	1171.37 Mn LKR
Municipal Solid Waste	291.75 Mn LKR
<b>Total Generation Cost (Dec)</b>	<b>12,170.39 Mn LKR</b>
<b>Average Unit Cost of Generation (Dec)</b>	<b>14.02 LKR/kWh</b>