



# Daily Electricity Generation & Cost Estimation Report

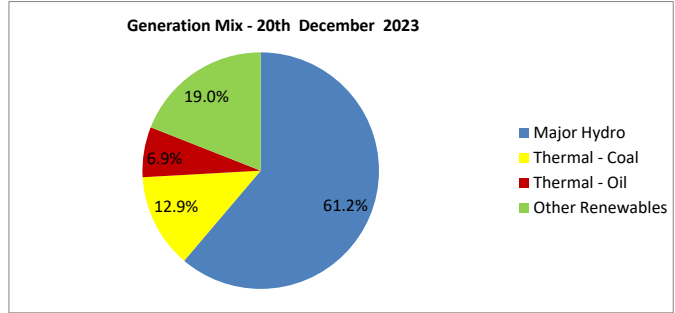
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20th December 2023



**Daily Generation Mix - 20th December 2023**

Plant Type	Generation (GWh)	Percentage
Major Hydro	25.74	61.2%
Thermal - Coal	5.43	12.9%
Thermal - Furnace Oil	1.45	3.5%
Thermal - Diesel	0.00	0.0%
Thermal - Naphtha	1.44	3.4%
Wind - CEB	0.97	2.3%
Wind - IPP	0.59	1.4%
Solar - IPP - Ground Mounted	0.55	1.3%
Solar - Roof Top	1.54	3.7%
Mini Hydro	3.93	9.3%
Municipal Solid Waste	0.43	1.0%
<b>Total</b>	<b>42.05</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 : 20th 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)
Major Hydro	0.0	0.0	59.6	59.6	0.00	0.00	2.31	2.31
Thermal - Coal	112.4	8.2	66.1	186.6	20.71	1.51	12.18	34.40
Thermal - Furnace Oil	77.6	6.0	60.8	144.4	53.39	4.11	41.84	99.34
Thermal - Diesel	0.0	1.8	15.9	17.7	0.00	0.00	0.00	0.00
Thermal - Naphtha	62.3	1.2	6.5	69.9	43.39	0.80	4.52	48.71
Wind - CEB	0.0	0.0	5.9	5.9	0.00	0.00	6.14	6.14
Wind - IPP	8.2	0.0	0.0	8.2	13.95	0.00	0.00	13.95
Solar - IPP - Ground Mounted	10.5	0.0	0.0	10.5	19.02	0.00	0.00	19.02
Solar - Roof Top	37.6	0.0	0.0	37.6	24.41	0.00	0.00	24.41
Mini Hydro	56.1	0.0	0.0	56.1	14.28	0.00	0.00	14.28
Municipal Solid Waste	14.8	0.0	0.0	14.8	34.58	0.00	0.00	34.58
<b>Total</b>	<b>379.4</b>	<b>17.1</b>	<b>214.8</b>	<b>611.3</b>	<b>9.02</b>	<b>0.41</b>	<b>5.11</b>	<b>14.54</b>

Note -

Start/Stop costs has been excluded in the calculation

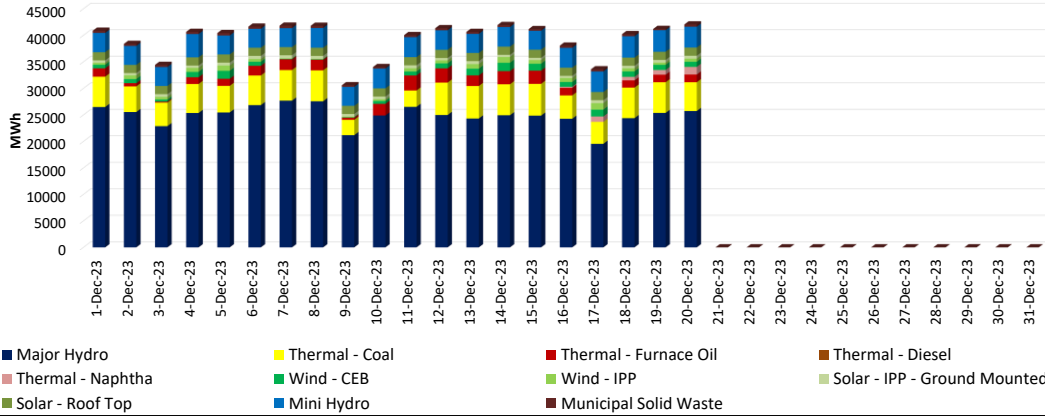
Unit Cost of Generation for the day : **14.54** LKR/kWh  
 Total Generation Cost for the day: **611.3** Mn LKR

**Fuel Prices**

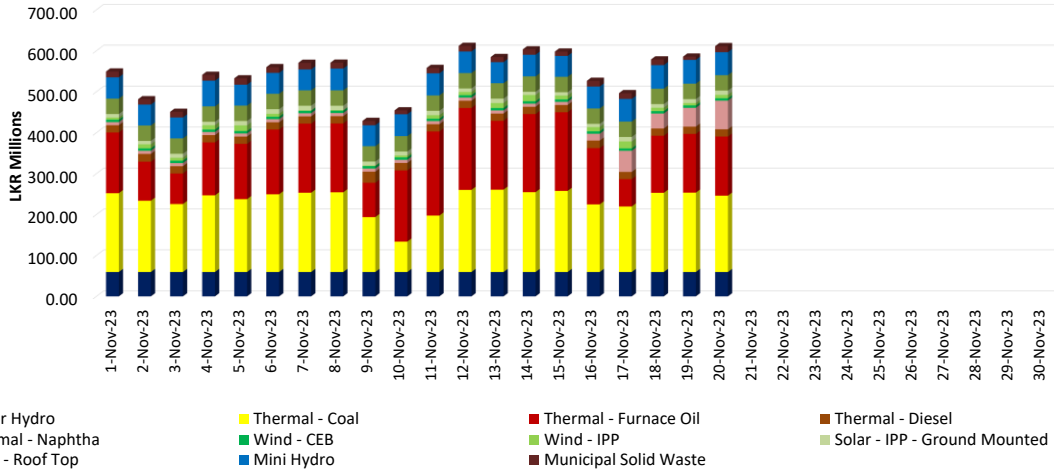
( as at 1st Dec 2023)

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

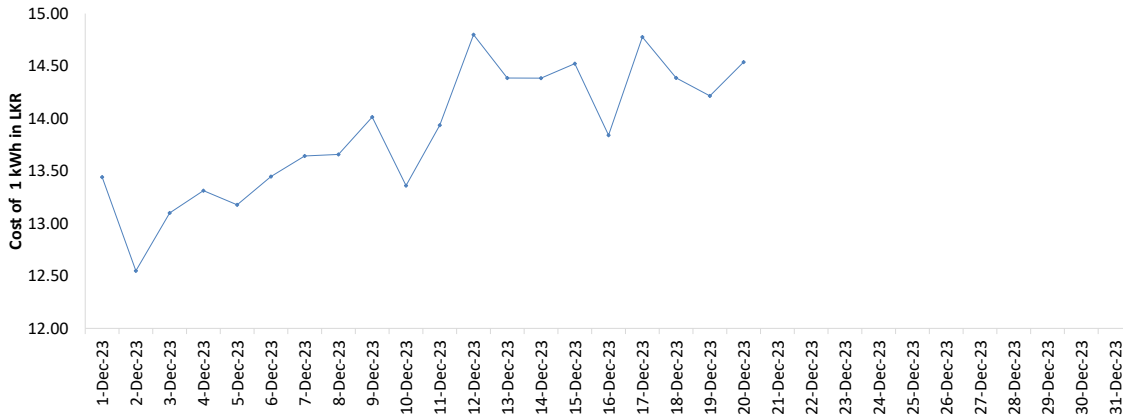
Generation Mix -December 2023

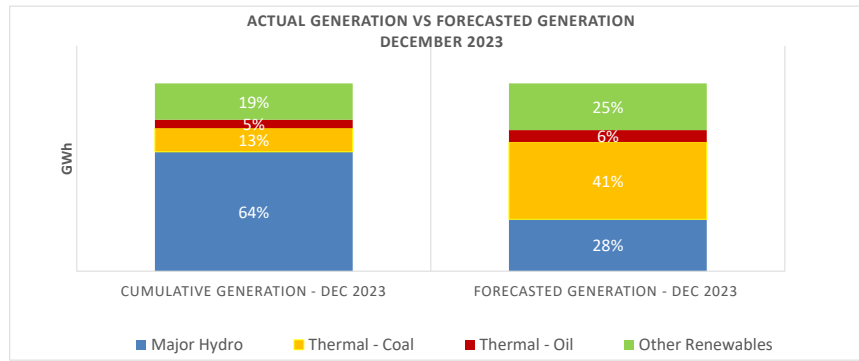


Cost of Generation -December 2023



Per Unit Cost of Generation - December 2023





	Cumulative Generation - December 2023 [GWh]	Forecasted Generation - December 2023 [GWh]
Major Hydro	499	353
Thermal - Coal	98	524
Thermal - Oil	36	81
Other Renewables	152	317
<b>Total</b>	<b>785</b>	<b>1276</b>

Forecasted Generation - SDDP November 2023

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

Major Hydro	1191.58 Mn LKR
Thermal - Coal	3518.45 Mn LKR
Thermal - Furnace Oil	2924.37 Mn LKR
Thermal - Diesel	366.98 Mn LKR
Thermal - Naphtha	335.07 Mn LKR
Wind - CEB	118.64 Mn LKR
Wind - IPP	163.70 Mn LKR
Solar - IPP - Ground Mounted	193.41 Mn LKR
Solar - Roof Top	751.98 Mn LKR
Mini Hydro	1068.77 Mn LKR
Municipal Solid Waste	262.57 Mn LKR
<b>Total Generation Cost (Dec)</b>	<b>10,895.52 Mn LKR</b>
<b>Average Unit Cost of Generation (Dec)</b>	<b>13.88 LKR/kWh</b>