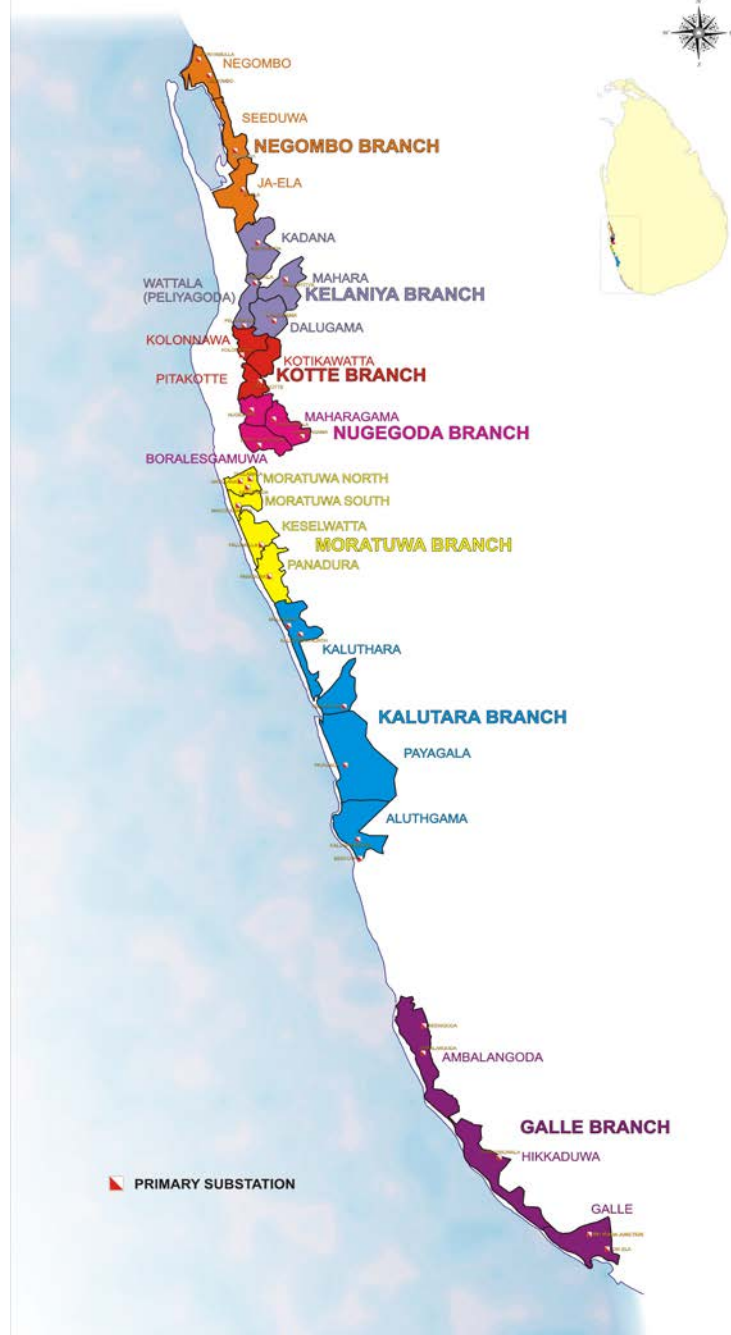


# STATISTICAL DIGEST

2016

Lanka Electricity Company (Private) Limited  
411, Galle Road,  
Colombo 03,  
Sri Lanka

## OPERATIONAL AREAS OF LANKA ELECTRICITY COMPANY (PRIVATE) LIMITED



## SUMMARY STATISTICS 2016

	Units	2015	2016	Annual Percentage Change
Total 11 kV Circuit Length	km	1,083.35	1,093.89	0.97%
Total 400/230 V Circuit Length	km	3,336.48	3,399.22	1.88%
Total Units Purchased from CEB (w/o UA)	GWh	1,417.77	1,522.86	7.41%
Total Units Purchased from CEB (with UA)	GWh	1,446.00	1,553.18	7.41%
Total Units Purchased from Solar Suppliers	GWh		7.48	
Total Units Sold	GWh	1,364.53	1,469.85	7.72%
Distribution Losses	%	3.76%	3.95%	5.25%
Average Purchase Price Per Unit (with UA)	LKR/kWh	15.81	14.84	-6.15%
Average Selling Price Per Unit	LKR/kWh	19.33	19.62	1.51%
Revenue From Billed Sales (w/o FAC)	m.LKR	26,369.89	28,834.71	9.35%
Customer Accounts at the year end	No.	537,604	554,763	3.19%
No. of Branch Areas	No.	7	7	0.00%
No. of Customer Service Center	No.	23	23	0.00%
Total Employed (at end of year)	No.	1,465	1,556	6.21%
Capital Investment	m.LKR	828.53	1,156.99	39.64%
Net Distribution Asset	b.LKR	10.91	11.00	0.80%
No. of Customers per Employee	No./Employee	367	357	-2.84%

## ELECTRICITY SALES BY BRANCH IN GWh (million kWh)

Branch	LECO 2015	LECO 2016	Percentage Change 2015/16	Percentage of Total 2016	Monthly Av. Sales kWh/ Customer. 2016
Kotte	183.89	196.34	6.77%	13.36%	249.01
Kelaniya	289.28	310.46	7.32%	21.12%	281.56
Moratuwa	224.41	237.36	5.77%	16.15%	215.92
Galle	130.26	142.72	9.57%	9.71%	165.86
Kalutara	180.47	194.04	7.52%	13.20%	193.99
Negombo	155.16	169.78	9.42%	11.55%	256.64
Nugegoda	201.05	219.15	9.01%	14.91%	240.14
<b>TOTAL</b>	<b>1,364.53</b>	<b>1,469.85</b>	<b>7.72%</b>	<b>100.00%</b>	<b>228.76</b>

## ELECTRICITY SALES BY TARIFF IN GWh (million kWh)

Tariff	LECO 2015	LECO 2016	Percentage Change 2015/16	Percentage of Total 2016	Monthly Av. Sales kWh/ Customer. 2016
<b>Domestic</b>	<b>561.63</b>	<b>603.17</b>	<b>7.40%</b>	<b>41.04%</b>	<b>104.48</b>
<b>Religious</b>	<b>9.49</b>	<b>10.14</b>	<b>6.79%</b>	<b>0.69%</b>	<b>315.73</b>
<b>General Purpose Total</b>	<b>433.06</b>	<b>481.27</b>	<b>11.13%</b>	<b>32.74%</b>	<b>452.33</b>
GP 1	261.01	291.53			
GP 2	171.19	186.85			
GP 3	0.86	2.89			
<b>Hotel Total</b>	<b>52.76</b>	<b>56.97</b>	<b>7.98%</b>	<b>3.88%</b>	<b>75,810.58</b>
H 1	-	-			
H 2	50.85	52.12			
H 3	1.92	4.86			
<b>Industrial Total</b>	<b>265.47</b>	<b>275.94</b>	<b>3.94%</b>	<b>18.77%</b>	<b>6,493.16</b>
IP 1	27.41	29.42			
IP 2	201.36	209.01			
IP 3	36.70	37.51			
<b>Government Total</b>	<b>17.21</b>	<b>18.72</b>	<b>8.74%</b>	<b>1.27%</b>	<b>3,586.29</b>
GV 1	1.43	1.67			
GV 2	15.78	17.05			
GV 3	-	-			
<b>Street Lighting *</b>	<b>24.90</b>	<b>23.64</b>	<b>-5.04%</b>	<b>1.61%</b>	
STL 1	1.04	0.72			
STL 2	23.85	22.92			
<b>TOTAL</b>	<b>1,364.53</b>	<b>1,469.85</b>	<b>7.72%</b>	<b>100.00%</b>	<b>211.51</b>

## NO. OF CUSTOMER ACCOUNTS BY TARIFF

Tariff	LECO 2015	LECO 2016	Increase in Accounts 2016	Percentage Change 2015/16	Percentage of Total 2016
Domestic	447,944	460,157	12,213	2.73%	82.95%
Religious	2,506	2,549	43	1.72%	0.46%
General Purpose Total	79,784	84,536	4,752	5.96%	15.24%
GP 1	78,719	83,411			
GP 2	1063	1123			
GP 3	2	2			
Hotel Total	58	58	0	0.00%	0.01%
H 1	-	-			
H 2	57	56			
H 3	1	2			
Industrial Total	3,407	3,525	118	3.46%	0.64%
IP 1	2,842	2,930			
IP 2	552	582			
IP 3	13	13			
Government Total	400	408	8	2.00%	0.07%
GV 1	361	369			
GV 2	39	39			
GV 3	-	-			
Street Lighting	3,505	3,530	25	0.71%	0.64%
STL 1	417	425			
STL 2	3088	3105			
<b>TOTAL</b>	<b>537,604</b>	<b>554,763</b>	<b>17,159</b>	<b>3.19%</b>	<b>100.00%</b>

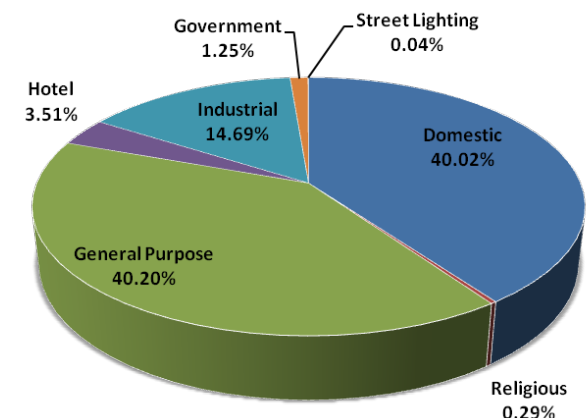
## NO. OF CUSTOMER ACCOUNTS BY BRANCH

Branch	LECO 2015	LECO 2016	Increase in Accounts 2016	Percentage Change 2015/16	Percentage of Total 2016
Kotte	65,157	65,707	550	0.84%	11.84%
Kelaniya	89,851	91,888	2,037	2.27%	16.56%
Moratuwa	88,963	91,609	2,646	2.97%	16.51%
Galle	69,747	71,708	1,961	2.81%	12.93%
Kalutara	80,500	83,353	2,853	3.54%	15.02%
Negombo	53,637	55,129	1,492	2.78%	9.94%
Nugegoda	74,158	76,050	1,892	2.55%	13.71%
<b>TOTAL</b>	<b>522,013</b>	<b>535,444</b>	<b>13,431</b>	<b>2.57%</b>	<b>96.52%</b>
Unbilled & Disconnected	15,591	19,319	3,728	23.91%	3.48%
<b>TOTAL WITH UNBILLED</b>	<b>537,604</b>	<b>554,763</b>	<b>17,159</b>	<b>3.19%</b>	<b>100.00%</b>

## REVENUE FROM ELECTRICITY SALES BY TARIFF IN m.Rs.

Tariff	LECO 2015	LECO 2016	Percentage Change 2015/16	Percentage of Total 2016	Ave. Price LKR/kWh 2016
Domestic	10,475.52	11,540.74	10.17%	40.02%	19.13
Religious	76.01	82.21	8.15%	0.29%	8.11
General Purpose Total	10,449.21	11,592.25	10.94%	40.20%	24.09
GP 1	5,900.18	6,622.74			22.72
GP 2	4,529.21	4,903.03			26.24
GP 3	19.82	66.48			23.00
Hotel Total	947.40	1,013.30	6.96%	3.51%	17.79
H 1	-	-			
H 2	916.63	935.45			17.95
H 3	30.77	77.85			16.04
Industrial Total	4,077.18	4,235.05	3.87%	14.69%	15.35
IP 1	347.50	373.60			12.70
IP 2	3,192.02	3,316.29			15.87
IP 3	537.66	545.16			14.53
Government Total	330.55	359.48	8.75%	1.25%	19.20
GV 1	23.15	27.10			16.22
GV 2	307.40	332.38			19.50
GV 3	-	-			
Street Lighting	14.02	11.68	-16.68%	0.04%	
STL 1	14.26	12.63			17.43
STL 2	(0.24)	(0.94)			
<b>TOTAL</b>	<b>26,369.89</b>	<b>28,834.71</b>	<b>9.35%</b>	<b>100.00%</b>	<b>19.62</b>

**Revenue From Electricity Sales by Tariff 2016**



## DISTRIBUTION SYSTEM ASSETS

	Unit	2015	2016	% Change
11 kV Route Length U.G.	km	66.46	68.74	3.43%
11 kV Route Length O.H.	km	1,016.89	1,025.16	0.81%
11 kV Route Length Total	km	1,083.35	1,093.89	0.97%
Low Voltage Circuit Length - Total	km	3,336.48	3,399.22	1.88%
Single Phase	km	78.60	78.55	-0.07%
Two Phase	km	9.78	9.78	0.00%
Three Phase	km	3,248.09	3,310.89	1.93%
Distribution Sub Station - 11 kV	No.	2,350	2,374	1.02%
Distribution Sub Station Capacity	kVA	364,573	369,703	1.41%
Bulk Sub Station - 11 kV	No.	1,532	1,614	5.35%
Bulk Sub Station Capacity	kVA	438,118	461,858	5.42%

## DISTRIBUTION LINE LENGTH BY BRANCH

Branch	2015			2016		
	11kV Route km	11kV Route km	% Change	LV circuit km	LV circuit km	% Change
Kotte	114.28	114.99	0.63%	350.68	355.23	1.30%
Kelaniya	196.94	198.53	0.81%	521.89	527.61	1.10%
Moratuwa	143.53	143.95	0.29%	412.30	419.25	1.68%
Galle	174.89	176.18	0.74%	487.67	497.95	2.11%
Kalutara	209.92	212.92	1.43%	673.25	696.96	3.52%
Negombo	123.85	124.17	0.26%	397.09	400.44	0.85%
Nugegoda	119.94	123.15	2.67%	493.60	501.78	1.66%
<b>TOTAL</b>	<b>1,083.35</b>	<b>1,093.89</b>	<b>0.97%</b>	<b>3,336.48</b>	<b>3,399.22</b>	<b>1.88%</b>

## SUBSTATION NO. BY BRANCH

Branch	2015			2016		
	Distribution S/S 11kV	Distribution S/S 11kV	% Change	Bulk S/S 11kV	Bulk S/S 11kV	% Change
Kotte	278	285	2.52%	211	213	0.95%
Kelaniya	355	358	0.85%	375	402	7.20%
Moratuwa	402	404	0.50%	282	294	4.26%
Galle	317	314	-0.95%	107	114	6.54%
Kalutara	352	356	1.14%	138	144	4.35%
Negombo	281	284	1.07%	202	214	5.94%
Nugegoda	365	373	2.19%	217	233	7.37%
<b>TOTAL</b>	<b>2,350</b>	<b>2,374</b>	<b>1.02%</b>	<b>1,532</b>	<b>1,614</b>	<b>5.35%</b>

## SYSTEM RELIABILITY INDICES BY BRANCH

Branch	SAIDI		SAIFI		CAIDI	
	2015	2016	2015	2016	2015	2016
Kotte	28.56	134.94	54	115	0.53	1.17
Kelaniya	67.18	131.63	80	130	0.84	1.01
Moratuwa	39.48	77.17	119	146	0.33	0.53
Galle	62.71	81.92	122	111	0.51	0.74
Kalutara	53.41	99.89	83	128	0.64	0.78
Negombo	67.83	92.12	105	125	0.65	0.74
Nugegoda	35.18	59.67	85	109	0.41	0.55
<b>LECO</b>	<b>50.54</b>	<b>97.23</b>	<b>93</b>	<b>125</b>	<b>0.54</b>	<b>0.78</b>

SAIDI - System Average Interruption Duration Index (Hours per Connected Customer)

SAIFI - System Average Interruption Frequency Index (Interruptions per Connected Customer)

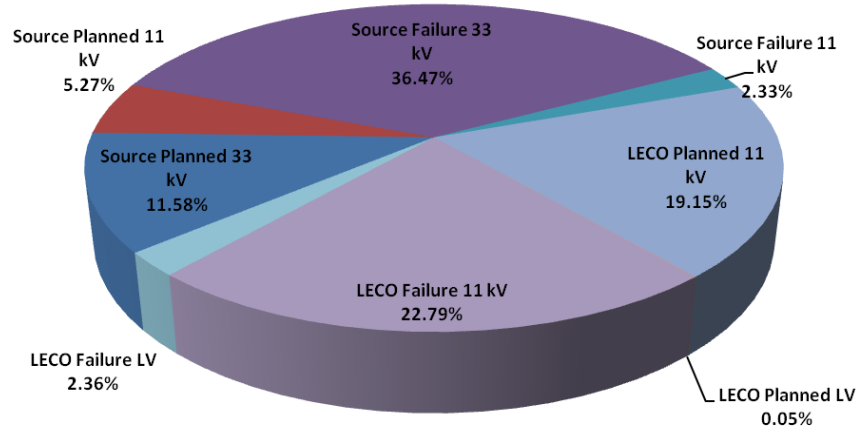
CAIDI - Customer Average Interruption Duration Index (Hours per Customer Interruptions)

## SYSTEM RELIABILITY ANALYSIS - SAIDI

SOURCE			2015		2016		% Change 2015/16
				% of 2015 Total		% of 2016 Total	
CEB	Planned	33 kV	8.59	17.0%	11.20	11.5%	30.4%
		11 kV	6.83	13.5%	5.12	5.3%	-25.0%
	Failure	33 kV	12.74	25.2%	35.55	36.6%	179.0%
		11 kV	1.66	3.3%	2.26	2.3%	36.1%
LECO	Planned	11 kV	13.34	26.4%	18.56	19.1%	39.1%
		LV	0.08	0.2%	0.04	0.0%	-50.0%
	Failure	11 kV	6.99	13.8%	22.12	22.8%	216.5%
		LV	0.32	0.6%	2.32	2.4%	625.0%
<b>TOTAL</b>		<b>50.54</b>		<b>97.23</b>		<b>92.4%</b>	
<b>BLACKOUTS &amp; LOAD SHEDDING</b>					<b>22.41</b>		
<b>FLOODS</b>					<b>6.75</b>		
<b>TOTAL WITHOUT EXTERNAL FACTORS</b>			<b>50.54</b>		<b>68.07</b>		<b>34.7%</b>

SYSTEM RELIABILITY ANALYSIS - SAIFI								
		2015		% of 2015 Total	2016		% of 2016 Total	% Change 2015/16
SOURCE CEB	Planned	33 kV	1	1.1%	0	0.0%	-100%	
		11 kV	5	5.4%	7	5.7%	40%	
	Failure	33 kV	56	60.9%	60	48.8%	7%	
		11 kV	5	5.4%	6	4.9%	20%	
LECO	Planned	11 kV	5	5.4%	9	7.3%	80%	
		LV	0	0.0%	0	0.0%	-	
	Failure	11 kV	20	21.7%	41	33.3%	105%	
		LV	0	0.0%	0	0.0%	-	
<b>TOTAL</b>			<b>93</b>		<b>125</b>		<b>34.4%</b>	
<b>BLACKOUTS &amp; LOAD SHEDDING</b>					<b>9</b>			
<b>FLOODS</b>					<b>-</b>			
<b>TOTAL WITHOUT EXTERNAL FACTORS</b>			<b>93</b>		<b>116</b>		<b>24.7%</b>	

### SAIDI ANALYSIS 2016



UNIFORM NATIONAL TARIFF - Published by PUCSL					
(for each 30 day billing cycle)					
Unit Charge				Fixed Charge	
<b>DOMESTIC - BLOCK TARIFF</b>					
<b>Consumption 0 - 60 kWh per month</b>					
Block 1 - 0 - 30	units	@	LKR 2.50	per unit +	LKR 30.00
Block 2 - 31 - 60	units	@	LKR 4.85	per unit +	LKR 60.00
<b>Consumption above 60 kWh per month</b>					
Block 1 - 0 - 60	units	@	LKR 7.85	per unit +	-
Block 2 - 61 - 90	units	@	LKR 10.00	per unit +	LKR 90.00
Block 3 - 91 - 120	units	@	LKR 27.75	per unit +	LKR 480.00
Block 4 - 121 - 180	units	@	LKR 32.00	per unit +	LKR 480.00
Block 5 - Above 180	units	@	LKR 45.00	per unit +	LKR 540.00
<b>DOMESTIC - TIME OF USE TARIFF</b>					
Off Peak (10.30 pm - 5.30 am)	units	@	LKR 13.00	per unit +	
Day (5.30 am - 6.30 pm)	units	@	LKR 25.00	per unit +	LKR 540.00
Peak (6.30 pm - 10.30 pm)	units	@	LKR 54.00	per unit +	
<b>RELIGIOUS &amp; CHARITABLE INSTITUTIONS -</b>					
Block 1 - 0 - 30	units	@	LKR 1.90	per unit +	LKR 30.00
Block 2 - 31 - 90	units	@	LKR 2.80	per unit +	LKR 60.00
Block 3 - 91 - 120	units	@	LKR 6.75	per unit +	LKR 180.00
Block 4 - 121 - 180	units	@	LKR 7.50	per unit +	LKR 180.00
Block 5 - Above 180	units	@	LKR 9.40	per unit +	LKR 240.00
<b>STREET LIGHTING -</b>		<b>LKR 17.00 per Unit</b>			

<b>OTHER CUSTOMER CATEGORIES</b>	<b>General Purpose (GP)</b>	<b>Government (GV)</b>	<b>Industrial (I)</b>	<b>Hotel (H)</b>
<b>Rate - 1</b> <b>Supply at 400/230V</b> <b>Contract demand ≤ 42 kVA</b> Unit Charge (LKR/Unit) + Fixed Charge (LKR/Month)	GP1-1 for ≤ 301 kWh/month 18.30 + 240.00	14.65  +	I1-1 for ≤ 301 kWh/month 10.80 + 600.00	21.50  +
	GP1-1 for > 300 kWh/month 22.85 + 240.00	600.00	I1-1 for > 300 kWh/month 12.20 + 600.00	600.00
<b>Rate - 2</b> <b>Supply at 400/230V</b> <b>Contract demand above 42 kVA</b> Unit Charge (LKR/Unit) + Demand Charge (LKR/kVA) + Fixed Charge (LKR/Month)	Day - 21.80 (5.30 am to 6.30 pm) + Peak - 26.60 (6.30 pm to 10.30 pm) + Off-Peak - 15.40 (10.30 pm to 5.30 am) + 1,100.00 + 3,000.00	14.55  +  1,100.00  +  3,000.00	Day - 11.00 (5.30 am to 6.30 pm) + Peak - 20.50 (6.30 pm to 10.30 pm) + Off-Peak - 6.85 (10.30 pm to 5.30 am) + 1,100.00 + 3,000.00	Day - 14.65 (5.30 am to 6.30 pm) + Peak - 23.50 (6.30 pm to 10.30 pm) + Off-Peak - 9.80 (10.30 pm to 5.30 am) + 1,100.00 + 3,000.00
<b>Rate - 3</b> <b>Supply at 11kV &amp; above</b> Unit Charge (LKR/Unit) + Demand Charge (LKR/kVA) + Fixed Charge (LKR/Month)	Day - 20.70 (5.30 am to 6.30 pm) + Peak - 25.50 (6.30 pm to 10.30 pm) + Off-Peak - 14.35 (10.30 pm to 5.30 am) + 1,000.00 + 3,000.00	14.35  +  1,000.00  +  3,000.00	Day - 10.25 (5.30 am to 6.30 pm) + Peak - 23.50 (6.30 pm to 10.30 pm) + Off-Peak - 5.90 (10.30 pm to 5.30 am) + 1,000.00 + 3,000.00	Day - 13.70 (5.30 am to 6.30 pm) + Peak - 22.50 (6.30 pm to 10.30 pm) + Off-Peak - 8.80 (10.30 pm to 5.30 am) + 1,000.00 + 3,000.00