

## NETWORK PERFORMANCE INDICES (SAIDI, SAIFI) – 2017 (Kigali City)

Nw Performance Indices		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	
KIGALI (>5min)	2016	SAIDI-16	3.513	0.880	4.246	1.940	1.180	2.146	0.794	1.008	2.126	1.389	2.518	1.949	23.69
		SAIFI-16	12.213	5.123	16.186	7.030	5.604	7.702	4.866	6.264	14.476	13.390	11.962	10.809	115.63
	2017	SAIDI-17	2.702	1.216	1.474	1.079	0.493	0.531	0.684	0.695	1.198	3.130	0.683	0.419	14.30
		SAIFI-17	2.212	2.378	2.461	2.262	1.247	1.930	0.991	1.051	2.025	2.927	1.315	0.842	21.64
KIGALI (>5min No Major Events)	2016	SAIDI-16	2.971	0.850	3.414	1.394	1.180	1.964	0.794	1.008	1.954	1.317	2.354	1.647	20.85
		SAIFI-16	11.605	5.004	14.086	6.758	5.604	7.335	4.866	6.264	13.989	13.170	11.282	10.206	110.17
	2017	SAIDI-17	1.724	1.021	1.306	0.909	0.502	0.529	0.384	0.495	0.977	2.274	0.620	0.620	11.36
		SAIFI-17	1.234	2.308	2.451	1.911	1.247	1.930	0.812	0.747	1.379	1.914	1.245	0.842	18.02

Table – 1: SAIDI-SAIFI (2016-2017) Data

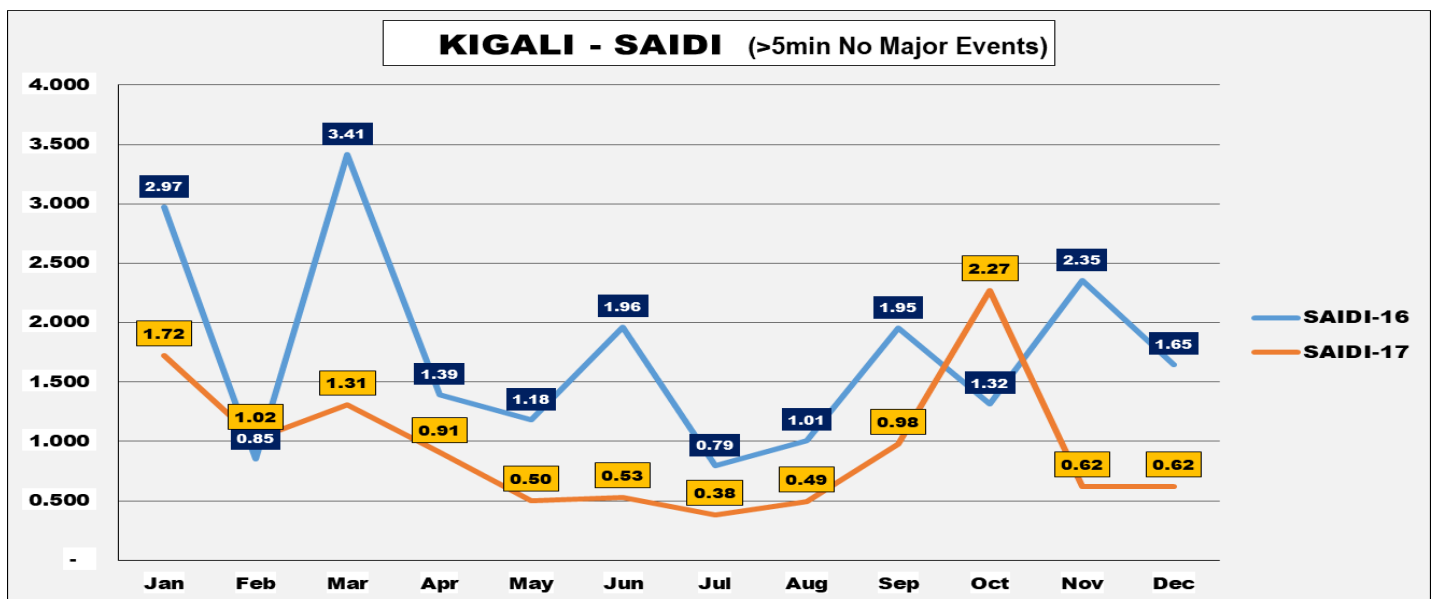


Fig – 1: Comparison of SAIDI (2016-2017) (No Major Events)

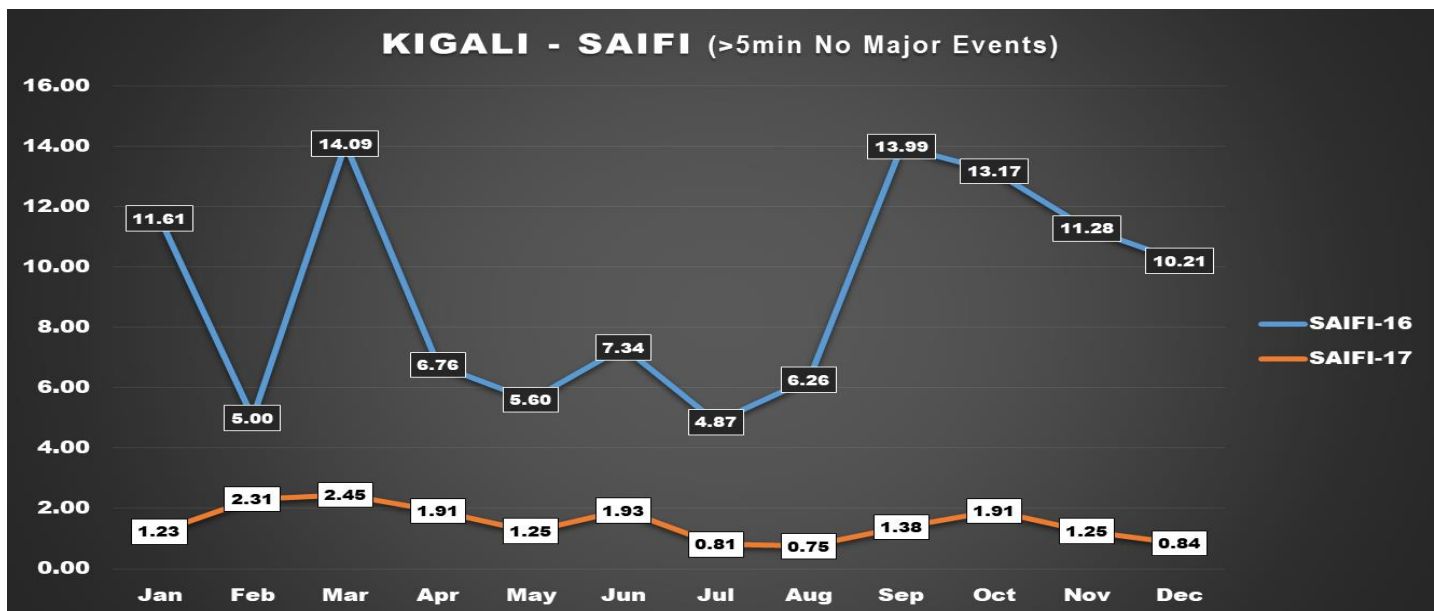


Fig – 2: Comparison of SAIFI (2016-2017) (No Major Events)

NO	FEEDER	Kigali (> 5min)			
		OUTAGE		Nw Performance	
		Dur (hrs)	Freq	SAIDI	SAIFI
1	D-Welle	46:35:00	66	0.55	4.64
2	Gasogi	100:49:00	163	2.48	4.17
3	Gikomero	56:07:00	73	1.12	2.61
4	Gikondo HAUT	30:52:00	53	0.24	1.37
5	Inyange	13:15:00	23	0.00	1.52
6	Kanazi	61:38:00	80	1.93	0.70
7	Kanombe	4:04:00	4	0.15	1.57
8	Kibagabaga / Nyarutarama	47:16:00	75	0.25	0.82
9	Kibagabaga / Remera	29:07:00	53	0.17	0.77
10	Kigali	102:21:00	152	2.98	0.42
11	Kigali NORTH	30:38:00	44	0.23	0.43
12	Kigali SOUTH	22:44:00	38	0.23	0.35
13	Kimihurura	18:15:00	38	0.04	0.41
14	Kimironko	28:23:00	29	0.04	0.33
15	Kinyinya	39:20:00	63	0.19	0.32
16	Kiyumba	47:55:00	42	0.75	0.15
17	Nyamirambo	46:18:00	45	1.35	0.21
18	Nyarurama	21:21:00	55	0.05	0.14
19	Parc Industriel	40:49:00	83	0.37	0.08
20	Rutongo	43:26:00	60	0.14	0.04
21	Sucrerie	39:19:00	67	0.00	0.00
22	Utexirwa	45:34:00	99	0.69	0.00
<b>TOTALS</b>		<b>916:06:00</b>	<b>1,405</b>	<b>13.95</b>	<b>21.06</b>

Kigali (> 5min)(NO Major Events)			
OUTAGE		Nw Performance	
Dur (hrs)	Freq	SAIDI	SAIFI
40:13:00	57	0.50	3.47
84:43:00	139	2.47	4.40
50:01:00	59	1.04	2.16
12:29:00	31	0.10	1.23
10:28:00	18	0.00	1.45
52:53:00	66	1.73	0.53
2:03:00	3	0.08	0.71
43:27:00	69	0.24	0.94
25:05:00	45	0.15	0.38
94:56:00	144	2.35	0.56
15:22:00	23	0.12	0.30
8:51:00	15	0.09	0.27
3:56:00	16	0.01	0.18
22:43:00	21	0.03	0.18
36:07:00	57	0.19	0.25
40:45:00	32	0.66	0.16
37:33:00	31	0.38	0.03
6:52:00	34	0.02	0.09
26:11:00	60	0.24	0.03
36:21:00	52	0.13	0.00
31:58:00	60	0.00	0.00
39:06:00	91	0.62	0.11
<b>722:03:00</b>	<b>1,123</b>	<b>11.16</b>	<b>17.44</b>

Table – 2: SAIDI, SAIFI Details (2017)

NO	FEEDER	Kigali (> 5min)			
		OUTAGE DETAILS		Nw Performance	
		Dur (hrs)	Freq	SAIDI	SAIFI
1	D-Welle	59:12:00	155	0.72	1.89
2	Gasogi	122:32:00	1,295	3.49	36.84
3	Gikomero	45:25:00	218	0.92	4.44
4	Gikondo HAUT	37:58:00	89	0.35	0.82
5	Inyange	40:10:00	145	0.00	0.00
6	Kanazi	136:12:00	446	4.35	14.24
7	Kanombe	96:05:00	380	3.52	13.92
8	Kibagabaga / Nyarutarama	0:00:00	211	0.44	1.17
9	Kibagabaga / Remera	0:00:00	64	0.17	0.39
10	Kigali	106:12:00	509	3.17	15.19
11	Kigali NORTH	32:25:00	172	0.25	1.33
12	Kigali SOUTH	28:43:00	103	0.30	1.07
13	Kimihurura	21:54:00	83	0.05	0.17
14	Kimironko	15:16:00	43	0.02	0.06
15	Kinyinya	48:26:00	127	0.25	0.65
16	Kiyumba	76:39:00	311	1.46	5.82
17	Nyamirambo	68:43:00	308	2.09	9.36
18	Nyarurama	28:37:00	97	0.07	0.24
19	Parc Industriel	51:12:00	173	0.47	1.58
20	Rutongo	144:38:00	240	0.49	0.82
21	Sucrerie	47:58:00	95	0.00	0.00
22	Utexirwa	70:21:00	355	1.12	5.64
<b>TOTALS</b>		<b>1278:38:00</b>	<b>5,619</b>	<b>23.69</b>	<b>115.63</b>

Kigali (> 5min)(NO Major Events)			
OUTAGE DETAILS		Nw Performance	
Dur (hrs)	Freq	SAIDI	SAIFI
58:09:00	153	0.71	1.87
105:18:00	1,251	3.00	35.59
32:44:00	187	0.67	3.81
20:38:00	57	0.19	0.52
35:59:00	137	0.00	0.00
116:52:00	423	3.73	13.50
96:05:00	380	3.52	13.92
0:00:00	203	0.43	1.13
0:00:00	34	0.06	0.21
105:13:00	507	3.14	15.13
21:47:00	135	0.17	1.04
18:49:00	67	0.20	0.70
10:48:00	48	0.02	0.10
9:43:00	36	0.01	0.05
45:17:00	119	0.23	0.61
68:35:00	296	1.31	5.53
49:31:00	284	1.50	8.63
14:26:00	63	0.04	0.16
37:25:00	139	0.34	1.27
143:35:00	238	0.49	0.81
46:55:00	93	0.00	0.00
69:19:00	353	1.10	5.61
<b>1107:08:00</b>	<b>5,203</b>	<b>20.85</b>	<b>110.17</b>

Table – 3: SAIDI, SAIFI Details (2016)