

EV Charging Program - 2017

Project Update


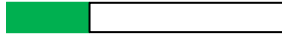
Case Number: 2015-00355



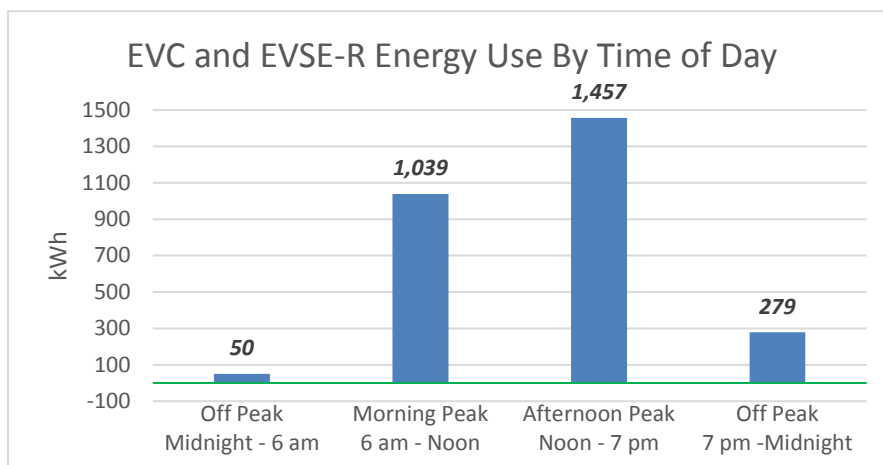
Program Metric Snapshot

Louisville Gas and Electric Company (“LG&E”) and Kentucky Utilities Company (“KU”) continued installation of electric vehicle (“EV”) chargers under its EV charging program in 2017. By the end of 2017, ten charging stations were installed - five public Electric Vehicle Charging (“EVC”) stations in LG&E territory, three public Electric Vehicle Charging (“EVC”) stations in KU territory, and two hosted Electric Vehicle Supply Equipment Rider (“EVSE-R”) stations in LG&E territory. The Companies continue to work with local governments and parking authorities to allow LG&E and KU to install stations in public parking lots and on public streets. Overall utilization was low throughout the year, but improved over 2016 data. Usage is expected to continue trending upward as customer awareness increases, and more electric vehicles hit the road.

Below are 2017 EV charging program metrics.

LG&E EVC Stations Deployed  5 of 10	Total # of EVC Charging Sessions 304	Average EVC Charging Session Length 1 hr 46 min
KU EVC Stations Deployed  3 of 10	Unique EVC Drivers 74	EVC Utilization* 6.3%
Total # of EVSE-R Charging Sessions 81	Unique EVSE-R Drivers 1	Average EVSE-R Charging Session Length 4 hr 36 min

*Utilization is calculated as a percentage of filed target usage of 4 hrs per day, 7 days per week.



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2017 EVC Station Locations

KU Stations

1. 1 Quality St, Lexington, KY 40507 (KU General Office Customer Parking Lot)
2. 159 E High St, Lexington, KY 40507 (Downtown Lexington)
3. 101 E Main St, Midway, KY 40347 (Midway City Hall)

LG&E Stations

1. 1100 Block E Washington St, Louisville, KY 40206 (Butchertown Neighborhood)
2. 1523 Hepburn Ave, Louisville, KY 40204 (Highlands Neighborhood)
3. 315 E Main St, Louisville, KY 40202 (Downtown Louisville)
4. 921 W Main St, Louisville, KY 40202 (Downtown Louisville)
5. 2762 Frankfort Ave, Louisville, KY 40206 (Crescent Hill Library)

LG&E and KU Combined EVC Data Summary

EVC Utilization

<i>Station</i>	<i>Days in Service</i>	<i>Total Hours of Usage</i>	<i>100% Utilization Hours*</i>	<i>Actual Utilization</i>
KU - KUGO	365	106	1460	7.3%
KU - High St	353	163	1412	11.5%
KU - Midway	32	0.4	128	0.3%
LG&E - Butchertown	365	94	1460	6.4%
LG&E - Highlands	362	90	1448	6.2%
LG&E - 315 E Main St	340	44	1360	3.2%
LG&E - 921 W Main St	205	21	820	2.6%
LG&E - Crescent Hill	100	20	400	5.0%
Total	2122	537	8488	6.3%

Total Sessions

<i>Station</i>	<i>Sessions</i>
KU - KUGO	42
KU - High St	95
KU - Midway	2
LG&E - Butchertown	60
LG&E - Highlands	59
LG&E - 315 E Main St	25
LG&E - 921 W Main St	11
LG&E - Crescent Hill	10
Total	304

Unique Drivers

<i>Station</i>	<i>Unique Drivers</i>
KU - KUGO	14
KU - High St	10
KU - Midway	1
LG&E - Butchertown	25
LG&E - Highlands	23
LG&E - 315 E Main St	10
LG&E - 921 W Main St	8
LG&E - Crescent Hill	3
Total	74**

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Average Session Length (h:mm)

<i>Station</i>	<i>Avg. Session Length</i>
KU - KUGO	2:31
KU - High St	1:42
KU - Midway	0:11
LG&E - Butchertown	1:33
LG&E - Highlands	1:31
LG&E - 315 E Main St	1:44
LG&E - 921 W Main St	1:54
LG&E - Crescent Hill	1:58
Average	1:46

Energy Use By Time of Day (kWh)

<i>Station</i>	<i>Energy (12a-6a)</i>	<i>Energy (6a-12p)</i>	<i>Energy (12p-7p)</i>	<i>Energy (7p-12a)</i>
KU - KUGO	15	154	224	36
KU - High St	15	166	368	86
KU - Midway	0	1	0	0
LG&E - Butchertown	5	72	198	53
LG&E - Highlands	12	83	183	62
LG&E - 315 E Main St	0	48	77	5
LG&E - 921 W Main St	3	19	78	3
LG&E - Crescent Hill	0	12	82	36
Total	50	556	1210	279

*Utilization is calculated as a percentage of filed target usage of 4 hrs per day, 7 days per week.

**A number of drivers are counted as unique users of multiple stations, but only counted once for the total program.

LG&E EVSE-R Data Summary

EVSE-R Utilization

<i>Station</i>	<i>Days in Service</i>	<i>Total Hours of Usage</i>	<i>100% Utilization Hours</i>	<i>Actual Utilization</i>
Station 1	365	374	1460	26%
Station 2	135	0	540	0%
Total	500	374	2000	19%

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Total Sessions

<i>Station</i>	<i>Sessions</i>
Station 1	81
Station 2	0
Total	81

Unique Drivers

<i>Station</i>	<i>Unique Drivers</i>
Station 1	1
Station 2	0
Total	1

Average Session Length (h:mm)

<i>Station</i>	<i>Avg. Session Length</i>
Station 1	4:36
Station 2	0:00
Total	4:36

Energy Use By Time of Day (kWh)

<i>Station</i>	<i>Energy (12a-6a)</i>	<i>Energy (6a-12p)</i>	<i>Energy (12p-7p)</i>	<i>Energy (7p-12a)</i>
Station 1	0	483	247	0
Station 2	0	0	0	0
Total	0	483	247	0