

EV Charging Program - 2019

Project Update



Case Number: 2015-00355



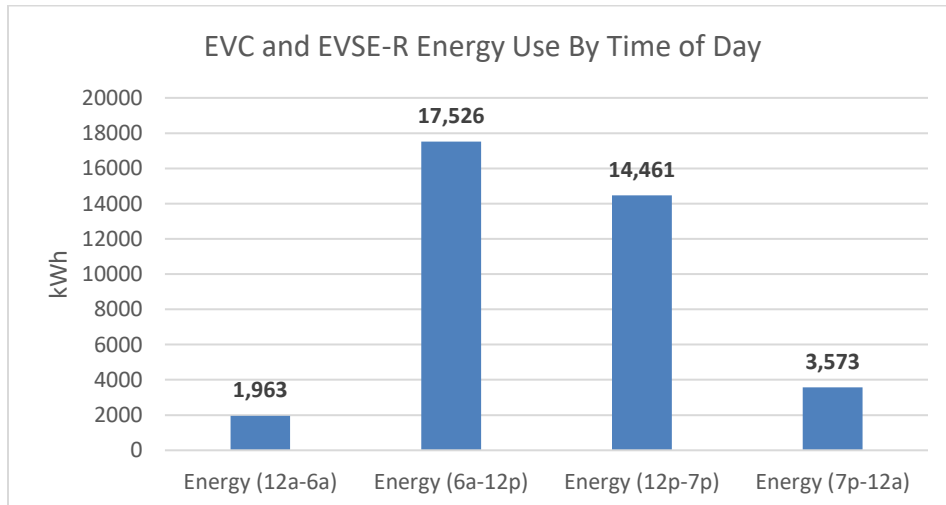
Program Metric Snapshot

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 2019. By the end of 2019, 24 charging stations were installed - ten public Electric Vehicle Charging (“EVC”) stations in LG&E territory, ten public Electric Vehicle Charging (“EVC”) stations in KU territory, 3 hosted Electric Vehicle Supply Equipment Rider (“EVSE-R”) stations in LG&E territory, and 1 hosted Electric Vehicle Supply Equipment Rider (“EVSE-R”) stations in KU territory. Station utilization improved year-over-year from 2018. Usage is expected to continue trending upward as electric vehicle adoption and customer awareness increase.

Below are 2019 EV charging program metrics.

LG&E EVC Stations Deployed  10 of 10	Total # of EVC Charging Sessions 2355	Average EVC Charging Session Length 2 hr 21 min
KU EVC Stations Deployed  10 of 10	Unique EVC Drivers 448	EVC Utilization* 20.6%
Total # of EVSE-R Charging Sessions 747	Unique EVSE-R Drivers 10	Average EVSE-R Charging Session Length 6 hr 29 min

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



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2019 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)
4. 201 S Main St, Elizabethtown, KY 42701 (E-Town Municipal Lot)
5. 200 County Park Dr, Greenville, KY 42345 (Muhlenberg County Sports Park)
6. 416 Rebmann Ln, Lexington, Kentucky, (McConnell Springs Nature Center)
7. 116 N 5th St, Danville, Kentucky, (Danville)
8. 721 Press Ave, Lexington, Kentucky, (Press Avenue)
9. 121 E 2nd St, Morehead, Kentucky, (Morehead State University)
10. 100 N 3rd St, Richmond, Kentucky, (Richmond Downtown)

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)
6. 3101 Rock Creek Dr, Louisville, KY 40207 (Seneca Park)
7. 9300 Whipps Mill Rd, Louisville, KY 40242 (A.B. Sawyer Park)
8. Chenoweth Park Rd, Louisville, KY 40299 (Charlie Vettiner Park)
9. 220 W Main St, Louisville, Kentucky, (Downtown Louisville)
10. Knoll Gate Rd, Louisville, Kentucky, (Iroquois Park)

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>Utilization*</i>
KU - KU Office	365	427	29.2%
KU - High St & LK	365	379	25.9%
KU - Midway City Hall	365	79	5.4%
KU - Elizabethtown Muni Lot	365	243	16.7%
KU - Muhlenberg Park	365	11	0.8%
KU - McConnell Springs	307	79	6.5%
KU - Danville	285	59	5.1%
KU - Press Avenue	285	247	21.7%
KU - Morehead State	274	70	6.4%
KU - Richmond Downtown	269	54	5.0%
LG&E - Butchertown	365	1025	70.2%
LG&E - Hepburn Ave	365	431	29.5%
LG&E - 315 E Main St	365	506	34.7%
LG&E - 921 W Main St	365	721	49.4%

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LG&E - Crescent Hill	365	125	8.6%
LG&E - Seneca Park	365	196	13.5%
LG&E - AB Sawyer Park	365	270	18.5%
LG&E - Charlie Vettiner	365	12	0.8%
LG&E - Iroquois Park	295	73	6.2%
LG&E - LG&E Center	267	527	49.4%
Total	6727	5535	20.6%

Total Sessions

<i>Station</i>	<i>Sessions</i>	<i>Unique Drivers</i>
KU - KU Office	201	40
KU - High St & LK	161	44
KU - Midway City Hall	41	24
KU - Elizabethtown Muni Lot	151	58
KU - Muhlenberg Park	9	6
KU - McConnell Springs	29	10
KU - Danville	29	18
KU - Press Avenue	88	26
KU - Morehead State	58	12
KU - Richmond Downtown	34	11
LG&E - Butchertown	317	57
LG&E - Hepburn Ave	248	81
LG&E - 315 E Main St	185	50
LG&E - 921 W Main St	233	34
LG&E - Crescent Hill	65	27
LG&E - Seneca Park	145	40
LG&E - AB Sawyer Park	142	26
LG&E - Charlie Vettiner	12	9
LG&E - Iroquois Park	53	30
LG&E - LG&E Center	154	60
Total	2355	448**

Average Session Length (h:mm)

<i>Station</i>	<i>Avg. Session Length</i>
KU - KU OFFICE	2:07
KU - HIGH ST & MLK	2:20
KU - MIDWAY CITYHALL	1:55

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KU - ETOWN MUNI LOT	1:37
KU - MUHLENBERG PARK	1:16
KU - MCCONNELL SPRINGS	2:44
KU - DANVILLE	2:01
KU - PRESS AVENUE	2:48
KU - MOREHEAD STATE	1:13
KU - RICHMOND DWTN	1:36
LG&E - BUTCHERTOWN	3:14
LG&E - HEPBURN AVE	1:44
LG&E - 315 E MAIN ST	2:44
LG&E - 921 W MAIN ST	3:06
LG&E - CRESCENT HILL	1:54
LG&E - SENECA PARK	1:21
LG&E - AB SAWYER PARK	1:54
LG&E - CHARLIE VETTINER	0:59
LG&E - IROQUOIS PARK	1:23
LG&E - LGE CENTER	3:25
Average	2:21

Energy Use By Time of Day (kWh)

Station	Energy	Energy	Energy	Energy
	(12a-6a)	(6a-12p)	(12p-7p)	(7p-12a)
KU - KU Office	198	840	560	172
KU - High St & LK	136	551	649	217
KU - Midway City Hall	29	70	149	64
KU - Elizabethtown Muni Lot	119	442	771	218
KU - Muhlenberg Park	81	0	0	0
KU - McConnell Springs	196	137	57	24
KU - Danville	5	149	169	36
KU - Press Avenue	46	583	469	103
KU - Morehead State	12	159	105	24
KU - Richmond Downtown	1	121	87	43
LG&E - Butchertown	56	1625	1691	300
LG&E - Hepburn Ave	303	598	875	535
LG&E - 315 E Main St	115	271	1192	405
LG&E - 921 W Main St	80	1674	1798	122
LG&E - Crescent Hill	16	205	292	129
LG&E - Seneca Park	7	248	596	61
LG&E - AB Sawyer Park	50	242	713	326
LG&E - Charlie Vettiner	0	20	40	8

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LG&E - Iroquois Park	19	100	198	79
LG&E - LG&E Center	32	774	939	235
Total	1503	8814	11351	3101

*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>Utilization*</i>
Station 1	365	2781	190%**
Station 2	365	540	37%
Station 3	201	1521	189%**
Station 4	64	0	0%
Total	995	4842	122%

Total Sessions

<i>Station</i>	<i>Sessions</i>	<i>Unique Drivers</i>
Station 1	444	8
Station 2	61	3
Station 3	242	8
Station 4	0	0
Total	747	10

Average Session Length (h:mm)

<i>Station</i>	<i>Avg. Session Length</i>
Station 1	6:16
Station 2	8:51
Station 3	6:17
Station 4	0:00
Total	6:29

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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	5012	1651	0
Station 2	455	120	295	471
Station 3	5	3581	1165	0
Station 4	0	0	0	0
Total	460	8713	3111	471

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**Station had more than 4 hours of usage per day