

EV Charging Program - 2020

Project Update



Case Number: 2015-00355



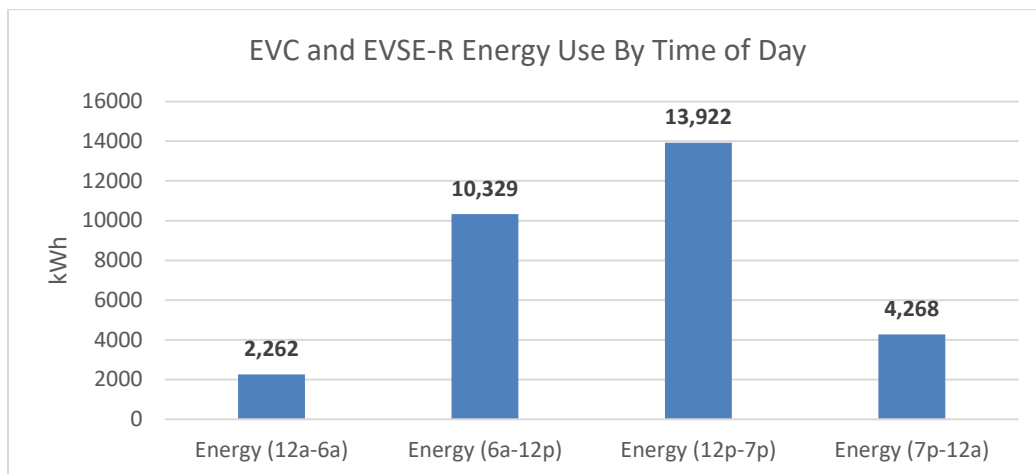
Program Metric Snapshot

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 2020. By the end of 2020, 25 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, four hosted Electric Vehicle Supply Equipment Rider (“EVSE-R”) stations in LG&E territory, and one hosted Electric Vehicle Supply Equipment Rider (“EVSE-R”) stations in KU territory. Station utilization decreased just slightly year-over-year from 2019, with a significant drop off evident in March 2020. Usage is expected to trend upward as electric vehicle adoption and customer awareness increase.

Below are 2020 EV charging program metrics.

LG&E EVC Stations Deployed  10 of 10	Total # of EVC Charging Sessions 2218	Average EVC Charging Session Length 2 hr 19 min
KU EVC Stations Deployed  10 of 10	Unique EVC Drivers 340	EVC Utilization* 17.6%
Total # of EVSE-R Charging Sessions 306	Unique EVSE-R Drivers 19	Average EVSE-R Charging Session Length 5 hr 15 min

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



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2020 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>Actual Utilization</i>
KU - KU OFFICE	365	576	39.4%
KU - HIGH ST & MLK	365	383	26.2%
KU - MIDWAY CITYHALL	365	84	5.8%
KU - ETOWN MUNI LOT	365	274	18.8%
KU - MUHLENBERG PARK	365	9	0.6%
KU - MCONNELL SPRINGS	365	45	3.1%
KU - DANVILLE	365	324	22.2%
KU - PRESS AVENUE	365	386	26.4%
KU - MOREHEAD STATE	365	111	7.6%
KU - RICHMOND DWTN	365	14	0.9%
LG&E - BUTCHERTOWN	365	288	19.7%
LG&E - HEPBURN AVE	365	632	43.3%
LG&E - 315 E MAIN ST	365	386	26.4%
LG&E - 921 W MAIN ST	365	321	22.0%
LG&E - CRESCENT HILL	365	275	18.8%
LG&E - SENECA PARK	365	409	28.0%
LG&E - AB SAWYER PARK	365	94	6.4%
LG&E - CHARLIE VETTINER	365	46	3.2%

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LG&E - IROQUOIS PARK	365	241	16.5%
LG&E - LGE CENTER	365	245	16.8%
Total	7300	5141	17.6%

Total Sessions

<i>Station</i>	<i>Sessions</i>	<i>Unique Drivers</i>
KU - KU OFFICE	240	36
KU - HIGH ST & MLK	163	46
KU - MIDWAY CITYHALL	31	11
KU - ETOWN MUNI LOT	131	47
KU - MUHLENBERG PARK	8	5
KU - MCONNELL SPRINGS	39	16
KU - DANVILLE	60	20
KU - PRESS AVENUE	130	23
KU - MOREHEAD STATE	134	10
KU - RICHMOND DWTN	12	9
LG&E - BUTCHERTOWN	90	25
LG&E - HEPBURN AVE	238	47
LG&E - 315 E MAIN ST	130	27
LG&E - 921 W MAIN ST	138	23
LG&E - CRESCENT HILL	115	25
LG&E - SENECA PARK	285	50
LG&E - AB SAWYER PARK	68	23
LG&E - CHARLIE VETTINER	37	10
LG&E - IROQUOIS PARK	90	18
LG&E - LGE CENTER	79	37
Total	2218	340

Average Session Length (h:mm:ss)

<i>Station</i>	<i>Avg. Session Length</i>
KU - KU OFFICE	2:23:54
KU - HIGH ST & MLK	2:20:48
KU - MIDWAY CITYHALL	2:43:18
KU - ETOWN MUNI LOT	2:05:36
KU - MUHLENBERG PARK	1:10:28
KU - MCONNELL SPRINGS	1:08:50
KU - DANVILLE	5:24:05
KU - PRESS AVENUE	2:57:58
KU - MOREHEAD STATE	0:49:53
KU - RICHMOND DWTN	1:07:46

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LG&E - BUTCHERTOWN	3:12:04
LG&E - HEPBURN AVE	2:39:17
LG&E - 315 E MAIN ST	2:57:56
LG&E - 921 W MAIN ST	2:19:44
LG&E - CRESCENT HILL	2:23:19
LG&E - SENECA PARK	1:26:00
LG&E - AB SAWYER PARK	1:22:36
LG&E - CHARLIE VETTINER	1:14:44
LG&E - IROQUOIS PARK	2:40:28
LG&E - LGE CENTER	3:05:59
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Average	2:19:04

Energy Use By Time of Day (kWh)

<i>Station</i>	<i>Energy (12a-6a)</i>	<i>Energy (6a-12p)</i>	<i>Energy (7p-12a)</i>	<i>Energy (7p-12a)</i>
KU - KU OFFICE	125	1061	866	435
KU - HIGH ST & MLK	432	782	501	274
KU - MIDWAY CITYHALL	25	4	222	274
KU - ETOWN MUNI LOT	79	584	852	179
KU - MUHLENBERG PARK	67	0	0	0
KU - MCONNELL SPRINGS	45	58	94	31
KU - DANVILLE	258	134	706	297
KU - PRESS AVENUE	48	899	620	117
KU - MOREHEAD STATE	1	134	416	185
KU - RICHMOND DWTN	0	36	40	2
LG&E - BUTCHERTOWN	131	364	944	238
LG&E - HEPBURN AVE	279	625	1911	606
LG&E - 315 E MAIN ST	120	351	1097	412
LG&E - 921 W MAIN ST	11	718	828	24
LG&E - CRESCENT HILL	136	217	677	380
LG&E - SENECA PARK	31	575	997	180
LG&E - AB SAWYER PARK	10	209	310	13
LG&E - CHARLIE VETTINER	3	56	115	17
LG&E - IROQUOIS PARK	113	280	673	201
LG&E - LGE CENTER	2	276	645	149
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Total	1917	7362	12513	4014

*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.

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LG&E EVSE-R Data Summary

EVSE-R Utilization

<i>Station</i>	<i>Days in Service</i>	<i>Total Hours of Usage</i>	<i>Actual Utilization</i>
Station 1	365	727	50%
Station 2	365	103	7%
Station 3	365	733	50%
Station 4	365	0	0%
Station 5	101	44	11%
Total	1,561	1,608	26%

Total Sessions

<i>Station</i>	<i>Sessions</i>	<i>Unique Drivers</i>
Station 1	140	12
Station 2	17	2
Station 3	135	12
Station 4	3	2
Station 5	11	3
Total	306	19

Average Session Length (h:mm:ss)

<i>Station</i>	<i>Avg. Session Length</i>
Station 1	5:11:37
Station 2	6:02:50
Station 3	5:25:58
Station 4	0:09:33
Station 5	4:00:48
Total	5:15:17

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	1272	489	5
Station 2	262	16	10	179
Station 3	0	1662	901	9
Station 4	0	0	2	0
Station 5	84	18	6	61
Total	345	2967	1408	254

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

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