

# Kentucky Public Service Commission Presentation

March 22, 2024



# Overview - Charter Pole Permits

*RDOF, Better Internet Program (BIP) Grants, County Contracts*

# Key Assumptions- Broadband Deployment

- Effective deployment involves shared engagement-- pole owners & pole attachers
- KY PSC regulations require pole owners to complete application reviews, surveys and make-ready in prescribed timeframes based upon the size of the order. Under these rules, the total time to complete this work is as follows:
  - **Small Orders**: approximately 5.5 months.
  - **Large Orders**: approximately 7.5 months.
- In submitting its broadband applications, Charter initially assumed it would be able to activate broadband within 24-months--- inclusive of project planning (walk-out/design), pole permitting and make-ready, construction of plant, and service activation.
- To date, pole permitting and make-ready have taken more time than originally anticipated, thereby delaying the deployment of broadband, and putting Charter at risk of missing its grant deadlines.

# Pending Pole Permits – RDOF, BIP Round 1 & Local Contracts

OWNER	STATUS	2022	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL
Blue Grass Energy	Submitted	4,333	61	35	8	104	6	106	535	199	841	221	519	66	1,107	1,166	9,307
Blue Grass Energy	Received	(1,447)	(79)	(48)	(18)	(39)	(2)	(54)	(1,245)	(761)	(22)	(18)	(528)	(128)	(192)	(459)	(5,040)
		<b>2,886</b>	<b>(18)</b>	<b>(13)</b>	<b>(10)</b>	<b>65</b>	<b>4</b>	<b>52</b>	<b>(710)</b>	<b>(562)</b>	<b>819</b>	<b>203</b>	<b>(9)</b>	<b>(62)</b>	<b>915</b>	<b>707</b>	<b>4,267</b>
Clark Energy	Submitted	37	6	24	396	16	15	14	21	534	891	578	270	30	190	95	3,117
Clark Energy	Received	(65)	(2)	(2)	(20)	(23)	(8)	(13)	0	0	(8)	(17)	(12)	(17)	0	(1)	(188)
		<b>(28)</b>	<b>4</b>	<b>22</b>	<b>376</b>	<b>(7)</b>	<b>7</b>	<b>1</b>	<b>21</b>	<b>534</b>	<b>883</b>	<b>561</b>	<b>258</b>	<b>13</b>	<b>190</b>	<b>94</b>	<b>2,929</b>
Fleming Mason Energy	Submitted	3,941	763	736	147	1,176	901	1,026	485	331	6	5	42	7	78	166	9,810
Fleming Mason Energy	Received	(584)	(5)	(11)	(12)	(125)	(52)	(179)	(213)	(6)	(169)	(255)	(33)	(109)	(269)	(553)	(2,575)
		<b>3,357</b>	<b>758</b>	<b>725</b>	<b>135</b>	<b>1,051</b>	<b>849</b>	<b>847</b>	<b>272</b>	<b>325</b>	<b>(163)</b>	<b>(250)</b>	<b>9</b>	<b>(102)</b>	<b>(191)</b>	<b>(387)</b>	<b>7,235</b>
Inter County Energy	Submitted	4,164	271	501	29	467	6	304	13	591	11	902	103	152	91	224	7,829
Inter County Energy	Received	(1,086)	(207)	(5)	(62)	(564)	(374)	(103)	(163)	0	(68)	(30)	(361)	(203)	(237)	(176)	(3,639)
		<b>3,078</b>	<b>64</b>	<b>496</b>	<b>(33)</b>	<b>(97)</b>	<b>(368)</b>	<b>201</b>	<b>(150)</b>	<b>591</b>	<b>(57)</b>	<b>872</b>	<b>(258)</b>	<b>(51)</b>	<b>(146)</b>	<b>48</b>	<b>4,190</b>
Kentucky Utility	Submitted	13,700	1,783	158	837	1,368	1,059	1,079	1,337	1,208	1,379	888	559	132	1,716	692	27,895
Kentucky Utility	Received	(2,650)	(380)	(69)	(401)	(1,605)	(414)	(545)	(194)	(835)	(568)	(724)	(269)	(166)	(98)	(165)	(9,083)
		<b>11,050</b>	<b>1,403</b>	<b>89</b>	<b>436</b>	<b>(237)</b>	<b>645</b>	<b>534</b>	<b>1,143</b>	<b>373</b>	<b>811</b>	<b>164</b>	<b>290</b>	<b>(34)</b>	<b>1,618</b>	<b>527</b>	<b>18,812</b>
Louisville Gas & Electric	Submitted	419	29	18	29	38	295	0	24	10	0	236	1,037	953	42	417	3,547
Louisville Gas & Electric	Received	(287)	0	(138)	(41)	(186)	0	(37)	(11)	(6)	(9)	(7)	0	(8)	(25)	(235)	(990)
		<b>132</b>	<b>29</b>	<b>(120)</b>	<b>(12)</b>	<b>(148)</b>	<b>295</b>	<b>(37)</b>	<b>13</b>	<b>4</b>	<b>(9)</b>	<b>229</b>	<b>1,037</b>	<b>945</b>	<b>17</b>	<b>182</b>	<b>2,557</b>
Owen Electric	Submitted	3,357	80		7					113	16	2	648	208	30	30	4,491
Owen Electric	Received	(240)	(7)	(52)	(399)	(343)	(35)	(268)	(488)	(249)	(100)	(89)	(58)	(14)	(43)	(218)	(2,603)
		<b>3,117</b>	<b>73</b>	<b>(52)</b>	<b>(392)</b>	<b>(343)</b>	<b>(35)</b>	<b>(268)</b>	<b>(488)</b>	<b>(136)</b>	<b>(84)</b>	<b>(87)</b>	<b>590</b>	<b>194</b>	<b>(13)</b>	<b>(188)</b>	<b>1,888</b>
Salt River Electric	Submitted	3,135	189	713	44	51	218	22	7	35	37	261	385	286	490	259	6,132
Salt River Electric	Received	(1,578)	(223)	(39)	(45)	(158)	(19)	(113)	(6)	(12)	(93)	(34)	(274)	(567)	(23)	(173)	(3,357)
		<b>1,557</b>	<b>(34)</b>	<b>674</b>	<b>(1)</b>	<b>(107)</b>	<b>199</b>	<b>(91)</b>	<b>1</b>	<b>23</b>	<b>(56)</b>	<b>227</b>	<b>111</b>	<b>(281)</b>	<b>467</b>	<b>86</b>	<b>2,775</b>
Shelby Energy Cooperative	Submitted	2,584	389	128	17	187	502	5	297	569	2	79	378	92	604	243	6,076
Shelby Energy Cooperative	Received	(2,243)	(20)	(124)	(66)	(290)	(19)	(507)	0	(173)	(2)	0	(5)	(7)	(137)	(143)	(3,736)
		<b>341</b>	<b>369</b>	<b>4</b>	<b>(49)</b>	<b>(103)</b>	<b>483</b>	<b>(502)</b>	<b>297</b>	<b>396</b>	<b>0</b>	<b>79</b>	<b>373</b>	<b>85</b>	<b>467</b>	<b>100</b>	<b>2,340</b>

Submitted Total	Submitted	37,192	3,686	3,016	1,601	3,499	3,034	2,618	2,870	3,717	3,240	3,207	4,163	1,958	4,642	3,600	82,043
Received Total	Received	(10,671)	(984)	(552)	(1,088)	(3,407)	(936)	(2,622)	(2,392)	(2,247)	(1,065)	(1,201)	(1,757)	(1,284)	(1,174)	(2,215)	(33,595)
<b>NET Pending</b>		<b>26,521</b>	<b>2,702</b>	<b>2,464</b>	<b>513</b>	<b>92</b>	<b>2,098</b>	<b>(4)</b>	<b>478</b>	<b>1,470</b>	<b>2,175</b>	<b>2,006</b>	<b>2,406</b>	<b>674</b>	<b>3,468</b>	<b>1,385</b>	<b>48,448</b>
<b>Cumulative Total</b>			<b>29,223</b>	<b>31,687</b>	<b>32,200</b>	<b>32,292</b>	<b>34,390</b>	<b>34,386</b>	<b>34,864</b>	<b>36,334</b>	<b>38,509</b>	<b>40,515</b>	<b>42,921</b>	<b>43,595</b>	<b>47,063</b>	<b>48,448</b>	

Summary excludes TVA and Municipally Owned utilities. Low volume entities not shown (AT&T, Altafiber, Duke, Grayson, Jackson, Kenegy, KY Power, Meade, South KY, Taylor County, Windstream).

**NOTE:** Chart reflects Charter Communications' record of submitted poles on an application to the pole owner at the time of delivery/upload to their system. If the pole owner has a cap on submissions the application may pend in a draft status.



## Current Pole Permits- Pending by Age

	0-3 Months	4-6 Months	7-9 Months	10-12 Months	1+ Year	TOTAL
Blue Grass Energy	2,420	852	340	111	544	4,267
Clark Energy	520	1,909	119	381	0	2,929
Fleming Mason Energy	219	135	1,921	1,347	3,613	7,235
Inter County Energy	499	1,093	658	453	1,487	4,190
Kentucky Utility	2,922	2,589	2,792	2,312	8,197	18,812
Louisville Gas & Electric	1,858	403	296	0	0	2,557
Owen Electric	463	485	0	7	933	1,888
Salt River Electric	1,056	535	0	217	967	2,775
Shelby Energy Cooperative	1,100	307	548	173	212	2,340
All Others	198	145	170	4	938	1,455
<b>TOTAL</b>	<b>11,255</b>	<b>8,453</b>	<b>6,844</b>	<b>5,005</b>	<b>16,891</b>	<b>48,448</b>

**NOTE:** Chart reflects Charter Communications' record of submitted poles on an application to the pole owner at the time of delivery/upload to their system. If the pole owner has a cap on submissions the application may pend in a draft status.

# BIP Round 2 Projects – Projected Permit Needs

	Bluegrass	Clark	Fleming Mason	Grayson RECC	Inter County	Jackson Energy	Kenergy	KU	KY Power	LG&E	Salt River	Shelby Energy	South KY RECC	Taylor	TOTAL
Anderson	739	0	0	0	0	0	0	139	0	0	46	0	0	0	923
Bath	0	741	1,482	0	0	0	0	247	0	0	0	0	0	0	2,470
Bell	0	0	0	0	0	0	0	65	0	0	0	0	0	0	73
Bourbon	543	543	0	0	0	0	0	724	0	0	0	0	0	0	1,810
Bullitt	0	0	0	0	0	0	0	167	0	1,167	2,000	0	0	0	3,333
Carroll	0	0	0	0	0	0	0	103	0	0	0	206	0	0	516
Casey	0	0	0	0	2,943	0	0	841	0	0	0	0	1,682	2,943	8,408
Fayette	288	144	0	0	0	0	0	2,446	0	0	0	0	0	0	2,878
Fleming	0	0	5,151	0	0	0	0	271	0	0	0	0	0	0	5,422
Garrard	0	0	0	0	2,795	0	0	311	0	0	0	0	0	0	3,106
Greenup	0	0	0	1,436	0	0	0	0	479	0	0	0	0	0	1,914
Harrison	9,846	0	0	0	0	0	0	1,094	0	0	0	0	0	0	10,940
Henry	37	0	0	0	0	0	0	74	0	0	0	633	0	0	744
Hopkins	0	0	0	0	0	0	1,420	1,775	0	0	0	0	0	0	3,195
Jessamine	2,156	0	0	0	0	0	0	616	0	0	0	0	0	0	2,772
Larue/Nelson	43	0	0	0	86	0	0	86	0	0	258	0	0	0	773
Laurel	0	0	0	0	0	1,042	0	123	0	0	0	0	0	0	1,226
Lewis	0	0	7,095	946	0	0	0	0	946	0	0	0	0	0	8,987
Lincoln	0	0	0	0	1,415	0	0	202	0	0	0	0	404	0	2,022
Marion	0	0	0	0	2,429	0	0	304	0	0	152	0	0	152	3,036
Montgomery	0	2,513	0	0	0	0	0	279	0	0	0	0	0	0	2,792
Nicholas	1,380	0	1,104	0	0	0	0	276	0	0	0	0	0	0	2,760
Ohio	0	0	0	0	0	0	490	123	0	0	0	0	0	0	736
Pulaski	0	0	0	0	337	0	0	674	0	0	0	0	5,729	0	6,740
Robertson	266	0	743	0	0	0	0	53	0	0	0	0	0	0	1,062
Washington	73	0	0	0	145	0	0	73	0	0	1,162	0	0	0	1,453
<b>TOTAL</b>	<b>15,370</b>	<b>3,941</b>	<b>15,575</b>	<b>2,382</b>	<b>10,151</b>	<b>1,042</b>	<b>1,910</b>	<b>11,065</b>	<b>1,425</b>	<b>1,167</b>	<b>3,618</b>	<b>839</b>	<b>7,815</b>	<b>3,095</b>	<b>80,091</b>

Summary excludes TVA and Municipally Owned utilities. Low volume entities not shown (Cumberland Valley, Meade, Nolin, Owen).

**NOTE:** Chart reflects Charter Communications' preliminary assessment based upon projected miles for the build, estimated % of poles in the county by pole owner, and using a rough calculation of 20 poles per mile to forecast volume. The number of poles listed are intended to be a preliminary, directional estimate only.

# Cumulative Data: Pending & BIP Round 2 Projects

OWNER	PENDING	ROUND 2 FORECAST	TOTAL
Blue Grass Energy	4,267	15,370	19,637
Clark Energy	2,929	3,941	6,870
Fleming Mason Energy	7,235	15,575	22,810
Grayson Rural Electric	10	2,382	2,392
Inter County Energy	4,190	10,151	14,341
Jackson Energy Cooperative	54	1,042	1,096
Kenergy Corporation	2	1,910	1,912
Kentucky Power / AEP	14	1,425	1,439
Kentucky Utility	18,812	11,065	29,877
Louisville Gas & Electric	2,557	1,167	3,724
Meade Co REMC	486	123	609
Owen Electric	1,888	206	2,094
Salt River Electric	2,775	3,618	6,393
Shelby Energy Cooperative	2,340	839	3,179
South Kentucky RECC	285	7,815	8,100
Taylor County RECC	1	3,095	3,096
<b>TOTAL</b>	<b>48,448</b>	<b>80,091</b>	<b>128,539</b>

*Summary excludes TVA and Municipally Owned utilities. Low volume entities not shown (AT&T, Altafiber, Cumberland Valley, Duke, Nolin, Windstream).*

**NOTE:** *Chart reflects Charter Communications' record of submitted pole permits plus the preliminary assessment of required pole permits for Round 2 grants.*

# How Pacing Impacts Specific Projects



# Illustration #1: Projects in Fleming Mason Counties

## Total Pending *(Subset of Slide 4)*

STATUS	2022	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL
Submitted	3,941	763	736	147	1,176	901	1,026	485	331	6	5	42	7	78	166	9,810
Received	(584)	(5)	(11)	(12)	(125)	(52)	(179)	(213)	(6)	(169)	(255)	(33)	(109)	(269)	(553)	(2,575)
	3,357	758	725	135	1,051	849	847	272	325	(163)	(250)	9	(102)	(191)	(387)	7,235

## Pending by Age *(Subset of Slide 5)*

0-3 Months	4-6 Months	7-9 Months	10-12 Months	1+ Year	TOTAL
219	135	1,921	1,347	3,613	7,235

## Round 2 Forecast *(Subset of Slide 6)*

COUNTY	POLE ESTIMATE
Bath	1,482
Fleming	5,151
Lewis	7,095
Nicholas	1,104
Robertson	743
<b>TOTAL</b>	<b>15,575</b>

## Project Overview

PROJECT	BUILD DEADLINE	POLE COUNT	DATE POLE APPROVALS & MAKE READY NEEDED TO MEET BUILD DEADLINE	RUN RATE ESTIMATE PER MONTH
Grant - Mason County	08/02/25	975	01/31/25	87
RDOF	01/12/26	6,185	07/13/25	372
BAU	<i>Varies (90 Days)</i>	75	05/30/24	25
Round 2 Forecast*	05/01/26	15,575	10/30/25	769
<b>TOTAL</b>		<b>22,810</b>		<b>1,252</b>

\* Build deadline date is TBD, but could be as soon as May 2026

# Illustration #2: Projects in Bluegrass Energy Counties

## Total Pending (Subset of Slide 4)

STATUS	2022	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL
Submitted	4,333	61	35	8	104	6	106	535	199	841	221	519	66	1,107	1,166	9,307
Received	(1,447)	(79)	(48)	(18)	(39)	(2)	(54)	(1,245)	(761)	(22)	(18)	(528)	(128)	(192)	(459)	(5,040)
	<b>2,886</b>	<b>(18)</b>	<b>(13)</b>	<b>(10)</b>	<b>65</b>	<b>4</b>	<b>52</b>	<b>(710)</b>	<b>(562)</b>	<b>819</b>	<b>203</b>	<b>(9)</b>	<b>(62)</b>	<b>915</b>	<b>707</b>	<b>4,267</b>

## Pending by Age (Subset of Slide 5)

0-3 Months	4-6 Months	7-9 Months	10-12 Months	1+ Year	TOTAL
2,420	852	340	111	544	<b>4,267</b>

## Round 2 Forecast (Subset of Slide 6)

COUNTY	POLE ESTIMATE
Anderson	739
Bourbon	543
Bullitt	0
Fayette	288
Harrison	9,846
Henry	37
Jessamine	2,156
Larue/Nelson	43
Nicholas	1,380
Robertson	266
Washington	73
<b>TOTAL</b>	<b>15,370</b>

## Project Overview

PROJECT	BUILD DEADLINE	POLE COUNT	DATE POLE APPROVALS & MAKE READY NEEDED TO MEET BUILD DEADLINE	RUN RATE ESTIMATE PER MONTH
Grant - Anderson County	11/30/25	1,718	05/31/25	113
Grant - Bourbon County	06/15/25	996	12/14/24	104
Grant - Henry County	08/31/25	117	03/01/25	10
Grant - Jessamine County	08/31/25	61	03/01/25	5
Grant - Madison County	09/06/25	302	03/07/25	24
Grant - Spencer County	08/31/25	378	03/01/25	31
RDOF	01/12/26	648	07/13/25	39
BAU	<i>Varies (90 Days)</i>	47	05/30/24	16
Round 2 Forecast*	05/01/26	15,370	10/30/25	758
<b>TOTAL</b>		<b>19,637</b>		<b>1,100</b>

\* Build deadline date is TBD, but could be as soon as May 2026

# Illustration #3: Projects in Inter-County Counties

## Total Pending (Subset of Slide 4)

STATUS	2022	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL
Submitted	4,164	271	501	29	467	6	304	13	591	11	902	103	152	91	224	7,829
Received	(1,086)	(207)	(5)	(62)	(564)	(374)	(103)	(163)	0	(68)	(30)	(361)	(203)	(237)	(176)	(3,639)
	<b>3,078</b>	<b>64</b>	<b>496</b>	<b>(33)</b>	<b>(97)</b>	<b>(368)</b>	<b>201</b>	<b>(150)</b>	<b>591</b>	<b>(57)</b>	<b>872</b>	<b>(258)</b>	<b>(51)</b>	<b>(146)</b>	<b>48</b>	<b>4,190</b>

## Pending by Age (Subset of Slide 5)

0-3 Months	4-6 Months	7-9 Months	10-12 Months	1+ Year	TOTAL
499	1,093	658	453	1,487	<b>4,190</b>

## Round 2 Forecast (Subset of Slide 6)

COUNTY	POLE ESTIMATE
Casey	2,943
Garrard	2,795
LarueNelson	86
Lincoln	1,415
Marion	2,429
Pulaski	337
Washington	145
<b>TOTAL</b>	<b>10,151</b>

## Project Overview

PROJECT	BUILD DEADLINE	POLE COUNT	DATE POLE APPROVALS & MAKE READY NEEDED TO MEET BUILD DEADLINE	RUN RATE ESTIMATE PER MONTH
Grant - Boyle County	08/10/25	37	02/08/25	3
Grant - Lincoln County	08/31/25	1,297	03/01/25	107
Grant - Madison County	09/06/25	207	03/07/25	17
RDOF	01/12/26	2,566	07/13/25	154
BAU	Varies (90 Days)	83	05/30/24	28
Round 2 Forecast*	05/01/26	10,151	10/30/25	501
<b>TOTAL</b>		<b>14,341</b>		<b>809</b>

\* Build deadline date is TBD, but could be as soon as May 2026