Ameren Missouri 5-Year Electric Customer-Focused Capital Investment Plan

							\$ - Thousands
Category 1	2019 Actual	2020	2021	2022	2023	2024*	Grand Total
Smart, Reliable Grid Operations	398,973	461,673	529,686	574,949	674,199	663,653	2,904,160
Smart Meter Program	48,330	55,494	60,902	64,357	55,209	43,315	279,277
Non-Nuclear Generation & Environmental	183,687	149,149	219,950	200,609	114,415	141,101	825,224
Nuclear Generation	74,049	71,007	80,176	95,310	91,064	66,926	404,483
Hydro Generation	36,342	26,161	37,653	37,091	34,414	25,523	160,842
Renewable & Gas Turbine Generation	12,258	24,127	30,838	25,345	24,718	16,955	121,983
Secure & Reliable Transmission	142,183	133,447	174,196	175,220	176,245	183,561	842,669
Cyber & Technology Upgrades	96,222	101,905	105,113	101,534	96,064	88,761	493,377
Operational & Customer Support Facilities	43,875	81,705	74,228	82,926	66,635	55,069	360,563
Innovative Opportunities	8,934	7,901	12,496	5,888	3,814	2,435	32,534
Grand Total - Capital	1,044,853	1,112,569	1,325,238	1,363,229	1,336,777	1,287,299	6,425,112
Wind Asset Acquisition (Two Sites)		1,203,000					1,203,000
Grand Total, Including Wind		2,315,569					7,628,112

*2024 funding level based on assumption of extension of Senate Bill 564.

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
Smart, Reliable Grid		Distributed Solar & Energy	J0J4N - Distr Solar Facility Land		
Operations	Flexibility	Storage	J0J4P - Distr Solar Facility Land		
•		-	J0J4Q - Dist Solar Facility Land		
		J0J4R - Distr Solar Facility Land-			
			J0J4S - Dist Solar Facility Land-		
			J0K9X - Distr Solar Facility -		
			J0K9Z - Distr Solar Facility -		
			JOKBO - Solar Facility Project -		
			JOKB1 - Solar Facility Project		
			JOKB2 - Solar Facility Project -		
			JOLNH - Solar-Distribution		
			JOLNJ - Solar-Distribution		
			JOLNK - Solar-Distribution		
			JONJL - Solar Facility Project - Project #6		
			JONJP - Solar Facility Project - Project #7		
		Distributed Solar & Energy St	orage Total	66,191	243,4
		Line Capacity Increases	JOFFS - Extension		- /
			JOGC5 -		
			JOKD8 -		
			JOKNC - Recond-Tie		
			JOP1B - relieve feeder		
			J0P26 - Reconductor		
			J0P2D - Reconductor		
			J0P7J - Install New Feeder		
			JOP7K -		
		Line Capacity Increases Total		8,670	100,49
		Substation Capacity Increases	s J0G4W - Customer Sub-UG-C	0,010	200,1
			J0GDV - Customer Sub-C		
			J0JCJ - Long Term Plan Line-C		
			JOJCK -		
			JOJDM - UPGR Sub-C		
			J0JGC - (2) 22MVA Sub-C		
			JOJMR - (2)22MVA Line-C		
			J0JN6 - UPGR Line-C		
			J0JP4 - UPGR 34.5kV Line-C		
			JOKP9 - Line-C		
			J0KS9 - 34-C		
			JOKSC - UPGR Sub-C		
	1		JOKSL - Site Purchase-C	1	

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
Smart, Reliable Grid	Grid Resiliency / Operating	Substation Capacity Increases	JOKSK - Sub-C		
Operations	Flexibility		JOKWQ - Sub - UG-C		
			JOKZB - Substation-Sub-C		
		JOLDO - Long-Term Plan Sub-C			
			J0M3X - New Circuit-UG-C		
			JONG3 - Sub-Site Purchase-C		
		Substation Capacity Increases	Total	26,716	171,751
		Switches	JOJJB - SWO		
			JOJJR - SWO		
		Switches Total		1,251	10,611
		Subtransmission Switch	JONDS - DCD - UPGR 34kV Switches		
		Upgrades			
		Subtransmission Switch Upgra	des Total	1,054	4,612
	Grid Resiliency/Operating			103,882	530,891
	Smart Grid	Cutout Recloser	J0JJ8 - DCD - UPGR Tripsaver Reclosers		
		Cutout Recloser Total		401	13,510
		Distribution Automation	0A318 - DCD - DA Program		
			JOLL9 - DA		
			J0M71 - 0A318- Intellirupters DA		
			IOM74 - 0A318- Intellirupter DA		
			JON2M - DCD - DA Confols Equipment UPGR		
		Distribution Automation Total		6,413	73,018
		Fault Circuit Indicators	J0JGS - DCD - UPGR Backbone FCIs	1 1	
			J0JJ6 - DCD - UPGR Terminal Pole FCIs		
		Fault Circuit Indicators Total		1,198	15,667
		Fiber/Wireless	J0JJG - Smartgrid fiber & wireless UPGF		
			JOKWZ - Sub Network Equipment		
			JOL8F - Sub Network Equipment		
			JOL8H - Fiber Installation		
		Fiber/Wireless Total		3,858	1 17,312
		LED Street Lighting	J09H1 - LED Streetligh Program		
		LED Street Lighting Total		7,821	35,150
		SCADA Upgrades	28660		
			JOOGQ - Add SCADA		
			JOJJ4 - Add SCADA		
			JOJTZ - Add SCADA		
			JOK07 - Add SCADA		
			JOKOC - Sub - Add SCADA		
		SCADA Upgrades Total		892	4,351

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea		
Smart, Reliable Grid	Smart Grid	TAC/Microgrid	JONQC - Facilities-C				
Operations			JOQ25 - Site-C				
		TAC/Microgrid Total		5,145	28,400		
	Smart Grid Total	Smart Grid Total					
	Standardize 12kV	Convert 4kV to 12kV	J0JCD - , New Sub-Line-C				
			J0JD7 - Sub 138-12kV-Line-C				
			JOJDN - Sub - Sub-C				
			J0JDQ - SubSecond Unit-Sub-C				
			JOJDW - Sub-UG-C				
			J0JF7 - Sub 138-12kV-UG-C				
			JOJFC - Sub-Site-C				
			JOJJD - Sub 138-12kV-Sub-C				
		-	JOLZC - Sub 138-12kV - Xmsn Tap				
		Convert 4kV to 12kV Tot	al	16,803	182,511		
	Standardize 12kV Total			16,803	182,511		
	Substations - Condition	OCB Upgrades	JOGRV - OCB				
	Based Modernization		JOKQH - OCB Upgr 8 at Sub-Sub-C				
			JOKQK - OCB -138/34 XFMR 3				
			JOKQS - OCB				
			JOKR4 - OCB				
			JOKR6 - OCB 34KV POS 03				
			JOKR9 - OCB				
			JOKRD - OCB				
			JOKRN - OCB161/34KV XFMR 1				
			JOKRR - OCB - POS 11,15,20,25, BT 1-2				
			JOKRZ - OCB				
			JOKS1 - OCB 34KV IIII IIII				
			J0KS2 OCB 138/34KV POS 04 XFMR 2				
			J0KZ1 - Incremental OCB UPGR				
			JOLLG - OCB 38kV pos 5 and 6				
		·	IONM2 - OCR - UPGR xfmr 9 and #9				
		OCB Upgrades Total		9,418	29,431		
		Relay Upgrades	JOGBO - UPGR Relaying				
			JOGCQ - UPGR RIy&BRKR				
			JOJG7 - Relay UPGR				
		INTH - Relay LIDGR Is bstation - XFMR 1					
			0JJJ - Relay UPGR Substation - W				
			OJWC - CBM Sub Relay UPGRs				
			JOKO4 - UPGR GE Micropoc Relay	,			
		Relay Upgrades Total		1,368	13,826		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Ye
Smart, Reliable Grid	Substations - Condition	Sub/Switchgear Upgrades	0A664 - SWO-Dist Sub-Con Based		
Operations	Based Modernization		0R000 - SWO-DIST. SUBS - Tⅅ - E63		
			16016 - Substation Spare EQPT UPGR		
			J08GM - CBM Sub-OH-C		
			J08LM - CBM- Sub-C		
			JOCBL - CBM-		
			JOCGW - CBM- Sub, UPGR		
			JOCH3 - CBM-Sub-C		
			JOCH4 - CBMSub-C		
			JOCH9 - CBMSUB-C		
			JOCHF - CBM UPGR SWGR-Sub-C		
			JOCHG - CBM- Sub-C		
			JOCJ5 - CBM-		
			JOCKH - CBM SWGR 2-SUB-C		
			JOCKK - CBM Unit W-SUB-C		
			JOCKN - CBM -Sub-C		
			JOCLM - CBM-		
			JOCLV - CBM- Unit W-UG-C		
			JOG26 - I Sub UPGR Ctl House		
			JOHB5		
			J0JGD - CBM - Sub-C		
			J0JJ7 - UPGR XFMR #1		
			JOJJC - UPGR XFMR #1		
			JOJJF - CBM Sub - Add SCADA		
			J0JKQ - CBM- Sub-C		
			J0JKV - CBM-		
			J0JMK - CBM-		
			J0JMS - CBM- Sub - Line - C		
			J0JT8 - CBM- Sub-12 - Add SCADA		
			JOJTB - UPGR XFMR #2		
			JOJTD - CBM- Sub - Add SCADA		
			JOKN7 - CBM-		
			JOKSP - CBM-SUB-C		
			JOL6C - Spare XFMR Purchase (10A)		
			JOL6D - Spare XFMR Purchase (5X)		
			JOL6F - Spare XFMR Purchase (21)		
			JOLZ8 - Spare 5 UPGR 2019-2020		
			JOLZ9 - Rewind DXFMR 2019		
			JONM9 - CBM - Sub UPGR Sub-C		
			JONZH - CBM - Sub UPGR LINE-C		
	1		JOP2R - CBM - Sub UPGR UG-C	1	

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea		
mart, Reliable Grid	Substations - Condition	Sub/Switchgear Upgrades	JOP3L - CBM Sub UPGR				
perations	Based Modernization		JOP4X - CBM	1 1			
			JOP4Z - CB M Sub, UPGR SWGF				
		Sub/Switchgear Upgrades To		41,163	311,032		
	Substations - Condition B	Substations - Condition Based Modernization Total					
	System Hardening	Subtransmission Upgrades	JOJCH - 2nd 34kv Supply JOJGP - Reloc JOJM4 - 300-075 JOJN5 - 059-71 Improv Circt Reliak JOJNX - 898075 UPGR JOM4041 Reconductor JOM4172 UPGR JOM4574 Reconductor JOM4574 Reconductor JOM4M - New 34.5 kV Circuit-Sub-C JON3Q7-2, -71 Recon Ph1 JONR777, Circ UPGR				
		Subtransmission Upgrades T	JONR876 Reconductor JONV7	19,261	215,02		
	System Hardening Total			19,261	215,02		
	UG Cable Upgrades	OH to UG	22931 - OTU- 183-2, 23727 - OTU- 105-1, 24089 - OTU- 258-58 24132 - OTU- 648-54 JOIQ7 - OTU- 267-52, JOKN3 - OTU- 267-52, JOQ26 OT U 689-51				
		OH to UG Total		3,293	6,49		
		UG Cable Upgrades	0A018 - C-UPGR Program-E46 J0J9T C-UPGR 140-06, J0JBD - C-UPGR 140-06, J0JBM - C-UPGR 140-06, J0JBN - C-UPGR 103-05, J0JBQ - C-UPGR 140-06, J0JC7 - C-UPGR 140-06, J0JCC - C-UPGR 271-55, J0JCV - C-UPGR 31 03 J0JD2 - C-UPGR 134-52, J0JK9 - C-UPGR 890-53,				

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
mart, Reliable Grid	UG Cable Upgrades	UG Cable Upgrades	J0JKC - C-UPGR 890-52,		
perations			J0JM2 - C-UPGR 563-55		
			J0JM3 - C-UPGR 561-53,		
			J0JM7 - C-UPGR 656-55 50176		
			J0JM8 - C-UPGR 656-55 50179		
			J0JMV - C-UPGR 115-52,		
			J0JN8 - C-UPGR 504-57		
			JOJNB - C-UPGR 127-55		
			JOJNH - C-UPGR 587-55		
			J0JP5 - C-UPGR 818-52		
			J0JPB - C-UPGR, 818-52,		
			J0JPG - C-UPGR 982-52,2663		
			JOJPH - C-UPGR 982-52, 3732		
			JOJPL - C-UPGR 718-51, 6094		
			J0JQ8 - C-UPGR 136-51 51-52		
			J0JQ9 - C-UPGR 235-55, 51		
			J0JQB - C-UPGR 228-55, 51		
			J0JQD - C-UPGR 273-52, -51		
			J0JQQ - C-UPGR 260-53,		
			JOJRC - C-UPGR 167-52		
			J0JRG - C-UPGR 148-10 6936		
			J0JRH - C-UPGF 208-02 C1		
			J0JSC - C-UPGR 573-52, 4444-5057		
			J0K70 - C-UPGR 656-55 50037		
			J0K71 - C-UPGR 633-53, 10454		
			JOK7G - C-UPGR 628-53, 50172		
			J0K7J - C-UPGR 628-56, 50046 J0K19 - C-UPGR 689-52 P2		
		UG Cable Upgrades Total	JOQ5R - C-UPGR	25,150	2 15,9 82
	UG Cable Upgrades Tot			28,443	222,472
	UG Revitalization	Indoor Rooms	JONBT - Indr Rm		2.000
			JONBS - 0A321 - Indi Kili		
		Indoor Rooms Total		1,062	2,633
		UG Revitalization	0A321 - 0A321 - Underground Renewal		
			0A669 - UG-MH&VLT UPGR SWO		
			J03P8 - 0A321		
			J05BJ - UG-MH UPGR		
			J060C - UG-VLT (SC) UPGF		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Ye
mart, Reliable Grid	UG Revitalization	UG Revitalization	JOGRB - UG-MH UPGR		
Operations			J06WP - UG-MH UPGR		
			J06WQ - UG-VLT UPGR		
			J0721 - UG-VLT UPGR		
			J08L8 - UG-MH UPGR		
			J0994 - UG-VLT UPGR		
			J09FP - UG-VLT UPGR		
			J09FQ - UG-VLT UPGR		
			J09FX - UG-VLT UPGR		
			JOCCF - 0A321- CAB-DA		
			JOCCQ - 0A321-		
			JOCDK - ReRte-PILC Cab		
			JOCDL - ReRte-PILC Cab		
			JOCDN ReRte-PILC Cab		
			J0CFF - 0A321-		
			JOCFJ - ,76,81 Diversify		
			JOCLD - 0A32151- St CAB-CON		
			JOD3L - UG-VLT UPGR		
			J0D3M - UG-VLT UPGR		
			JOD3Q - UG-VLT UPGR		
			JOD3R - UG-VLT UPGR		
			J0D3V - UG-VLT UPGR		
			JOD3W - UG-VLT UPGR		
			J0D43 - UG-VLT UPGR		
			J0D4Q - UG-MH UPGR		
			JOD4R - UG-MH UPGR		
			J0D4S - UG-MH UPGR		
			JOD9L - UG-MH UPGR		
			JOD9M - UG-MH UPGR		
			JODJV - UG-MH UPGR		
			J0F24 - UG-MH UPGR		
			JOF4V - UG-MH UPGR		
			J0F9B - 0A321-		
			JOFCS - 0A321- DA-SWGR		
			JOFD5 - 0A321- Con		
			JOFD6 - 0A321-CAB		
			JOFFW -		
			JOFGT - OA321- Con		
			IDEGW - UPGR PILC		
			JOFGX - UPGR PILC		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Y
mart, Reliable Grid	UG Revitalization	UG Revitalization	JOFK1 - 0A321 Con		
perations			JOFK2 - 0A321 Diversify		
			JOFK4 - 0A321 Diversify		
			JOFZ7 - UG-MH UPGR		
			J0G2P - UG-MH UPGR		
			J0G2S - UG-MH UPGR		
			J0G2T - UG-MH UPGR		
			J0G2V - UG-VLT UPGR		
			J0GB8 - 0A321 - Conduit		
			J0GB9 - 0A321- Diversify		
			JOGBB - 0A321- Room		
			JOGBD - 0A321 Conduit		
			JOGBF - 0A321-		
			JOGBH - 0A321-		
			JOGBK - 0A321-Conduit		
			JOGBL - 0A321		
			JOGBT - 0A321-19 Conduit		
			J0GBV - 0A321-20 Conduit		
			JOGBW - 0A321- Conduit		
			J0H01 - UG-MH UPGR		
			JOH3T - UG-VLT UPGR (N) (SC)		
			JOH4H - UG-MH UPGR		
			J0H54 - UG-MH UPGR		
			JOH55 - UG-MH UPGR		
			JOHB7 - UG-MH UPGR		
			JOHBQ - UG-MH		
			JOHBR - UG-MH		
			JOHC1 - UG-VLT UPGR		
			JOHCL - UG-MH UPGR.		
			JOHCX - 0A321- DA		
			JOHG3 - UG-MH UPGR		
			J0HJ8 - UG-MH UPGR		
			JOHMB - 0A321-		
			JOHNZ - 0A321 -NW-A4-A6 CAB UPGR		
			JOHPO - 0A321 -NW A5 CAB		
			JOHP1 - 0A321-480V Spot-NW XFMR PTO UPGR		
			JOHP2 - 0A321 Wwk PROT Fiber		
			JOHP3 - 0A321-500		
			JOHWK - UG-MH UPGR		
		JOHWL - UG-MH UPGR			

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Ye
Smart, Reliable Grid	UG Revitalization	UG Revitalization	J0J5Q - 0A321 - Conduit		
Operations			J0J61 - 0A321- Conduit		
			J0J62 - 0A32 1 216V Grid-NW XFMR PTC		
			J0J8P - UG-MH UPGR		
			J0J8S - UG-MH UPGR		
			J0J8V - UG-MH UPGR		
			J0JDR - 0A321- ReRoute Cab		
			J0JDS - 0A321- ReRoute Cab		
			J0JDT - 0A321- Cable UPGR		
			J0JDX - 0A321- Conduit		
			JOJDZ - 0A321-Spot Network Vault Revitaliza		
			J0JF2 - MH Sys Monitorng & Ventilation UPGR		
			JOJFQ - 0A321 ReRoute Cal		
			JOJFS - 0A321		
			JOJFT - 0A321- ReRoute Cab		
			J0JG6 - Reroute Conduit & Cable		
			Jojv8 - UG-MH UPGR.		
			J0JVF - UG-MH UPGR		
			J0JVG - UG-MH UPGR		
			JOLKH -		
			JOLTN - 0A321 FO-TEMP CAB		
			JOLV2 - UG-MH UPGR		
			JOLV3 - UG-MH UPGR		
			J0M2Q - UG-MH UPGR		
			JOM2R - UG-MH UPGR		
			JOM4B - UG-VLT UPGR		
			JOM4H - UG-VLT UPGR		
			JOM7C - UG-VLT UPGR		
			JOMJH - UG-VLT UPGR		
			JOMP3 - UG-VLT UPGR		
			JONKS - UG-MH UPGR		
			JONKT - UG-MH UPGR		
			JONKV - UG-MH UPGR		
			JONKW - UG-MH UPGR		
			JONKX - UG-MH UPGR		
			JOQOQ - UG-MH UPGR		
			JOQOR - UG-MH UPGR		
			JOQOS - UG-MH UPGR		
			JOQOT - UG-MH UPGR		
			JOQOV - UG-MH UPGR		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
Smart, Reliable Grid	UG Revitalization	UG Revitalization	JOQ56 - UG-MH UPGR		
Operations			J0Q57 - UG-MH UPGR		
			JOQ58 - UG-MH UPGR		
		UG Revitalization Total		36,072	206,61
	UG Revitalization Tota			37,134	209,25
Smart, Reliable Grid Op	perations Total			2883,200	2,001,84
Smart Meter Program	Smart Meter Program	Smart Meter Program	JOBJ9 - SMP Phase 2		
			JOCZR - SMP Sys Int & BPD		
			JOCZW - SMP		
			JOCZZ - SMP		
			JODOO - SMP TestEqpt		
			JOD07 - SMP Elec Meters & Install SWO		
			J0D08 - SMP		
			JODOB - SMP, Ntwk Eqptinst		
			JODOG - SMP Ntwk Eqptins		
			JODOH - SMP Ntwk Eqptinst		
			JODG5 - SMP MkRdy		
			J0DG8 - SMP MkRdy		
			JODGP - SMP MkRdy		
			JODGW - SMP MkRdy		
			JODGX - SMP MkRdy		
			JODGZ - SMP, MkRdy		
			JODWD - SMP Communications		
			JOL2P - SMP Meter Farm		
		Smart Meter Program Total		55,494	279,277
	Smart Meter Program			55,494	279,277
Smart Meter Program T	Total			55,494	279,277
Non-Nuclear Generation		Controls Upgrades for Faste	r J0JQ2 - Minimum Unit Load Mods		
& Environmental		Ramp Rates/Lower Minimu	Soscie		
		Controls Upgrades for Faste	er Ramp Rates/Lower Minimums Total	821	1,933
		Cyber Security Upgrades /	20248 - OOXA HMI LIFECYLE UPGR		
	New Technologies	J05HF - U1-4 HMI LIFECYCLE UPGR			
			JOJNJ - Cybersecurity- Priority 1		
		Cyber Security Upgrades/Ne		1,186	4,550
		Exciter Upgrades	JOFJR - U1 HP/LP Exciter Digital FE UPGR		
		Exciter Upgrades Total		2,425	5,434

Category 1	Category 2	Category 3	2020 Project Detail	2020	\$ - Thousand
Non-Nuclear Generation		GSU Transformer Upgrades	J0C9G - U1 Transformer Explosion Protection	2020	5-164
& Environmental	Gilu Performance			675	1 403
d Environmentai	GSU Transformer Upgrades Total			675	1,403
	Grid Performance Total			5,107	13,320
	& Environmental Total			5,107	13,320
Nuclear Generation	Grid Performance	Controls Upgrades for Faster			
		Ramp Rates/Lower Minimun			
			Ramp Rates/Lower Minimums Total	892	8,017
		Switchyard Breaker / Relay	JOCW9 - SPV Digital Relay UPGR		
		Upgrades			
		Switchyard Breaker/Relay Up	ogrades Total	507	2,433
	Grid Performance Total	1,399	10,450		
Nuclear Generation Tota	al			1,399	10,450
Hydro Generation	Grid Performance	Cyber Security Upgrades /			
		New Technologies			
		Cyber Security Upgrades/Net	w Technologies Total		84
		Exciter Upgrades	J06VD - U9 EXCITER UPGR		
			J06VF - U10 EXCITER UPGR		
			J06VG - U11 EXCITER UPGR		
		Exciter Upgrades Total		374	8,836
		GSU Transformer Upgrades	JOKTB - U2 GSU XFMR UPGR		
		GSU Transformer Upgrades	Fotal	21	21,992
		Switchyard Breaker / Relay	J0FJH - Switchyard Disconnect Switch UPGR		
		Upgrades	JOLR1 - Switchyard Disconnect Switch UPGR		
		Switchyard Breaker/Relay Up	ogrades Total	167	166
	Grid Performance Total		<u> </u>	562	31,078
Hydro Generation Total				562	31,078
Renewable & Gas	Grid Performance	Cyber Security Upgrades /	J0JNG - Fleet Cyber UPGR	502	01,070
Turbine Generation	ond i chomanee	New Technologies			
		Cyber Security Upgrades/Ne	w Technologies Total	331	1,335
		Exciter Upgrades	JOKQ3 - VEN Excitation System UPGR		1,000
		Exciter Upgrades Total		507	7,534
		GSU Transformer Upgrades		507	1,00-
		GSU Transformer Upgrades			192
		Solar	JONK5 - Community Solar Program Site 2		192
		Sulai	JONKS - Community solar Program Site 2 JONKH -		
			JONKH - JONKK - Neighborhood Solar		
	1				

				l acad	\$ - Thousand
Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
Renewable & Gas	Grid Performance	Solar	JOCDW - Distributive Gen Solar	_ <u></u>	
Turbine Generation		Solar Total		8,365	41,32
	Grid Performance Tota	al		9,203	50,38
Renewable & Gas Tur	bine Generation Total			9,203	50,38
Secure & Reliable	Grid Performance	Line Reliability Improvemen	its J04P7 - Jine UPGR		
Transmission			JOKH7 1 & -2 Shield Wire UPGR		
			JOLQZ - 161kV Line UPGR		
		Line Reliability Improvement	Its Total	187	5,211
		Mobile Transformers			
		Mobile Transformers Total		1 1	8,320
		Substation Reliability	JOFS7 - GATE Lead Lines		
		Improvements	JOFS8 - (138kV) -Add 2 Line BRK		
			JOG8Z - XFMR UPGR and BRKR Addn		
			JOG9L - Sub Add Line BRKRs		
			JOHRD - Line Re-Route Sub		
			JOHZI - 138kV Ring Bus		
			JOHZM - 138kV Ring Bus		
			JOHZN - Add 161kV Line & Tie BRKRs		
			J0J30 - Removals		
			JUJ7V - 161kV Ring Bus		
			JOLPO - Add BRKRs JOLSN		
			JOP8W - 161kV Ring Bus		
			JOP8X - (161kV)-Add Bus Tie		
			JOP8Z - (161kv)-Rebuild		
			JOPVP - J541_598 - 161kV_Tie Lines		
			J0PVQ - J541_598 - (161kV) Reroute		
			JOPVR - J817 (161kV) - Reroute		
			JOPVS - J817 (345kV) - New Structure		
			JOPW6 - (345KV)-J598 and J541 345KV Station UPGR		
			JOPWD - (345KV)-J598 and J541 161KV Station UPGF		
			JOPWG (345KV)-J598 and J541 XFMR UPGR		
			JOPWJ - J817 IF Line posn.		
			JOPWL - J817		
			JOPWP - J817-Breaker Addition		
		Substation Reliability Impro		14,041	109,122
		VAR Compensation	J0G9J -		

C ategory 2	Category 3	2 020 ProjecDetail	2020	5- Yu
Grid Performance	WAR Compensation	JOGXG - Static V AR Sys.		
	VAR Compensation Total		12,932	29,932
Grid Performance Tota	<u> </u>		27,160	152,58
Modernization	Breaker Upgrades	J087S - BT-1-2 BRKR-Relay-Switch		
		JO8K6 BRKR UPGRs		
		J08XR - BT-2-3 BRKR/Switch UPGR		
		JOC5Z - BT1-2 BRKR UPGR		
		JOC63 - UPGR 6 138kV BRKRs		
		JOFSK - 2 BRKR UPGR		
		JOG94 - UPGR BRKR/Switches		
		JOG9G - BRKR/Bus UPGRs BT 1-2 3-4		
		JOJ86 -		
	Breaker Upgrades Total		4,994	21,562
	Transformer Upgrades To	tal		18,38
Modernization Tota			4,994	39,95
Smart Grid	Intelligrid	J086S - INTG Sub Trans. I/S 2020-MO		
		J086T - INTG Sub Trans. I/S 2021-MO		
		JOB71 - INF C;		
		JODKW - INTG CORE MED GEN		
		JODL4 - INTG CORE MED		
		JODM8 - INTG CORE MED		
		JODMF - RELB		
		JODMS - RELB		
		JOFNN - INTG		
	Grid Performance Tota Modernization	Grid Performance VAR Compensation VAR Compensation Total Modernization Breaker Upgrades Breaker Upgrades Total Transformer Upgrades Total Transformer Upgrades Total	Grid Performance VAR Campensation JOGXG - Static VAR Sys. Grid Performance Total Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Breaker Upgrades Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Breaker Upgrades Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Breaker Upgrades Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Breaker Upgrades Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Reaker Upgrades Total Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Modernization Total Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Static VAR Sys. Image: Stati VAR Sys. Image: Static VAR	Grid Performance VMR Campensation Total 12,932 Grid Performance Total 12,932 Modernization Breaker Upgrades 0875 - 0.057, 1.00 Modernization Breaker Upgrades 0875 - 0.057, 1.00 DOCS3 - 0.057, 1.00 BRKR UPGR 27,100 Modernization Breaker Upgrades 0875 - 0.057, 1.00 DOCS3 - 0.056, 1.00 BRKR UPGR 2.8KR UPGR DOCS4 - 0.057, 1.00 UPGR BRK/Switch UPGR 2.8KR UPGR DOCS4 - 0.057, 1.00 UPGR BRK/Switch UPGR 2.8KR UPGR DOCS4 - 0.057, 1.00 UPGR BRK/Switch UPGR 2.8KR UPGR DOCS4 - 0.057, 1.00 UPGR BRK/Switch UPGR 2.8KR UPGR DOCS4 - 0.059, 1.00, 0.059, 1.23, 24 0.059, 1.00, 0.059, 1.23, 24 DO774 - 0.00, 0.059, 1.24, 0.05, 0.0

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Ye
ecure & Reliable	Smart Grid	Intelligrid	JOG7R - INTG CORE MED47		
ransmission			JOG7X - INTG CORE MED		
			JOG7Z - INTG CORE MED		
			JOG87 - INTG CORE MED IT Trans 2018 UEC		
			J0G88 - INTG CORE MED IT Trans 2019 UEC		
			JOG8M - INTG CORE MED TELECOM UEC 2018		
			JOG8P - INTG CORE MED TELECOM UEC 2019		
			JOG K7 - INTG CORE MED TELECOM UEC 2020		
			JOHR4 - INTG CORE MED TELE UEC 2019-		
			JOHR5 - INTG C.MED TELECOM UEC MH		
			JOHVX - INTG CORE MEDTELE UEC 2019 IS DEC19		
			JOHVZ - INTG CORE MED TELECOM UEC 2019 -Loc		
			JOHW6 - INTG CORE MED Trans UEC IS SEPT 19		
			JOKSW - INTG L-		
			JOKWW - COMM EASE		
			JOKWX - COMM EASEMENT		
		JOL5N - INF			
		JOL67 - INTG Relay UPGRs			
		JOL68 INTG Relay UPGR			
		JOL69 - INTG Relay UPGR			
			JOL6B - INTG Relay UPGRs		
			JOLBO - INTG Trans Lines		
			JOLMJ - INTG -		
			JOLN1 - INTG Access Sub		
			JOLP3 - INTG Access		
			JOLPX - INTG Access		
			JOLS5 - INTG Access		
			JOLS7 - INTG Access		
			JOLSS - INTG OPGW Pole UPGR		
			JOLST - INTG OPGW Pole UPGR		
			JOLSW INTG OPGW		
			JOLSX - INTG Pole UPGR		
			JOLSZ - INTG OPGW Pole UPGR		
			JOLTO - INTG OPGW		
			JOLT1 - INTG OPGW Pole UPGR		
			JOLVQ		
			JOLVS - 1 - INTG OPGW		
			JOLVT J -3 INTG OPGW		
			JOM4P - INTG -		
			JOM5L - INTG		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Ye
Secure & Reliable	Smart Grid	Intelligrid	JOM8W - INTG Access High		
ransmission			JOM8X - INTG Access High		
			JOM8Z - INTG Access High		
			JOM90 - INTG Access High		
			JOM91 - INTG Access High		
			JOMB1 - INTG Access High		
			JOMB2 - INTG Access High		
			JOMB3 - INTG Access High		
			JOMCJ - INTG Access High		
			JOMCN - INTG Access High 345kV		
			JOMD7 - INTG Access High		
			JOMNP - INTG Access High 69kV		
			JOMZT - INTG Comm I/S 2020 G IL		
			JONMC - INTG Access Med		
			JONMF - INTG Access Med		
			JONMG - INTG AM -7407		
		JONMH - INTG Access Med			
		JONMJ - INTG AM			
		JONMK - INTG AM			
		JONMM - INTG AM			
		IONMO - INTG Access Med			
			JONMS - INTG Access Med		
			JOPM7 - (138kV)-UPGR SW		
			JOPXX -		
		Intelligrid Total		28,101	131,5
		Relay Upgrades	JOFS6 - (138kV) - Relay UPGR		
			JOFS9 - (138kV) -Relay UPGR		
			JOG93 - Relay UPGR		
			JOG96 - Relay UPGR -4		
			JOG9B - Relay Panel UPGR		
			JOG9H - Relay UPGR 1		
			JOGXC - Relay and Station UPGR		
			JOGXF UPGR Controls		
			J0H62 - Relay UPGR		
			JOHRF - 345kV -RIy UPGR		
			JOHRG - 34tkV -Equip UPGR		
			J0J4Z		
			Inico - Re py UPGR		
			JOJGV JUPGR Relays/BT BRKR		
			JOJGX - Relay UPGRs -3 -4		

Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Yea
Secure & Reliable	Smart Grid	Relay Upgrades	JOJH1 - Relay UPGRs -1-3		
Fransmission			JOJH2 - Relays UPGRs Posn H8 H13		
			JOJH4 - XFMR BRKR and Relay UPGR		
			JOJH9 - Relay UPGRs		
			JOJHH - Bus 1 Relay UPGR		
			JOLW6 - IGH & 24H Relay UPGR		
			JOM7G - (138KV) -Line Panel and Relay		
			JOMHK - sub relay UPGR		
			IOMKX - 138KV relay UPGR		
			JOMPM - Relay UPGR 2		
			JON2Z - Relay UPGR		
			JONB2 - remote end work for		
			JONB3 - remote end work for		
			JONB4 - remote end work for		
			JONB5 - remote end work for		
			JONB6 - remote end work fo		
			JONB7 I remote end work for		
			JONB8 - remote end work for		
		Relay Upgrades Total		11,837	30,220
		Monitoring Upgrades	JOC85 - PMU Add		
	· · · ·	Monitoring Upgrades Total		5	5
	Smart Grid Tota			39,943	161,814
Secure & Reliable Trai		_		7:2,097	354,34
Cyber & Technology	Business & Corp Services	Enterprise System Upgrades	JOK40 - UPGR Security Carnera - UEC		
Upgrades			JOM01 - UPGR Security Camera - UEC GENERATION	· · · · · · · · · · · · · · · · · · ·	
		Enterprise System Upgrades Total		2,992	4,792
	Business & Corp Services Total			2,992	4,792
	Customer Support	Intelligrid	J06K8 - Intelligrid Core Med 2019 UEC		
			JOMC4 - INTG Access High		
			JOMCS INTG Access High Trans UEC		
			JOMC7 - INTG Access High Dist UEC		
			JOMC8 - INTG Access High		
			JOMC9 - INTG Access High Dist UEC		
			JOMCB - INTG Access High		
			JOMJV - Private LTE MO		
			JOMPH - INTG Acc High		
			JOMPJ - INTG Acc High		
		Intelligrid Total	•	9,425	27,616

Category 1	Catagory 2	Catagory 2	2020 Project Detail	2020	\$ - Thousand
Cyber & Technology	Category 2 Customer Support	Category 3 Work & Asset Mgmt System	J0642 - GIS Electric UPGR - UEC	2020	5-166
Upgrades	Customer Support	Upgrades	JODHW - DFE P8 MMV AMO HW		
opgraues		opgrades	JODIN - DEE PS MINI AMO HW JODJ1 - ASPIRE P2 S&T AMO		
			JODJI - ASPIRE PZ S&T AMO JODX2 - ASPIRE P3 E&G AMO		
			JODX2 - ASPIRE P3 E&G ANIO		
			JODAG - ASPIRE PS AND HW JOGP5 - GIS Electric UPGR UEC Hardware		
			J0GP7 - GIS Graphic Work Design UEC		
			JOK6T - ADMS Annual Upgrades - UEC		
		Morte R. Accet Maret Sustain		10.214	20.220
		Work & Asset Mgmt System L	Jpgrades lotal	19,314	30,239
	Customer Support Tota			28,739	57,855
	Cyber Security Cyber Security Upgrades /		J0K7L - Intrusion Detect OT Networks - UEC		
		New Technologies	J0NX4 - Centralized OT Cybersecurity - UEC		
		Cyber Security Upgrades/Nev	v Technologies Total	654	1,454
	Cyber Security Total			654	1,454
	Run The Business	Network & Server Upgrades	JOLRJ - DTI Fiber UPGR 2020		
			JOLZV - DTI Fiber-		
			J0M64 - DTI Fiber-		
		Network & Server Upgrades 1	Fotal	2,171	4,787
	Run The Business Tota	l		2,171	4,787
Cyber & Technology U	Ipgrades Total			34,556	68,888
Innovative Opportunit	ies Electrification	Electrification Infrastructure	J0NL7 - EV Chargers - MO Workspace		-
	Infrastructure		JONL8 - EV Chargers - Battery Backup		
			JONLC - Electric School Bus		
			JONLF - Electric Equipment Program		
			JONLG - EV Fleet - Light duty		
			JONLH - EV Fleet - Heavy duty		
			JONLJ - EV Fleet - Groundskeeping		
			JONLZ - Electric Shuttle Bus Pilot Phase-1		
		Electrification Infrastructure		2,528	12,501
	Electrification Infrastru			2,528	12,501
	Grid Innovative	Grid Innovative Technologies	J0KJ1 - Distributed Technology Pilots	2,520	12,301
	Technologies		JOKVF - Energy Analysis Tool		
	recimologies		JONLL -		
			JONEL - JONEL		
			JOQ02 - DEC Substation of the Future, Advanced Sensor Deploy JOQ03 - UEC Corona Inspection / Image Processing (Hardware)		
			JOQ04 - UEC Data Centers Pilot (Hardware)		
1	I	I	J0Q05 - UEC Connected Communities / Smart Street Lights HW		

					\$ - Thousands
Category 1	Category 2	Category 3	2020 Project Detail	2020	5-Year
Innovative Opportunities	Grid Innovative	Grid Innovative Technologies	J0Q06 - UEC Electric School Bus Pilot (Hardware)		
	Technologies		J0Q07 - UEC VR/AR Training (Software)		
			J0Q08 - UEC AMI Analytics & Connected Home (Software)		
		Grid Innovative Technologies T	Total	3,085	10,595
	Grid Innovative Technologi	es Total		3,085	10,595
Innovative Opportunities	s Total			5,613	23,096
Grid Modernizati	on Projects Total			467,231	2,832,690

NOTE: Only 2020 projects are listed.

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Ongoing Operations

				\$ - Thousands
Category 1	Category 2	Category 3	2020	5-Year
Smart, Reliable Grid Operations	Distribution Operations	Circuit Inspection Resulting Work	29,611	161,679
		Customer Requested	6,471	32,431
		Device Inspection Resulting Work	532	2,594
		Emergency Work	15,532	74,476
		Emergent Business	47,158	242,507
		Fleet	18,473	83,990
		General Plant	2,208	8,036
		Government Relocations	4,618	22,060
		Reliability & NESC	18,300	92,122
		Storms Rebuild	4,615	22,949
		Street Light Inspection Resulting Work	97	473
		Transformers & Tools	21,323	116,673
		UG Inspection Resulting Work	2,127	10,261
		Worst Performing Circuits	1,435	7,060
	Distribution Operations Total		172,500	877,311
	Grid Resiliency/Operating Flexibility	Line Capacity Increases	3,151	12,728
	Grid Resiliency/Operating Flexibility Total		3,151	12,728
	Substations - Condition Based Modernization	Sub/Switchgear Upgrades	1,581	2,584
		Substation Spill Control	1,016	8,844
	Substations - Condition Based Modernization Total		2,597	11,428
	System Hardening	Brittle Conductor Upgrades	225	849
	System Hardening Total		225	849
Smart, Reliable Grid Operations Total			178,473	902,316
Non-Nuclear Generation & Environmental	Modernization	Component/Material Upgrades	10,221	71,009
		Controls/Communication Upgrades	10,282	41,998
		Physical Security Upgrades	40	40
	Modernization Total		20,543	113,047
	Regulatory & Facilities	Facility Upgrades	12,700	61,761
		Regulatory Required	52,374	144,365
	Regulatory & Facilities Total		65,074	206,126
	Reliability	Component Replacements	58,425	492,731
	Reliability Total		58,425	492,731
Non-Nuclear Generation & Environmental 1	Total		144,042	811,904
Nuclear Generation	Modernization	Component/Material Upgrades	15,608	111,271
		Physical Security Upgrades	760	3,457
	Modernization Total		16,368	114,728
	Regulatory & Facilities	Facility Upgrades	11,081	20,070

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Ongoing Operations

				\$ - Thousand
Category 1	Category 2	Category 3	2020	5-Yea
Nuclear Generation	Regulatory & Facilities	Regulatory Required	10,022	29,93
	Regulatory & Facilities Total		21,103	50,000
	Reliability	Component Replacements	32,137	229,30
	Reliability Total		32,137	229,305
Nuclear Generation Total			69,608	394,033
Hydro Generation	Modernization	Component/Material Upgrades	17,336	37,372
		Controls/Communication Upgrades	1,904	19,698
	Modernization Total		19,240	57,070
	Regulatory & Facilities	Facility Upgrades	1,493	10,130
		Regulatory Required	3,399	7,25
	Regulatory & Facilities Total		4,892	17,383
	Reliability	Component Replacements	1,467	55,313
	Reliability Total		1,467	55,313
Hydro Generation Total			25,599	129,764
Renewable & Gas Turbine Generation	Modernization	Component/Material Upgrades	1,299	19,099
		Controls/Communication Upgrades	5,658	22,379
	Modernization Total		6,957	41,478
	Regulatory & Facilities	Facility Upgrades	558	2,090
		Regulatory Required	1,265	1,34
	Regulatory & Facilities Total		1,823	3,43
	Reliability	Component Replacements	6,144	26,680
	Reliability Total		6,144	26,680
Renewable & Gas Turbine Generation To	tal		14,924	71,59
Secure & Reliable Transmission	Modernization	Physical Security Upgrades		5,210
	Modernization Total			5,210
	Reliability	Condition Based Replacements	57,420	462,15
	Reliability Total		57,420	462,15
	Vehicles, Tools & Other	Vehicles, Tools & Other	3,930	20,94
	Vehicles, Tools & Other Total		3,930	20,94
Secure & Reliable Transmission Total			61,350	488,32
Cyber & Technology Upgrades	Business & Corp Services	Department System Upgrades	3,357	4,57
		Enterprise System Upgrades	11,470	75,53
	Business & Corp Services Total		14,827	80,11
	Customer Support	Customer System Enhancements	13,548	126,18
		Work & Asset Mgmt System Upgrades	201	32,60
	Customer Support Total		13,749	158,78

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Ongoing Operations

				\$ - Thousands
Category 1	Category 2	Category 3	2020	5-Year
Cyber & Technology Upgrades	Cyber Security	Cyber Security Upgrades/New Technologies	11,534	39,429
	Cyber Security Total		11,534	39,429
	Foundational Enablers	Analytics & Process Automation	5,481	21,624
		New Data Centers & Facility Technologies	3,999	47,232
		New User Technologies	3,237	6,729
	Foundational Enablers Total		12,717	75,585
	Run The Business	Network & Server Upgrades	9,153	53,311
		User Technology Upgrades	5,369	17,268
	Run The Business Total		14,522	70,579
Cyber & Technology Upgrades Total			67,349	424,489
Operational & Customer Support Facilities	Facilities	Facilities	81,705	360,563
	Facilities Total		81,705	360,563
Operational & Customer Support Facilities	Total		81,705	360,563
Innovative Opportunities	Other	Other	2,288	9,438
	Other Total		2,288	9,438
Innovative Opportunities Total			2,288	9,438
Ongoing Operations Total			645,338	3,592,422

Grand Total - Grid Modernization Projects + Ongoing Operations		6,425,112
Wind Asset Acquisition (Two Sites)	1 203 000	1 203 000

Grand Total, Including Wind

1,203,000 1,203,000 **2,315,569 7,628,112**

Ameren Missouri Electric Customer-Focused Capital Investment Plan - First Adds

Category 1	Category 2	Category 3	Project
Smart, Reliable Grid Operations	Grid Resiliency/Operating Flexibility	Substation Capacity Increases	JOPVO - New Cust Sub-(
		1	JOPXQ New Cust Sub-UG C
	Standardize 12kV	Standardize 12kV	JOJF6 - Sub Second Unit-UG-C
			J0KQD - New 34-12 kV Sub-C
			J0J5P - New 34-12 kV Sub-UG-C
			JOPOJ - 197-57
	Substations - Condition Based Modernization	Sub/Switchgear Upgrades	J0JJ5 - Upgr Xfmr #1
			J01WC - Sub-C
Non-Nuclear Generation & Environmental	Grid Performance	Exciter Upgrades	JOFJT - U2 HP/LP Exciter Digital FE UPGR
Secure & Reliable Transmission	Smart Grid	Intelligrid	JONML - INTG AM Delta1
			JONMP - INTG Access Med 1
			JOPKW - INTG Access High Trans MO
			J0Q51 - INTG Access Med Trans MO Lines
			JOQ4V - INTG Access Med Trans MO
			JOQ4X - INTG Access High Trans MO Lines
Cyber & Technology Upgrades	Run The Business	Network & Server Upgrades	JOL99 - Comm Tower UPGR - UEC 2020
			JONXQ - Cellular 3G Modem UPGR UEC

NOTE: "First Add" projects are ready to execute when unforeseen circumstances require in-budget project deferrals or cuts, or when actual costs are less than forecasted costs on executed projects. This allows budget and grid modernization investment targets to be achieved.

Missouri Smart Energy Plan	
Project Name Acronym Guide	
ADMS - Ameren Data Mgmt System	MKRDY - Make Ready
ARV - Archview Division	MMV - Mobile Map Viewer
BPD - Business Process Development	MSRP - Metro South Reliability Project
BRK / BRKR - Breaker	MVD - Meramec Valley Division
C-UPGR - Cable Upgrade	NMD - Northeast MO Division
CAB - Cable	NTWK - Network
CBM - Condition-Based Modernization	OCB - Oil-filled Circuit Breaker
CMD - Central MO Division	OH - Overhead
COLM - Continuous Online Monitoring	OPGW - Optical Ground Wire
COMM - Communication	OT - Operational Technology
CON / COND - Conduit	OTU - Overhead To Underground
CTG - Combustion Turbine Generator	PCB - Power Circuit Breaker
CTG VEN - Venice CTGs	PMU - Phasor Measurement Unit
CTL - Control	POS - Position
DA - Distribution Automation	PTO - Pressure, Temp, Oil Level Monitoring
DCD - Distribution Control Dept	PQ - Power Quality
DER - Distributed Energy Resources	RECON - Reconductor
DFE - Digital Field Experience	RELB - Reliability Upgrade
EQPTINST - Equipment Installation	REPL - Replace or Replacement
EQPT - Equipment	RI - Rush Island Energy Center
EXT - Extension	SITE-C - Site Companion Project *
FCI - Fault Circuit Indicator	SMO - Southeast MO Division
GIS - Geographic Information System	SMP - Smart Meter Program
GOB - General Office Building	SSC - Substation Spill Control
GSU - Generator Step Up	SSM - Sisters of St. Marys Hospitals
GWY - Gateway Division	SUB-C - Substation Companion Project *
HISD - High Side	SWGR - Switchgear
HMI - Human Machine Interface	SWO - Standing Work Order
IC - Interconnection Customer	SWYD - Switchyard
IF - Interconnection Facility	SX - Sioux Energy Center
IGC - Increased Ground Clearance	Tⅅ - Transmission & Distribution Design
INF - Infrastructure	TAC - Technical Application Center
INTG - Intelligrid	TDL - Terre Du Lac
IOC - Integrated Operations Center	TS - Taum Sauk Center
KEO - Keokuk Energy Center	UEC - Union Electric Company
LBD - Labadie Energy Center	UG / UND - Underground
LINE-C - Line Companion Project *	UG-C - Underground Companion Project *
MDI - Missouri Distribution	UPGR - Upgrade
MED - Medium	VAR - Volt Amp Reactive
MER - Meramec Energy Center	VLT - Vault
MH - Manhole	XF / XFMR - Transformer
*Companions are individual projects that make an over-arching project: by linking projects this way, administrative and executional efficiencies may be	

*Companions are individual projects that make an over-arching project; by linking projects this way, administrative and executional efficiencies may be achieved.

Other acronyms and abbreviations not defined in this list are either geographical in nature, are common acronyms (e.g., "MO" - Missouri), are used industrywide (e.g., "NERC" = North American Electric Reliability Corporation), or are easily recognized.