

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

\$ - Thousands

Category 1	2022 Actual	2023	2024	2025	2026	2027	Grand Total
Smart, Reliable Grid Operations	732,514	712,548	623,309	604,032	717,456	675,642	3,332,987
Smart Meter Program	76,015	61,410	35,514	7,074	-	-	103,998
Non-Nuclear Generation & Environmental	128,614	112,474	128,330	109,528	99,733	214,665	664,730
Nuclear Generation	104,596	104,621	99,616	99,205	95,381	100,220	499,043
Hydro Generation	23,204	47,808	36,416	22,697	43,809	16,002	166,732
Renewable & Gas Turbine Generation*	38,525	67,345	773,129	618,639	616,090	553,027	2,628,230
<i>New Renewable Generation**</i>	<i>11,939</i>	<i>38,487</i>	<i>749,754</i>	<i>600,061</i>	<i>590,014</i>	<i>540,165</i>	<i>2,518,481</i>
Secure & Reliable Transmission	243,613	284,385	295,044	297,323	297,767	300,099	1,474,618
Cyber & Technology Upgrades	138,884	158,392	147,558	151,736	151,522	151,040	760,248
Operational & Customer Support Facilities	79,384	51,851	72,052	38,054	40,025	40,029	242,011
Innovative Opportunities	6,068	4,865	1,751	1,424	1,579	1,589	11,208
Grand Total - Capital	1,571,417	1,605,699	2,212,719	1,949,712	2,063,362	2,052,313	9,883,805

Renewable Asset Acquisitions

17,871

Grand total, Including Renewable Asset Acquisitions**1,589,288**

*Renewable & Gas Turbine Generation is inclusive of New Renewable Generation

** New Renewable Generation Plan for 2023-2027 may include both self-built projects and acquired renewable assets, pending future regulatory proceedings

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

				\$ - Thousands			
Category 1	Category 2	Category 3	Project Detail	2023	5-Year		
Smart, Reliable Grid Operations	Distribution Operations	Customer Requested	J11FZ - [REDACTED] OTU [REDACTED]				
		Customer Requested Total		2	2		
		Emergent Business	J0Z91 - [REDACTED] - Serv J0XKV - [REDACTED] extensio				
		Emergent Business Total		575	575		
		Reliability & NESC					
		Reliability & NESC Total				416	
		Transformers & Tools	16016 - Substation Spare EQPT UPGR JOWM1 - Spare 5A 139.2/34kv 112MVA LTC JOWM2 - Spare 5B 139.3/34kv 112MVA LTC J0XKP - Spare 22MVA non-LTC 34/4kV XFMR J0XT8 - Spares 21 and 22X 14MVA Xfms				
		Transformers & Tools Total		11,083	32,156		
		Distribution Operations Total			11,660	33,149	
		Smart, Reliable Grid Operations	Grid Resiliency/Operating Flexibility	Convert 4kV to 12kV	J0I3L - [REDACTED] 12kV Sub 2nd Unit-UG-C J0I5P - [REDACTED] New 34-12 kV Sub-UG-C J0KN8 - [REDACTED] New 34-12 kV Sub-UG-C J0KSM - [REDACTED] 12 kV Sub 2nd Unit-Sub-C J0KQD - [REDACTED] New 34-12 kV Sub-Sub-C J0KSR - [REDACTED] New 34-12 kV Sub-Sub-C J0P1X - [REDACTED] Sub - Line - C J0NQQ - [REDACTED] Pad-mount XFMR-Line-C J0P17 - [REDACTED] Pad-mount XFMR-Line-C J0P24 - [REDACTED] Pad-mount XFMR-Line-C J0P2Q - [REDACTED] Pad-mount XFMR-Line-C J0P1P - [REDACTED] Area Conversion-Line-C J0P1Z - [REDACTED] Sub - [REDACTED] - C J0SGG - [REDACTED] Pad-mount XFMR-Line-C J0SGM - [REDACTED] UPGR J0SGV - [REDACTED] -12kV Upgrade J0RPX - [REDACTED] New 34-12 kV Sub -C J0SHJ - [REDACTED] 12 kV Sub-UG-C J0SGC - [REDACTED] 12 kV Sub-Line-C J0SH5 - [REDACTED] 12 kV Sub-Sub-C J0WBX - [REDACTED] Sub-UG-C J0WBV - [REDACTED] Sub-Line-C J0XQK - [REDACTED] Pad-mount-XFMR- Line-C J104R - [REDACTED] 289-53 [REDACTED] J0SGW - [REDACTED] 12 kV Sub-Site-C J0SH3 - [REDACTED] 12kV Modernize-Site-C J0WBW - [REDACTED] Sub-Sub-C		
Convert 4kV to 12kV Total				34,995	204,355		
Line Capacity Increases				J0P02 - [REDACTED] Recon to [REDACTED]			
				J0P26 - [REDACTED] Recon [REDACTED]			
				J0P1B - [REDACTED] relieve feeder [REDACTED]			
				J0SKN - [REDACTED] Recon-UG-C [REDACTED]			
				J0SKP - [REDACTED] New 34kV Feeder-UG-C [REDACTED]			
				J0SKV - [REDACTED] Recon-Line-C [REDACTED]			
				J0SKF - [REDACTED] New 34.5KV Circuit-Sub-C [REDACTED]			
				J0SKH - [REDACTED] New 34kV Feeder-Sub-C [REDACTED]			
				J0T41 - [REDACTED] Recon [REDACTED]			
				J0WMT - [REDACTED] 3ph Tie [REDACTED]			
				J0P3D - [REDACTED] , New 34.5KV Circuit-Line-C [REDACTED]			
				J0P3F - [REDACTED] Relieve 575-52 [REDACTED]			
				J0V0C - [REDACTED] Circuit Improvemen [REDACTED]			
				J0V76 - [REDACTED] & [REDACTED] 3-PHS TI [REDACTED]			
				J0VTQ - [REDACTED] 3-PHS EXTENSION [REDACTED]			
J0VJS - [REDACTED] dd Tie to [REDACTED]							
J0T3X - [REDACTED] Extension Ph3 [REDACTED]							
J0T3Z - [REDACTED] Recon to [REDACTED]							
J0XKN - [REDACTED] FDR Relief [REDACTED]							

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

Category 1		Category 2		Category 3		Project Detail		2023	5-Year
						JOX09 - [REDACTED] Ph 2		5,957	93,750
				Line Capacity Increases Total					
				Substation Capacity Increases					
				JOPVCO	[REDACTED]	New Cust Sub-Sub-C			
				JOIP4	[REDACTED] - CBM	UPGR 34.5kV-Line-C			
				JOJFD	[REDACTED]	138-12kV-UG-C			
				JOJFO	[REDACTED]	138-12kV - Line - C			
				JOJDS	[REDACTED]	2nd Unit - Line-C			
				JOINC	[REDACTED]	2nd Unit - Line - C			
				JOIND	[REDACTED]	2nd Unit - Line - C			
				JOK677	[REDACTED]	- 34-12 kV Sub - Line-C			
				JOHSE9	[REDACTED]	-Line-C			
				JOIKR	[REDACTED]	2nd Unit - Sub - C			
				JOKP3	[REDACTED]	2nd Unit - Sub - C			
				JOGDS	[REDACTED]	Sub-C			
				JOKSL	[REDACTED]	Sub Upgr - Sub - C			
				JOIJ1	[REDACTED]	- 2nd Unit - Sub - C			
				JOIL1	[REDACTED]	138-12kV - Sub - C			
				JOSBJ	[REDACTED]	Substation-UG-C			
				JOSKL	[REDACTED]	34-12 kV Substation-UG-C			
				JOS9B	[REDACTED]	Substation-Line-C			
				JOSKW	[REDACTED]	34-12 kV Substation-Line-C			
				JOSLO	[REDACTED]	138-12kV - Xmsn-C			
				JOSKC	[REDACTED]	Sub, Upgrade-Line-C			
				JOSKZ	[REDACTED]	Sub Transmission Lines-C			
				JOSJS	[REDACTED]	Pad-mount XFMR-Line-C			
				JOSJW	[REDACTED]	34-12kV Sub-Line-C			
				JOSB5	[REDACTED]	Substation-Sub-C			
				JOSKC	[REDACTED]	34-12 kV Substation-Sub-C			
				JOSK9	[REDACTED]	34-12kV Sub-Sub-C			
				JOSKD	[REDACTED]	34-12kV Sub-PTPR-Sub-C			
				JOK6C	[REDACTED]	Sub Distrib Line-C			
				JOKSH	[REDACTED]	Sub Substation-C			
				JOKS9	[REDACTED]	Bulk Sub-Sub 34kV-C			
				JOSKJ	[REDACTED]	New 34.5-13.8 kV Sub-UG-C			
				JOWC	[REDACTED]	Substation-Line-C			
				JOWC	[REDACTED]	Sub UPGR W Unit-Line-C			
				JOWC	[REDACTED]	New Sub-Line-C			
				JOIKX	[REDACTED]	Sub Line W Unit-Sub-C			
				JOKO9	[REDACTED]	Sub UPGR W Unit-Sub-C			
				JOSK1	[REDACTED]	Sub Upgr Sub-Site-C			
				JOSK7	[REDACTED]	New 34.5-13.8 kV Sub-Sub-C			
				JOTRL	[REDACTED]	-Customer Sub -Sub-C			
				JOVT3	[REDACTED]	New 34.5-13.8 kV Sub-Site-C			
				JOWC1	[REDACTED]	Substation-Sub-C			
				JOWC3	[REDACTED]	New Sub-Sub-C			
				JOWJH	[REDACTED]	New Sub- Site-C			
				JOWMQ	[REDACTED]	Customer Sub - Site- C			
				JOWMR	[REDACTED]	69kV North Bus Upgrade-Sub-C			
				JOWMV	[REDACTED]	-Upgrade XFMR Low-Side			
				JOWAS	[REDACTED]	Customer Sub-34.5kV-Line			
				JOZFC	[REDACTED]	Pad-mount XFMR- Line-C			
				J116F	[REDACTED]	Sub Upgr W unit and Swgr			
				J116J	[REDACTED]	12 kV Upgrade-Line-C			
				JOFTN	[REDACTED]	-2nd Unit 161/34kV			
				JOV4N	[REDACTED]	-12kV Sub-Site-C			
				J11K	[REDACTED]	Substation-Line2-C			
				JOKQE	[REDACTED]	Bulk Sub-Line34-C			
				J116K	[REDACTED]	12 kV Upgrade-Sub			
				Substation Capacity Increases Total				98,208	218,049
				Switches					
				JOIJB	[REDACTED]	Viper SWO			
				JOXVL	[REDACTED]	Upgr			
				JOXPV	[REDACTED]	SWP Upgrade			

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

		\$ - Thousands			
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			J0277 - █████ 34kV Switch █████ UPGR		
		Switches Total		2,172	8,505
		Subtransmission Switch Upgrades	J0NDS - DCD - UPGR 34kV Switches J0R47 - DA █████ UPGR		
		Subtransmission Switch Upgrades Total		1,106	3,952
	Grid Resiliency/Operating Flexibility Total			142,438	528,611
	Smart Grid	Cutout Recloser	J0J18 - DCD - UPGR Trippers & Reclosers		
		Cutout Recloser Total		2,926	19,594
		Distribution Automation	0A317 - DCD - UPGR Line Capacitor Controls 0A318 - DCD - DA Program J0N2M - Telecomm for Overhead J0VHG - DA █████ Swgr Upgr J118K - █████ Mixed APT & Retail-232002		
		Distribution Automation Total		16,271	87,302
		Fault Circuit Indicators	J0JGS - DCD - UPGR Backbone FCIs J0J16 - DCD - UPGR Terminal Pole FCIs		
		Fault Circuit Indicators Total		4,168	26,128
		Fiber/Wireless	J0KWZ - █████ Sub Network Equipment J0M1V - Private LTE MO Metro-UEC J0S16 - PLTE Metro Site █████ J0QKG - MO Urban PLTE 2023 J0V4B - PLTE Metro Site 151-034UG J0SK3 - PLTE Metro Site 151-042 J0W97 - PLTE Metro Site 151-033FR J0W92 - PLTE Metro Site 151-006JF J0W94 - PLTE Metro Site 151-025JF J0W95 - PLTE Metro Site 151-028JF J0W96 - PLTE Metro Site 151-015JF J0W9B - PLTE Metro Fiber 151-007JF J0W9C - PLTE Metro Fiber 151-025JF J0W9P - PLTE Metro Site 151-023JF J0SK2 - PLTE Metro Site 141-002 J0W99 - PLTE Metro Site 141-040NE J0W9G - PLTE Metro Fiber 141-040NE J0SW8 - MO Metro PLTE Backhaul 2023 J0V01 - Modem UPGR J0X1G - PLTE Metro Site 151-011MK J0X1H - PLTE Metro Site 151-036MK J0X1J - PLTE Metro Site 151-038MK J0X1L - PLTE Metro Site 151-001MK J0ZH4 - PLTE Metro Fiber 151-042MK J0ZSH - PLTE Metro Fiber 151-038MK J0ZSW - PLTE Metro Fiber 151-036MK J0ZTX - PLTE Metro Site 151-021MK J0ZGL - PLTE Metro Site 151-026 J0ZSM - PLTE Metro Fiber 151-012GR J0ZSP - PLTE Metro Fiber 151-016GR J0ZT9 - PLTE Metro Site 151-016GR J0ZSR - PLTE Metro Fiber 151-019DT J0ZSS - PLTE Metro Fiber 151-020DT J0ZTC - PLTE Metro Site 151-019DT J0ZTD - PLTE Metro Site 151-020DR J0ZGH - PLTE Metro Site 151-005 J0ZGJ - PLTE Metro Site 131-037 J0ZH3 - PLTE Metro Fiber 151-005BK J0ZT8 - PLTE Metro Site 151-012BR J0X1B - PLTE Metro Site 141-039CH J0X1K - PLTE Metro Site 151-031CH J0ZST - PLTE Metro Fiber 151-022CH J0X1C - PLTE Metro Site 151-008EL J0X1F - PLTE Metro Site 151-009EL J0ZHO - PLTE Metro Fiber 151-009EL		

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		\$ - Thousands			
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			J02H2 - PLTE Metro Fiber 151-008Q J02T7 - PLTE Metro Site 151-004ML J02TF - PLTE Metro Site 151-041EL J0X0D - PLTE Metro Site 151-003FR J02GX - PLTE Metro Fiber 151-003FR J02SV - PLTE Metro Fiber 151-024FR J02TB - PLTE Metro Site 151-017FR J02GK - PLTE Metro Site 141-029 J02H1 - PLTE Metro Fiber 141-039NE J02SN - PLTE Metro Fiber 141-002NE J114Z - MO Private LTE-Rural J1153 - MO Private LTE- Urban J0RW1 - Fiber Projects J11BW - PLTE Metro Site Purchase 151-006JF		
		Fiber/Wireless Total		55,272	244,366
		LED Street Lighting	J09H1 - LED Streetlight Program		
		LED Street Lighting Total		9,953	58,027
		SCADA Upgrades	J01SS - Add Scada J01TV - Add Scada J01SK - Add Scada J01T7 - Add Scada J01ST - Add Scada J01T3 - Add Scada J00GQ - Add Scada J01RV - Switchgear UPGR J01TZ - SWGR UPGR-Sub-C J0K2D - Add Scada-Sub-C		
		SCADA Upgrades Total		2,240	2,240
		Smart Grid Total		90,830	437,657
	Substations - Condition Based Modernization	OCB Upgrades	J0CKL - OCB UPGR Projects J0ISM - OCB - 34KV POS 342 J0WT4 - OCB-U PGR - Xfmr 1 SF6 J0WTS - OCB-U PGR - FDR 875-071 J0X5C - OCB-UPGR - positions 15,17,19 J109X - OCB-UPGR - POS 11, LKSD-72 J109Z - OCB-UPGR - POS 320, MORU-7 J10B1 - OCB-UPGR - 34KV 321 32 J10B2 - OCB-UPGR - POS 2727 012-07 J10B3 - OCB-UPGR - POS 723&780		
		OCB Upgrades Total		4,516	15,254
		Relay Upgrades	J01VH - CBM- Buffalo Sub Upgr Relays J01X1 - Relay Upgr - Swgr J01VV - Relay Upgr - Plant Sub-XFMR W J01WZ - Relay Upgr - 69-161/69kv XFMR J01X3 - Relay Upgr - 34 Sub-XFMR 3 J01X5 - Relay Upgr - Sub J01XC - Relay Upgr - Sub-XFMR 1 J0RTS - Relay Upgrades J01WP - Sub Relay Upgrades J01X9 - Road Sub Relay Upgrades J0X6H - Substation Relay Upgrades J0X6I - Substation Relay Upgrades J02L3 - Sub Relay Upgrades J107S - Sub Relay Upgrades J107T - Sub Relay Upgrades J107V - Sub Relay Upgrades J11BB - Sub Relay Upgrades J11BC - Sub Relay Upgrades 111RD - Sub Relay Upgrades J11J6 - Sub Relay Upgrades J11J7 - Sub Relay Upgrades J11J8 - Sub Relay Upgrades		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

Category 1	Category 2	Category 3	Project Detail	2023	5-Year
		Relay Upgrades Total		4,383	19,405
		Sub/Switchgear Upgrades	0A664 - SWO-Dist Sub-Con Based 0R000 - SWO-DIST. SUBS - T&DD - E63 J0CGS - CBM [REDACTED] Sub Site J0CHG - CBM [REDACTED] Sub-Sub-i J01JC - [REDACTED] - Upgr Xfmr #1 J01FX - CBM [REDACTED] -UG-C J01DV - [REDACTED] Bulk Sub Upgr - UG - C J0CM7 - CBM [REDACTED] Sub-UG-C J08GJ - CBM [REDACTED] SubUG-C J01ML - CBM [REDACTED] - Line - C J08FR - CBM [REDACTED] Sub-Line- J0KPB - [REDACTED] Sub - Line - C J01GH - CBM- UPGR [REDACTED] sub D J0KSN - CBM [REDACTED] - Sub - i J01GJ - CBM-Upgr Mobile E with new mobile J01KS - [REDACTED] Bulk Sub Upgr - Sub - C 24548 - CBM [REDACTED] Sub-Sub-C 28690 - CBM [REDACTED] Site Acq. for New Su J01S6 - CBM [REDACTED] - Sub - C J01SD - [REDACTED] - Add Scada J01F9 - [REDACTED] - Upgr Xfmr #2 J0KSF - [REDACTED] Sub - Sub - C J01J2 - [REDACTED] - Add Scada J01TF - [REDACTED] - Add Scada J01TJ - [REDACTED] - Add Scada J0KSD - [REDACTED] W - Switchgear J0CM4 - CBM [REDACTED] Sub-UG-C J0P2V - CBM [REDACTED] Upgr UG-C J0P00 - CBM [REDACTED] Upgr LINE-C J0P56 - [REDACTED] Xfmr W UPGR J0P57 - [REDACTED] Xfmr W UPGR J0NZJ - CBM [REDACTED] UPGR-UG-C J0P0S - CBM [REDACTED] 110KV Line J0P1N - CBM [REDACTED] Sub Upgr-Sub-C J01WC - CBM [REDACTED] Sub-Sub-C J0P2G - CBM [REDACTED] Sub Upgrade-UG-C J0NWS - CBM [REDACTED] Sub Upgrade-Line-C J0P33 - CBM [REDACTED] Sub Upgrade-Sub-C J0CHM - CBM [REDACTED] Sub-Sub-C J0P37 - CBM [REDACTED] W, Rebuild-Sub-C J0P3G - CBM [REDACTED] Sub, Swgr-Sub-C J0P45 - CBM [REDACTED] Upgrade - Sub - i J0RWP - Telecom for Substations J0S14 - CBM [REDACTED] Sub, Modernize-UG-C J0S1Q - [REDACTED] Bulk Sub Upgrade - Line - C J0SHL - CBM [REDACTED] Sub, Modernize-Sub-C J0G9Q - CBM [REDACTED] SWGR UPGR W-UG-C J0P3X - CBM [REDACTED] Sub Upgrade LINE-C J0CHK - CBM [REDACTED] SWGR UPGR W-Sub- J0P22 - CBM [REDACTED] Sub UPGR Line-C J0P3V - [REDACTED] 1 UPGR J0P3W - [REDACTED] 4 UPGR J0P4F - [REDACTED] 1 UPGR J0P4H - CBM [REDACTED] Sub UPGR Sub-C J0P43 - [REDACTED] 1 UPGR J0P49 - [REDACTED] 3 UPGR J0JXR - CBM [REDACTED] UPGR Swgr 1 J0P40 - CBM [REDACTED] Sub Upgr-SUB-C J0TPX - CBM [REDACTED] Sub-UG-C J0SJK - CBM [REDACTED] UPGR Sub-UG-C J0SJJ - CBM [REDACTED] UPGR Sub-Line-C J0TPW - CBM [REDACTED] Sub-Line-C		

\$ - Thousands

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

S - Thousands

Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			JOCPN - CBM Swgr UGR-Line-C		
			JOCBM - CBM SVG R WLINE-C		
			JOCHL - CBM Swgr UPR-Sub-C		
			JOIG9 - UPGR Bot\$WGRSub-C		
			JOJVO - Add Scad UPGR Swgr		
			JOJ08 - CBM Sub-Sub-C		
			JOJ0F - CBM Swgr UPGR		
			JOJ0H - CBM UPGR Sub-Sub-C		
			JOV5D - CBM Sub-Site		
			JOP35 - CBM sub UPGR W&D Xfms-Sub-C		
			JOP31 - CBM UPGR Sub UG-C		
			JOP18 - CBM Sub UPGR LINE-C		
			JOP53 - CBM Sub UPGR-Sub-C		
			JOP51 - 1 UPGR-Sub-C		
			JOTX9 - UPGR XFMR W SWGR W-UG-C		
			JOZ7B - CBM Sub UPGR SWGR W-UG-C		
			JOZ79 - CBM Sub UPGR Swgr W-OH-C		
			JOXFM - 1 UPGR-Line-C		
			JOVH0 - CBM Sub Upgr-LINE-C		
			JOP4G - Xfmr W UPGR-Sub-C		
			JOXV3 - CBM Sub UPGR Swgr W-Sub-C		
			JOZSQ - CBM Swgr UPGR-Site-C		
			JOJ0N - CBM Sub UPGR-Line-C		
			JOJ0V - CBM Sub UPGR-Sub-C		
			JOJ2F - Add Scada-Sub-C		
			JOP3C - CBM UPGR-Sub-C		
			JOP4W - Swgr UGR-Sub-C		
			JOP2L - CBM WRebuild-UG-C		
			Sub/Switchgear Upgrades Total	82,656	369,824
			Substations - Condition Based Modernization Total	91,555	404,483
			System Hardening		
			Brittle Conductor Upgrades		
			Brittle Conductor Upgrades Total		573
			Subtransmission Upgrades		
			JOJNX - 898075 UPGR		
			JOJNV9 - 71 Recon PH 2		
			JOJ08K - 74 PH 2		
			JOJNTW - 165-56		
			JOJNRD - 77 Improve Circuit Reliab Ph		
			JOJNR0 - 44 Pole UPGR Phase 3		
			JOJNR4 - 9 Phase 3		
			JOJNR1 - 44 Pole UPGR Phase 4		
			JOJNR5 - 9 Phase 4		
			JOJNR6 - 72, Circ UPGR		
			JOJNR7 - 77, Circ UPGR		
			JOJVS9 - 77 & 74 Recon		
			JOJVTR - 73-76 Insulator Upgrade		
			JOJVS8 - 80 & 79 Recon		
			JOJVTS - 75/80, Circ UPGR		
			JOJWHM - 75 UPGR		
			JOJWHN - 7 UPGR		
			JOJVL - 76 UPGR		
			JOJVLS - 75 Static Protection		
			JOJVTP - 76 Circuit Perf Improvement		
			JOJVS8 - 74 Circuit Improvement Ph2		
			JOJWMG - 73 Relocation		
			JOJNRH - 72 34Kv UPGR		
			J1079 - at UPGR		
			J1071 - 71 UPGR		
			J1095 - 70		
			JOJXN9 - 75 UPGR to		
			J1010 - 71 Upgrade - XMSN to		
			JOZQ3 - 71 34KV tap to		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

				\$ - Thousands	
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			J107B - 72 34kV Stormhardening		
			J10B5 - 76 34kV UPGRD		
			J0ZZZ - 72 Upgr Line C		
			Subtransmission Upgrades Total	44,347	252,121
			System Hardening Total	44,347	252,694
	UG Cable Upgrades	OH to UG	23412 - OTU 543-51		
			25571 - OTU NEW FDR		
			23413 - OTU 126-54		
			25319 - OTU 126-54		
			25322 - OTU 126-54		
			J0K64 - OTU 165-56 UG		
			J0K65 - OTU 165-56		
			23316 - OTU 542-53		
			23725 - OTU 542-53		
			24132 - OTU 548-54		
			23374 - OTU 141-8		
			J0WZZ - OTU 259-58		
			J0X00 - OTU 51 2021 COH		
			J0X03 - OTU 729-57		
			J0X04 - OTU 52 2021 COH		
			J0X05 - OTU 8		
			J0X08 - OTU 230-56 UG		
			J0X01 - OTU 54 2021 COH		
			J0X02 - OTU 54 2021 COH		
			J109T - OTU 53		
			J0V4Q - OTU 256-59		
			J0X06 - OTU 139-6 Ph1		
			J0XFF - OTU 103-1		
			OH to UG Total	170	171
		UG Cable Upgrades	0A018 - C-UPGR Program-E46		
			J0IM9 - C-UPGR 633-57, 10130		
			J0SWD - C-UPGR - PILC		
			J0SWL - C-UPGR 317 - PILC		
			J0SWR - C-UPGR 556-54,		
			J0IPV - C-UPGR 203-51,		
			J0IS8 - C-UPGR 543-51		
			J0WZQ - C-UPGR 484-52, LAT-2070		
			J0WZR - C-UPGR 484-52, LAT-2080		
			J0WZS - C-UPGR 282055 Lat 8272		
			J0WZT - C-UPGR 282055 Lat-4793		
			J0WZV - C-UPGR 217051 Lat-16814		
			J0X0C - C-UPGR 555-54		
			J0IQT - C-UPGR 259-58		
			J0ISH - C-UPGR 543-56		
			J0X08 - C-UPGR 252 PILC		
			J0XW9 - C-UPGR 593-53&56 PH3		
			J0Z80 - C-UPGR 291-52		
			J0Z83 - C-UPGR 259-58		
			J0ZGZ - C-UPGR 280-56, Lat 16881		
			J107X - C-UPGR 577-51		
			J1113 - C-UPGR 558-57		
			J1115 - C-UPGR 218-51		
			J0KJ9 - C-UPGR 689-52 P2		
			J0SWC - C-UPGR 251 Fdr, PILC (D)		
			J0SWJ - C-UPGR 026 Fdr- PILC		
			J0SWH - C-UPGR 020_PILC_W&D2 Ph1		
			UG Cable Upgrades Total	51,477	297,159
			UG Cable Upgrades Total	51,647	297,330
	UG Revitalization	Indoor Rooms	J0NBT - Indr Rm		
			J0NBV - Indr Rm		
			J0P4Q - 0A321 Indr Rm		
			J0NBW - Indr Rm		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

		\$ - Thousands			
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
		Indoor Rooms Total		485	3,576
		UG Revitalization	0A321 - 0A321-MDI-Underground Renewal JOGBB - 0A321 - Building Room JOGBK - 0A321 - Conduit JOHP1 - 0A321-490V - XFMR PTO UPGR JOHP3 - 0A321 - NW 7FL-Vault JOLKH - Pilot JOITN - 0A321 -55 - FO-TEMP CAB JOGBG - 0A321 - Ref JOHP2 - 0A321-STL-Ntwk PROT Fiber JO3P6 - 0A321 - Cond JOGB8 - 0A321 - Conduit JOGBF - 0A321 - Ref JOGBH - 0A321 - Reformation JOGBL - 0A321 - Reformation JOHPO - 0A321 - CAB JOJ5Z - 0A321 -Sect Upgr JOJ62 - 0A321 - 216V Grid - XFMR PTO JOJ63 - 0A321 - 216V Grid - XFMR PTO JOJDR - 0A321 - ReRoute Cab JOJDS - 0A321 - ReRoute Cab JOJFQ - 0A321 - ReRoute Cab JOJFS - 0A321 - ReRoute Cab JOJFT - 0A321 - ReRoute Cab JOJF7 - 0A321 - CAB-Sect Upgrade JOJF8 - 0A321 - CAB-Sec Upgr JOJ60 - 0A321 - Prim-CAB-Sect JOJKNL - 0A321 - Prim-CAB-Sect JOJFK - 0A321 - Cond JOJFL - 0A321 - Conduit JOJFP - 0A321 - Conduit JOJFN - 0A321 - XFMR JOJNQ - 0A321 - CAB-Sect Upgr JONBC - 0A321 -Con A1 JOP4P - 0A321 - VLT-XFMR CAB UPGR JOP4R - 0A321 - PILC Upgr JONBD - 0A321 -Con A2 JOJQ9 - 0A321 - UG Loop JORZ3 - 0A321 - DA Controls SWO JOJIZ - 0A321-Spot Network Vault Revi JOVV0 - 0A321 - -51 Reroute & PILC JOVV1 - 0A321 - -56 Reroute & PILC JOVV2 - 0A321 - Diversify JOJFW - 0A321 - Reroute Feeders JOJG6 - 0A321 - Reroute CAB & COND JOJXM - 0A321 - UPGR 220-9 116-7 29-1 JOXS4 - 0A321 - Diversify J10RT - 0A321 - 51 Cable Reroute J10SD - 0A321 - 58 Cable Reroute JOJ61 - 0A321 - Conduit J1130 - Rep J11KB - 0A321 -74-76 UPGR		
		UG Revitalization Total		31,871	160,995
		UG Manhole/Vault	0A669 - UG-MH&VLT Upgr-SWO JOD3N - UG-VLT UPGR JOD4S - UG-MH UPGR JOG2S - UG-MH Upgr JOG2V - UG-VLT Upgr JOH3S - UG-VLT Upgr JOM4H - UG-VLT Upgr JOMP3 - UG-VLT Upgr JOQ0V - UG-MH Upgr JOQ57 - UG-MH Upgr		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

				\$ - Thousands	
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			JORK9 - UG-MH Upgr		
			JORQ2 - UG-MH Upgr		
			JORT6 - UG-MH Upgr		
			JORT7 - UG-MH Upgr		
			JORW8 - UG-MH Upgr		
			JORW9 - UG-MH Upgr		
			JORWB - UG-MH Upgr		
			JORZ8 - UG-MH Upgr		
			JORZ9 - UG-MH Upgr		
			JOS67 - UG-MH U pgr		
			JOS66 - UG-MH U pgr		
			JOT57 - UG-MH Upgr		
			JOTCM - UG-MH Upgr		
			JOTCN - UG-MH Upgr		
			JOTCP - UG-MH Upgr		
			JOTGF - UG-MH Upgr		
			JOTJG - UG-MH Upgr		
			JOTN1 - UG-MH Upgr		
			JOTR1 - UG-MH Upgr		
			JOTTC - UG-MH Upgr		
			JOTZQ - UG-MH Upgr		
			JOV3W - UG-MH Upgr		
			JOV92 - UG-MH Upgr		
			JOV93 - UG-MH Upgr		
			JOV94 - UG-MH Upgr		
			JOV95 - UG-MH Upgr		
			JOW2V - UG-MH Upgr		
			JOW2X - UG-MH Upgr		
			JOWWS - UG-MH Upgr		
			JOVG7 - UG-MH UPGR		
			JOVG8 - UG-MH UPGR		
			JOVG9 - UG-MH UPGR		
			JOX22 - UG-MH Upgr		
			JOXDZ - UG-MH Upgr		
			JOXFO - UG-MH Upgr		
			JOXFW - UG-VLT Upgr		
			JOXKG - UG-MH Upgr		
			JOXPS - UG-MH U pgr		
			JOXR4 - UG-MH U pgr		
			JOZ7F - UG-MH Upgr		
			JOZ97 - UG-VLT Upgr		
			J10NR - UG-MH Upgr		
			J10TL - UG-VLT U pgr		
			J10ZQ - UG-MH U pgr		
			J0D3L - UG-VLT U pgr		
			J0HC1 - UG-VLT Upgr		
			JOV3V - UG-MH Upgr		
			JOV3X - UG-MH Upgr		
			JOV8H - UG-MH Upgr		
		UG Manhole/Vault Total		7,004	39,191
	UG Revitalization Total			39,360	203,762
Smart, Reliable Grid Operations Total				471,837	2,157,686
Smart Meter Program	Smart Meter Program	Smart Meter Program	J0D07 - SMP Elec Meters & Install SWO		
			J0D01 - SMP Ntwk Eqplnst		
			J0D03 - SMP Ntwk Eqplnst		
			J0D04 - SMP Ntwk Eqplnst		
			J0D03 - SMP Ntwk Eqplnst		
			J0DH8 - SMP MkRdy		
			J0DH4 - SMP MkRdy		
			J0D02 - SMP Ntwk Eqplnst		
			J0D0F - SMP Ntwk Eqplnst		
			J0DH5 - SMP MkRdy		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

\$ - Thousands

Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			J0DH9 - SMP [REDACTED] MkRdy J0D05 - SMP [REDACTED] Ntwk Eqplnst J0L2H - SMP [REDACTED] MkRdy J0L2I - SMP [REDACTED] MkRdy J0L2K - SMP [REDACTED] MkRdy J0L2L - SMP [REDACTED] MkRdy J0L2M - SMP [REDACTED] MkRdy J0L2Q - SMP [REDACTED] Ntwk Eqplnst J0D0L - SMP [REDACTED] Eqplnst		
			Smart Meter Program Total	60,929	102,958
			Customer Requirements & Communications		
			J0DWD - SMP Communications		
			Customer Requirements & Communications Total	481	1,040
			Smart Meter Program Total	61,410	103,998
			Smart Meter Program Total	61,410	103,998
Non-Nuclear Generation & Environmental	Grid Performance	Cyber Security Upgrades/New Technologies	J0INJ - [REDACTED] Cybersecurity- Priority 1 J0I8C - [REDACTED] Cybersecurity- Priority 1		
			Cyber Security Upgrades/New Technologies Total	1,502	1,502
			Exciter Upgrades		
			J0509 - J0509 - [REDACTED] U3 Excitation UPGR		
			Exciter Upgrades Total	583	3,755
			Grid Performance Total	2,085	5,257
Non-Nuclear Generation & Environmental Total				2,085	5,257
Nuclear Generation	Grid Performance	Controls Upgrades for Faster Ramp Rates/Lower Minimums	J0FSW - [REDACTED] Digital Feedwater UPGR J0PLL - [REDACTED] XMB01 Exciter XFMR UPGR		
			Controls Upgrades for Faster Ramp Rates/Lower Minimums Total	14	9,619
			Switchyard Breaker/Relay Upgrades		
			J0CW9 - [REDACTED] MA104 SPV Relay UPGR		
			Switchyard Breaker/Relay Upgrades Total	2,955	6,250
			Grid Performance Total	2,969	15,869
Nuclear Generation Total				2,969	15,869
Hydro Generation	Grid Performance	Exciter Upgrades	J0XV1 - [REDACTED] House Units 1&2 Exciter Upgr J025V - [REDACTED] U2 Exciter UPGR J02N0 - [REDACTED] U1 Exciter UPGR		
			Exciter Upgrades Total	3,782	6,828
			GSU Transformer Upgrades		
			J03HN - [REDACTED] U2 GSU XFMR UPGR J0KTB - [REDACTED] U1 GSU XFMR UPGR		
			GSU Transformer Upgrades Total	15,519	26,077
			Switchyard Breaker/Relay Upgrades		
			J0QZ8 - [REDACTED] Main Gen Diff Relay & Tot Upgr J0LR1 - [REDACTED] SWYD Disconnect Switch UPGR		
			Switchyard Breaker/Relay Upgrades Total	368	368
			Grid Performance Total	19,669	33,273
Hydro Generation Total				19,669	33,273
Renewable & Gas Turbine Generation	Grid Performance	Cyber Security Upgrades/New Technologies			
			Cyber Security Upgrades/New Technologies Total		531
			Exciter Upgrades		
			J0KQ2 - CTG [REDACTED] Excitation System UPGR J0KPX - CTG [REDACTED] Excitation System UPGR J0KQ7 - CTG [REDACTED] Excitation Systems UPGR		
			Exciter Upgrades Total	1,900	6,159
			Renewables		
			J0R7H - REC [REDACTED] Facility J0R9J - REC [REDACTED] Land J0RP5 - REC [REDACTED] Facility J0TXT - Solar Facility - [REDACTED] J0X9R - Solar Facility - [REDACTED] J0X9S - Solar Facility - [REDACTED] J0XCN - Solar Facility - [REDACTED] J0ZIG - [REDACTED] REC Interconnection J0ZFH - [REDACTED] REC Interconnection J0ZIJ - [REDACTED] REC Interconnection		
			Renewables Total	25,374	205,301
			Grid Performance Total	27,274	211,991
			Modernization		
			Physical Security Upgrades		
			J10X8 - CTG [REDACTED] Physical Security Upgr J10XH - CTG [REDACTED] Physical Security Upgr		
			Physical Security Upgrades Total	191	421

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

		\$ - Thousands			
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
Renewable & Gas Turbine Generation Total				191	421
Secure & Reliable Transmission				27,465	212,412
	Grid Performance	Line Reliability Improvements			
			JOPVR - J817 (161kV) - Reroute		
			JOQD3 - Reroute		
			JOQ6I - (345kv)-Rebuild		
			JOQVR - Insulators and ABPDs		
			JOP8Z - Line Rebuild		
			JOSLW - Tie In		
			JOH2T - 345kV Line Rblid		
			JOQ79 - DC 345/161 kV Line		
			JOQVW - UPGR Insulators		
			JOTJ4 - Re-Route		
			JOTWff - Reroute to		
			JOTX6 - Line Rebuild 01F		
			JOV2N - Reroute (Scarlet)		
			JOV5F - Rebuild		
			JOG90 - 161kV Line Reroute		
			JOW8J -		
			JOW8L - Reroutes		
			JOH2S - 138 kV RBLD		
			JOW12z - Reroute		
			JOX9D - Lead Line Re-Config		
			JOHBR - 161kV Line Reroute Tra		
			JOXQR - Reroute		
			JOXQS - J976 Reroute		
			JOXQW - J987 Reroute		
			JOXRS - J987 Reroute		
			JDXRF - J987 Reroute		
			JOZ07 - Reroute		
			JOZ08 - Reroute		
			JOZM1 - Tie In		
			JOZM2 - (345kV) Tie In		
			J108P - 161 kV Reroute (J1268)		
			J1094 - 161 kV Reroute (J1268)		
			J10QR - 345 kV Re R J114		
			JOZFP - 161 kV SC Rebuild		
		Line Reliability Improvements Total		54,199	304,827
		Mobile Transformers	J0H64 - Mobile XFMR 345/138kV-UE		
		Mobile Transformers Total		3,989	9,109
			J0H2J - 138kV Ring Bus		
			JOP8X - 161 kV Ring Bus		
			JOP8W - 161 kV Ring Bus		
			JORSB - Tie-In		
			JOSQ5 - 138kV Capacitor bank		
			JOPWP - J817 Network UPGR		
			JOP3P - UPGR		
			JOP3S - UPGR		
			JOQ77 - 345kV Ring Bus		
			JOPWJ - J817 IF Line POS		
			JOTXG5 - Relay Upgrades		
			JOTZV - Ring Bus Comm Equipmen		
			JOVDS - 69kV Terminal Posn		
			JOVX8 -		
			JOVX9 - Tie-In to		
			JOVXB - Line		
			JOVXD - Line		
			JOTM4 - Communication Equipmen		
			JOWLL - Brkr 1 and 4 UPGR		
			JOWT2 - Comm Equip		
			JOWZM - Comm Equipment		
			J0HZK - 7 Tie-In		
			J0TQK - Comm Equipmen		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

Category 1		Category 2		Category 3		Project Detail		2023	5-Year
						J0W1V - Station UPGR			
						J0XCI - Relay Upgrades			
						J0XM6 - Communication Equipment			
						J0XQ6 - 138kV(J994)-Bus Expansion			
						J0XQ7 - (J99)-138kV Line Position			
						J0XQM - (J1107) Reroute			
						J0XQX - (J108) 161 kV IF POS			
						J0XR3 - (J987) 161 kV IF POS			
						J0XR8 - (J1087) Ring Bus			
						J0XRG - (J1107) Ring Bus (NU)			
						J0XRL - - Relay Upgrade (J976)			
						J0XRM - (J1107) Ring Bus Comms			
						J0XRN - (J1087) Ring Bus Comms			
						J0XRS - (J976) - Ring Bus			
						J0XS9 - (J976) 345 kV IF POS			
						J0XSM - (J1107) - IF Position			
						J0XSN - (J1087) - Property Purchase			
						J0XSP - (J1107) Property Purchase			
						J0XSQ - (J976) - Property Purchase			
						J0XTD - 2nd 345kV XFMR			
						J0XTQ - 345kV Bus Upgrade			
						J0XTR - 161kV Cap Bank			
						J0Z1K - Ring Bus Comms			
						J0Z1N - RB Prop Purchas			
						J0Z3C - BAAH Property			
						J0Z3D - Ring Bus			
						J0Z5J - Ring Bus Property Purchase			
						J0Z5K - Ring Bus Tap Property			
						J0Z6T - (J956) IF Position			
						J0Z70 - (J1084) Property Purchase			
						J0Z9Z - BRKR (2)			
						J0ZLZ - (161kV) Aging Infrastruc			
						J0ZS2 - W 161 kV TERM UPGR			
						J109S - 161 kV Comm Equip (J1268)			
						J10QP - 345 kV (J1145) NU Ring Bus			
						J10OO - 345 kV (J1145) IF Position			
						J10QV - 345 kV (J1145) Property XFER			
						J10RF - 345 kV (J1145) COMMEQPI			
						J0XXN - Upgrades			
						J108N - 161 kV Ring Bus NU J1268			
						J10J4 - 161 kV Property Transfer			
						J10QT - 345 kV Relay UPGR (J1145)			
						J11NB - 161kV Ring Bus IF (J1268)			
						Substation Reliability Improvements Total		69,908	718,158
						VAR Compensation			
						J0GXG - Static VAR Sys.			
						J0XCZ - 138kV Statcom			
						J0Z7T - N 161 kV Statcom			
						J0Z7V - N 161 kV Statcom Position			
						J0Z7W - 138 kV Statcom Position			
						J0Z7X - 138 kV Statcom			
						J0Z7Z - Statcom Position			
						J0Z8B - 138 kV Statcom			
						J0ZG5 - 138kV STATCOM TERM ADD			
						VAR Compensation Total		86,238	180,792
						Grid Performance Total		214,334	1,212,886
						Modernization			
						Breaker Upgrades			
						J0J83 - BRKR UPGR BTs 1-2 2-3			
						J0C63 - Circuit Breaker UPGR			
						J0JH0 - XFMR Relay panels&BRKR			
						J0W5LX - Relay UPGR (Pos. W)			
						J0V0P - 112 Line 1/11 PCB BLV UPGR			
						Breaker Upgrades Total		4,153	4,153
						Transformer Upgrades			
						J0HKS - XFMR 1 Upgr w/ Bkr			

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

				\$ - Thousands	
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			J0HK6 - [REDACTED] XFMR 2 Upgr		
			J0J7X - [REDACTED] Sub XFMR-BRK, switch UPGR		
		Transformer Upgrades Total		14,280	31,522
	Modernization Total			18,433	35,675
	Smart Grid	Intelligrid	J0881 - INTG XMSN Lines 1/S 2023-MO		
			J0NMF - INTG Access Med [REDACTED]		
			J0NMS - INTG Access Med [REDACTED]		
			J0Q4V - INTG Access Med Trans MO		
			J0M80 - INTG Access High [REDACTED]		
			J0MB4 - INTG Access High [REDACTED]		
			J0NMD - INTG Access Med [REDACTED]		
			J0N5V - INTG Access Med [REDACTED] 12kV		
			J0N5W - INTG Access Med [REDACTED]		
			J0N5X - INTG Access Med [REDACTED]		
			J0N5Z - INTG Access Med [REDACTED]		
			J0N60 - INTG Access Med [REDACTED]		
			J0N62 - INTG Access Med [REDACTED]		
			J0N65 - INTG Access Med [REDACTED]		
			J0N66 - INTG Access Med [REDACTED]		
			J0N6D - INTG Access Med [REDACTED]		
			J0N6F - INTG Access Med [REDACTED]		
			J0N6P - INTG Access Med [REDACTED]		
			J0N6V - INTG Access Med [REDACTED]		
			J0N6Z - INTG Access Med [REDACTED]		
			J0N75 - INTG Access Med [REDACTED]		
			J0N77 - INTG Access Med [REDACTED]		
			J0N78 - INTG Access Med [REDACTED]		
			J0N8J - INTG Access Med [REDACTED]		
			J0R5S - INTG ACCESS MED [REDACTED] E		
			J0R60 - INTG ACCESS MED [REDACTED]		
			J0RVK - INTG Access Med [REDACTED]		
			J0RVL - INTG Access Med [REDACTED]		
			J0N6M - INTG Access Med [REDACTED]		
			J0NML - INTG Access Med [REDACTED]		
			J0VMS - INTG Access High [REDACTED]		
		Intelligrid Total		4,775	4,775
		Monitoring Upgrades	J0R88 - [REDACTED] - New Tower Lights		
			J0R89 - [REDACTED] - New Tower Lights		
			J0R8D - [REDACTED] - New Tower Lights		
			J0R8F - [REDACTED] - New Tower Lights		
			J0R8G - [REDACTED] - New Tower Lights		
			J0R8H - [REDACTED] - New Tower Lights		
			J0R8J - [REDACTED] - New Tower Lights		
			J0R8K - [REDACTED] - New Tower Lights		
			J0R8L - [REDACTED] - New Tower Lights		
			J0R8Z - [REDACTED] - New Tower Light		
			J0R90 - [REDACTED] - New Tower Lights		
			J0R94 - [REDACTED] - New Tower Lights		
			J0W0N - [REDACTED] Battery Monitoring Sys		
		Monitoring Upgrades Total		3,606	6,142
		Relay Upgrades	J0IGZ - [REDACTED] Relay Upgrs [REDACTED]		
			J0KGR - [REDACTED] Relay UPGR		
			J0IH9 - [REDACTED] Relay Upgrs		
			J0JHD - [REDACTED] Relay Upgrs		
			J0NB2 - [REDACTED] Remote End Work for [REDACTED]		
			J0NB6 - [REDACTED] Remote End Work for [REDACTED]		
			J0NB7 - [REDACTED] Remote End Work for [REDACTED]		
			J06FP - [REDACTED] - add relay requirements		
			J0IGX - [REDACTED] Relay UPGR		
			J0NB8 - [REDACTED] Relay UPGR		
			J0J7X - [REDACTED] Relay UPGR		
			J0TDP - [REDACTED] Bus 1 Upgrades		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

\$ - Thousands

Category 1	Category 2	Category 3	Project Detail	2023	5-Year
			JOTDQ - Be 4 Upgrades JOTDR - Bu 3 Upgrades JOTXR - (161V) Breaker Relay UPGR JOV09 - Line 4 BRKR Relay UPGR JOVFG - 345kV Relay UPGR JOVFH - 345kV Relay UPGR JOWP3 - Relay UPGR (H5) JOWP4 - Relay UPGR (V7) JOWP5 - Relay UPGR (H5) JOVXC - Relays UPGR JOW81 - Relay Upgrade JOW82 - Relay Upgrades JONB3 - Remote End Work JOR6H - Relay UPGR JOR6J - Relay UPGR JOX71 - Relay UPGR (H2) JOX97 - Relay UPGR JOX17 - J1268 (161kV)-IF Line Pos JOXPB - Relay Addition to end JOXQJ - (J1087) Relay Upg ds JOXCZ - Relay Upgrade (J1087) JOXR6 - (J1107) Relay Upgrade JOXR7 - (J1107) Relay Upg. JOZ2C - Relay Upgrade (1976) JOZ5X - Relay UPGR JOZ5Z - Relay Upgrades JOZFH - Relay Upgrades JOZFI - Relay Upgrades J117C - Remote End Work JOTLL - 345 kV RLY UPGR		
		Relay Upgrades Total		8,822	13,881
	Smart Grid Total			17,203	24,798
Secure & Reliable Transmission Total				249,970	1,273,359
Cyber & Technology Upgrades	Customer Support	Customer System Enhancements	JOW41 - AMI Improve IOC Ntwrk Monitor 23UEC JOZWB - Smart Lighting		
		Customer System Enhancements Total		474	3,407
		Intelligrid	JOSLK - ADSS INTG AM UEC NG 3 JOSL5 - INTG AM UEC NG4 JOSLB - INTG AM UEC NG4 CTG JOSLC - INTG AM UEC MO Dist Sites JOSLM - ADSS INTG AM UEC NG4 JOSLQ - INTG AM UEC NG4 & JOBX2 - INTG Acc Med Holdg UEC JOSL4 - INTG AM UEC NG3 JOSM2 - INTG AM UEC NG2 T JOSM3 - INTG AM UEC NG1 D JOSM5 - INTG AM UEC NG2 D		
		Intelligrid Total		5,091	6,542
		Work & Asset Mgmt System Upgrades	JOWF2 - DFE CE - Sub, Relay, XMSN 2023 UEC JOSG7 - DERMS 2022 UEC JOZZM - DFE: Electric Ops - 2023 - UEC JOZQG - Integr. Grid Plan. Solution UEC JOZVV - ADMS SM/LA/DR - 2023 - UEC JOZVZ - ADMS/eADMS Res/DR Impr 23-24 UEC JOZXQ - Mobile OAS Elimination 2023 UEC J1002 - eADMS Tech Refresh 2023 UEC J103C - ADMSSwitching UEC JOZZT - GIS CE Electric - 2023 - UEC JODX2 - ASPIRE P3 E&G UEC JOZXM - F&G Reliab Analytics 2023 UEC J11F8 - ArcFM/Designer - 23 - UEC J11G8 - Grid Ntwrk Model Mgmt HW 2023 UEC		

Ameren Missouri 1 & 5-Year Total Electric Customer-Focused Capital Investment Plan - Grid Modernization Projects

				\$ - Thousands	
Category 1	Category 2	Category 3	Project Detail	2023	5-Year
		Work & Asset Mgmt System Upgrades Total		17,887	114,028
	Customer Support Total			23,452	123,977
	Cyber Security	Cyber Security Upgrades/New Technologies	J0WB1 - Privileged Access Mgt (PAM)-UEC 23 J0ZWF - Intelli/LTE Next Gen Security 23UEC J104M - ██████████ Non CDAs 2023-UEC J11C7 - OT/Protect Endpoint Security 23 UEC J0ZVS - OT IDS UPGR Hdw 2023-UEC		
		Cyber Security Upgrades/New Technologies Total		3,959	42,510
	Cyber Security Total			3,959	42,510
	Foundational Enablers	Analytics & Process Automation			
		Analytics & Process Automation Total			10,789
	Foundational Enablers Total				10,789
	Run The Business	Network & Server Upgrades	J0263 - 22 DA Cellular SmartGrid Resil UEC J1051 - Network Enhance OT Corp WAN 2023 UE		
		Network & Server Upgrades Total		136	3,112
	Run The Business Total			136	3,112
Cyber & Technology Upgrades Total				27,547	180,388
Innovative Opportunities	Electrification Infrastructure	Electrification Infrastructure	J0NL7 - EV Chargers - MO Workplace J0NLF - Electric Equipment J0NLG - EV Transportation - On Road		
		Electrification Infrastructure Total		976	976
	Electrification Infrastructure Total			976	976
	Grid Innovative Technologies	Grid Innovative Technologies	J0GJQ - Distributed Technology Pilots -UEC J0K11 - Distributed Technology Pilots - UEC J0W7Z - UEC Hydrogen Project ██████████ J0Z19 - Fleet Battery Storage J11PP - Radiation Protection Visualization		
		Grid Innovative Technologies Total		2,020	1,756
	Grid Innovative Technologies Total			2,020	1,756
Innovative Opportunities Total				2,996	2,732
Grid Modernization Projects Total				865,948	3,984,974

NOTE: Only 2023 projects are listed.

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

\$ - Thousands

Category 1	Category 2	Category 3	2023	5-Year	
Smart, Reliable Grid Operations	Distribution Operations	Customer Requested	9,951	48,345	
		Emergency Work	16,384	83,533	
		Emergent Business	62,925	288,775	
		Fleet	24,773	122,022	
		General Plant	1,234	6,476	
		Government Relocations	9,720	43,589	
		Reliability & NESC	19,234	105,811	
		Transformers & Tools	34,248	177,246	
		Worst Performing Circuits	1,176	6,791	
		Office Furniture & Fixtures	638	3,219	
		Storms Rebuild	3,422	19,187	
		Circuit Inspection Resulting Work	37,756	161,033	
		UG Inspections Resulting Work	2,039	11,286	
		Device Inspection Resulting Work	662	3,413	
		Street Light Inspection Resulting Work	67	382	
	Distribution Operations Total			224,229	1,081,108
	Grid Resiliency/Operating Flexibility		Line Capacity Increases	8,684	49,119
			Substation Capacity Increases	335	658
			Subtransmission Switch Upgrades	4,138	32,506
	Grid Resiliency/Operating Flexibility Total			13,157	82,283
Substations - Condition Based Modernization		Sub/Switchgear Upgrades	89	89	
		Substation Spill Control	2,995	11,121	
Substations - Condition Based Modernization Total			3,084	11,210	
System Hardening		Brittle Conductor Upgrades	241	241	
		Inaccessible Circuit Relocations		459	
System Hardening Total			241	700	
Smart, Reliable Grid Operations Total			240,711	1,175,301	
Non-Nuclear Generation & Environmental	Grid Performance	GSU Transformer Upgrades		1,551	
	Grid Performance Total			1,551	
	Modernization	Component/Material Upgrades		10,076	60,233
		Controls/Communication Upgrades		7,837	50,585
		Physical Security Upgrades		347	505
	Modernization Total			18,260	111,323
	Regulatory & Facilities	Facility Upgrades		4,477	10,815
		Regulatory Required		51,812	75,792
Regulatory & Facilities Total			56,289	86,607	
Reliability	Component Replacements		35,840	459,992	
Reliability Total			35,840	459,992	
Non-Nuclear Generation & Environmental Total			110,389	659,473	

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

\$ - Thousands

Category 1	Category 2	Category 3	2023	5-Year
Nuclear Generation	Modernization	Component/Material Upgrades	68,126	341,635
		Physical Security Upgrades	524	12,246
	Modernization Total		68,650	353,881
	Regulatory & Facilities	Facility Upgrades	1,063	1,171
		Regulatory Required	23,842	76,407
	Regulatory & Facilities Total		24,905	77,578
	Reliability	Component Replacements	8,097	51,715
Reliability Total		8,097	51,715	
Nuclear Generation Total			101,652	483,174
Hydro Generation	Modernization	Component/Material Upgrades	2,562	15,956
		Controls/Communication Upgrades	5,393	6,280
	Modernization Total		7,955	22,236
	Regulatory & Facilities	Facility Upgrades	5,348	58,825
		Regulatory Required	3,483	3,878
	Regulatory & Facilities Total		8,831	62,703
	Reliability	Component Replacements	11,353	48,520
Reliability Total		11,353	48,520	
Hydro Generation Total			28,139	133,459
Renewable & Gas Turbine Generation	Grid Performance	Renewables	13,113	2,313,180
	Grid Performance Total		13,113	2,313,180
	Modernization	Component/Material Upgrades	2,927	10,199
		Controls/Communication Upgrades	6,532	12,357
		Physical Security Upgrades	184	763
	Modernization Total		9,643	23,319
	Regulatory & Facilities	Facility Upgrades	3,424	4,513
		Regulatory Required	104	219
	Regulatory & Facilities Total		3,528	4,732
	Reliability	Component Replacements	13,596	74,587
Reliability Total		13,596	74,587	
Renewable & Gas Turbine Generation Total			39,880	2,415,818
Secure & Reliable Transmission	Grid Performance	Line Reliability Improvements	10,193	10,193
	Grid Performance Total		10,193	10,193
	Reliability	Condition Based Replacements	17,516	162,925
	Reliability Total		17,516	162,925
	Vehicles, Tools & Other	Vehicles, Tools & Other	6,706	28,141
	Vehicles, Tools & Other Total		6,706	28,141
Secure & Reliable Transmission Total			34,415	201,259

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

\$ - Thousands

Category 1	Category 2	Category 3	2023	5-Year
Cyber & Technology Upgrades	Business & Corp Services	Department System Upgrades	7,377	12,694
		Enterprise System Upgrades	21,607	117,629
	Business & Corp Services Total		28,984	130,323
	Customer Support	Customer System Enhancements	32,380	180,966
		Work & Asset Mgmt System Upgrades	7,693	26,163
	Customer Support Total		40,073	207,129
	Cyber Security	Cyber Security Upgrades/New Technologies	11,355	19,918
	Cyber Security Total		11,355	19,918
	Foundational Enablers	Analytics & Process Automation	23,826	39,580
		New Data Centers & Facility Technologies	504	58,978
		New User Technologies	597	3,503
	Foundational Enablers Total		24,927	102,061
	Run The Business	Network & Server Upgrades	22,049	104,867
	User Technology Upgrades	3,457	15,562	
Run The Business Total		25,506	120,429	
Cyber & Technology Upgrades Total			130,845	579,860
Operational & Customer Support Facilities	Facilities	Facilities	51,851	242,011
	Facilities Total		51,851	242,011
Operational & Customer Support Facilities Total			51,851	242,011
Innovative Opportunities	Electrification Infrastructure	Electrification Infrastructure	262	542
	Electrification Infrastructure Total		262	542
	Other	Other	1,607	7,934
	Other Total		1,607	7,934
Innovative Opportunities Total			1,869	8,476
Ongoing Operations Total			739,751	5,898,831
Grand Total - Grid Modernization Projects + Ongoing Operations			1,605,699	9,883,805

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

Category 1	Category 2	Category 3	Project Detail
Smart, Reliable Grid Operations	Grid Resiliency/Operating Flexibility	Convert 4kV to 12kV	JOP1G - ██████████ 12kV Conversion
			JOP1Q - ██████████ Conversion-Sub-C
			JOSHG - ██████████ 12kV Upgrade
			JOSHD - ██████████ 12kV Upgrade
			JOSHB - ██████████ 12kV Upgrade
			JOSGN - ██████████ 12kV Upgrade
			JOSGT - ██████████ 12kV Upgrade
			JOSGQ - ██████████ 12kV Upgrade
			JOSGR - ██████████ 12kV Upgrade
			JOZ4R - ██████████ 12kV Upgrade
		Substation Capacity Increases	JOJF8 - ██████████ Add Xfmr-UG -C
			JOJ9S - ██████████ Add Xfmr-Line-C
			JOJG8 - ██████████ Add Xfmr - Sub - C
			JOJTT - ██████████ Sub - Upgr Transformers
			JOJS4 - ██████████ Upgr Unit - Sub - C
			JOSKK - ██████████ Sub, Upgrade-UG-C
			JOSKB - ██████████ Sub, Upgrade-Sub-C
			JOWC5 - Upgr ██████████ Sub Units & Swgr
			J116D - ██████████ 69-12kV New Sub
J116L - ██████████ Substation Upgrade			
JOLB5 - ██████████ Sub			
Secure & Reliable Transmission	Grid Performance	Line Reliability Improvements	JOW1W - ██████████ 345kV Line Rebuild - Eas
			JDX2N - ██████████ Easement Acquisitions
		Substation Reliability Improvements	JOG9L - ██████████ Sub Add Line BRKR
			JOHZQ - ██████████ 138kV Ring Bus
			JOHZR - ██████████ RB Line Work
			JORPS - ██████████ XFMR HS Breakers
			JOJ7V - ██████████ Substation Rebuild
			JOW1T - ██████████ 345kV Ring Bus
			JOWMF - ██████████ Aging Infrastructure
			JOXXF - ██████████ Upgrades
J10QW - ██████████ 161 kV Ring Bus ADD			

Missouri Smart Energy Plan
Project Name Acronym Guide

ABPD - Anti-Bird-Perching Device	MER - Meramec Energy Center
ADMS - Ameren Data Mgmt System	MH - Manhole
ADSS - All Dielectric Self-Supporting Cable	MKRDY - Make Ready
AMI - Advanced Metering Infrastructure	MVA - Mega Volt Amps
ARV - Archview Division	MVD - Meramec Valley Division
APT - Apartments	NMD - Northeast MO Division
BRK / BRKR - Breaker	NTWK - Network
BT - Bus Tie	NWG - Network Group
CAB - Cable	OCB - Oil-filled Circuit Breaker
CAL - Callaway	OH - Overhead
CBM - Condition-Based Modernization	OPGW - Optical Ground Wire
CDA - Critical Digital Asset	OT - Operational Technology
CERT - Customers Exceeding Reliability Threshold	OTU - Overhead To Underground
CKT - Circuit	PCB - Power Circuit Breaker
CMD - Central MO Division	PILC - Paper-Insulated Lead-Covered
COMM - Communication	PH - Phase
CON / COND - Conduit	PLTE - Private LTE
CTG - Combustion Turbine Generator	PMU - Phasor Measurement Unit
CTG VEN - Venice CTGs	POS - Position
CTL/CNTL - Control	PQ - Power Quality
C-UPGR - Cable Upgrade	PROT - Protector
DA - Distribution Automation	PTO - Pressure, Temp, Oil Level Monitoring
DAC - Distribution Automation Controller	RBLD - Rebuild
DCD - Distribution Control Dept	REC - Renewable Energy Center
DER - Distributed Energy Resources	RECON - Reconductor
DERMS - DER Management System	RELB - Reliability Upgrade
DFE - Digital Field Experience	RERTE - Re-route
EQPINST - Equipment Installation	RTU - Remote Terminal Unit
EQPT - Equipment	SITE-C - Site Companion Project *
EV - Electric Vehicle	SMP - Smart Meter Program
EXT - Extension	SUB-C - Substation Companion Project *
FCL - Fault Circuit Indicator	SWGR - Switchgear
FDR - Feeder	SWO - Standing Work Order
FO - Fiber Optic	SWPD - Switchpad
GIS - Geographic Information System	SWYD - Switchyard
GOB - General Office Building	SX - Sioux Energy Center
GSU - Generator Step Up	T&DD - Transmission & Distribution Design
GWY - Gateway Division	TDL - Terre Du Lac
HISD - High Side	TEMP - Temperature
HMI - Human Machine Interface	TOU - Time-of-use
I/S - In Service	TRANS/XMSN - Transmission
IF - Interconnection Facility	TS - Taum Sauk Center
INF - Infrastructure	UEC - Union Electric Company
INTG - Intelligrid	UG / UND - Underground
IOC - Integrated Operations Center	UG-C - Underground Companion Project *
KEO - Keokuk Energy Center	UPGR - Upgrade
LBD - Labadie Energy Center	VAR - Volt Amp Reactive
LINE-C - Line Companion Project *	VLT - Vault
LTC - Load Tap Changer	WPC - Worst Performing Circuit
MDI - Missouri Distribution	XFMR - Transformer

*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 industry-wide (e.g., "NERC" = North American Electric Reliability Corporation), or are easily recognized.