

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Bond Contingency - E0009 [ID: 557]

Munis Project Number: E0009

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: No funds will be spent directly from this project. This is an on-going project to allocate bond funds that can be used when other projects do not have sufficient funds due to cost increases or unforeseen events. It is anticipated that funds will be transferred to other projects as needed.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward:

Current Status: Funding For Additional Projects That Develop During Bond Period

**Master Plan:**

**Eligible Funding Sources:** Future Bond Issue

Total Appropriated: 3,053,396

Needs Appropriated: 900,000

Last FY Project Balance: 0

Timing Factors:

**Impact on Operations:**

Task Name	Target Budget	Task Start Date	Task End Date	Completion
<b>Eligible Funding Source</b>				
2006 Ballot	2007	1048000		
2006 Ballot	2009	822400		
2006 Ballot	2010	82996		
2015 Electric Bond	2015	700000		
2015 Electric Bond	2016	400000		
2015 Electric Bond	2020	900000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Commercial Expansion - E0117 [ID: 556]

Munis Project Number: E0117

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: This is an on-going project to install electric lines in new commercial developments.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: 01-16-2014 - On-going project to address commercial development.

Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future funding source

Total Appropriated: 11,100,000

Needs Appropriated: 600,000

Last FY Project Balance: 236,260

Timing Factors: Growth

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	1000000		
Ent Rev	2007	350000		
2006 Ballot	2008	1000000		
Ent Rev	2008	350000		
2006 Ballot	2009	1200000		
2006 Ballot	2010	500000		
Ent Rev	2011	700000		
Ent Rev	2012	600000		
Ent Rev	2013	600000		
Ent Rev	2014	1200000		
Ent Rev	2015	900000		
Ent Rev	2016	900000		
Ent Rev	2017	500000		
Ent Rev	2018	700000		
Ent Rev	2019	600000	4-19-18: reduced from 700k to \$600k	
Ent Rev	2020	600000	4-19-18: reduced from 700k to \$600k	
Ent Rev	2021	600000	4-19-18: reduced from 700k to \$600k	
Ent Rev	2022	800000		
Ent Rev	2023	800000		
Ent Rev	2024	800000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2025	800000	
Ent Rev	2026	800000	
Ent Rev	2027	800000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Distrib. Transformers & Capacitors - E0021 [ID: 559]

Munis Project Number: E0021

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to purchase required transformers and capacitors for electric system expansion and replace existing. Anticipate replacement of 2% of installed kva annually and adding 3% of installed kva annually.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: Citywide

Current Status: On-going project to purchase system transformers and capacitors. Continued funding required which will vary based on replacement requirements and growth patterns.

Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future Bond Funding

Total Appropriated: 12,307,600

Needs Appropriated: 2,400,000

Last FY Project Balance: 458,129

Timing Factors: As needed to match growth.

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	1302000		
Ent Rev	2007	198000		
2006 Ballot	2008	1302000		
2006 Ballot	2009	1604800		
2006 Ballot	2010	1500800		
Ent Rev	2013	600000		
Ent Rev	2014	1200000		
2015 Electric Bond	2015	600000		
Ent Rev	2015	600000		
2015 Electric Bond	2016	800000		
Ent Rev	2018	200000		
PYA 2015 Ballot	2018	800000	Will transfer funds from E0148 and refund when second bond sale occurs	
Ent Rev	2019	0	4-19-18: Reduced from \$200k to \$0	
PYA 2015 Ballot	2019	1600000	Will transfer funds from E0148 and refund when second bond sale occurs	
2015 Electric Bond	2020	2400000	\$2.4 million to be transferred back to E0148 from second bond sale.	
Ent Rev	2020	0	4-19-18: Reduced from \$200k to \$0	
Ent Rev	2021	1000000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2022	1000000	
Ent Rev	2023	1000000	
Ent Rev	2024	1000000	
Ent Rev	2025	1000000	
Ent Rev	2026	1000000	
Ent Rev	2027	1000000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Ent Rev Contingency - E0003 [ID: 1359]

Munis Project Number: E0003

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: No funds will be spent directly from this project. Funds are available for projects that develop during year and hold funds remaining from completed projects that had Enterprise Revenue funding.

Design:

EFR Required: No

Percents for Arts: No

Ward:

Current Status:

Master Plan:

Eligible Funding Sources:

Total Appropriated: 1,850,000

Needs Appropriated: 0

Last FY Project Balance: 461,364

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
Ent Rev	2012	300000	
Ent Rev	2013	800000	
Ent Rev	2014	750000	
Ent Rev	2022	500000	
Ent Rev	2023	500000	
Ent Rev	2024	500000	
Ent Rev	2025	500000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Fiber Optic Cable - E0082 [ID: 560]

Munis Project Number: E0082

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to expand and improve the fiber optic system.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: 3-2-16 Stephen's College needs to sign agreement, Conduit to be installed for Bluebird to Old 63 Cell tower last week of March. Fiber has been pulled into vault. Battle Tower conduit installed and fiber.

Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 1,645,000

Needs Appropriated: 100,000

Last FY Project Balance: 215,501

Timing Factors: As needed to match growth.

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2007	335000		
Ent Rev	2008	50000		
Ent Rev	2009	250000		
Ent Rev	2010	250000		
Ent Rev	2011	80000		
Ent Rev	2012	80000		
Ent Rev	2013	100000		
Ent Rev	2014	100000		
Ent Rev	2016	100000		
Ent Rev	2017	100000		
Ent Rev	2018	100000		
Ent Rev	2019	100000		
Ent Rev	2020	100000		
Ent Rev	2021	100000		
Ent Rev	2022	100000		
Ent Rev	2023	100000		
Ent Rev	2024	100000		
Ent Rev	2025	100000		
Ent Rev	2026	100000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual New Electric Connections - E0053 [ID: 563]

Munis Project Number: E0053

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to install new electric services. Funded annually to meet growth. funds are used for service drops, meters and metering connections.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: Increases expected as economy is recovering.

Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 10,800,000

Needs Appropriated: 750,000

Last FY Project Balance: 350,542

Timing Factors: As needed to match growth.

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	600000		
Ent Rev	2007	400000		
2006 Ballot	2008	600000		
2006 Ballot	2009	600000		
Ent Rev	2009	200000		
2006 Ballot	2010	600000		
Ent Rev	2010	550000		
Ent Rev	2011	600000		
Ent Rev	2012	800000		
Ent Rev	2013	800000		
Ent Rev	2014	800000		
Ent Rev	2015	800000		
Ent Rev	2016	800000		
Ent Rev	2017	900000		
Ent Rev	2018	1000000		
Ent Rev	2019	750000	4-19-18: reduced from \$1m to \$750k	
Ent Rev	2020	750000	4-19-18: reduced from \$1m to \$750k	
Ent Rev	2021	750000	4-19-18: reduced from \$1m to \$750k	
Ent Rev	2022	750000	4-19-18: reduced from \$1m to \$750k	
Ent Rev	2023	750000	4-19-18: reduced from \$1m to \$750k	

<b>Eligible Funding Source</b>	<b>FY</b>	<b>Amount</b>	<b>Comments</b>
Ent Rev	2024	750000	4-19-18: reduced from \$1m to \$750k
Ent Rev	2025	1000000	
Ent Rev	2026	1000000	
Ent Rev	2027	1000000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Relocation of Distribution Lines - E0199 [ID: 1847]

Munis Project Number: E0199

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 05/21/2014

Target End Date: 12/31/1969

Target Budget: 2,400,000

Description: Track costs associated with relocation of electric distribution lines for streets and other projects.

Design:

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status:

Master Plan:

Eligible Funding Sources:

Total Appropriated: 1,000,000

Needs Appropriated: 200,000

Last FY Project Balance: 180,639

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2015	200000		
Ent Rev	2016	200000		
Ent Rev	2017	200000		
Ent Rev	2018	200000		
Ent Rev	2019	200000		
Ent Rev	2020	200000		
Ent Rev	2021	200000		
Ent Rev	2022	200000		
Ent Rev	2023	200000		
Ent Rev	2024	200000		
Ent Rev	2025	200000		
Ent Rev	2026	200000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Replace Circuit Breakers - E0153 [ID: 1109]

Munis Project Number: E0153

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2008

Target End Date: 10/01/2008

Target Budget: 0

Description: Annual project would replace old technology circuit breakers on 69kV and 161kV lines at all substations.

Design:

EFR Required: No

Perents for Arts: No

Ward: Citywide

Current Status: Project to replace old circuit breakers on 69kV and 161kV lines.

Master Plan:

Eligible Funding Sources: Ent Rev

Total Appropriated: 1,500,000

Needs Appropriated: 500,000

Last FY Project Balance: 386,488

Timing Factors: Equipment availability, Funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2009	250000		
Ent Rev	2010	250000		
Ent Rev	2012	250000		
Ent Rev	2013	250000		
PYA 2015 Ballot	2018	250000	Transfer \$250,000 from E0148 and then refund when second bond sale occurs	
PYA 2015 Ballot	2019	250000	Transfer \$250,000 from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	500000	\$500,000 to be transferred back to E0148 when second bond sale occurs	
Ent Rev	2021	250000		
Ent Rev	2022	250000		
Ent Rev	2023	250000		
Ent Rev	2024	250000		
Ent Rev	2025	250000		
Ent Rev	2026	250000		
Ent Rev	2027	250000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Replacement of Existing Overhead - E0118 [ID: 651]

Munis Project Number: E0118

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to replace poles and conductors of existing overhead electric distribution system as needed.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: 06-03-15 From 7-1-14 to 05-01-15 we have replaced 190 poles. 19-30 ft ,45-35 ft, 63-40ft, 36-45ft, 7-50ft, 1-55ft, 5-75ft, 9-80ft, 3-85ft, & 2-90ft

### Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 7,200,000

Needs Appropriated: 500,000

Last FY Project Balance: 475,832

Timing Factors: Identified problems - poles needing replacement, and faults in overhead conductors.

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	300000		
Ent Rev	2008	400000		
Ent Rev	2009	400000		
Ent Rev	2010	300000		
Ent Rev	2012	600000		
Ent Rev	2013	300000		
Ent Rev	2014	700000		
2015 Electric Bond	2015	350000		
Ent Rev	2015	350000		
2015 Electric Bond	2016	600000		
Ent Rev	2017	1000000	Appropriation in May 2017	
PYA 2015 Ballot	2017	600000	Transferred \$600,000 from E0198. Will refund when second bond sale occurs	
Ent Rev	2018	100000		
PYA 2015 Ballot	2018	1200000	Transfer \$1,200,000 from E0198 and then refund when second bond sale occurs	
Ent Rev	2019	0	4-19-18: Reduced from \$600k to \$0	
2015 Electric Bond	2020	0	\$1.8 million to be transferred back to E0198 after second bond sale occurs. 4/18: Moved to FY 2018	
Ent Rev	2020	500000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2021	500000	
Ent Rev	2022	500000	
Ent Rev	2023	600000	
Ent Rev	2024	600000	
Ent Rev	2025	600000	
Ent Rev	2026	600000	
Ent Rev	2027	600000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Replacement of Existing UG System - E0107 [ID: 562]

Munis Project Number: E0107

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to maintain existing underground electric system.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: On-going project for maint. of existing underground electric distribution system.

### Master Plan:

Eligible Funding Sources: Enterprise Revenue and Future Ballot

Total Appropriated: 3,150,000

Needs Appropriated: 800,000

Last FY Project Balance: 282,572

Timing Factors: Failures in existing system and availability of crews.

Impact on Operations: Work is performed because of numerous faults on a line. Replacing problem cable will reduce outages.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	200000		
2006 Ballot	2008	200000		
2006 Ballot	2009	200000		
2006 Ballot	2010	200000		
Ent Rev	2012	200000		
Ent Rev	2013	200000		
Ent Rev	2014	400000		
2015 Electric Bond	2015	250000		
2015 Electric Bond	2016	250000		
Ent Rev	2018	250000		
PYA 2015 Ballot	2018	250000	Transfer \$250,000 from E0148 and then refund when second bond sale occurs	
Ent Rev	2019	50000		
PYA 2015 Ballot	2019	500000	Transfer \$500,000 from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	750000	\$750,000 to be transferred back to E0148 after second bond sale	
Ent Rev	2020	50000		
Ent Rev	2021	200000		
Ent Rev	2022	200000		
Ent Rev	2023	200000		
Ent Rev	2024	200000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2025	200000	
Ent Rev	2026	200000	
Ent Rev	2027	200000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Residential Expansion - E0116 [ID: 564]

Munis Project Number: E0116

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: This is an on-going project to install electric lines in new residential developments.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: This is an on-going project to install electric lines in new residential developments.

Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 9,750,000

Needs Appropriated: 500,000

Last FY Project Balance: 158,856

Timing Factors: Growth

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	1500000		
Ent Rev	2007	750000		
2006 Ballot	2008	1200000		
Ent Rev	2008	500000		
2006 Ballot	2009	1400000		
2006 Ballot	2010	750000		
Ent Rev	2013	600000		
Ent Rev	2014	300000		
Ent Rev	2015	800000		
Ent Rev	2016	600000		
Ent Rev	2017	200000		
Ent Rev	2018	400000		
Ent Rev	2019	750000	4-19-18: Reduced from \$1m to \$750k	
Ent Rev	2020	500000		
Ent Rev	2021	500000		
Ent Rev	2022	500000		
Ent Rev	2023	500000		
Ent Rev	2024	500000		
Ent Rev	2025	500000		
Ent Rev	2026	500000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2027	500000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Street Light Additions - E0052 [ID: 565]

Munis Project Number: E0052

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to replace existing street lights and install requests for new street lights.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: Funds will be transferred to major street light projects when those projects are identified.

Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future Ballot and Unfunded

Total Appropriated: 1,670,000

Needs Appropriated: 50,000

Last FY Project Balance: 171,548

Timing Factors: Replacement needs and number of small requests.

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	200000		
Ent Rev	2008	120000		
2006 Ballot	2009	200000		
Ent Rev	2009	50000		
2006 Ballot	2010	200000		
Ent Rev	2011	200000		
Ent Rev	2012	100000		
Ent Rev	2013	100000		
Ent Rev	2014	200000		
Ent Rev	2016	150000		
Ent Rev	2017	50000		
Ent Rev	2018	50000		
Ent Rev	2019	50000		
Ent Rev	2020	50000		
Ent Rev	2021	50000		
Ent Rev	2022	50000		
Ent Rev	2023	50000		
Ent Rev	2024	50000		
Ent Rev	2025	50000		
Ent Rev	2026	50000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Substation Feeder Additions - E0115 [ID: 566]

Munis Project Number: E0115

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: This is an on-going project to plan major electrical feeders from substations. Once identified, specific projects will be established with the identifier "Substation Feeder". Installation of electric lines for City projects will be done under this project, as will small projects requiring moving existing lines for street and highway projects.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: Citywide

Current Status: 12-17-2013 Distribution meter and relay upgrades at Hinkson Creek

Master Plan:

Eligible Funding Sources: Enterprise Revenue, and Future Ballot

Total Appropriated: 7,012,000

Needs Appropriated: 600,000

Last FY Project Balance: 373,376

Timing Factors: Overload of existing feeders. Changes to streets & highways

Impact on Operations: Incremental impact on operational costs. General growth in system will require additional maintenance with periodic increase in staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	1000000		
2006 Ballot	2008	212000		
2006 Ballot	2009	1050000		
2006 Ballot	2010	1500000		
Ent Rev	2011	400000		
Ent Rev	2012	500000		
Ent Rev	2013	800000		
Ent Rev	2014	800000		
Ent Rev	2015	250000		
Ent Rev	2016	300000		
Ent Rev	2018	100000		
Ent Rev	2019	100000		
Ent Rev	2020	600000		
Ent Rev	2021	600000		
Ent Rev	2022	600000		
Ent Rev	2023	800000		
Ent Rev	2024	800000		
Ent Rev	2025	800000		
Ent Rev	2026	800000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2027	800000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Transmission System Replacement - E0101 [ID: 567]

Munis Project Number: E0101

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to replace the electric transmission system.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: 01-16-2014 - Osmose inspection of transmission line starting in Spring.

### Master Plan:

Eligible Funding Sources: Enterprise Revenue, and Future Ballot

Total Appropriated: 2,700,000

Needs Appropriated: 350,000

Last FY Project Balance: 619,230

Timing Factors: Availability of crews or contractors.

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	250000		
2006 Ballot	2008	250000		
2006 Ballot	2009	250000		
2006 Ballot	2010	250000		
Ent Rev	2012	250000		
Ent Rev	2013	250000		
Ent Rev	2014	600000		
2015 Electric Bond	2015	100000		
2015 Electric Bond	2016	100000		
Ent Rev	2018	50000		
PYA 2015 Ballot	2018	100000	Transfer \$100,000 from E0148 and then refund when second bond sale occurs	
Ent Rev	2019	50000		
PYA 2015 Ballot	2019	200000	Transfer \$200,000 from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	300000	\$300,000 to be transferred back to E0148 after second bond sale	
Ent Rev	2020	50000		
Ent Rev	2021	200000		
Ent Rev	2022	200000		
Ent Rev	2023	200000		
Ent Rev	2024	200000		

Eligible Funding Source	FY	Amount	Comments
Ent Rev	2025	200000	
Ent Rev	2026	200000	
Ent Rev	2027	200000	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Annual Underground Conversion - E0027 [ID: 555]

Munis Project Number: E0027

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 0

Description: On-going project to convert existing overhead system to underground. Most of the funds will be moved to specific projects. Some funds will remain to cover opportunities that come up with development or redevelopment.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: Planning....determine opportunities from development or redevelopment

Master Plan:

Eligible Funding Sources: Enterprise Revenue, and Unfunded

Total Appropriated: 3,950,000

Needs Appropriated: 500,000

Last FY Project Balance: 522,890

Timing Factors: Timing of development and redevelopment projects, needs of identified undergrounding projects.

Impact on Operations: Long-term could reduce maintenance

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2007	800000		
2006 Ballot	2008	200000		
2006 Ballot	2009	101500		
Ent Rev	2009	148500		
Ent Rev	2010	400000		
Ent Rev	2012	600000		
Ent Rev	2013	600000		
Ent Rev	2014	800000		
Ent Rev	2019	300000		
Ent Rev	2020	500000		
Ent Rev	2021	500000		
Ent Rev	2022	500000		
Ent Rev	2023	800000		
Ent Rev	2024	800000		
Ent Rev	2025	800000		
Ent Rev	2026	800000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Distribution Automation - E0200 [ID: 1893]

Munis Project Number: E0200

Project Status: On-going

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2017

Start Date: 10/01/2016

Target End Date: 10/01/2017

Target Budget: 300,000

Description: Pilot program to install and upgrade existing systems and meters as part of a automatic metering infrastructure and associated communications program.

Design:

EFR Required: No

Percents for Arts: No

Ward: 4

Current Status: 9/5/2018 - The IVR hosted environment has been completed. Waiting for integration with the OMS. OMS has been installed and configured in the vendor's location. Installation and configuration on site is scheduled for September, followed by testing. Four capacitor controllers have been ordered to be installed for a proof of concept.

Master Plan:

Eligible Funding Sources: Enterprise

Total Appropriated: 300,000

Needs Appropriated: 0

Last FY Project Balance: 209,775

Timing Factors: Staff Availability

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2016	150000		
Ent Rev	2019	150000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Mercury Vapor Streetlight Replacement - E0182 [ID: 1599]

Munis Project Number: E0182

Project Status: On-going

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2014

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 250,000

Description: Multi-year project to replace remaining Mercury Vapor streetlights in system.

Design:

EFR Required: No

Perents for Arts: No

Ward: Citywide

Current Status: 10-13-2014 - Alternative LED test fixtures ordered.

Master Plan:

Eligible Funding Sources:

Total Appropriated: 250,000

Needs Appropriated: 0

Last FY Project Balance: 178,423

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	100000		
Ent Rev	2018	100000		
Ent Rev	2019	50000	4-19-18: reduced from \$100k to \$50k	

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: MPP Decommissioning - E0208 [ID: 2102]

Munis Project Number: E0208

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 02/05/2018

Target End Date: 02/05/2018

Target Budget: 900,000

Description: Multi-year project to decommission portions of the Municipal Power Plant (MPP) that are no longer in service, including asbestos abatement and removal of out of service equipment.

Design:

EFR Required: No

Percents for Arts: No

Ward:

Current Status: Proposed project

Master Plan:

Eligible Funding Sources:

Total Appropriated: 0

Needs Appropriated: 900,000

Last FY Project Balance: 0

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2019	0	4-19-18: Reduced from \$300k to \$0	
Ent Rev	2020	0	4-19-18: Reduced from \$300k to \$0	
Ent Rev	2021	300000		
Ent Rev	2022	300000		
Ent Rev	2023	300000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Replace Switchgear at Substations - E0189 [ID: 1773]

Munis Project Number: E0189

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2017

Target End Date: 10/01/2018

Target Budget: 0

Description: This project will upgrade switchgear in substations.

Design:

EFR Required: No

Percents for Arts: No

Ward: Citywide

Current Status: 9/5/2018 - Public hearing needs to be scheduled. All materials required for an request for quote have been submitted to purchasing in order to advertise.

Master Plan:

Eligible Funding Sources: Future Bond.

Total Appropriated: 350,000

Needs Appropriated: 350,000

Last FY Project Balance: 350,000

Timing Factors: Funding. Internal Resources.

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
PYA 2015 Ballot	2018	350000	Transfer \$350,000 from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	350000	\$350,000 to be transferred back to E0148 when second bond sale occurs.	
Ent Rev	2022	350000		
Ent Rev	2024	350000		

## ANNUAL

11/01/2018

City of Columbia - CIP

Project Name: Substation Transformer Replacement - E0192 [ID: 1776]

Munis Project Number: E0192

Project Status: On-going

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 11/26/2013

Target End Date: 00/00/0000

Target Budget: 3,900,000

Description: Project to replace substation transformers. Substation transformers can last 40 years; however, they cost in excess of \$500,000 each. This project is to fund periodic replacement of old transformers and to insure one spare is always available.

Design:

EFR Required: No

Perents for Arts: No

Ward:

Current Status: 8/1/2018 - Interested Parties Meeting held on July 29, 2018 to proceed with replacement of Harmony Branch transformer number 2. This project will make use of \$600,000 from the 2015 bond election.

Master Plan:

Eligible Funding Sources:

Total Appropriated: 1,800,000

Needs Appropriated: 600,000

Last FY Project Balance: 729,000

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
<b>Eligible Funding Source</b>				
PYA Ent Rev	2014	600000		
2015 Electric Bond	2015	300000		
2015 Electric Bond	2016	300000		
PYA 2015 Ballot	2019	600000	Transfer \$600,000 from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	600000	Transfer \$600,000 to E0148 and then refund when second bond sale occurs	
Ent Rev	2022	300000		
Ent Rev	2023	300000		
Ent Rev	2024	300000		
Ent Rev	2025	300000		
Ent Rev	2026	300000		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Annual System Relay Upgrade - E0145 [ID: 984]

Munis Project Number: E0145

Project Status: Construction

Department: Electric

Construction/Purchase FY: 0

Design FY: 0

Start Date: 10/01/2012

Target End Date: 10/01/2022

Target Budget: 0

Description: Project to upgrade relays at electric substations.

Design: Internal

EFR Required: No

Percents for Arts: No

Ward: 4,5,6

Current Status: 10/2/2018 - Installation has begun on Bolstad TT2 and T2. Engineering work has also begun for upgrading relays at Harmony Branch.

Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 280,000

Needs Appropriated: 0

Last FY Project Balance: 287,556

Timing Factors: Availability of Materials and Crews

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
Ent Rev	2012	280000	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Boiler 8 Upgrades - E0183 [ID: 1600]

Munis Project Number: E0183

Project Status: Ready to Close

Department: Electric

Construction/Purchase FY: 2016

Design FY: 2014

Start Date: 10/01/2013

Target End Date: 10/31/2017

Target Budget: 2,500,000

Description: Project to upgrade boiler number 8 at the Columbia Power Plant to comply with increased environmental regulation.

Design:

EFR Required: No

Perents for Arts: No

Ward: 1

Current Status: 07-02-2018 - Project complete. Ready to close.

### Master Plan:

Eligible Funding Sources: 2015 ballot

Total Appropriated: 3,900,000

Needs Appropriated: 0

Last FY Project Balance: 9,934

Timing Factors: funding

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	1000000		
2015 Electric Bond	2015	1500000		
2015 Electric Bond	2016	400000		
Ent Rev	2017	1000000	Appropriation in May 2017	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: CEC - Distributed Control Systems - E0186 [ID: 1692]  
Munis Project Number: E0186  
Project Status: Ready to Close  
Department: Electric  
Construction/Purchase FY: 2016  
Design FY: 2014  
Start Date: 10/01/2013  
Target End Date: 11/30/2017  
Target Budget: 2,500,000  
Description: Project to upgrade control systems at Columbia Energy Center

Design:  
EFR Required: No  
Percents for Arts: No  
Ward: 3  
Current Status: 07-02-18. Project complete. Ready to close.

### Master Plan:

Eligible Funding Sources: Enterprise Revenues

Total Appropriated: 2,500,000  
Needs Appropriated: 0  
Last FY Project Balance: 15,556  
Timing Factors: funding

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	1000000		
2015 Electric Bond	2015	1500000		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: College Undergrounding-Univ to Bouchelle - E0179 [ID: 1596]

Munis Project Number: E0179

Project Status: Construction

Department: Electric

Construction/Purchase FY: 2017

Design FY: 2016

Start Date: 10/01/2016

Target End Date: 10/01/2017

Target Budget: 400,000

Description: Project to underground section of College Avenue.

Design:

EFR Required: No

Percents for Arts: No

Ward: 1 & 6

Current Status: 10/03/18 It is possible that some portion of this work in the vicinity of Christian Campus House might be able to be built when classes at MU dismiss for the 2018/2019 Christmas break.

Master Plan:

Eligible Funding Sources: Future ballot

Total Appropriated: 400,000

Needs Appropriated: 0

Last FY Project Balance: 400,001

Timing Factors: funding, weather

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Downtown Streetlights - E0180 [ID: 1597]

Munis Project Number: E0180

Project Status: Construction

Department: Electric

Construction/Purchase FY: 2016

Design FY: 2014

Start Date: 10/01/2013

Target End Date: 10/01/2019

Target Budget: 600,000

Description: Project to Replace Streetlights Downtown

Design:

EFR Required: No

Percents for Arts: No

Ward: 1

Current Status: 10/3/2018 Streetlights have been installed. Communications issues have prevented programming the dimming functionality. A new antenna location is being tested to resolve these communications issues.

Master Plan:

Eligible Funding Sources: Enterprise Revenues

Total Appropriated: 400,000

Needs Appropriated: 0

Last FY Project Balance: 295,608

Timing Factors: funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	100000		
Ent Rev	2016	100000		
Ent Rev	2017	100000		
Ent Rev	2018	100000		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Future Substation Transformer - E0184 [ID: 1601]

Munis Project Number: E0184

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2019

Start Date: 10/01/2017

Target End Date: 09/30/2019

Target Budget: 400,000

Description: Project to install additional transformer as loads dictate.

Design:

EFR Required: No

Percents for Arts: No

Ward: 4

Current Status: Continue to re-evaluate the optimal location for the installation of transformer while funding is accumulating. It is estimated that it will take ~\$1 Million.

Master Plan:

Eligible Funding Sources: Enterprise Revenues & Future Ballot

Total Appropriated: 400,000

Needs Appropriated: 0

Last FY Project Balance: 400,000

Timing Factors: funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	600000		
Ent Rev	2015	-400000	Transfer to EL0187	
Ent Rev	2018	200000		
Ent Rev	2019	0	4-19-18: Reduced from \$200k to \$0	
Ent Rev	2020	0	4-19-18: Reduced from \$200k to \$0	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: More's Lake Restoration - E0204 [ID: 1982]

Munis Project Number: E0204

Project Status: Construction

Department: Electric

Construction/Purchase FY: 2017

Design FY: 2016

Start Date: 10/01/2016

Target End Date: 03/31/2020

Target Budget: 6,300,000

Description: Restoration of More's Lake at the Columbia Municipal Power Plant.

Design:

EFR Required: No

Perents for Arts: No

Ward: 1

Current Status: 10-02-2018 - Work to haul and dispose of coal combustion residuals (CCRs) to the Columbia Landfill is nearly complete with about 88,000 cubic yards hauled and disposed of so far.

Master Plan:

Eligible Funding Sources:

Total Appropriated: 4,300,000

Needs Appropriated: 0

Last FY Project Balance: 1,662,725

Timing Factors: Work must be complete by April 2018 per Coal Combustion Residual regulations.

Impact on Operations: W&L ceased using lake for ash handling in September 2015.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
PYA Ent Rev	2016	300000		
Ent Rev	2017	1000000	Added May 2017	
Ent Rev	2017	1000000	Additional \$1 million appropriation needed in April 2017 - full plan presented to Council	
Ent Rev	2018	2000000		
PYA 2015 Ballot	2018	2000000		
Ent Rev	2019	0	Reduced to 0 to transfer 1,000,000 to E0201 in FY2019	
Ent Rev	2020	0	Reduced to 0 to transfer to 1,000,000 E0201 in FY2020	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: New South Side 161/13.8 Kv Substation - E0121 [ID: 551]

Munis Project Number: E0121

Project Status: Preliminary Design

Department: Electric

Construction/Purchase FY: 2020

Design FY: 2014

Start Date: 10/01/2009

Target End Date: 05/31/2019

Target Budget: 7,000,000

Description: Add a new 161/13.8 Kv substation on the south side of Columbia to better distribute the load at the existing substations due to current and new growth.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: 5 or 6

Current Status: 10/2/2018 - Switchgear has been received and is being stored at the Municipal Power Plant.

Master Plan:

Eligible Funding Sources: 2006 bond issue

Total Appropriated: 7,000,000

Needs Appropriated: 0

Last FY Project Balance: 4,046,462

Timing Factors: Funding, property purchase, weather

Impact on Operations: Additional substation to maintain may require additional staff.

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2006 Ballot	2010	2000000		
2015 Electric Bond	2015	5000000		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Power Plant Substation Upgrades - E0151 [ID: 1056]

Munis Project Number: E0151

Project Status: Preliminary Design

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2016

Start Date: 10/01/2016

Target End Date: 10/01/2019

Target Budget: 1,500,000

Description: Project to address transmission and distribution requirements based on potential retirement of solid fuel units at Municipal Power Plant

Design:

EFR Required: No

Percents for Arts: Yes

Ward: 1

Current Status: 10-02-18 - Project scope of work being developed.

Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future Bond Issue

Total Appropriated: 1,500,000

Needs Appropriated: 0

Last FY Project Balance: 1,500,000

Timing Factors: Funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
2015 Electric Bond	2015	1500000	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Replace Measurement & Data Acquistion Sys - E0159 [ID: 1203]

Munis Project Number: E0159

Project Status: Construction

Department: Electric

Construction/Purchase FY: 2016

Design FY: 2014

Start Date: 10/01/2013

Target End Date: 00/00/0000

Target Budget: 100,000

Description: Project to replace the Measurement and Data Acquisition System at the Power Plant. Common historian system for Municipal Plant and Columbia Energy Center to be procured and installed.

Design:

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: 10-02-2018 - Engineering work has commenced on a Turbine 8 interface with EMS.

Master Plan:

Eligible Funding Sources: Ent Rev

Total Appropriated: 100,000

Needs Appropriated: 0

Last FY Project Balance: 19,923

Timing Factors: Funding, availability of software and hardware

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
Ent Rev	2010	100000	

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Replace UG electric, Keene & Lansing - E0168 [ID: 1391]

Munis Project Number: E0168

Project Status: Construction

Department: Electric

Construction/Purchase FY: 2017

Design FY: 2016

Start Date: 03/16/2011

Target End Date: 04/01/2018

Target Budget: 70,000

Description: Replacement of 1100 feet of old direct burial 200A 3 Phase 13.8KV on Rebel 213 circuit at Lansing & Keene.

Replacement of similar footage of circuit north of the intersection of Berrywood and Portland.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: 10/3/18 The new switch between the white steel poles on the west r/w line of US 63 at the east end of Jacobs Place has been installed. As soon as a new 600A UG riser is built on Green Valley, the new Jacobs Place switch will be opened, separating the heavily loaded RH211 from RH212. RH212 will carry the new Kelly Farms load at Cinnamon Hill. RH211 will continue to serve existing load on E. Broadway toward Boone Hospital.

Work is continuing on Keene & Portland to tap the lightly loaded RH223 circuit to relieve the heavily loaded RH211 & RH222 circuits.

Master Plan:

Eligible Funding Sources: Moved funds from Annual project EL0107

Total Appropriated: 370,000

Needs Appropriated: 0

Last FY Project Balance: 292,005

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2011	70000		
Ent Rev	2018	300000		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Substation Upgrades-Grnstrn & Perche - E0194 [ID: 1838]

Munis Project Number: E0194

Project Status: Preliminary Design

Department: Electric

Construction/Purchase FY: 2020

Design FY: 2015

Start Date: 10/01/2014

Target End Date: 10/01/2016

Target Budget: 1,000,000

Description: This project is to address upgrades required inside substations for new transmission lines. Substations are Grindstone and Perche.

Design:

EFR Required: No

Perents for Arts: No

Ward: 4 & 6

Current Status: 2-22-18 - Because of result of Public Hearing on January 19, 2016 work is to be placed on hold until further notice. Perche Creek Sub requires work to replace 2 circuit switchers that was meant to be completed as a part of this project. This work needs to be scheduled as Perche Creek is being operated with jumpers in place of the two protection elements.

Master Plan:

Eligible Funding Sources: 2015 ballot

Total Appropriated: 1,270,026

Needs Appropriated: 0

Last FY Project Balance: 1,135,864

Timing Factors: funding, weather, council actions

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2015 Electric Bond	2015	1270026		

## CURRENT

11/01/2018

City of Columbia - CIP

Project Name: Truman Solar Feeders - E0205 [ID: 2088]

Munis Project Number: E0205

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2018

Start Date: 02/01/2018

Target End Date: 02/01/2019

Target Budget: 1,450,000

Description: Project to build two 5 MW feeders from Rebel Hill substation to Truman Solar Field.

Design:

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: 10/03/18 A preliminary 13.8KV electric extension work order has been designed for construction on St. Charles Road.

Master Plan:

Eligible Funding Sources: Enterprise Revenue

Total Appropriated: 1,450,000

Needs Appropriated: 0

Last FY Project Balance: 33,584

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2018	50000	Transfer from E0115	
Ent Rev	2019	1400000		

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: Brushwood Lake Road Loop Closure - E0185 [ID: 1602]

Munis Project Number: E0185

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2021

Design FY: 2021

Start Date: 10/01/2021

Target End Date: 10/01/2023

Target Budget: 750,000

Description: Project to extend three phase 13.8KV electric line on Brushwood Lake Road to provide a loop feed to part of the South West service territory.

Design:

EFR Required: No

Perents for Arts: No

Ward: 5 & Outside City

Current Status: This is a project that could be done in the future depending on the ability to get necessary easements.

Master Plan:

Eligible Funding Sources: Future Ballot

Total Appropriated: 0

Needs Appropriated: 750,000

Last FY Project Balance: 0

Timing Factors: funding and completion of Scott Blvd Phase 2 project

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
Unfunded	2021	750000	

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: Landfill Gas Generator #4 - E0175 [ID: 1584]

Munis Project Number: E0175

Project Status: Final Design

Department: Electric

Construction/Purchase FY: 2018

Design FY: 2018

Start Date: 10/01/2017

Target End Date: 09/30/2018

Target Budget: 2,000,000

Description: Project to install last generator in space available at Landfill Gas Generation site.

Design:

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: 10-02-2018 - Results of Renewable Natural Gas Study will determine future schedule of project.

### Master Plan:

Eligible Funding Sources: Enterprise Revenue & 2015 ballot

Total Appropriated: 1,600,000

Needs Appropriated: 1,600,000

Last FY Project Balance: 1,600,000

Timing Factors: Funding, sufficient landfill gas, and authorizing air permit from MDNR.

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
PYA 2015 Ballot	2018	1600000	Transfer \$1.6 million from E0148 and then refund when second bond sale occurs check on this	
PYA 2015 Ballot	2019	1600000	Transfer \$1.6 million from E0148 and then refund when second bond sale occurs	
2015 Electric Bond	2020	1600000	\$1.6 million to be transferred back to E0148 when second bond sale occurs	

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: Mill Creek Sub Transmision Connect to 2 Subs-E0148 [ID: 1050]

Munis Project Number: E0148

Project Status: Preliminary Design

Department: Electric

Construction/Purchase FY: 2020

Design FY: 2011

Start Date: 10/01/2009

Target End Date: 12/31/2019

Target Budget: 20,235,000

Description: Project to build transmission lines for the interconnection of the proposed Mill Creek Substation with Grindstone & Perche Substations

Design: External

EFR Required: No

Perents for Arts: No

Ward: 5 & outside

Current Status: 10/2/2018 - The Integrated Electric Resource and Master Plan Task Force has begun their work on determining the merits of any capital improvement regarding transmission expansion. This is expected to take up to 2 years.

### Master Plan:

Eligible Funding Sources: Enterprise Revenue; Future Ballot

Total Appropriated: 12,325,000

Needs Appropriated: 8,000,000

Last FY Project Balance: 7,262,064

Timing Factors: Funding, Easements, Regulatory Pressure

### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
<b>Eligible Funding Source</b>				
2006 Ballot	2010	750000		
PYA - various	2010	900000		
Ent Rev	2013	675000		
2015 Electric Bond	2015	5000000		
2015 Electric Bond	2016	5000000		
2015 Electric Bond	2018	0	Transfer Bond Funds to Other Projects - \$800,000 to E0021; \$100,000 to E0101; \$250,000 to E0107; \$250,000 to E0153; \$1,600,000 to E0175; \$350,000 to E0189	
2015 Electric Bond	2019	0	Transfer Bond Funds to Other Projects - \$500,000 to E0153; \$1,600,000 to E0175; \$600,000 to E0192	
2015 Electric Bond	2019	0	Transfer Bond Funds to Other Projects - \$1,600,000 to E0021; \$200,000 to E0101; \$500,000 to E0107	
2015 Electric Bond	2020	8000000		

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: Reconfiguration of Substation Feeders-E0201 [ID: 1894]

Munis Project Number: E0201

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2020

Design FY: 2016

Start Date: 10/01/2015

Target End Date: 09/30/2020

Target Budget: 7,150,000

Description: This project is to install new feeders from the new Mill Creek Substation to off-load other substations. Eight existing feeders have been identified were load will be shifted to the new substation.

Design:

EFR Required: No

Perents for Arts: No

Ward: 5

Current Status: 2-22-18 Because of result of Public Hearing on January 19, 2016 work is to be placed on hold until further notice. Some in process contracts being worked to completion or put on hold in an appropriate manner.

Master Plan:

Eligible Funding Sources: 2015 ballot

Total Appropriated: 1,850,000

Needs Appropriated: 5,300,000

Last FY Project Balance: 691,480

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2015 Electric Bond	2015	1400000		
2015 Electric Bond	2016	1450000		
PYA 2015 Ballot	2018	-2000000	To E0204 to be returned in FY2019 & FY2020	
Ent Rev	2019	1000000	From E0204 in FY2019	
2015 Electric Bond	2020	4300000		
Ent Rev	2020	1000000	From E0204 in FY2020	

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: UG Distribution Lines in Trans Corridor - E0198 [ID: 1845]

Munis Project Number: E0198

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2019

Design FY: 2016

Start Date: 10/01/2015

Target End Date: 09/30/2018

Target Budget: 5,000,000

Description: This project is to underground distribution lines in conjunction with the transmission project EL0148.

Design:

EFR Required: No

Percents for Arts: No

Ward: 4, 5 & 6

Current Status: 10/03/18 Plans have been submitted for the widening of Nifong Blvd between Providence Road and Willowcreek Lane. Existing overhead 13.8KV distribution lines on Nifong in the vicinity of Bethel and Forum Blvd are affected by the proposed widening and will need to be relocated. The road project may happen in FY19. A source of funding for the 13.8KV electric relocation work in support of the Nifong widening needs to be identified.

Master Plan:

Eligible Funding Sources: 2015 ballot

Total Appropriated: 700,000

Needs Appropriated: 4,300,000

Last FY Project Balance: 695,569

Timing Factors: funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2015 Electric Bond	2016	2500000		
2015 Electric Bond	2017	-600000	\$600,000 in Bond Funds transferred to E0118 - will be refunded after second sale	
2015 Electric Bond	2018	-1200000	\$1,200,000 in Bond Funds transferred to E0118 - will be refunded after second sale	
2015 Electric Bond	2020	4300000	\$1,800,000 in Bond Funds transferred from E0118 - will be refunded after second sale	

## 1-2 Years

11/01/2018

City of Columbia - CIP

Project Name: Warehouse & Enclosed Equipment Parking - E0176 [ID: 1593]

Munis Project Number: E0176

Project Status: Preliminary Design

Department: Electric

Construction/Purchase FY: 2021

Design FY: 2020

Start Date: 10/01/2019

Target End Date: 09/30/2020

Target Budget: 4,800,000

Description: Project to construct a new storeroom building for water and electric, including enclosed storage for line trucks and other equipment. Cost would be split 20% water and 80% electric.

Design:

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: 02/22/2018 Grissum site is currently being evaluated as a possible location for location of a new warehousing facility.

Master Plan:

Eligible Funding Sources: Enterprise Revenue & Future Ballot

Total Appropriated: 400,000

Needs Appropriated: 4,400,000

Last FY Project Balance: 189,591

Timing Factors: funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2014	400000		
Unfunded	2021	4400000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Black Start Generation at CEC - E0207 [ID: 2100]

Munis Project Number: E0207

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2023

Design FY: 2022

Start Date: 02/05/2018

Target End Date: 02/05/2018

Target Budget: 1,000,000

Description: Install diesel powered generator to provide black start capabilities for the Columbia Energy Center.

Design:

EFR Required: No

Perents for Arts: No

Ward: 3

Current Status: Future project

Master Plan:

Eligible Funding Sources:

Total Appropriated: 0

Needs Appropriated: 1,000,000

Last FY Project Balance: 0

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Future Ballot	2023	1000000		
Eligible Funding Source	FY	Amount	Comments	
Future Ballot	2023	1000000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Black Start Generation at MPP - E0206 [ID: 2101]

Munis Project Number: E0206

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2022

Design FY: 2021

Start Date: 02/05/2018

Target End Date: 02/05/2018

Target Budget: 1,000,000

Description: Install diesel powered generator to provide for black start capabilities at the Municipal Power Plant.

Design:

EFR Required: No

Perents for Arts: No

Ward: 1

Current Status: Future project

Master Plan:

Eligible Funding Sources:

Total Appropriated: 0

Needs Appropriated: 1,000,000

Last FY Project Balance: 0

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Future Ballot	2022	1000000		
Eligible Funding Source	FY	Amount	Comments	
Future Ballot	2022	1000000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Business Loop 70 - Phase 5 Undergrounding - E0140 [ID: 689]

Munis Project Number: E0140

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2022

Design FY: 2021

Start Date: 10/01/2020

Target End Date: 10/01/2022

Target Budget: 2,450,000

Description: Business Loop 70 project to convert 3,600 feet of overhead line to underground between Providence Rd and College Ave.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: 1 & 3

Current Status: Funding targeted for FY 2021

#### Master Plan:

Eligible Funding Sources: Enterprise revenue, Future Ballot

Total Appropriated: 0

Needs Appropriated: 2,450,000

Last FY Project Balance: 0

Timing Factors: Funding, easements, weather, coordination with other utilities (phone, cable)

#### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Unfunded	2022	2450000		
Eligible Funding Source	FY	Amount	Comments	
Unfunded	2022	2450000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Business Loop 70 - Phase 6 Undergrounding - E0141 [ID: 690]

Munis Project Number: E0141

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2023

Design FY: 2022

Start Date: 10/01/2021

Target End Date: 10/01/2023

Target Budget: 1,500,000

Description: Business Loop 70 project to convert overhead line to underground, between College Ave and Power Plant.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: 1 & 3

Current Status: Proposed project

#### Master Plan:

Eligible Funding Sources: Enterprise revenue, Future Ballot

Total Appropriated: 0

Needs Appropriated: 1,500,000

Last FY Project Balance: 0

Timing Factors: Funding, easements, weather

#### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Unfunded	2023	1500000		
Eligible Funding Source	FY	Amount	Comments	
Unfunded	2023	1500000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Extend Hinkson Creek Substation Feeders - E0193 [ID: 1837]

Munis Project Number: E0193

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2022

Design FY: 2020

Start Date: 10/01/2017

Target End Date: 10/01/2020

Target Budget: 10,000,000

Description: Project to extend feeders to overloaded areas as needed. Contingent on completion of new south substation.

Design:

EFR Required: No

Perents for Arts: No

Ward: 5

Current Status: Proposed for FY20. Initial phase to be funded from electric ballot proposal.

Master Plan:

Eligible Funding Sources: Future ballot & 2015 ballot

Total Appropriated: 0

Needs Appropriated: 10,000,000

Last FY Project Balance: 0

Timing Factors:

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Eligible Funding Source	FY	Amount	Comments	
2015 Electric Bond	2020	5000000		
Unfunded	2022	5000000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: McBaine Substation Upgrades - E0196 [ID: 1840]

Munis Project Number: E0196

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2024

Design FY: 2024

Start Date: 10/01/2021

Target End Date: 10/01/2022

Target Budget: 2,500,000

Description: Project to upgrade McBaine Substation to allow connection of transmission line from Mill Creek Substation

Design:

EFR Required: No

Perents for Arts: No

Ward: outside

Current Status: Proposed project

#### Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future Ballot

Total Appropriated: 0

Needs Appropriated: 2,500,000

Last FY Project Balance: 0

Timing Factors: funding

#### Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Unfunded	2024	2500000		
Eligible Funding Source	FY	Amount	Comments	
Unfunded	2024	2500000		

### 3-5 Years

11/01/2018

City of Columbia - CIP

Project Name: Mill Creek & McBaine Interconnection - E0195 [ID: 1839]

Munis Project Number: E0195

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2024

Design FY: 2024

Start Date: 10/01/2021

Target End Date: 10/01/2022

Target Budget: 10,000,000

Description: Third leg of the transmission interconnection project for Mill Creek Substation. This project will connect Mill Creek with McBaine Substation

Design:

EFR Required: No

Perents for Arts: No

Ward: 5 & outside

Current Status: Proposed project

Master Plan:

Eligible Funding Sources: Enterprise Revenue, Future Ballot

Total Appropriated: 0

Needs Appropriated: 10,000,000

Last FY Project Balance: 0

Timing Factors: funding

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
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Eligible Funding Source	FY	Amount	Comments
Unfunded	2024	10000000	

## 6-10 Years

11/01/2018

City of Columbia - CIP

Project Name: Broadway Undergrounding - E0120 [ID: 549]

Munis Project Number: E0120

Project Status: Proposed

Department: Electric

Construction/Purchase FY: 2025

Design FY: 2025

Start Date: 10/02/2008

Target End Date: 09/30/2022

Target Budget: 2,200,000

Description: Conversion of overhead electric distribution line to underground, including underground of secondary services, phone and cable from Garth to West on West Broadway, in conjunction with W. Broadway rehabilitation.

Design: Internal

EFR Required: No

Perents for Arts: No

Ward: 1

Current Status: This project was originally funded at \$2.2 million from 2006 electric bond; however, the planned road project never materialized. Funds have been moved to other high priority projects. This project will be funded from Enterprise Revenue when road project is finalized. Funding shown in FY25 as a place holder.

Master Plan:

Eligible Funding Sources:

Total Appropriated: 0

Needs Appropriated: 2,200,000

Last FY Project Balance: 0

Timing Factors: Timing of road work on Broadway in conjunction with this project.

Impact on Operations:

Task Name	Target Budget	Task Start Date	Task End Date	Completion
Ent Rev	2025	2200000		
Eligible Funding Source	FY	Amount	Comments	
Ent Rev	2025	2200000		

