

Capital
Improvement
Program

FY 2021/22 –
2026/27



**Lincoln
Electric
System**

Project: G:Communications

Description:				Budget Outcome:		Strong and Resilient City	
This project includes various communication projects that are required to enhance customer service and system reliability. These include, but are not limited to, fiber route installations, radio, and other types of communications equipment.				Map ID:		COM300	
				Date Anticipated:		NA	
				Rating:		A	
				Status:		Ongoing	
				Comp Plan Conformity:		Generally Conforms with Plan	

Project Total:	\$ 2,875,000	Prior Appropriations:	\$ 1,350,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 675,000	\$ 100,000	\$ 350,000	\$ 100,000	\$ 300,000	\$ -	\$ 1,525,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: G:Meters

Description:				Budget Outcome:		Innovative and Operationally Excellent	
Annually this project anticipates the purchase of varying electric solid state, programmable utility meters for all classes of LES customers (residential, commercial & industrial).				Map ID:		CSD100	
In 2020 Meter Services (MS) will continue to advance automated meter technology throughout the LES Service Area.				Date Anticipated:		NA	
In years 2021-2024 we will evaluate technology such as a Meter Data Management (MDM) system. This system will need to inter-face with SAP and with Advanced Metering Infrastructure (AMI) devices.				Rating:		A	
				Status:		Ongoing	
				Comp Plan Conformity:		Generally Conforms with Plan	

Project Total:	\$ 34,632,000	Prior Appropriations:	\$ 1,632,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 1,500,000	\$ 1,500,000	\$ -	\$ 33,000,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: T:Misc. Construction/Rebuild

Description:

Smaller, miscellaneous 115,000 volt and 345,000 volt transmission construction and rebuild projects that are of a repetitive nature and occur annually. These projects can be related to new construction, upgrades or rebuilds.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN000
Date Anticipated:	NA
Rating:	B
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 705,000	Prior Appropriations:	\$ 300,000	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 77,000	\$ 79,000	\$ 81,000	\$ 83,000	\$ 85,000	\$ -	\$ 405,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x	x	x	

Project: T:Relocations

Description:

Relocation of existing 115,000 volt and 345,000 volt transmission lines for external projects, as required.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN060
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 815,000	Prior Appropriations:	\$ 240,000	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 105,000	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ -	\$ 575,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x	x	x	

Project: T:Right-of-Way/Easements

Description:

This item provides for purchasing right-of-way (ROW) and easements for transmission lines. Construction damages are also included.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN090
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 1,250,000	Prior Appropriations:	\$ 250,000	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ 1,000,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x	x	x	

Project: T:70th&Bluff - 190th&LittleSaltRd

Description:

Rebuild about 12 miles of 161kV line from the 70th & Bluff Substation to 190th & Little Salt Road. The line was constructed in 1957, and will be 70 years old in 2027 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2027
Rating:	B
Status:	Continued
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 3,652,000	Prior Appropriations:	\$ -	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ -	\$ 412,000	\$ 3,240,000	\$ -	\$ 3,652,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements				x	x		

Project: T: 56th, Q-Everett

Description:

Rebuild 1.4 miles of the existing 115kV Line 5660 between 56th & Everett and 56th & Q substations. The original poles were gas treated and do not have the life expectancy of a typical wood pole. The poles were inspected/tested/treated in late 2012. The existing 115kV line was installed in 1970, will be 55 years old in 2025 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2025
Rating:	B
Status:	Continued
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 1,973,000	Prior Appropriations:	\$ -	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ 130,000	\$ 960,000	\$ 883,000	\$ -	\$ -	\$ 1,973,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements		x	x	x			

Project: T:56th, Garland - Q

Description:

Rebuild 1.3 miles of the existing 115kV Line between 57th & Garland and 56th & Q substations. The original poles were gas treated and do not have the life expectancy of a typical wood pole. The poles were inspected/tested/treated in late 2012. The existing 115kV line was installed in 1969 and 1970, will be 55/56 years old in 2025 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2025
Rating:	B
Status:	Continued
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 1,882,000	Prior Appropriations:	\$ -	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ 130,000	\$ 916,000	\$ 836,000	\$ -	\$ -	\$ 1,882,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements		x	x	x			

Project: T:75th & Bennet - Mark Moore

Description:

Rebuild 12.4 miles of the existing 345kV Line 3503 between 75th & Bennet Road and the Mark Moore substation. The poles were last inspected/tested/treated in late 2012. The original 345 kV line between 75th & Bennet Road and Mark Moore substation was installed in 1971 using wood pole H-frame structures, will be 55 years old in 2026 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2026
Rating:	B
Status:	New
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 8,684,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ -	\$ -	\$ 399,000	\$ 4,759,000	\$ 3,526,000	\$ -	\$ 8,684,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements			x	x	x	

Project: T:Rebuild L1189T

Description:

Rebuild 1.5 miles of the existing 115kV Line 1189T between 56th & Van Dorn and the 115kV three line tap at 56th & Elkcrest. The original poles were gas treated and do not have the life expectancy of a typical wood pole. The poles were inspected/tested/treated in late 2012. The existing 115kV line was installed in 1971, will be 53 years old in 2024 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2024
Rating:	B
Status:	New
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 1,682,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 108,000	\$ 808,000	\$ 766,000	\$ -	\$ -	\$ -	\$ 1,682,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x			

Project: T:Wagener - County Line

Description:

Rebuild 4.7 miles of the existing 345kV Line 3472 between the Wagener Substation and the Lancaster-Cass county line. The 345kV line was installed in 1971 using wood pole H-frame structures and will be 57 years old in 2028 and is reaching the end of its useful life.

Budget Outcome:	Strong and Resilient City
Map ID:	TRN440
Date Anticipated:	12/31/2028
Rating:	B
Status:	New
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 155,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ -	\$ -	\$ -	\$ -	\$ 155,000	\$ -	\$ 155,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements					x	

Project: S:Misc Ongoing Construction

Description:				Budget Outcome:		Strong and Resilient City	
Various construction, rebuild and communication projects that are required to enhance customer service and reliability. This could include equipment replacement, landscaping/visual screening, terminal modifications, or other changes at existing substations.				Map ID:		SUB000	
				Date Anticipated:		N/A	
				Rating:		B	
				Status:		Ongoing	
				Comp Plan Conformity:		Generally Conforms with Plan	
				Project Total:		\$ 3,388,000	
Costs Beyond:							

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 157,000	\$ 160,000	\$ 123,000	\$ 126,000	\$ 129,000	\$ -	\$ 695,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: S:Substation Sites

Description:				Budget Outcome:		Strong and Resilient City	
Purchase land for substation sites as required for supporting continued growth and efficient and safe operation.				Map ID:		SUB090	
				Date Anticipated:		N/A	
				Rating:		B	
				Status:		Ongoing	
				Comp Plan Conformity:		Generally Conforms with Plan	
				Project Total:		\$ 1,231,000	
Costs Beyond:							

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 155,000	\$ 160,000	\$ 165,000	\$ 170,000	\$ 175,000	\$ -	\$ 825,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: S:17th & Holdrege Transformer #2

Description:				Budget Outcome:		Strong and Resilient City	
Add a 115-12kV, 36 MVA transformer and associated switchgear at the existing 17th & Holdrege Substation. This capacity addition will support growth at University of Nebraska (City Campus), research corridor and the Nebraska Innovation Campus.				Map ID:		SUB410	
				Date Anticipated:		12/31/2027	
				Rating:		B	
				Status:		Continued	
				Comp Plan Conformity:		Generally Conforms with Plan	
				Project Total:		\$ 65,000	
Costs Beyond:							

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ -	\$ -	\$ 65,000	\$ -	\$ 65,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements					x		

Project: S:57th & Garland Replace Transformer

Description:		This project will replace an existing 115-12kV transformer (T622) with a new 36 MVA transformer and 12kV switchgear. This project provides replacement of older 115-12kV transformers in accordance with the Substation Transformer Replacement Study.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2023
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 3,302,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 991,000	\$ 2,311,000	\$ -	\$ -	\$ -	\$ -	\$ 3,302,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x					

Project: S:NW56th & Morton Substation

Description:		Add a 115-12kV, 36 MVA transformer and associated switchgear in a new substation at NW 56th & Morton. This substation will support future growth in northwest Lincoln as well as provide contingent support to the NW 70th & Fairfield and NW 12th & Arbor Substations.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB410
				Date Anticipated:	46387
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 2,173,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ -	\$ 97,000	\$ 2,076,000	\$ -	\$ 2,173,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements				x	x		

Project: S:56th & Q Replace Transformer

Description:		This project will replace the existing 115-12kV, 28 MVA transformer (T601) with a new 36 MVA transformer and 12kV switchgear. Transformer T601 was manufactured in 1969, will be 56 years old in 2025. This project provides replacement of older 115-12kV transformers in accordance with the Substation Transformer Replacement Study. It will also provide additional capacity at the 56th & Q Substation.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2025
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 3,413,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ 1,024,000	\$ 2,389,000	\$ -	\$ -	\$ 3,413,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements			x	x			

Project: S:40th & Gertie Replace Transformer

Description:		This project will replace the existing 115-12kV, 28 MVA transformer (T581) with a new 36 MVA transformer and 12kV switchgear. Transformer T581 was manufactured in 1974, will be 50 years old in 2024. This project provides replacement of older 115-12kV transformers in accordance with the Substation Transformer Replacement Study.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2024
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 4,994,000	Prior Appropriations:	\$ 1,015,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 80,000	\$ 1,711,000	\$ 2,188,000	\$ -	\$ -	\$ -	\$ 3,979,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x				

Project: S:70th & Bluff Replace Transformer

Description:		This project recognizes the possibility of replacing the existing 161-115kV, 100 MVA transformer (T691) which was manufactured in 1956, will be 70 years old in 2026 and is the oldest transformer in the system. This transformer provides a connection with the OPPD service area through 161kV Line 1559 which is proposed to be rebuilt in the future. LES will coordinate with OPPD to evaluate the appropriate capacity and timing for the transformer and determine if it should be installed at the 70th & Bluff substation or in a new substation constructed closer to the Lancaster-Saunders County line or inside the OPPD service area.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2027
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 587,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ -	\$ -	\$ 587,000	\$ -	\$ 587,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements					x		

Project: S:84th & Leighton Modifications

Description:		This project upgrades the 115kV and 35kV buses to improve reliability by replacing aging assets such as insulators, disconnect switches, and arresters and optimizing controls and configurations. It will also increase available capacity at the substation by replacing limiting components. Safety and security will be enhanced by improvements to site security and replacement relay equipment.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2022
				Rating:	B
				Status:	Continued
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 1,532,000	Prior Appropriations:	\$ 613,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 919,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 919,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x						

Project: S:105th & Pioneers Substation

Description:		Add a 115-12kV, 36 MVA transformer and associated switchgear in a new substation at 105th & Pioneers. This substation will provide additional capacity to support future growth in southeast Lincoln as well as contingent support to the 91st & Hwy 2 and 81st & Old Cheney Substations.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB000
				Date Anticipated:	12/31/2026
				Rating:	B
				Status:	New
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 7,332,000	Prior Appropriations:	\$ 2,693,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ -	\$ -	\$ 1,392,000	\$ 3,247,000	\$ -	\$ 4,639,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements				x	x		

Project: S:30th & A Replace Transformer

Description:		This project will replace the existing 115/12kV, 45 MVA transformer (T521) with a new 36 MVA transformer and 12kV switchgear. Transformer T521 was manufactured in 1978, and will be 46 years old in 2024. LES assumes an average life of 55 years for power transformers accordance with the Substation Transformer Replacement Study. However, this unit was identified as one of the top 10 transformers to be considered for replacement based on health, system impact, and age in Substation's annual assessment.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2024
				Rating:	B
				Status:	New
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 3,280,000	Prior Appropriations:	\$ -	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ 984,000	\$ 2,296,000	\$ -	\$ -	\$ -	\$ 3,280,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements		x	x				

Project: S:8th & N Replace Transformer

Description:		This project will replace the existing 115/34.5/12kV, 45 MVA transformer (T171) with a new transformer and 12kV switchgear. Transformer size estimated at 36MVA however final size to be determined. Transformer T171 was manufactured in 1978, and will be 44 years old in 2022. LES assumes an average life of 55 years for power transformers in accordance with the Substation Transformer Replacement Study. However, this unit was identified as one of the top 10 transformers to be considered for replacement based on health, system/environment impact, and age in Substation's 2018 assessment.		Budget Outcome:	Strong and Resilient City
				Map ID:	SUB440
				Date Anticipated:	12/31/2022
				Rating:	B
				Status:	New
				Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 3,383,000	Prior Appropriations:	\$ 1,015,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 2,368,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,368,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x						

Project: S:Air Park South

Description:		Budget Outcome:		Strong and Resilient City					
Add a 115-12kV, 36 MVA transformer and associated switchgear in a new substation in the area south/southwest of Air Park bounded by W 48th to W 70th Streets, 'A' to Leighton Streets, near existing LES transmission facilities. This substation will provide additional capacity to support future growth in west Lincoln and Air Park as well as additional contingent capacity for the loss of NW 70th & Fairfield or SW 27th & F Substations. Substation site will need to be acquired in the south & western areas of Lincoln Air Park. Sites to be evaluated include but are not limited to SW 56th & K; 63rd & O; NW 68th & Holdrege.		Map ID:		SUB000					
		Date Anticipated:		12/31/2022					
		Rating:		B					
		Status:		New					
		Comp Plan Conformity:		Generally Conforms with Plan					
		Project Total:		\$ 5,349,000		Prior Appropriations:		\$ 2,693,000	

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 2,656,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,656,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x						

Project: O:Extensions

Description:		Budget Outcome:		Strong and Resilient City					
RESIDENTIAL EXTENSIONS: The residential extension item provides for the addition of primary (12,500 volt) and secondary lines (low voltage) to new residential customers or to existing residential customers for increased load. This item also covers removal of existing overhead facilities when a service is converted to underground. Most new service conductors are installed underground. COMMERCIAL/INDUSTRIAL: A commercial/industrial extension is the addition of primary, secondary, or service facilities to a new customer or to an existing customer for increased load, where the customer is commercial or industrial.		Map ID:		OHD111					
		Date Anticipated:		NA					
		Rating:		A					
		Status:		Ongoing					
		Comp Plan Conformity:		Generally Conforms with Plan					
		Project Total:		\$ 1,603,000		Prior Appropriations:		\$ 658,000	

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 179,000	\$ 184,000	\$ 189,000	\$ 194,000	\$ 199,000	\$ -	\$ 945,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: O:Service Area Adjustments

Description:		Budget Outcome:		Strong and Resilient City					
LES and Norris have entered into a Joint Planning Agreement. The agreement calls for the planning in a Joint Planning Area and the orderly transition of service area from Norris to LES as required to keep all of the City of Lincoln within LES' service area. These adjustments will provide a buffer area around the city limits to allow planning for infrastructure in these areas.		Map ID:		OHD130					
		Date Anticipated:		NA					
		Rating:		C					
		Status:		Ongoing					
		Comp Plan Conformity:		Generally Conforms with Plan					
		Project Total:		\$ 3,103,000		Prior Appropriations:		\$ 1,103,000	

6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 2,000,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements		x			x		

Project: O:Rebuilds

Description:

The rebuild budget item is for replacement or removal of deteriorated (or otherwise obsolete) facilities. Some rebuild work will be associated with new or increased loads. Rebuild work will also be required on joint poles with the telephone company. We will also annually test and treat poles with preservative to extend their life.

Budget Outcome:	Strong and Resilient City
Map ID:	OHD140
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 29,770,000	Prior Appropriations:	\$ 11,887,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 4,047,000	\$ 3,305,000	\$ 3,406,000	\$ 3,509,000	\$ 3,616,000	\$ -	\$ 17,883,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: O:Relocations

Description:

This item provides for the relocation of existing overhead distribution facilities. This item also includes the overhead portion of an overhead-to-underground relocation project. Relocations are generally requested for federal, state, county, or city governmental agencies for road widening, sewer construction, etc. Customers also request relocation work for various projects. An "aid-to-construction", based on non-betterment cost to LES, is usually required for these projects.

Budget Outcome:	Strong and Resilient City
Map ID:	OHD160
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 993,000	Prior Appropriations:	\$ 398,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 113,000	\$ 116,000	\$ 119,000	\$ 122,000	\$ 125,000	\$ -	\$ 595,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: O:Major Circuits

Description:

FEEDERS This budget item provides for ongoing construction of new 12kV and 35kV feeders (main distribution circuits). Reconductoring of existing overhead feeders for capacity requirements and the installation of 600 amp disconnect switches for sectionalizing are also covered by this project. Distribution feeder conductors are economically evaluated including the life-cycle cost of electrical losses. This allows LES to install higher capacity lines with lower electrical losses (lower energy use and reduction of greenhouse gasses) while maintaining lowest overall cost for customers.

CAPACITORS This item provides for the installation of pole-mounted distribution capacitor banks. Capacitors are used for power factor correction on the distribution system. These capacitors provide more economical operation and reduced greenhouse gases by reducing unmetered electric losses in the distribution and transmission system. They also provide needed voltage support at peak load conditions. This item also includes funding to complete the conversion of the existing radio-controlled system and some fixed banks to a new radio-controlled system due to obsolete equipment and lack of support.

Budget Outcome:	Strong and Resilient City
Map ID:	OHD170
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 4,402,000	Prior Appropriations:	\$ 2,762,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 308,000	\$ 318,000	\$ 328,000	\$ 338,000	\$ 348,000	\$ -	\$ 1,640,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: U:Transformers

Description:

Based on projected customer growth, pad-mounted transformers will be purchased each year to serve new load and to replace existing transformers that are damaged or fail in service. Disposal of PCB-contaminated transformers is included in this project. This item also covers the standard installation charge for the new transformers (per FERC accounting). LES plans to remove all PCB-contaminated distribution transformers from the system during this next CIP 6-year period. All distribution transformers are economically evaluated including the life-cycle cost of electrical losses. This allows LES to purchase higher quality transformers with lower electrical losses (lower energy use and reduction of greenhouse gasses) while maintaining lowest overall cost for customers.

Budget Outcome:	Strong and Resilient City
Map ID:	UND101
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 10,407,000	Prior Appropriations:	\$ 3,837,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 1,400,000	\$ 1,236,000	\$ 1,273,000	\$ 1,311,000	\$ 1,350,000	\$ -	\$ 6,570,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: U:Extensions

Description:

RESIDENTIAL EXTENSION: This provides new underground primary, secondary or service additions. Also covered by this budget item are existing customers that request overhead to underground conversions of their electric service or upgrades for increased load.

RESIDENTIAL DEVELOPMENT: This provides primary and secondary extensions to new residential developments and apartment complexes.

COMMERCIAL EXTENSION: This provides for new commercial and industrial customers who require new underground primary, secondary or service installations. Other commercial customers will expand their business and will require upgraded service conductors and transformer capacities.

COMMERCIAL DEVELOPMENT: Newly platted commercial and industrial developments, including small shopping centers and offices are covered in this budget item.

Budget Outcome:	Strong and Resilient City
Map ID:	UND111
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 42,328,000	Prior Appropriations:	\$ 15,695,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 5,017,000	\$ 5,167,000	\$ 5,322,000	\$ 5,481,000	\$ 5,646,000	\$ -	\$ 26,633,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: U:Rebuilds

Description:

This item provides for replacement of existing underground facilities due to age, deterioration, or other operating problems. The identified projects are general system upgrades that will extend the life of existing underground facilities. We recognize that some of our underground cable and equipment is approaching the end of its useful life. We anticipate the increased need to replace deteriorating underground cable and obsolete equipment to maintain adequate reliability levels for our customers. Replacements for some facilities are being installed due to indications that they have reached the end of their service life. Other replacement will be done on an "as required" basis.

Budget Outcome:	Strong and Resilient City
Map ID:	UND140
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 32,898,000	Prior Appropriations:	\$ 20,366,000	Costs Beyond:			
6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 4,545,000	\$ 4,575,000	\$ 1,106,000	\$ 1,137,000	\$ 1,169,000	\$ -	\$ 12,532,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: U:Relocations

Description:

This item provides for the relocation of existing underground distribution facilities. This item also includes the underground portion of an overhead-to-underground relocation project. Relocations are generally requested by federal, state, county, or city governmental agencies for road widening, sewer construction, etc. Other relocation work is requested by customers. An "aid-to-construction", based on non-betterment cost to LES, is usually required for these projects. Typically we will: · Relocate existing overhead and underground lines and associated transformers and equipment for road widening projects, customer requests, and where economical. · Convert to underground about \$1M per year of existing overhead lines and associated transformers and equipment in the discretionary overhead to underground conversion program, but this is increasing to about \$2M per year during the current CIP 6-year window.

Budget Outcome:	Strong and Resilient City
Map ID:	UND160
Date Anticipated:	N/A
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 26,790,000	Prior Appropriations:	\$ 7,854,000	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 2,828,000	\$ 4,490,000	\$ 4,690,000	\$ 3,442,000	\$ 3,486,000	\$ -	\$ 18,936,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x	x	x	

Project: U:Major Circuits

Description:

This project provides for construction of new 12kV and 35kV feeders (main distribution lines) as needed to serve system growth areas. The installation of switchgears on existing feeders is also included in this budget item. Distribution feeder conductors are economically evaluated including the life-cycle cost of electrical losses. This allows LES to install higher capacity lines with lower electrical losses (lower energy use and reduction of greenhouse gasses) while maintaining lowest overall cost for customers.

PADMOUNT CAPACITORS This item provides for the installation of padmounted capacitor banks on the underground distribution system. Capacitors are used for power factor correction on the distribution system. These capacitors provide a more economic operation and reduced greenhouse gases by reducing unmetered electric losses in the distribution and transmission system. They also provide needed voltage support at peak load conditions.

Budget Outcome:	Strong and Resilient City
Map ID:	UND170
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 14,092,000	Prior Appropriations:	\$ 5,758,000	Costs Beyond:	
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6 yr appropriations

Funding Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 2,003,000	\$ 1,547,000	\$ 2,593,000	\$ 1,079,000	\$ 1,112,000	\$ -	\$ 8,334,000

6 yr estimated cost by activity

Activity type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Capital Improvements	x	x	x	x	x	

Project: W:OH Distribution - Waverly

Description: Various overhead distribution projects in Waverly city limits. This includes services for new customers as well as rebuilding existing facilities to maintain a reliable system.				Budget Outcome: Strong and Resilient City	
				Map ID: WAV100	
				Date Anticipated: NA	
				Rating: A	
				Status: Ongoing	
				Comp Plan Conformity: Generally Conforms with Plan	

Project Total:	\$ 128,000	Prior Appropriations:	\$ 48,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ -	\$ 80,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: W:UG Distribution - Waverly

Description: Various underground distribution projects in Waverly city limits. This includes services for new customers as well as rebuilding existing facilities to maintain a reliable system.				Budget Outcome: Strong and Resilient City	
				Map ID: WAV400	
				Date Anticipated: NA	
				Rating: A	
				Status: Ongoing	
				Comp Plan Conformity: Generally Conforms with Plan	

Project Total:	\$ 1,508,000	Prior Appropriations:	\$ 753,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ -	\$ 755,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: W:Street Light - Waverly

Description: Various street light projects in Waverly city limits.				Budget Outcome: Safe and Healthy City	
				Map ID: WAV900	
				Date Anticipated: NA	
				Rating: B	
				Status: Ongoing	
				Comp Plan Conformity: Generally Conforms with Plan	

Project Total:	\$ 88,000	Prior Appropriations:	\$ 33,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ -	\$ 55,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: L:Misc Ongoing Lighting Projects

Description:

SECURITY LIGHTS Security lighting provides for lighting of private property, as requested by customers, for which they are charged a monthly fee.

COUNTY STREET LIGHTS This budget item provides for street light facilities for Lancaster County roads. LES accounts for these facilities separately from City of Lincoln street light facilities.

Budget Outcome:	Safe and Healthy City
Map ID:	STL000
Date Anticipated:	NA
Rating:	B
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 284,000	Prior Appropriations:	\$ 144,000
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Costs Beyond:	
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6 yr appropriations

Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 26,000	\$ 27,000	\$ 28,000	\$ 29,000	\$ 30,000	\$ -	\$ 140,000

6 yr estimated cost by activity

Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Capital Improvements	x	x	x	x	x		

Project: P:Laramie River Station

Description:

This item covers LES' share of anticipated annual capital expenditures for the Laramie River Station (LRS), a three-unit 1670 MW plant. The LRS facility consistently ranks among the lowest cost generating stations in the United States. This performance record is a result of efficient and effective design and the continued review and upgrade of facility systems. The plant's facilities are in good working condition and in compliance with all environmental and other regulatory requirements. The plant just completed installation of the new NOx emissions control systems on all three units. After almost 40 years of operation, the system is beginning to show its age. This fact, coupled with technological advances, is cause for additional investments in the Plant. A number of significant plant improvements are scheduled for the 2020 through 2026 time frame, including upgrades which will improve plant efficiency, reliability, as well as reduce environmental impacts. Major projects include upgrading multiple electrical distribution systems and remediation of coal storage ponds (installing better pond liners).

Budget Outcome:	Strong and Resilient City
Map ID:	POS230
Date Anticipated:	NA
Rating:	A
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 71,500,000	Prior Appropriations:	\$ 33,500,000
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Costs Beyond:	
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6 yr appropriations

Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 7,500,000	\$ 7,500,000	\$ 7,500,000	\$ 7,500,000	\$ 8,000,000	\$ -	\$ 38,000,000

6 yr estimated cost by activity

Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Other Services & Charges	x	x	x	x	x		

Project: P:Walter Scott Energy Center #4

Description:		Ongoing capital investments in LES' newest base load power plant. LES is responsible for a 100 MW (12.76%) share of the WSEC Unit #4 capital investments. WSEC #4 uses a high efficiency, super critical steam boiler design and extensive emissions control systems, which significantly reduces fuel consumption and air emissions, compared to standard coal plant designs. As the plant ages additional investments will be required to maintain plant efficiency, reliability and market economics. Major projects include a waste ash pond closure and control system upgrades.		Budget Outcome: Strong and Resilient City	
		Map ID: POS230		Date Anticipated: NA	
		Rating: A		Status: Ongoing	
		Comp Plan Conformity: Generally Conforms with Plan			

Project Total:	\$ 8,265,000	Prior Appropriations:	\$ 3,240,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 450,000	\$ 1,000,000	\$ 2,500,000	\$ 575,000	\$ 500,000	\$ -	\$ 5,025,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Other Services & Charges	x	x	x	x	x		

Project: P:Local Generation TBGS Environmental, Regulatory & Safety

Description:		This Budget item addresses a variety of projects at the Terry Bundy Generating Station. These plant improvements and upgrades are necessary to maintain operating reliability, efficiency and market economics for these critical generating assets. Budget estimates are based on historical expenditures.		Budget Outcome: Strong and Resilient City	
		Map ID: POS240		Date Anticipated: NA	
		Rating: B		Status: Ongoing	
		Comp Plan Conformity: Generally Conforms with Plan			

Project Total:	\$ 8,786,000	Prior Appropriations:	\$ 7,541,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 225,000	\$ 225,000	\$ 245,000	\$ 250,000	\$ 300,000	\$ -	\$ 1,245,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Other Services & Charges	x	x	x	x	x		

Project: P:Local Generation Rokeby Environmental, Regulatory & Safety

Description:		This Budget item covers a variety of projects at local gas fired power plants: Rokeby Station and 8th & J Street Station. These plant improvements and upgrades are necessary to maintain the operating reliability, efficiency and market economics for these critical generating assets. Budget estimates are based on historical expenditures. The budget also covers the remodel of the Rokeby Generating Station Operations Center which is required to accommodate increased staffing.		Budget Outcome: Strong and Resilient City	
		Map ID: POS240		Date Anticipated: NA	
		Rating: B		Status: Ongoing	
		Comp Plan Conformity: Generally Conforms with Plan			

Project Total:	\$ 8,831,000	Prior Appropriations:	\$ 7,541,000	Costs Beyond:	
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6 yr appropriations							
Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 235,000	\$ 250,000	\$ 255,000	\$ 250,000	\$ 300,000	\$ -	\$ 1,290,000
6 yr estimated cost by activity							
Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Other Services & Charges	x	x	x	x	x		

Project: P:Misc Env.,Safety,Security

Description:

The purpose of this budget item is to provide for unanticipated capital expenditures imposed by regulatory or operational requirements, unplanned equipment upgrades or to address critical safety issues. Based on operating experience in the Southwest Power Pool (SPP) Integrated Market (IM), LES' local generating assets have reached a new level of required performance and availability. With requirements of the SPP Market, it will be critical to maintain these generating assets at a high operational level. Changing environmental regulations and permitting mandates often require unanticipated unit modifications. Physical and cyber security requirements for the sites' and associated control systems have become a significant driver for capital investments. It is anticipated the security mandates from organizations such as NERC, FERC and Homeland Security will only grow in scope.

Budget Outcome:	Strong and Resilient City
Map ID:	POS235
Date Anticipated:	NA
Rating:	B
Status:	Ongoing
Comp Plan Conformity:	Generally Conforms with Plan

Project Total:	\$ 19,725,000	Prior Appropriations:	\$ 3,375,000	Costs Beyond:	
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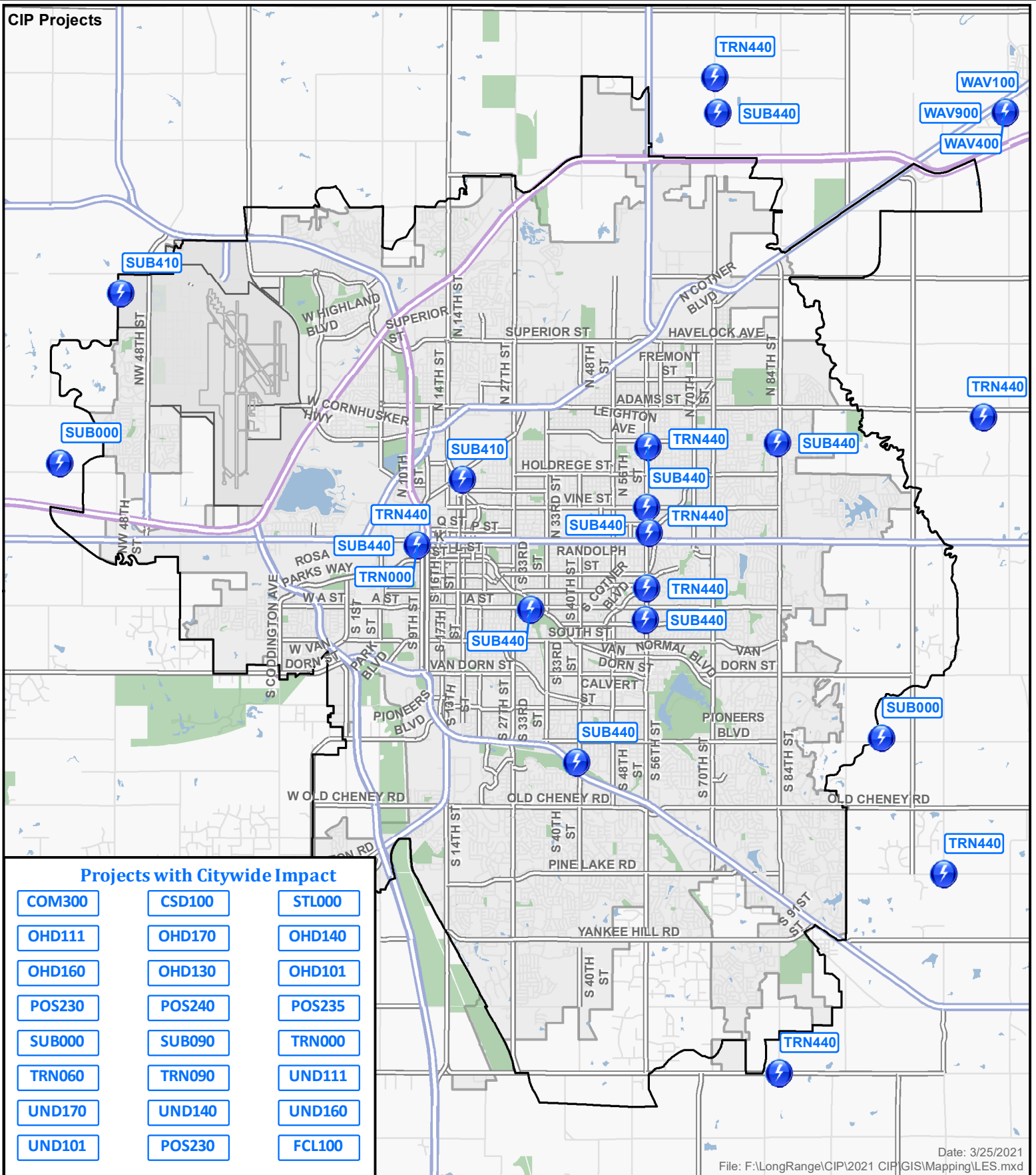
6 yr appropriations

Funding Source	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	<u>6 yr Total</u>
LES Revenue	\$ 2,850,000	\$ 3,100,000	\$ 3,300,000	\$ 3,500,000	\$ 3,600,000	\$ -	\$ 16,350,000

6 yr estimated cost by activity

Activity type	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>2024/2025</u>	<u>2025/2026</u>	<u>2026/2027</u>	
Other Services & Charges	x	x	x	x	x		

Project Title	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
G:Communications	\$ 675,000	\$ 100,000	\$ 350,000	\$ 100,000	\$ 300,000	\$ -	\$ 1,525,000
G:Meters	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 1,500,000	\$ 1,500,000	\$ -	\$ 33,000,000
T:Misc. Construction/Rebuild	\$ 77,000	\$ 79,000	\$ 81,000	\$ 83,000	\$ 85,000	\$ -	\$ 405,000
T:Relocations	\$ 105,000	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ -	\$ 575,000
T:Right-of-Way/Easements	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ 1,000,000
T:70th&Bluff - 190th&LittleSaltRd	\$ -	\$ -	\$ -	\$ 412,000	\$ 3,240,000	\$ -	\$ 3,652,000
T: 56th, Q-Everett	\$ -	\$ 130,000	\$ 960,000	\$ 883,000	\$ -	\$ -	\$ 1,973,000
T:56th, Garland - Q	\$ -	\$ 130,000	\$ 916,000	\$ 836,000	\$ -	\$ -	\$ 1,882,000
T:75th & Bennet - Mark Moore	\$ -	\$ -	\$ 399,000	\$ 4,759,000	\$ 3,526,000	\$ -	\$ 8,684,000
T:Rebuild L1189T	\$ 108,000	\$ 808,000	\$ 766,000	\$ -	\$ -	\$ -	\$ 1,682,000
T:Wagener - County Line	\$ -	\$ -	\$ -	\$ -	\$ 155,000	\$ -	\$ 155,000
S:Misc Ongoing Construction	\$ 157,000	\$ 160,000	\$ 123,000	\$ 126,000	\$ 129,000	\$ -	\$ 695,000
S:Substation Sites	\$ 155,000	\$ 160,000	\$ 165,000	\$ 170,000	\$ 175,000	\$ -	\$ 825,000
S:17th & Holdrege Transformer #2	\$ -	\$ -	\$ -	\$ -	\$ 65,000	\$ -	\$ 65,000
S:57th & Garland Replace Transformer	\$ 991,000	\$ 2,311,000	\$ -	\$ -	\$ -	\$ -	\$ 3,302,000
S:NW56th & Morton Substation	\$ -	\$ -	\$ -	\$ 97,000	\$ 2,076,000	\$ -	\$ 2,173,000
S:56th & Q Replace Transformer	\$ -	\$ -	\$ 1,024,000	\$ 2,389,000	\$ -	\$ -	\$ 3,413,000
S:40th & Gertie Replace Transformer	\$ 80,000	\$ 1,711,000	\$ 2,188,000	\$ -	\$ -	\$ -	\$ 3,979,000
S:56th & Everett Replace Transformer	\$ -	\$ -	\$ 70,000	\$ 1,511,000	\$ 1,932,000	\$ -	\$ 3,513,000
S:70th & Bluff Replace Transformer	\$ -	\$ -	\$ -	\$ -	\$ 587,000	\$ -	\$ 587,000
S:84th & Leighton Modifications	\$ 919,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 919,000
S:105th & Pioneers Substation	\$ -	\$ -	\$ -	\$ 1,392,000	\$ 3,247,000	\$ -	\$ 4,639,000
S:30th & A Replace Transformer	\$ -	\$ 984,000	\$ 2,296,000	\$ -	\$ -	\$ -	\$ 3,280,000
S:8th & N Replace Transformer	\$ 2,368,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,368,000
S:Air Park South	\$ 2,656,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,656,000
O:Transformers	\$ 400,000	\$ 250,000	\$ 258,000	\$ 266,000	\$ 274,000	\$ -	\$ 1,448,000
O:Extensions	\$ 179,000	\$ 184,000	\$ 189,000	\$ 194,000	\$ 199,000	\$ -	\$ 945,000
O:Service Area Adjustments	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 2,000,000
O:Rebuilds	\$ 4,047,000	\$ 3,305,000	\$ 3,406,000	\$ 3,509,000	\$ 3,616,000	\$ -	\$ 17,883,000
O:Relocations	\$ 113,000	\$ 116,000	\$ 119,000	\$ 122,000	\$ 125,000	\$ -	\$ 595,000
O:Major Circuits	\$ 308,000	\$ 318,000	\$ 328,000	\$ 338,000	\$ 348,000	\$ -	\$ 1,640,000
U:Transformers	\$ 1,400,000	\$ 1,236,000	\$ 1,273,000	\$ 1,311,000	\$ 1,350,000	\$ -	\$ 6,570,000
U:Extensions	\$ 5,017,000	\$ 5,167,000	\$ 5,322,000	\$ 5,481,000	\$ 5,646,000	\$ -	\$ 26,633,000
U:Rebuilds	\$ 4,545,000	\$ 4,575,000	\$ 1,106,000	\$ 1,137,000	\$ 1,169,000	\$ -	\$ 12,532,000
U:Relocations	\$ 2,828,000	\$ 4,490,000	\$ 4,690,000	\$ 3,442,000	\$ 3,486,000	\$ -	\$ 18,936,000
U:Major Circuits	\$ 2,003,000	\$ 1,547,000	\$ 2,593,000	\$ 1,079,000	\$ 1,112,000	\$ -	\$ 8,334,000
W:OH Distribution - Waverly	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ -	\$ 80,000
W:UG Distribution - Waverly	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ -	\$ 755,000
W:Street Light - Waverly	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ -	\$ 55,000
L:Misc Ongoing Lighting Projects	\$ 26,000	\$ 27,000	\$ 28,000	\$ 29,000	\$ 30,000	\$ -	\$ 140,000
P:Laramie River Station	\$ 7,500,000	\$ 7,500,000	\$ 7,500,000	\$ 7,500,000	\$ 8,000,000	\$ -	\$ 38,000,000
P:Walter Scott Energy Center #4	\$ 450,000	\$ 1,000,000	\$ 2,500,000	\$ 575,000	\$ 500,000	\$ -	\$ 5,025,000
P:Local Generation TBGS Environmental, Regulatory & Safety	\$ 225,000	\$ 225,000	\$ 245,000	\$ 250,000	\$ 300,000	\$ -	\$ 1,245,000
P:Local Generation Rokeby Environmental, Regulatory & Safety	\$ 235,000	\$ 250,000	\$ 255,000	\$ 250,000	\$ 300,000	\$ -	\$ 1,290,000
P:Misc Env.,Safety,Security	\$ 2,850,000	\$ 3,100,000	\$ 3,300,000	\$ 3,500,000	\$ 3,600,000	\$ -	\$ 16,350,000
Departmental Totals:	\$ 50,795,000	\$ 51,351,000	\$ 52,943,000	\$ 43,739,000	\$ 48,575,000	\$ -	\$ 247,403,000
Fund Source	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	6 yr Total
LES Revenue	\$ 50,795,000	\$ 51,351,000	\$ 52,943,000	\$ 43,739,000	\$ 48,575,000	\$ -	\$ 247,403,000
Fund Source Totals	\$ 50,795,000	\$ 51,351,000	\$ 52,943,000	\$ 43,739,000	\$ 48,575,000	\$ -	\$ 247,403,000



Projects with Citywide Impact

COM300	CSD100	STL000
OHD111	OHD170	OHD140
OHD160	OHD130	OHD101
POS230	POS240	POS235
SUB000	SUB090	TRN000
TRN060	TRN090	UND111
UND170	UND140	UND160
UND101	POS230	FCL100

Date: 3/25/2021
File: F:\LongRange\CIP\2021 CIP\GISMapping\LES.mxd

Lincoln Electric System



Project Locations

Lincoln's Future Service Limit
Shown as Black Outline

**Lincoln CIP
2021 - 2027**

Consult the detailed project descriptions
and funding summary for further information.

