

ELECTRIC PROGRAM

The Electric Program is administered by the Utilities Department. The program is designed to achieve five primary strategic objectives:

- 1) Replace and/or rehabilitate aging infrastructure;
- 2) Maintain or increase system reliability;
- 3) Improve system efficiency;
- 4) Address system growth; and
- 5) Regulatory compliance.

The City owns and maintains the electric distribution system within the City limits. The electrical system consists of 205 miles of primary lines; 15,150 electric meters, 6 electric substations, and 31 diesel generators that are used to reduce electric costs in the City. The annual peak electric load is 140 megawatts (MW).

PRIOR YEAR ACCOMPLISHMENTS

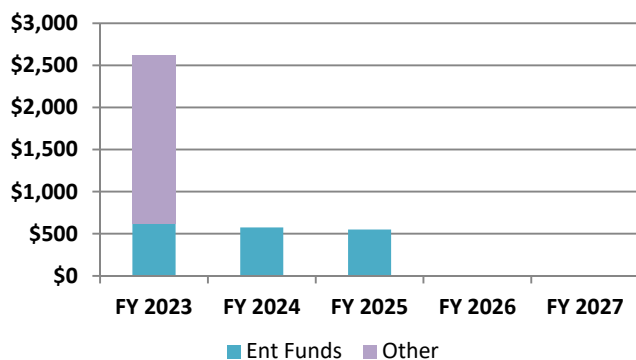
The Electric Program is investing every year in ongoing projects to maintain and upgrade the electrical distribution infrastructure Transmission & Distribution Maintenance (E-030), and Substation Capacity/Reliability Improvements (E-037). The ongoing project placing Overhead Lines Underground (E-033) completed work on Jefferson Street, School Street, Lincoln Ave, and Old Wellington Road.

The spending on maintenance and upgrades of the electrical distribution directly contributes to the City's excellent power service availability of 99.99%. This translates to less than 52 minutes of outage time for the average consumer in a year.

THE FIVE-YEAR PLAN (FY 2023 – FY 2027)

The FY 2023 Five-Year Capital Improvement Program (CIP) includes a \$1,750,000 transfer from the Electric Fund and \$2,000,000 in Other Sources.

FY 2023 funding consists of a \$625,000 transfer from the Electric Fund and \$2,000,000 in Other Sources.



(Dollars in Thousands)

FY 2023 CAPITAL PROJECTS

LED Streetlight Replacement (E-034)

Upgrade all Manassas City streetlights (approximately 2,800) to LED over seven years.

Manassas Airport Distribution Improvements (E-035)

Develop an electrical infrastructure replacement and upgrade plan at the Airport to include adding switching options for redundancy and upgrade of backup generation.

FY 2023 MAINTENANCE CAPITAL PROJECTS

Transmission & Distribution Maintenance (E-030)

Replace cables and terminations on Trinity Lane and Corey Drive.



Place Overhead Lines Underground (E-033)

Relocation of utility services underground along Sudley Road (southside).

Substation Capacity/Reliability Improvements (E-037)

Perform major maintenance and capacity improvements to the four City-owned distribution substations.

Circuit Automation (E-038)

Improve reliability and switching operations by replacing manual switches with automatically operated devices.

NEW CAPITAL PROJECTS

- Lockheed Substation Relocation/Upgrade (E-042)

ELECTRIC CAPITAL PROJECT LISTING

(\$ in Thousands)

Project Name	Prior Years	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Future	Total Project	5-Year CIP
New Fiber Optic Loop/Ri	505	-	-	-	-	-	-	505	-
LED Streetlight Replace	575	125	125	100	-	-	-	925	350
Manassas Airport Distrib	875	450	450	-	-	-	-	1,775	900
Distribution Facility Relo	-	50	-	450	-	-	-	500	500
AWS/BCG Substation	41,700	2,000	-	-	-	-	-	43,700	2,000
Lockheed Substation Re	3,000	-	-	-	-	-	-	3,000	-
Total	46,655	2,625	575	550	-	-	-	50,405	3,750

ELECTRIC MAINTENANCE CAPITAL PROJECT LISTING

(\$ in Thousands)

The City identifies Capital Projects as projects with a cost greater than \$100,000 **and** a useful life of 10+ years. The City recognizes that there are additional projects/needs that are capital in nature but do not meet the requirement set forth for a capital project. These additional projects/needs are considered Maintenance Capital Projects, a list of which is provided below for the Electric Program.

Project Name	Prior Years	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Future	Total Project	5-Year CIP
Electric T&D Maintenan	5,347	800	800	800	800	800	-	9,347	4,000
Alternative Generation In	2,350	300	300	300	300	300	-	3,850	1,500
Place Overhead Lines U	2,725	500	500	500	500	500	-	5,225	2,500
Substation Capacity and	925	375	350	350	350	350	-	2,700	1,775
Distribution Switching Ca	260	-	110	-	110	-	-	480	220
Total Cost	11,607	1,975	2,060	1,950	2,060	1,950	-	21,602	9,995

Funding Sources

General Fund	-	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-	-
Electric Fund	11,463	1,975	2,060	1,950	2,060	1,950	-	21,458	9,995
Stormwater Fund	-	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-	-
Bonds	144	-	-	-	-	-	-	144	-
State	-	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-	-
Total Funding	11,607	1,975	2,060	1,950	2,060	1,950	-	21,602	9,995