# **Capital Improvement Plan**

FY 2024-2025

Project Title:	Substation Relay Modernization		Munis Pr	oject Code:	EUCP-22005	#196
Section I: Description		District Nos:	Citywide	Project Length	6/30/2026 <b>Priority</b>	High

The purpose of ths multi-year project is to upgrade and modernize three of the four total substations with modern protection devices to replace outdated and end-of-life equipment. The modernization will allow for greater protection and visibility of highly valuable substation equipment as well as the coordination of protection and power supply between Pacific Gas and Electric and Lodi Electric Utility.

## Justification/factor driving project

Per Pacific Gas and Electric (PG&E), our incoming relay protection within Industrial Substation has significant cordination (device-to-device safety) issues that results in slower clearing times and reduced reiability for all of Lodi Electric Utility's (LEU) power supply. In addition to our incoming power supply protection is the outdated equipment we have at Industrial Substation, Henning Substation, and Killelea Substation. To solve this, substation modernization and standardization would upgrade and standardize all remaining protection and control devices, remote terminal units, and accompanied SCADA screens. Modernizing and standardizing our substation equipment will not only increase asset reliability and protection, but will also allow for greater field worker safety due to the increased protection capabilities built-into the equipment, proven at McLane Substation. The standardization process will eliminate the need to stock multiple vendor equipment types, while also increasing LEU Technician understanding and familiarity of single-vendor equipment throughout all substations.

#### Additional Information

FY 25 MY adjustment to include additional staff time and materials to support completion of Industrial Substation work by outside vendor.

### Section II: Estimated Project Costs

Expenditure	P	rior Years	FY 23/24		FY 24/25 Budget		FY 25/26		FY 26/27	FY 27/28		FY 27/28		FY 28/29		Future Yrs	Total
			E	Stimate													
Internal Staff	\$	170,495	\$	107,505	\$	283,191	\$	120,000									\$ 681,191
Contracts	\$	1,179,200	\$	1,286,873	\$	914,305	\$	70,000									\$ 3,450,378
Miscellaneous	\$	42,697	\$	19,303	\$	27,455	\$	80,000									\$ 169,455
Total Capital Costs	\$	1,392,392	\$	1,413,681	\$	1,224,951	\$	270,000	\$ -	\$	-	\$ -		\$ -		\$ -	\$ 4,301,024

## Section III: Funding Sources/Methods o

Funding Source(s)	P	rior Years	FY 23/24 Estimate	FY	24/25 Budget	ı	FY 25/26	FY 26/27	FY 27/28	FY 27/28		FY 28/29	F	uture Yrs	Total
501 - EU Outlay Capital Reserve Fund	\$	1,392,392	\$ 1,413,681	\$	1,224,951	\$	270,000				Г				\$ 4,301,024
Total Project Financing	\$	1,392,392	\$ 1,413,681	\$	1,224,951	\$	270,000	\$ -	\$ -	\$ -	\$	-	\$	-	\$ 4,301,024