

Sustainability



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The Department of Sustainability leads the implementation of the City's Climate Action Plan (CAP) which aims to achieve the greenhouse gas (GHG) reduction targets set forth by the State of California. The Department facilitates innovative efforts across multiple City departments to enhance economic, social and environmental sustainability. These efforts promote renewable electricity, water and energy efficiency, zero waste, bicycling, walking, transit, smart growth and land use, and resiliency measures.

The City's Climate Action Plan directs the Department to develop a Municipal Energy Strategy and Implementation Plan that will outline a path to achieve a 25% reduction in municipal energy consumption by 2035. The Department's CIP funds are dedicated to projects that deliver those energy use reductions and associated energy cost savings. Projects may include energy retrofits and retro-commissioning (RCx) for existing building systems such as heating, ventilation and air conditioning (HVAC), lighting, and associated controls, renewable energy technology such as solar photovoltaic and thermal systems, microgrids and battery storage to increase resiliency at critical facilities, and electric vehicle charging infrastructure.

2020 CIP Accomplishments

The Department continued to dedicate capital resources to reduce energy consumption in municipal facilities through the following projects:

- Continued the implementation of the Outdoor Lighting Upgrade and Smart Sensor Installation Project-Phase 1
- Released an RFP for the Outdoor Lighting Upgrade and Smart Sensor Installation Project-Phase 2
- Initiated RCx of mechanical control systems in the Civic Center Complex facilities
- Initiated the replacement of a chiller at the Point Loma Library

2021 CIP Goals

The Department of Sustainability will continue to improve the energy performance at City facilities in Fiscal Year 2021 through the following goals:

- Award and implementation of the Outdoor Lighting Upgrade and Smart Sensor Installation Project-Phase 2.
- Completion of the mechanical control systems RCx at the Civic Center Complex facilities
- Support completion of the chiller replacement at the Point Loma Library
- Begin implementation of energy projects identified in the Municipal Energy Strategy and Implementation Plan



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Sustainability: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2021 Adopted	Future Fiscal Years	Project Total
Citywide Energy Improvements / ABT00003	\$ 31,732,349	\$ -	\$ 1,500,000	\$ 33,232,349
Total	\$ 31,732,349	\$ -	\$ 1,500,000	\$ 33,232,349



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Citywide Energy Improvements / ABT00003

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Chen, James Xiaowu
Duration:	2010 - 2040		858-627-3329
Improvement Type:	Betterment		xchen@sandiego.gov

Description: This annual allocation will provide for energy efficiency improvements in City facilities. Projects typically address lighting, air conditioning, chiller, pumping and fan systems, invertors, and City-owned solar systems. Newer, more efficient technologies greatly reduce energy consumption.

Justification: Energy efficiency improvements repay capital costs in one to nine years, depending upon the project. The energy savings continue each year thereafter. Energy audits are performed in a variety of City-owned facilities to identify opportunities for energy savings.

Operating Budget Impact: There will be energy cost savings related to the energy efficiency projects for various City departments.

Relationship to General and Community Plans: These projects are consistent with applicable community plans, are in conformance with the City's General Plan, and help to implement the City's Climate Action Plan.

Schedule: Projects will be scheduled on a priority basis in accordance with the Municipal Energy Strategy Plan.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021					Unidentified Funding	Project Total	
					Actual	Anticipated	FY 2022	FY 2023	FY 2024			FY 2025
Energy Conservation Program CIP Fund	200225	\$ 25,016	\$ 633,578	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 2,158,594
GEGF California Master Lease Agreement	400867	20,148,875	10,124,880	-	-	-	-	-	-	-	-	30,273,755
Infrastructure Fund	100012	-	800,000	-	-	-	-	-	-	-	-	800,000
Total		\$ 20,173,891	\$ 11,558,458	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 33,232,349