



Comprehensive Energy Infrastructure Modernization Program

Council Info Item | February 11, 2025



CHALLENGES

Aging
Infrastructure

Limited
Resources &
Funding

Rising Utility
and
Construction
Costs

Meeting
Implementation
Deadlines for
Funding
& Solar PV



PROCESS TO DATE

✓ Competitive Bid & Selection Process

✓ Kickoff Meeting

✓ Utility Baseline Development

✓ City Manager & Staff Meetings

✓ Review of City Assessments

✓ Inform Council

WHY THIS APPROACH WORKS



OTHER SUCCESSFUL PROGRAMS

TOTAL PROJECT

\$23.1 million (3 Phases)

LIFECYCLE SAVINGS

\$37.3 million

UTILITY BASELINE

\$2.2 million

FUNDING SOURCES

- CEC Grant
- Municipal Lease-Purchase
- Utility Incentives
- Fuel Standard Programs
- Sale of Renewable Natural Gas
- City Capital

SCOPE PRIORITIES

- Solar Groundmount Structure
- Battery Energy Storage
- Microgrid System & Controls
- High Strength Waste (HSW)
- Pumping & Blowers
- Irrigation Controls
- Smart City Technology
- LED Lighting & Streetlighting
- HVAC & BAS

ENVIRONMENTAL BENEFITS

3,236 metric tons of GHG emissions reduced

Annual Environmental Equivalencies:

- ✔ 697 cars off the road
- ✔ 364,084 Gallons of gas saved
- ✔ 630 San Leandro homes powered
- ✔ 53,501 trees preserved



TOTAL PROJECT

\$35.1 million (1 Phase)

LIFECYCLE SAVINGS

\$46.5 million

UTILITY BASELINE

\$3.5 million

FUNDING SOURCES

- EECBG Federal Grant
- Green Energy Bonds
- Utility Incentives
- CEC 1% Loan Funding
- Inflation Reduction Act
- CIP Budgeted Capital

SCOPE PRIORITIES

- Solar Rooftop & Parking Structures
- Battery Energy Storage
- HVAC & BAS
- Roofing & Window Film
- Ice Rink Modernization
- Irrigation Controls
- LED Lighting
- Transformers

ENVIRONMENTAL BENEFITS

3,014 metric tons of GHG emissions reduced

Annual Environmental Equivalencies:

- ✔ 716 cars off the road
- ✔ 373,804 gallons of gas saved
- ✔ 646 Santa Clarita homes powered
- ✔ 54,930 trees preserved



TOTAL PROJECT

\$ 15.8 million (1 Phase)

LIFECYCLE SAVINGS

\$21.2million

UTILITY BASELINE

\$1.3 million

FUNDING SOURCES

- Federal Stimulus (ARPA)
- City Capital

SCOPE PRIORITIES

- EV Charging Infrastructure
- Solar Rooftop, Shade, and/or Parking Structures
- Solar Thermal
- HVAC & BAS
- LED Lighting
- Roofing

ENVIRONMENTAL BENEFITS

1,970 metric tons of GHG emissions reduced

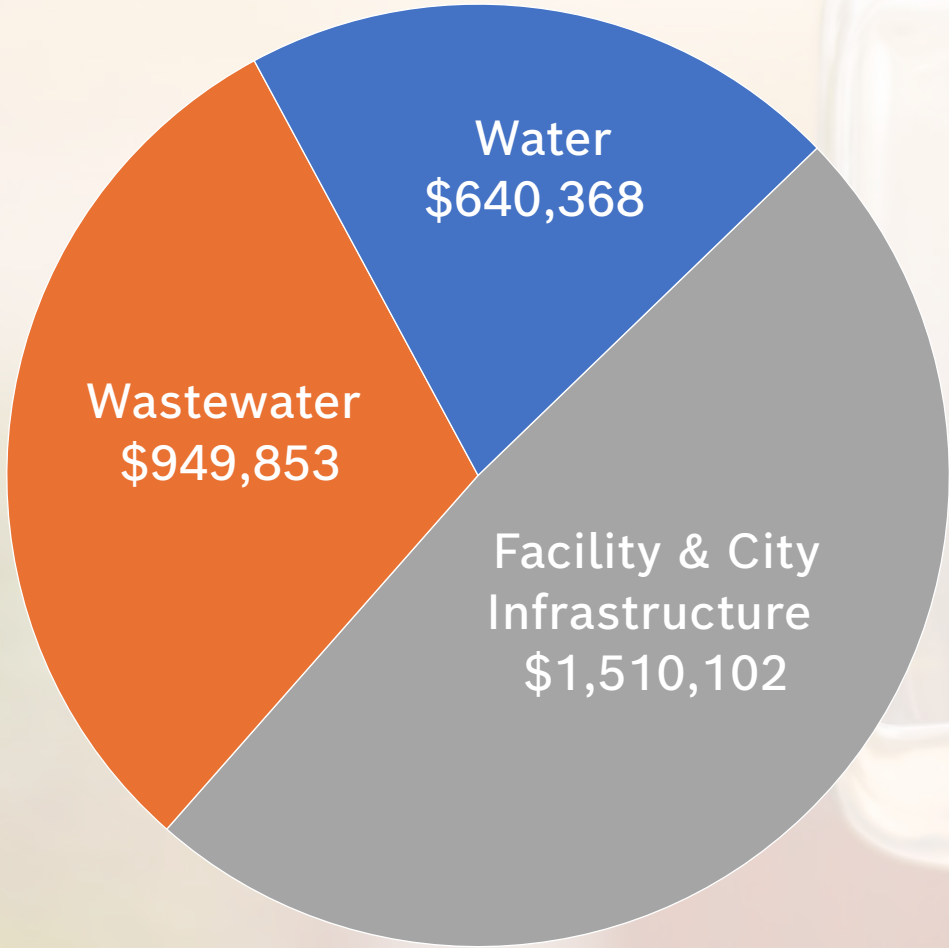
Annual Environmental Equivalencies

- ✔ 469 cars off the road
- ✔ 221,672 gallons of gas saved
- ✔ 389 La Mirada homes powered
- ✔ 32,574 trees preserved



ANNUAL UTILITY SUMMARY

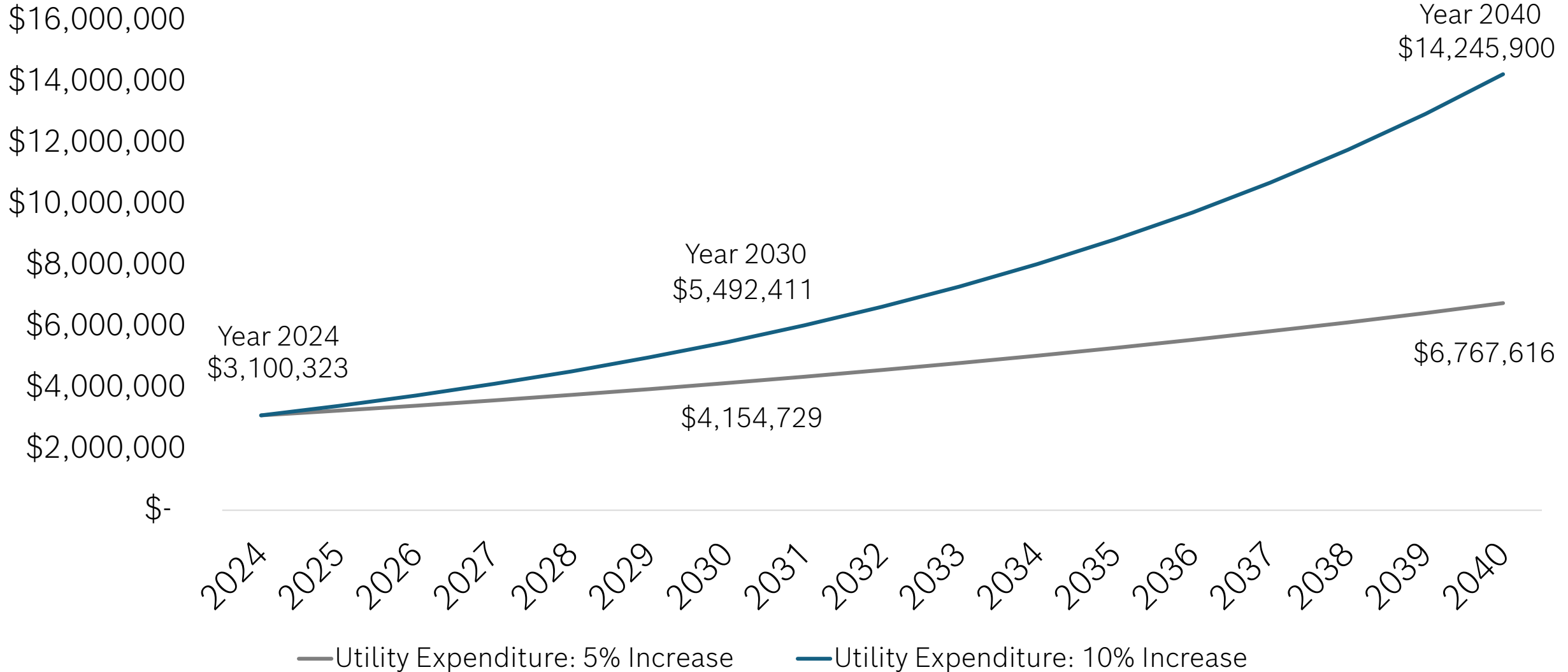
ANNUAL PG&E SPEND PER SITE



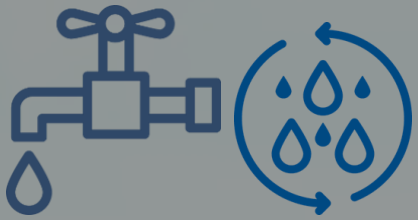
TOTAL ANNUAL ELECTRIC SPEND:
\$ 3,100,323

January 2024 – December 2024	
Site Name	Total Utility Expenditures
Facility & City Infrastructure	\$ 1,510,102
Wastewater	\$ 949,853
Water	\$ 640,368

COST OF STATUS QUO



INFRASTRUCTURE & SUSTAINABILITY NEEDS



Water/Wastewater
Infrastructure &
Systems



LED Street &
Building Lighting



Electric Vehicle (EV)
Charging &
Masterplan



HVAC Modernizations
& Indoor Air Quality



Solar & Battery Energy
Storage/ Microgrid



Smart City
Technologies



Building
Envelope



Power
Resiliency

COMPREHENSIVE FUNDING

Utility Programs/
Incentives
(i.e. SW Wise)



Federal Programs
(i.e. IRA, etc)



State
Funding
(i.e. CARB)



Regional
Programs



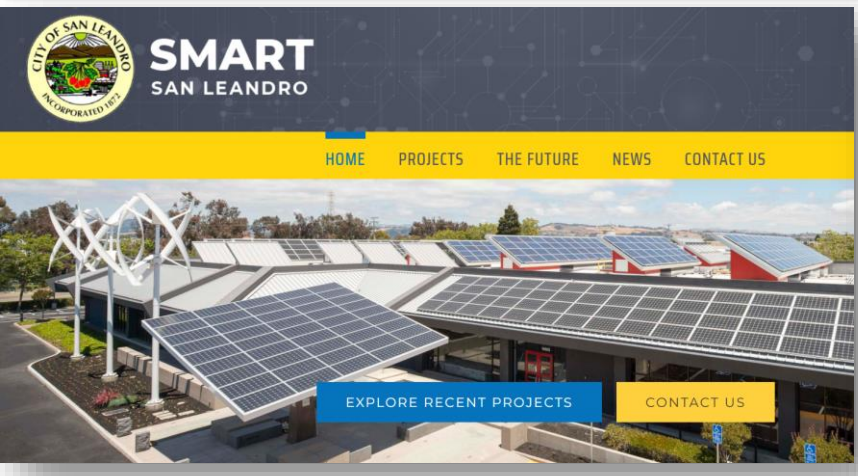
Private Sector
Funding



CLIMATEC COMMUNITY CONNECT



COMMUNITY CONNECT
INFORM . INVOLVE . INSPIRE



San Leandro Receives Climate Protection Award for Solar Power Resiliency Program

February 2nd, 2021



San Leandro Receives Smart 50 Award

February 2nd, 2021



NEXT STEPS

Inform Council

Develop Preliminary Scope & Funding Plan

Detailed Assessment (DA)

Program Implementation



Engineering Site Assessments

Finalize Scope & Funding Plan

Measurement & Verification

Preliminary Assessment (PA)