

(d) 1. CITY INFRASTRUCTURE STRATEGY QUARTERLY STATUS REPORT

TRANSPORTATION & ENVIRONMENT COMMITTEE SEPTEMBER 11, 2023



PRESENTED BY: Kip Harkness, Deputy City Manager
Erica Garaffo, Lead Resilience Strategist

City Infrastructure Strategy for FY 2023-24

Objectives

Disaster Ready & Climate Smart



Transportation & Aviation



Clean Energy Resilience



Water Resilience



Natural Environment Restoration



Workstreams & Departments

Prepare the City for the Next Disaster

OEM

Seismically Safe "Soft Story" Apartments

PBCE

Shoreline Levee (Sea Level Rise)

PW

Climate Smart Decarbonization & Mitigation

ESD

SJC Airport New Terminal

AIR, PW

BART Silicon Valley Extension

DOT, PW

Vehicle Blight

DOT

Diridon Station and Airport Connector

DOT

Municipal Microgrids and Electrical Service

CED, PW

Electric Vehicle Fleet/ Charging Infrastructure

CED, PW, DOT

City Wide Building Electrification

ESD, CED

Municipal Regional Permit (Stormwater)

ESD

Sanitary & Storm Sewer Collection Systems + Green Stormwater Infrastructure

ESD, PW, DOT

Water Supply

ESD

Community Forest (Urban Tree Canopy)

DOT

Protect Coyote Valley Open Space

PBCE

Adaptation Planning Grant Award - \$648K

The San José Climate Adaptation Plan will focus on critical infrastructure needs with an emphasis on energy, water, and electrified transportation, and incorporating the needs of vulnerable communities.

GENERAL PLAN

CLIMATE SMART

GHG Mitigation

- Reduce GHG
- Emphasis on cost effective measures and people's willingness to make changes

Climate Action Plan

CLIMATE READY

Adapt to Changing Climate

- Increase Resiliency
- Emphasis on (re)building our water and electrical infrastructure for future conditions

Climate Adaptation Plan

EQUITY

FUNDING

TEAM

Different systems collect and treat wastewater and stormwater

SANITARY
SEWER
COLLECTION
SYSTEM

STORM
SEWER
COLLECTION
SYSTEM

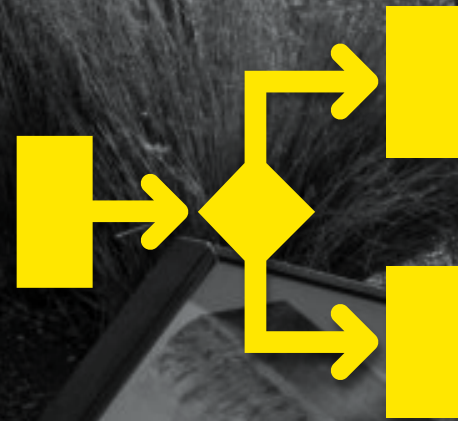
GSI

MUNICIPAL REGIONAL
STORMWATER PERMIT

Strategies for Funding Stormwater and Green Stormwater Infrastructure



Surveyed likely voters on funding options in late August



Results will inform whether we proceed or not, as well as the type of revenue measure, rate structure and timing

OCTOBER



Return to T&E in Oct. with recommended approach (could include delaying)

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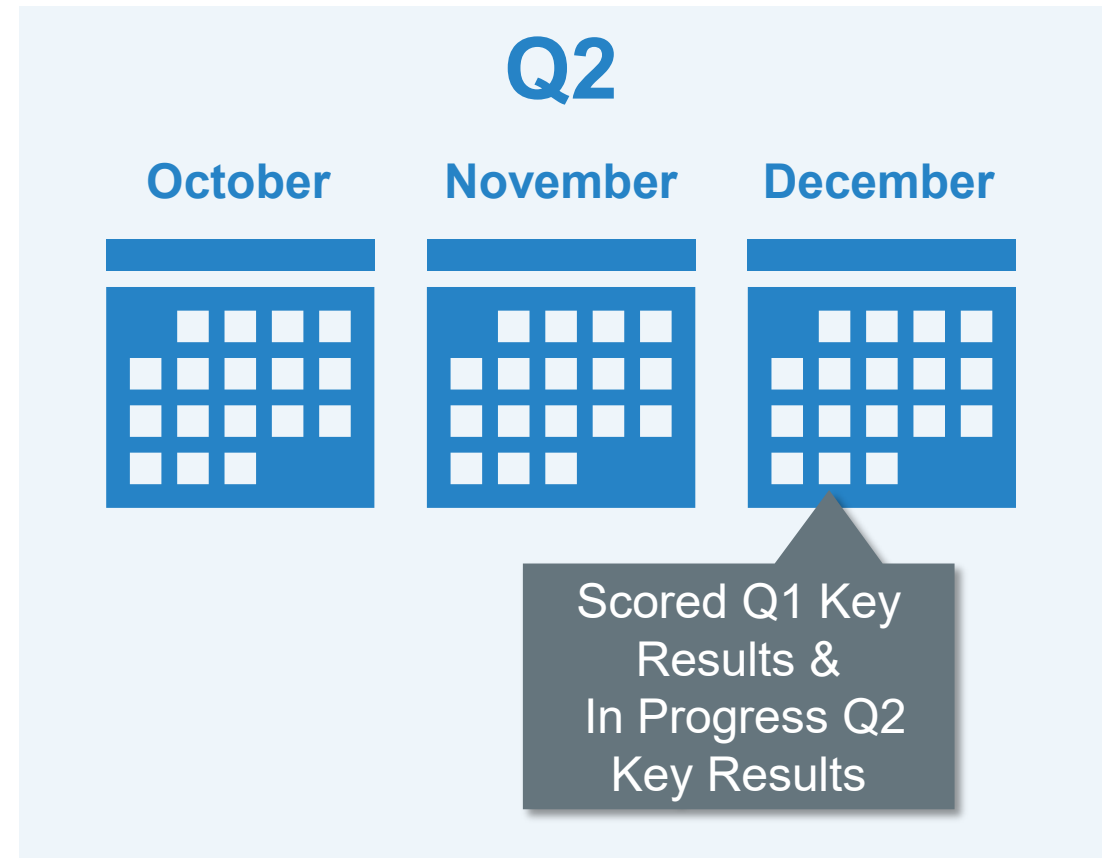
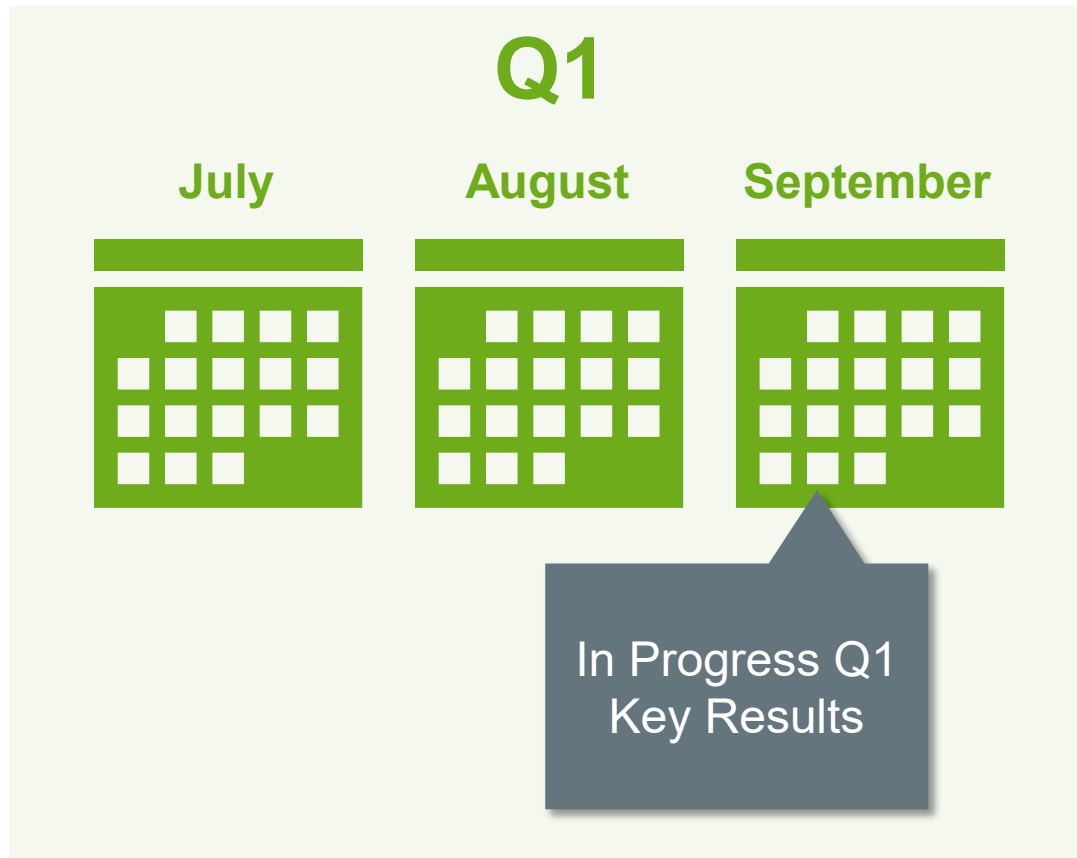
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Objectives as measured by Key Results (OKRs)

Staff set 90 Day Key Results for each Workstream at the start of the Quarter and score at the end of the Quarter.



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CLEAN ENERGY RESILIENCE: Electric Vehicle Fleet/ Charging Infrastructure

% of New Vehicles
Purchased that must
be Zero Emissions



Upfront purchase
prices for new EV
fleet vehicles are
2-3x more
expensive



Supply chain and high
demand reduces the
availability of vehicles



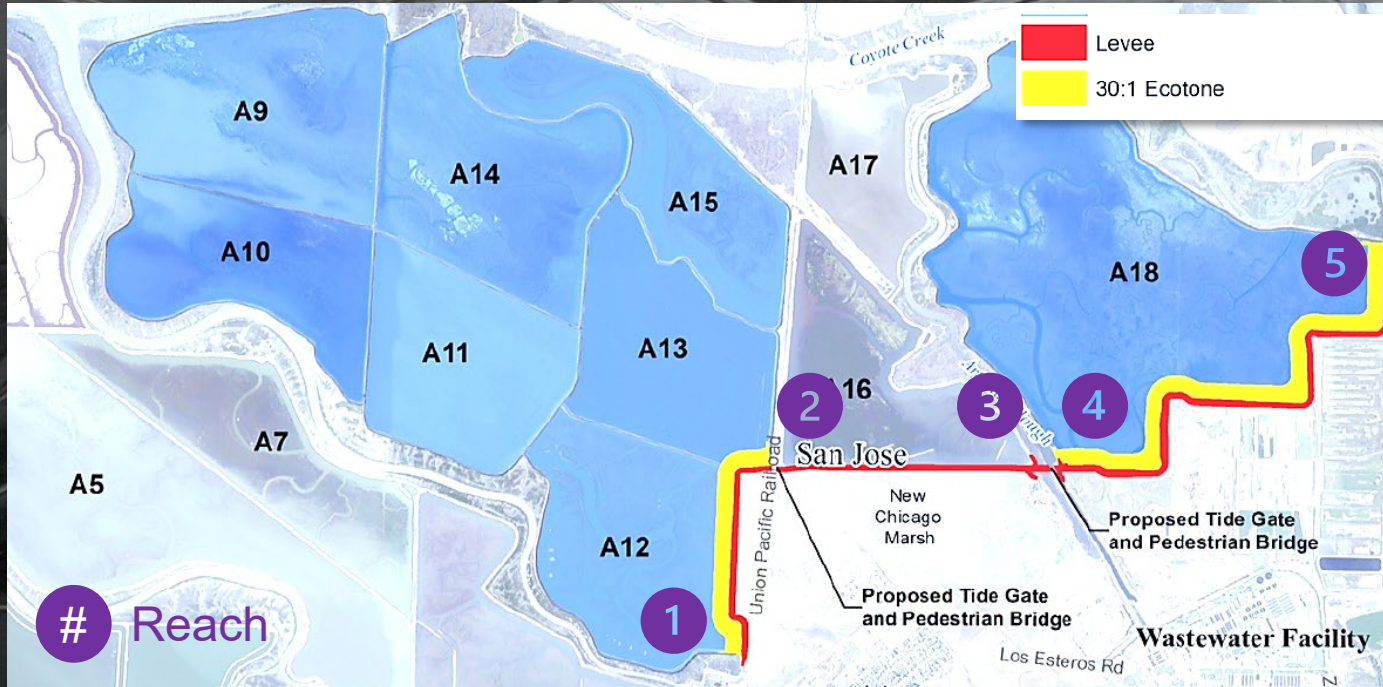
Increasing energy
demand at our
City facilities

CLEAN ENERGY RESILIENCE: Electric Vehicle Fleet/ Charging Infrastructure

Q1 OKRs

1. Complete development of EV Fleet/Charging Infrastructure prioritized Roadmap for FY23-24 and seek approval from Infrastructure Executive Team.
2. Stand up working team with regular cadence, governance and agreed upon roles/assignments to begin working through prioritized Roadmap of initiatives.

DISASTER READY & CLIMATE SMART: Shoreline Levee (Sea Level Rise)



- + Reaches 1 - 3 construction began in December 2021 and is scheduled to finish in Summer 2025.
- + Reaches 4 - 5 are in currently in design phase.

In partnership with Valley Water, State Coastal Conservancy, and Army Corps of Engineers, the 3.8 Miles of FEMA certified coastal levees will improve flood risk management for:

- Alviso Community
- Regional Wastewater Facility Lands
- Silicon Valley Advanced Water Purification Center
- Future Economic Development land

The project will also restore 2,900 acres of tidal marsh habitat and improve recreation opportunities.

DISASTER READY & CLIMATE SMART: Shoreline Levee (Sea Level Rise)

Q1 OKRs

1. Meet with Valley Water and provide feedback on levee alignment and alternatives
2. Complete the review and validate all studies, reports and technical memo prepared by Consultants for the City of San Jose in the past related to sea level rise
3. Outreach to Valley Water and other local jurisdictions to learn more about their knowledge and responses to sea level rise
4. Hold at least 1 meeting to share known sea level rise information with the City Manager's Office and workgroup

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