



Memorandum

TO: TRANSPORTATION AND
ENVIRONMENT COMMITTEE

FROM: Erica Garaffo

SUBJECT: SEE BELOW

DATE: February 21, 2023

Approved

Date

2/27/23

**SUBJECT: CITY INITIATIVES ROADMAP: RESILIENT AND SUSTAINABLE
CITY INFRASTRUCTURE AND EMERGENCY PREPAREDNESS
ENTERPRISE PRIORITY QUARTERLY STATUS REPORT**

RECOMMENDATION

Accept a quarterly status report on the Resilient and Sustainable City Infrastructure and Emergency Preparedness Enterprise Priority, including a review of the objectives and priority initiatives status of select initiatives as part of the approved City Initiatives Roadmap for Fiscal Year 2022-2023.

OUTCOME

Staff will provide an update on the Resilient and Sustainable City Infrastructure and Emergency Preparedness Enterprise Priority and the Committee will provide feedback to staff on their update.

BACKGROUND

As directed in the 2022 Mayor's March Message, the Fiscal Year 2022-23 Adopted Budget created a multi departmental team led from the City Manager's Office to drive results informed by equity considerations on key resilience objectives and major capital projects in the areas of drought resilience, sea level rise, microgrid development, urban forests, seismic safety, Coyote Valley open space implementations, electrification, and rehabilitation of aging City infrastructure.

This budget action created three positions to help shepherd this work. First, a Lead Resilience Strategist position in the City Manager's Office to coordinate efforts across departments under the direction of a Deputy City Manager and work to secure funding for future large-scale

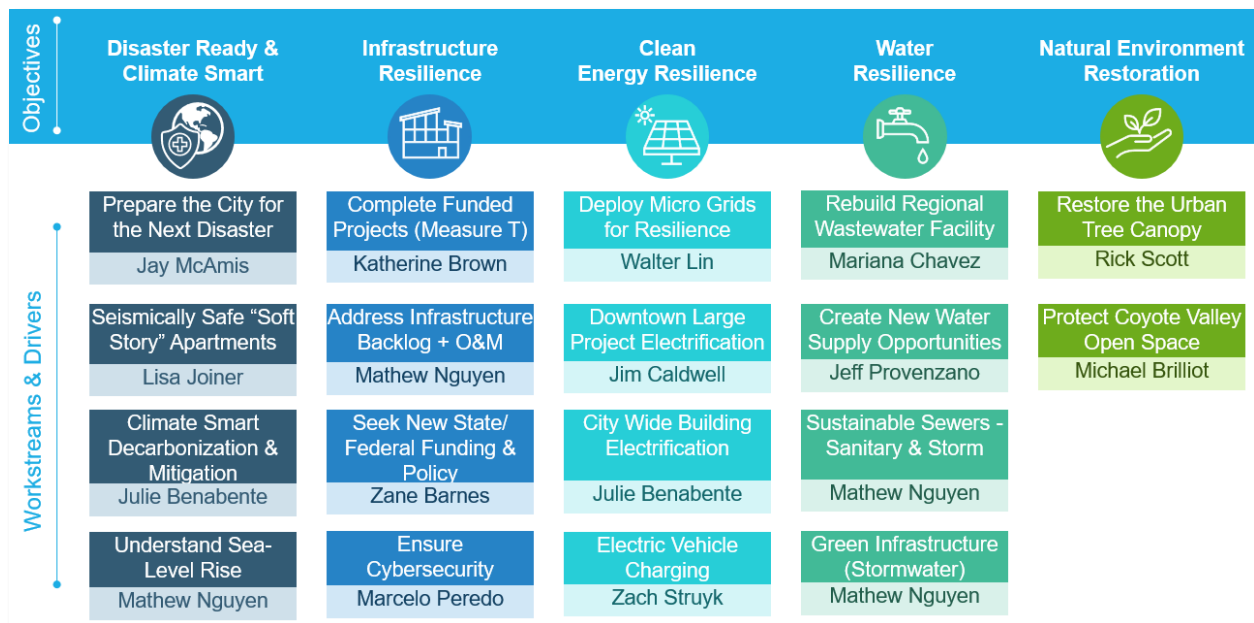
infrastructure improvements. Second, a Microgrids Program Manager in Public Works Department to focus on microgrid development at fire stations and other City facilities. Third, a Principal Engineer in the Environmental Services Department to investigate recycled water projects. Currently the first two positions are filled and the third is under recruitment. These three positions also work with staff across Environmental Services, Public Works, Community Energy, Transportation, Information Technology, and Planning, Building, & Code Enforcement Departments, as well as the City Manager's Offices of Intergovernmental Relations and Emergency Management.

Taken together, this broader team's work is represented by the "Sustainable and Resilient City Infrastructure and Emergency Preparedness" Enterprise Priority on the City Roadmap and is organized under five Objectives. These are:

1. Disaster Ready and Climate Smart
2. Infrastructure Resilience
3. Clean Energy Resilience
4. Water Resilience
5. Natural Environment Restoration

These five Objectives are supported by eighteen Workstreams that comprise the highest priority initiatives (Figure 1).

Figure 1: Sustainable and Resilient City Infrastructure and Emergency Preparedness Objectives and Workstreams



We first presented these 5 Objectives and 18 Workstreams at the October 3, 2022, Transportation & Environment Committee. Staff's update at the March 6, 2023, Transportation & Environment Committee will be the second time this work has been presented to the Committee.

ANALYSIS

Each quarter, the Workstream drivers and their respective departments come up with their committed key results for each initiative within the "Sustainable and Resilient City Infrastructure and Emergency Preparedness" Enterprise Priority. For the October – December period, the team completed the following deliverables:

Prepare the City for the Next Disaster:

1. Completed one workshop for the Emergency Operations Plan and each Annex (4).
2. Provided feedback on draft COVID-19 After Action Review.
3. Obtained feedback for the Multi-Year Training and Exercise Program.
4. Conducted 2 Community Emergency Response Team programs in language other than English.
5. Reached 50% completion on Emergency Operations Center construction

Seismically Safe "Soft Story" Apartments:

1. Created a draft list of potentially affected soft story properties.
2. Began analyzing the properties to create typologies of similar structures/resident risk.
3. Identified at least 3 different potential financing mechanisms for property owners, for further investigation.
4. Submitted Phase 1 Grant Extension request to CalOES/FEMA.

Climate Smart Decarbonization & Mitigation:

1. Brought Phase 1 administrative reach code update (solar and electrification readiness, EV charging infrastructure and equipment) to City Council for approval.
2. Completed final versions of Natural Working Lands and Zero Waste Elements.

Complete Funded Projects (Measure T):

1. Completed designs for following projects: Fire Stations 8 and 32, Police Department Air Support Hanger, Training & Academy Buildings.
2. Identified multiple funding strategies to fully deliver all projects and presented options to Budget & CMO.
3. Identified best site option for relocation of Fire Station 23.

Seek New State/ Federal Funding & Policy:

1. Developed and executed advocacy strategy for the Federal Safe Streets for All grant application which builds off successful \$10M earmark with the aim to use this earmark as a federal match.

2. In concert with City departments, evolved the legislative program to ensure infrastructure priorities are reflected in Legislative Priority.
3. Met with two members of Congress to articulate infrastructure priorities and solicit their assistance in competitive Federal grant applications.
4. Conducted legislative advocacy day with state delegation in Sacramento to highlight infrastructure priorities.

Deploy Micro Grids for Resilience:

1. Hired Program Manager.
2. Submitted CA Resilience Challenge grant.

Downtown Large Project Electrification:

1. Conducted Study Session on Downtown West Electrification.

City Wide Building Electrification:

1. Executed contract with BlocPower to implement the existing building electrification program.
2. Supported submission for at least \$500,000 in external funding.

Electric Vehicle Charging Infrastructure:

1. Presented Financial Analysis of Direct Connect Fast Charging (DCFC) Hub to City Council 12/6.
2. Recommended Pilot DCFC Hub to City Council 12/6.

Rebuild Regional Wastewater Facility:

1. Completed substantial construction completion for Advanced Facility Control and Meter Replacement Phase 1 and Blower Improvements.

Create New Water Supply Opportunities:

1. Signed Letter of Intent with Valley Water.

Restore the Urban Tree Canopy:

1. Hired Two Assistant Arborists/one Program Manager.
2. Awarded purchase orders for tree planting/maintenance services

Protect Coyote Valley Open Space:

1. Consultant team under contract to initiate Coyote Valley Monterey Corridor study.

For a complete list of the key result commitments for the January – March period, refer to Appendix A at the end of this memo. Several of the key results for the current quarter include identifying resources to fund the ongoing and new work and proposals will be considered in the development of the upcoming budget. Staff is also working to identify external funding opportunities to offset limited existing resources.

At the March 6 Transportation and Environment Committee meeting, staff will highlight completed and upcoming work in three of the workstreams:

- **Prepare the City for the Next Disaster.** This initiative focuses on the work of our Office of Emergency Management and the City’s plan to prepare for any disaster.
- **Deploy MicroGrids for Resilience.** This work entails deploying solar and battery micro-grids as backup power generation for critical City facilities.
- **Create New Water Supply Opportunities.** This work focuses on projects and partnerships with other local agencies that are key to securing reliable potable and non-potable water for our residents and businesses.

CONCLUSION

Staff continues to make progress on each of the 18 Workstreams in the “Sustainable and Resilient City Infrastructure and Emergency Preparedness” Enterprise Priority and will return to the Transportation & Environment Committee in June 2023 to provide the next update.

COORDINATION

This memo has been coordinated with the City Attorney’s Office and City Manager’s Budget Office.

/s/

ERICA GARAFFO

Assistant to the City Manager

For questions, please contact Erica Garaffo, Lead Resilience Strategist, at erica.garaffo@sanjoseca.gov.

ATTACHMENT: Sustainable and Resilient City Infrastructure and Emergency Preparedness Key Results for January - March 2023

Sustainable and Resilient City Infrastructure and Emergency Preparedness Key Results for January - March 2023

City Infrastructure Objectives	Work Stream (Dept Director/ Driver)	Q3 Key Results (Jan-Mar)
Disaster Ready + Climate Smart	Prepare the City for the Next Disaster Ray Riordan/ Jay McAmis	<ol style="list-style-type: none"> 1. Finalize COVID-19 After Action Review. 2. Reconstitute Post Disaster Housing Work Group. 3. Define City Local Hazard Mitigation Plan Team
	Seismically Safe "Soft Story" Apartments Chris Burton/ Lisa Joiner	<ol style="list-style-type: none"> 1. Draft initial soft story properties inventory 2. Finalize business requirements with ITD for online portal (property owner and staff) 3. Calculate mass Care and Shelter expenses (BCA for ordinance)
	Climate Smart Decarbonization & Mitigation Kerrie Romanow / Julie Benabente	<ol style="list-style-type: none"> 1. Bring phase 2 reach code update (EV charging at multifamily new developments) to City Council for approval 2. Bring Natural Working Lands Element to City Council for approval
	Understand Sea Level Rise Matt Loesch / Mathew Nguyen	<ol style="list-style-type: none"> 1. Restart conversations with Valley Water District on Sea Wall Levee project with Army Corps of Engineers
Infrastructure Resilience	Complete Funded Projects (Measure T) Matt Loesch / Katherine Brown	<ol style="list-style-type: none"> 1. Obtain permitted drawing sets for bidding for FS 8, FS 32 & PD Training & Academy 2. Advertise and obtain bids for FS 32. 3. Provide annual Measure T update and funding strategy for consideration/approval by council 4. Continue to pursue best site for relocation of FS 23
	Address Infrastructure Backlog + O&M Matt Loesch / Mathew Nguyen	(see Sustainable Sewers Key Result below)
	Seek New State/Federal Funding & Policy	<ol style="list-style-type: none"> 1. Advocate for the Federal-State Partnership for Intercity Passenger Rail grant application for Diridon Station. 2. Facilitate Citywide responses to Requests for Information on the

	Sarah Zarate / Zane Barnes	allocation of Inflation Reduction Act funds. 3. Meet with one member of Congress to advance infrastructure priorities. 4. Conduct Legislative Advocacy Day with state delegation in Sacramento.
	Ensure Cybersecurity Khaled Tawfik / Marcelo Peredo	1. Upgrade SCADA software and implement improvements for all Category 1 pump stations. 2. Identify action plan for Category 2 pump stations' communication network security. 3. Develop network security plan for pump stations, interim and long term
Clean Energy Resilience	Deploy Micro Grids for Resilience Matt Loesch / Walter Lin	1. Train new Program Manager and integrate with the Engineering team and develop CY2023 workplan 2. Complete recruitment for vacant Associate Engineer position to assist in Microgrid program 3. Conduct pre-work and prepare for upcoming BRIC grant opportunity 4. Prepare capital budget proposals for 2 - 3 microgrid installations in FY 23 - 24
	Downtown Large Project Electrification Lori Mitchell / Jim Caldwell	1. Bring forward Muni code changes to City Council 2. Engage with stakeholders on new CAISO lines
	City Wide Building Electrification Kerrie Romanow / Julie Benabente	1. Develop BlocPower Maps tool and establish Accelerator Program's Community Advisory Board
	Electric Vehicle Charging Infrastructure Lori Mitchell / Zach Struyk	1. Complete site control analysis and site selection for fast charging hubs pilot 2. Begin negotiations for the tolling agreement for DCFC hubs 3. Update EV educational materials

Water Resilience	Rebuild Regional Wastewater Facility Kerrie Romanow / Mariana Chavez	1. Achieve Substantial Completion/Beneficial Use on Advanced Facility Controls and Meter Replacement Phase 2, and Blower Improvements projects. 2. Open bids and award the construction contract for Yard Piping Improvements Phase 2 project. 3. Complete final design and advertise the construction contract for the Facility-Wide Water Systems Improvements project
	Create New Water Supply Opportunities Kerrie Romanow / Jeff Provenzano	1. Prepare water supply resiliency budget proposal and work plan for next fiscal year. 2. Signed MOU with SJ Water. 3. Hire Principal Engineer or similar position.
	Sustainable Sewers - Sanitary & Storm Matt Loesch / Mathew Nguyen	1. Submit budget proposal for an assessment of investment needs for Storm Sewer Collection System and Stormwater Management 2. Bring on consultant to evaluate financing intervention options for Storm Sewer Collection System and Stormwater Management
	Green Infrastructure (Stormwater) Matt Loesch / Mathew Nguyen	1. Submit budget proposal for Greet Stormwater Infrastructure as part of the assessment above 2. Perform hydraulic analysis and modelling, and review criteria to identify and validate at least one additional regional project
Natural Environment Restoration	Restore the Urban Tree Canopy John Ristow / Rick Scott	1. Complete CFAC recruitment and hold first official meeting. 2. Hire and onboard Urban Forester. 3. Plant 1000 trees. 4. Go/No-go decision on negotiated agreement with One City Forest.
	Protect Coyote Valley Open Space Chris Burton / Michael Brilliot	1. Conduct first public presentation on key objectives 2. Initiate Baseline Assessment (data collection for existing conditions in the area) and Land Use/Economic Assessment