



One Water & Stewardship Committee

# Quarterly Update from the Chief Sustainability, Resilience and Innovation Office

Item 7d

April 10, 2023



S U S T A I N A B I L I T Y  
R E S I L I E N C E  
I N N O V A T I O N



Empowering Metropolitan to deliver its  
core mission by inspiring and  
implementing solutions that benefit  
people, nature and the climate

## Sustainability

Metropolitan can meet the current ecological, social and economic needs for water without compromising the ability to meet those needs in the future

- District-wide Goals and Metrics
- Employee Trainings
- Community Engagement

## Resilience

Metropolitan's water system functions so that nature and people, including those disproportionately impacted by climate change, adapt and thrive under shocks, stresses and change

- Identifying vulnerabilities
- Climate Action and Adaptation
- Environmental planning and ecological land management

## Innovation

Metropolitan plans and prepares for the future through testing new technologies and data tracking, incorporating science, and collaboration and partnerships

- Technology pilots
- Research and science
- Grants and partnerships

# Metropolitan's Sustainability Strategy includes Guiding Principles, Section-Specific Goals and Key Performance Indicators



# Sustainability

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## Metropolitan SRI Council

- An internal think tank of sustainability, resilience and innovation champions
- Council composed of 17 members representing all Metropolitan Groups
- Will catalyze SRI initiatives within and between Metropolitan Groups
- Empowered to elevate staff ideas & SRI initiatives



# Metropolitan SRI Council



**Sam Smalls**  
Finance



**Michael Thomas**  
Engineering



**Victor Ramirez**  
Real Property



**Jonathan Houck**  
IT



**Joseph Chavez**  
External Affairs



**Jennifer Nevills**  
Bay Delta



**Brenda Marines**  
Env. Planning



**Paul Rochelle**  
WSO



**Rick Duarte**  
DEI



**Kiersten Melville**  
WSO



**Eric Bachmann**  
Human Resources



**Scott McMullen**  
WSO



**Meena Anderson**  
Colorado River

**Ben Calmes,**  
Administrative Services

**Jennifer McCarthy,**  
WRM

**Mark Parson,** Legal

# Sustainability

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## Trainings and Engagement

Engineering Services Group Presents  
**The Technical Brown Bag Series**  
In partnership with  
The Office of Sustainability, Resilience, and Innovation

**Introducing Envision Sustainable Infrastructure Framework to Metropolitan**

This presentation will provide participants with an introduction to the Envision framework and foster conversations with Metropolitan's Office of Sustainability, Resilience, and Innovation on opportunities throughout the district.

Presented by  
**Dr. Akima Cornell**  
Akima Consulting, LLC

Click **HERE** to sign up.  
\*\*Meeting will be both in-person & via Zoom. Lunch will be provided to in-person attendees who RSVP by 1/27/2023.

**THE ENVISION™ RATING SYSTEM**

**Tuesday Jan. 31, 2023 11:30-12:15pm**  
Headquarters US2-456

**Sustainability Systems and Services Lunch Learn**

Tuesday, February 21, 2023  
11:30am - 12:15pm  
Meyersuch 677, Water Quality Lab 215A - C and Room

**Innovative Portable Power Solutions for Water System Operations**  
Speaker: Robert Petrick, Technical Team Manager for the 8th Treatment Plant

Green energy solutions and zero emissions, the latest buzz phrase in the push to eliminate greenhouse gas emissions, Metropolitan is incorporating innovative portable solar battery storage systems that can offset the need for internal combustion generators. Learn how this innovative technology is being used by our DWW teams in the field. Join us to learn more about the capabilities, limitations, environmental footprint of impacts, and the future of portable battery storage systems.

Click here to register to attend or via Zoom. Lunch will be provided to the first 50 in-person registrants.

**SUSTAINABILITY ESSENCE INNOVATION SUSTAINABILITY EXPO**

The Office of Sustainability, Resilience and Innovation is pleased to host the Sustainability Expo and Earth Day event.

**April 25, 2023**  
8:30 a.m. to 1 p.m. at the Los Angeles headquarters building

Metropolitan employees and board members are invited to learn from seminars and exhibits about how Metropolitan is a leader on sustainability.

**Highlights include:**

- Interactive Innovation Pavilion with internal and outside guest exhibits
- Panel discussion, "Sustainability from an Employee Perspective"
- Celebration of Metropolitan role model champions
- Metropolitan Photography Club photo exhibit
- Grab and Go vegetarian lunch for all registrants
- Photo booth to capture the Expo's evergreen memories
- Eco-themed raffles and giveaways

**The 2023 Sustainability Expo will be a day for learning, sharing and connecting.**

Stay tuned for Safety Fair/Sustainability Expo roadshows at other Metropolitan field facilities

**REGISTER For the Expo HERE and claim your FREE lunch**

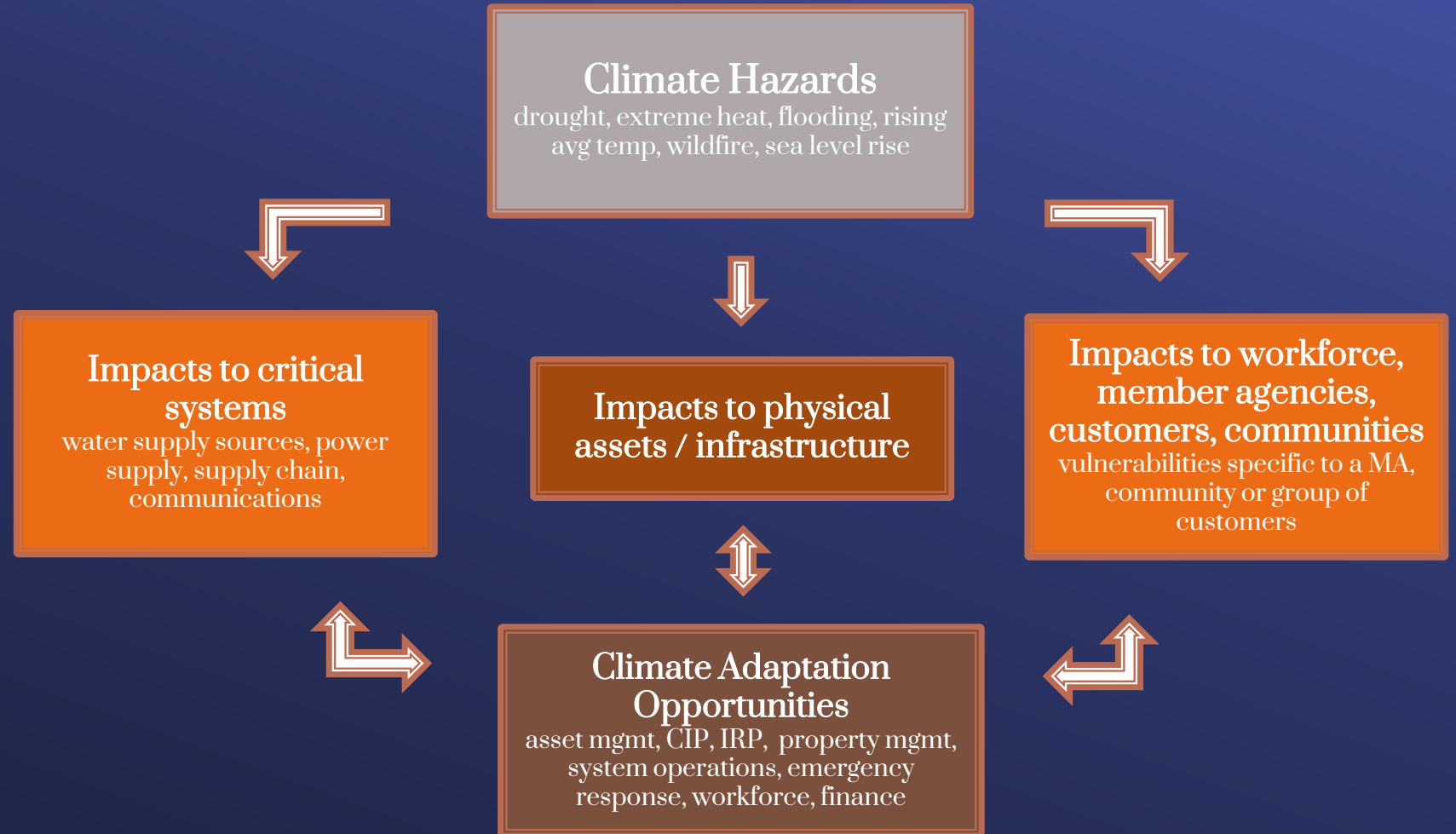




# Resilience

Metropolitan's water system functions so that nature and people, including those disproportionately impacted by climate change, adapt and thrive under shocks, stresses and change

## Climate Vulnerability and Risk Assessment





# Eight-Month Climate Vulnerability & Risk Assessment

## Resilience

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### Gap Analysis

**Dec - Feb 2023**

- Review Plans
- Department Interviews
- Measure Analysis & Success Tool (MAST)

### Internal Strategy

**March–May 2023**

- Design Charrettes
- Cascading Risks
- Identify high priority zones

### Climate Resilience Tools

**June-Aug 2023**

- Key vulnerabilities and risks
- Mapping tool

# Innovation

Metropolitan plans and prepares for the future through testing new technologies and data tracking, incorporating science, and collaboration and partnerships



Sensoil – Upper Levee Zone  
Innovative Monitoring

## Bay-Delta Partnership: Instrumentation and Monitoring Assessment Levee Pilot Project

### Levee Monitoring Pilot

- Address existing conditions by using innovative technology
- Instrumentation and monitoring
  - Visual inspection
  - Deformation monitoring
  - Remote erosion monitoring
  - Geotechnical instrumentation and monitoring
  - Geophysical surveys of subsurface conditions



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## Request for Statements of Interest (RFSI)

- Renewable Energy and Storage Projects
- Seven Metropolitan-owned properties
- Open to concepts and innovative partnerships
- Supports Metropolitan Climate Action Plan
- Addresses power system vulnerabilities



