



# Environmental & Sustainability Department

April 17, 2023

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Fiscal Year 2023/24



# Public Purpose



We proactively and responsibly protect and conserve Mesa's environment and natural resources for a resilient and healthy community for all.

# Priorities/Objectives

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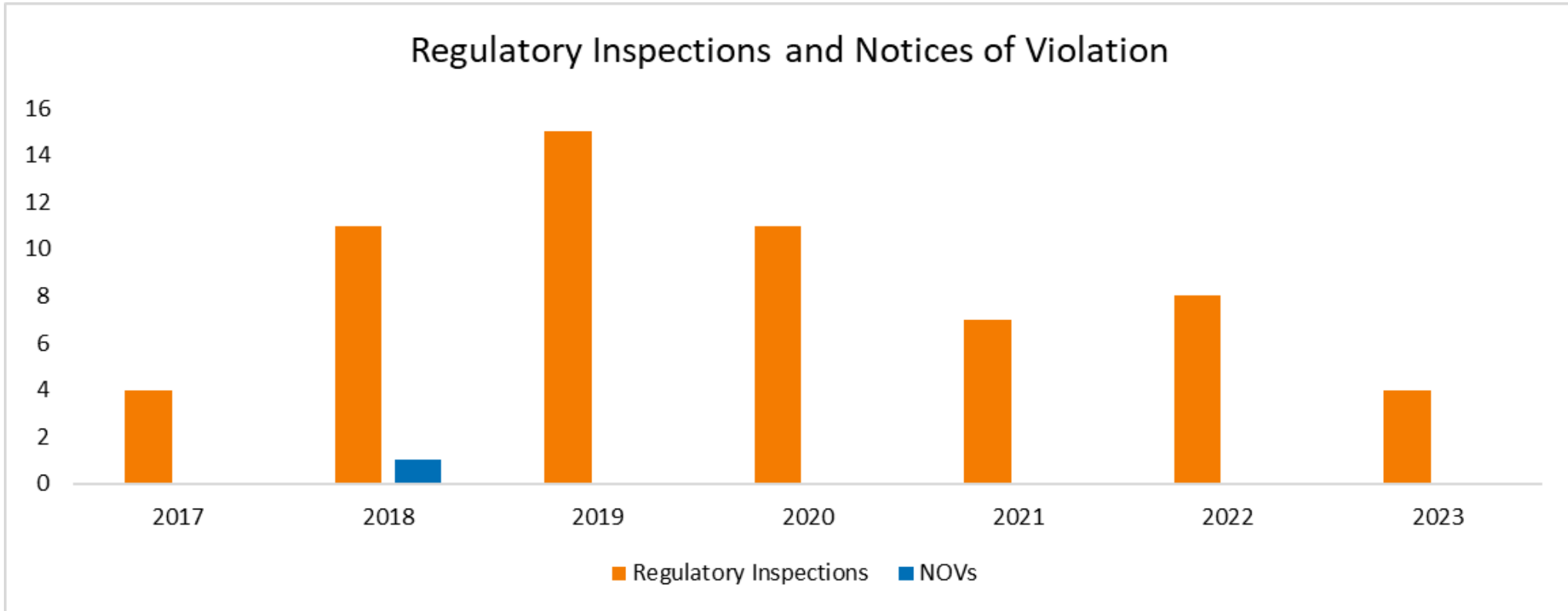
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- Emissions & Air Quality
- Water Conservation & Stormwater Quality
- Energy Efficiency & Renewable Energy
- Hazardous Materials & Waste Management
- Urban Heat Mitigation
- Sustainable Food Systems

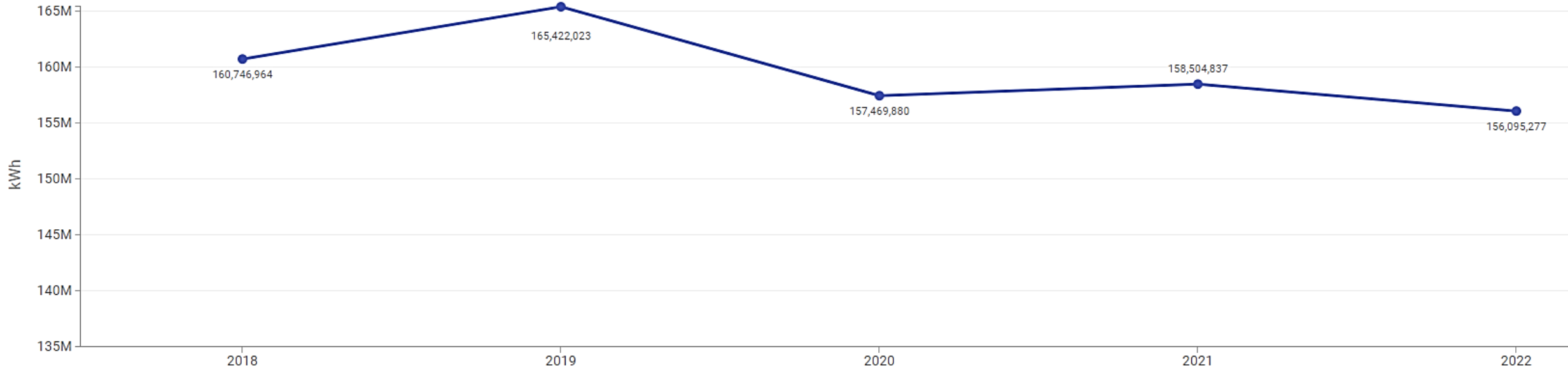


# Performance Measures



# Performance Measures

City Energy Usage By Year  
Total consumption by kWh



# Expenditure Summary

<b>Core Business Process</b>	<b>FY 21/22 Year End Actuals</b>	<b>FY 22/23 Revised Budget</b>	<b>FY 22/23 Year End Estimate</b>	<b>FY 23/24 Proposed Budget</b>
Water Quality	\$0.2	\$0.3	\$0.3	\$0.3
Air Quality	\$0.2	\$0.2	\$0.2	\$0.2
Hazardous Materials/Waste	\$0.2	\$0.2	\$0.2	\$0.2
Storage Tanks	\$0.1	\$0.5	\$0.5	\$0.5
Sustainability	\$1.1	\$1.5	\$1.4	\$1.5
Asbestos and Lead	\$0.1	\$0.2	\$0.2	\$0.2
<b>Total</b>	<b>\$1.9</b>	<b>\$2.9</b>	<b>\$2.8</b>	<b>\$2.9</b>

Dollars in Millions

# MCAP Project Update

## \$10M Funding:

- Community Electric Vehicle Adoption Project
- Flare to Fuel Project
- Lighting in City Buildings
- Solar @ Red Mountain Ball Park



# Electric Vehicle Master Plan

















- Fleet electrification
- Community EV adoption
- Workplace charging
- Regional partnerships
- Grant opportunities





# FY 23/24 Proposed Budget MCAP Projects



Adjustment	One-Time Funding	Ongoing	Council Strategic Priorities
Trees Are Cool Initiative	\$1,054,100	\$143,000	     
Food To Energy – Design	\$1,800,000		  
Red Mountain Sports Complex LED Lighting	\$2,152,000		   
Water – Use It Wisely	\$100,000	\$10,000	    
SRP Biomass Agreement	\$344,500		  
<b>Total</b>	<b>\$5,371,600</b>	<b>\$153,000</b>	



“Any meaningful climate action plan in Mesa must address heat mitigation, and trees have a significant role to play in providing shade, keeping temperatures low and filtering greenhouse gas emissions.”

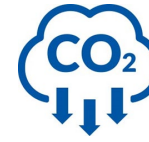


# 1 MILLION TREES BY 2050





# Trees Are Cool Initiative



New trees for Parks, City Buildings, and Transit Centers

Tree and Shade Programs Events

## Public Benefits:

- Mitigate Urban Heat
- Improve Air Quality
- Reduce Energy Use





# Trees Are Cool – Let's Plant!

**Celebrate Mesa: Living Green Village** – Tree Hugging Booth & Tree Planting in The Village (with tree booths staffed by West Coast Arborist, Trees Matter, AZ Dept. of Forestry & Fire Management, AZ Sustainability Alliance)

**Arbor Day Proclamation** at Mesa City Council Meeting

**National Volunteer Week Proclamation** – Plant 5 trees at Emerald Park.

**Tree Planting at Skyline Park** – Plant 20 trees with high school students

## Partnerships:

- Corporate volunteers and donors
- Nonprofit organizations
- Nurseries and contractors
- Government Agencies



# Food to Energy - Design

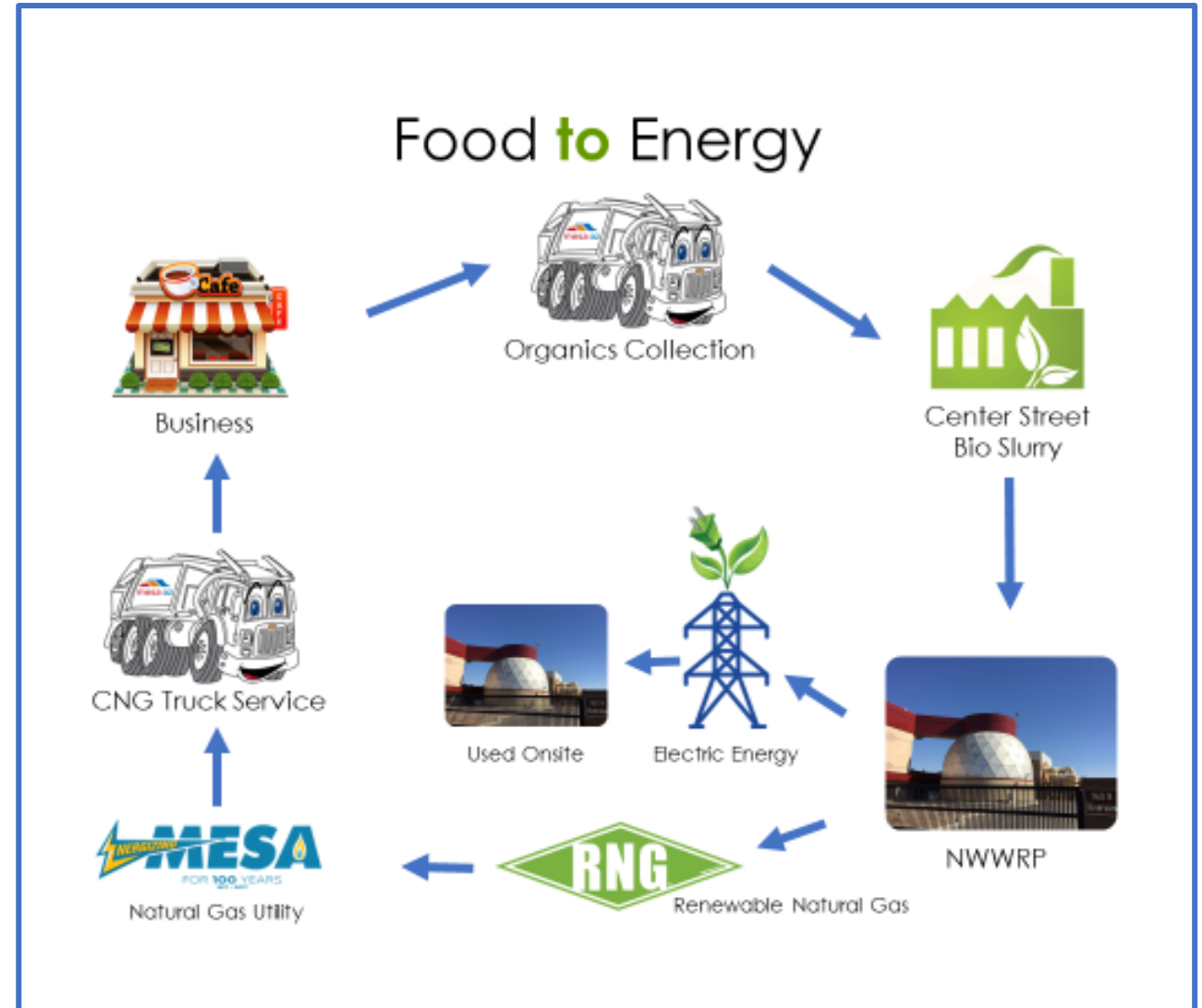


Using waste for renewable energy

Technical study of collection, processing, treating and delivery

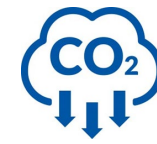
Public Benefits:

- Waste reduction
- Renewable fuel source
- Reduced greenhouse gas emissions





# Red Mountain Sports Complex LED Lighting



## Energy Efficiency Project

### Description & Public Benefits:

- New technology
- Improve quality of lighting and reduce glare
- 10.4 metric tons GHG removed





# Water Conservation

- Living Green
- Conservation Programs
- Program Development
- Amplified Messaging
- Investments
- Regional Partnerships





# Water – Use It Wisely Campaign

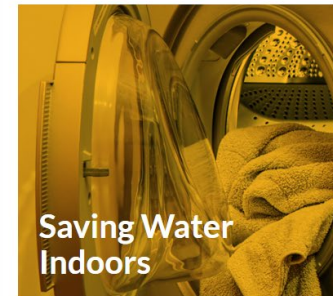
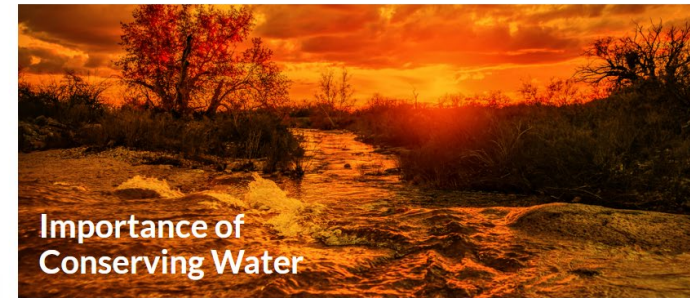


Campaign shows people how to use water more thoughtfully

- \$80,000 – Supplement WUIW’s base budget for a more “Robust” budget that includes funding for different mass-media tactics
- \$20,000 – “Know Your Numbers” campaign + co-brand WUIW/Mesa messaging



Light Rail wrap





# SRP Biomass Agreement



## Watershed Protection

- Use forest thinning biomass to generate renewable power

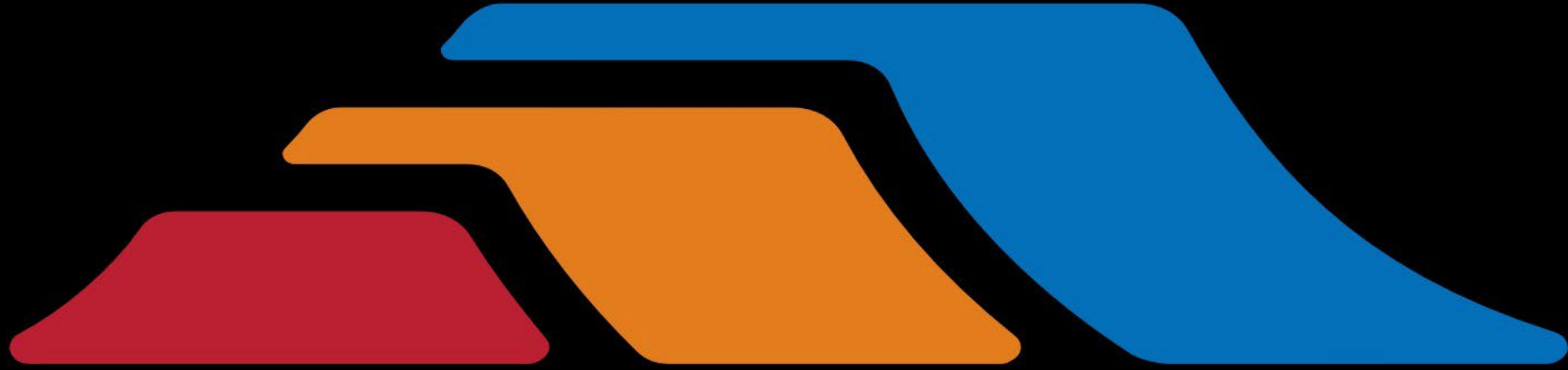
## Description:

- Contract Term – 10 years

## Public Benefits:

- Restore forests and watersheds to more natural conditions
- Provide reliable source of baseload renewable energy to SRP customers





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