



Environmental & Sustainability Department

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Fiscal Year 2023/24



Public Purpose



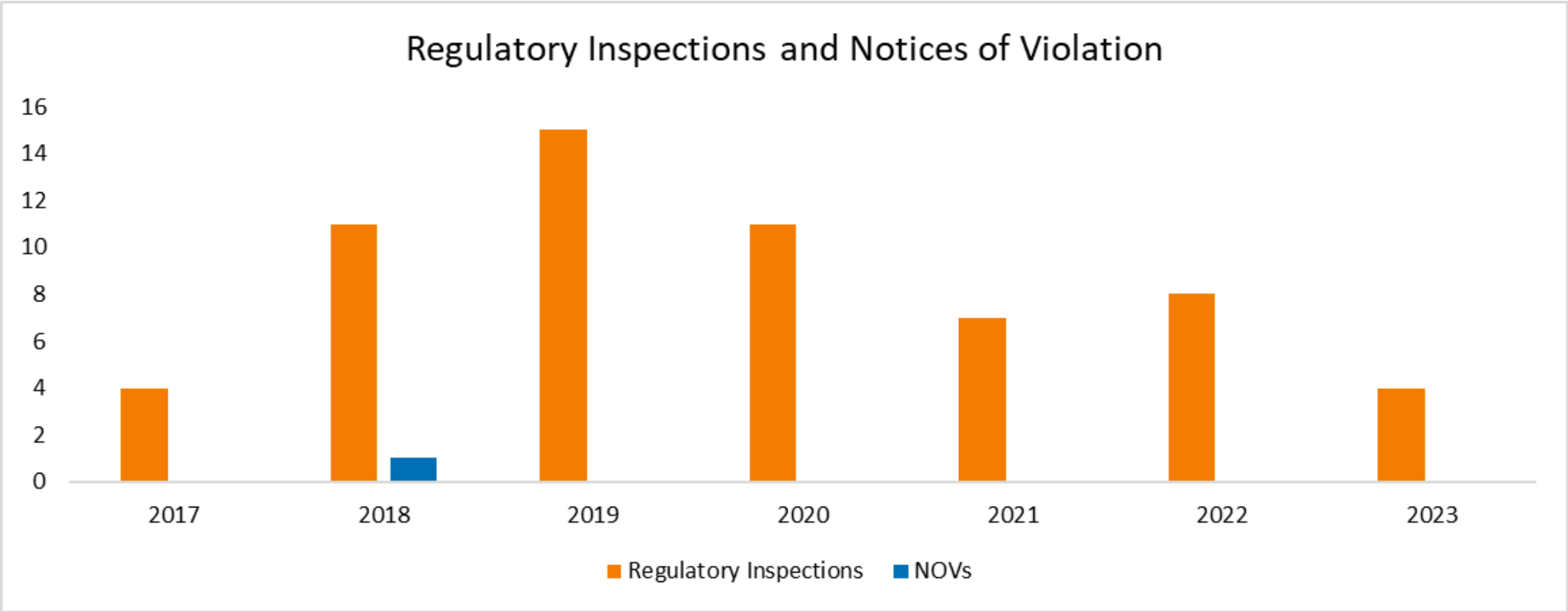
We proactively and responsibly protect and conserve Mesa's environment and natural resources for a resilient and healthy community for all.

Priorities/Objectives

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

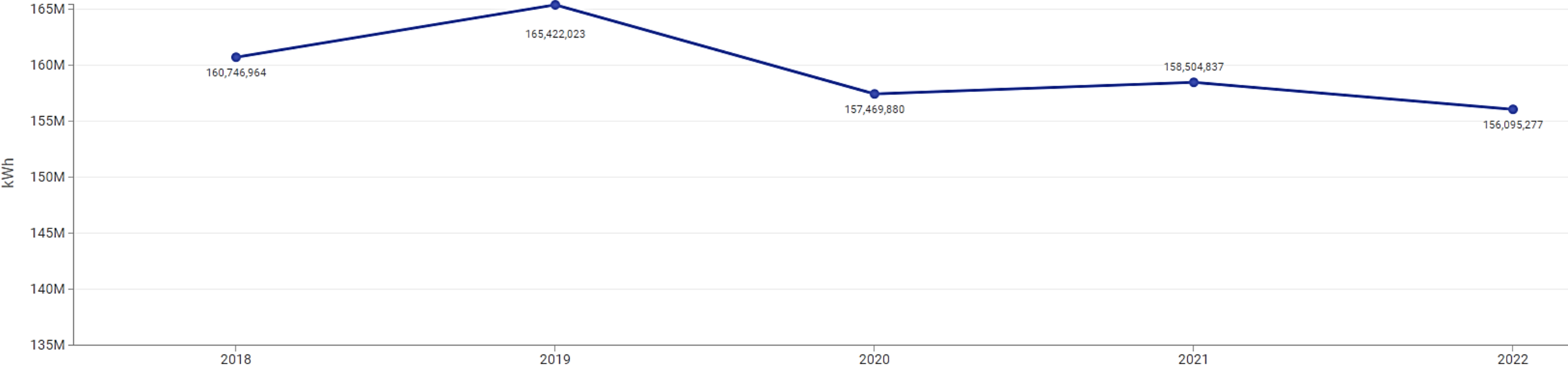


Performance Measures



Performance Measures

City Energy Usage By Year
Total consumption by kWh



Expenditure Summary

Core Business Process	FY 21/22 Year End Actuals	FY 22/23 Revised Budget	FY 22/23 Year End Estimate	FY 23/24 Proposed Budget
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
Total	\$1.9	\$2.9	\$2.8	\$2.9

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



Charging at the Convention Center

FY 23/24 Proposed Budget MCAP Projects



Adjustment	One-Time Funding	Ongoing	Council Strategic Priorities
Trees Are Cool Initiative	\$1,054,100	\$143,000	 Sustainable Environment  Community Health & Safety  Neighborhoods & Placemaking  Strong Community Connections  Thriving Economy  Skilled & Talented Workforce
Food To Energy – Design	\$1,800,000		 Sustainable Environment  Community Health & Safety  Thriving Economy
Red Mountain Sports Complex LED Lighting	\$2,152,000		 Sustainable Environment  Community Health & Safety  Neighborhoods & Placemaking  Thriving Economy
Water – Use It Wisely	\$100,000	\$10,000	 Sustainable Environment  Community Health & Safety  Neighborhoods & Placemaking  Strong Community Connections  Thriving Economy
SRP Biomass Agreement	\$344,500		 Sustainable Environment  Community Health & Safety  Thriving Economy
Total	\$5,371,600	\$153,000	

“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

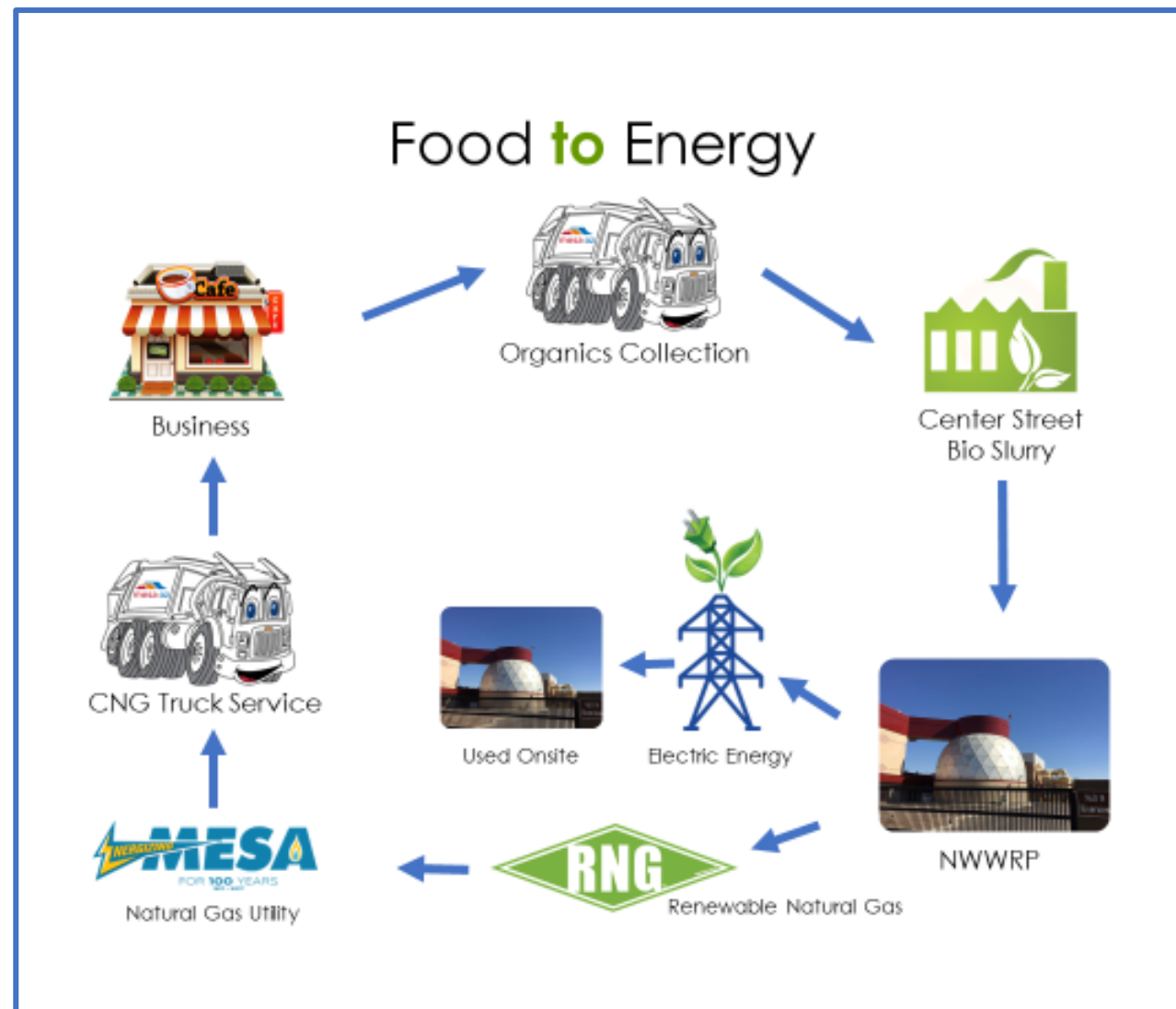


Using waste for renewable energy

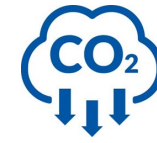
Technical study of collection, processing, treating and delivery

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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