



Sustainability Initiatives

Presented to:
Community and Neighborhood
Services Subcommittee
12-17-09

Scott Bouchie, Environmental & Sustainability Deputy Director



Sustainability Initiatives

- Current Initiatives
- Future Initiatives



LEED Design

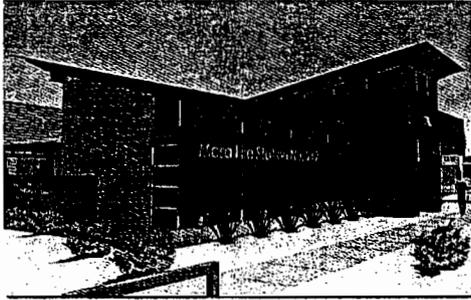


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U.S. Green Building Council (USGBC)

- ❑ Formed the LEED (Leadership in Energy and Environmental Design) rating system to provide a measure for green buildings
- ❑ Buildings deliver high performance inside and out
- ❑ Three City construction projects are being considered for LEED







Sustainable Cities Network



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ASU GLOBAL INSTITUTE
of SUSTAINABILITY
ARIZONA STATE UNIVERSITY



Sustainable Cities Network

- ❑ ASU's Global Institute of Sustainability, city, county, and tribal leaders working together
- ❑ Mesa is actively involved with the Steering Committee, a Solar and a Best Management Practices Subcommittee
- ❑ Shares knowledge and coordinates efforts to solve regional problems

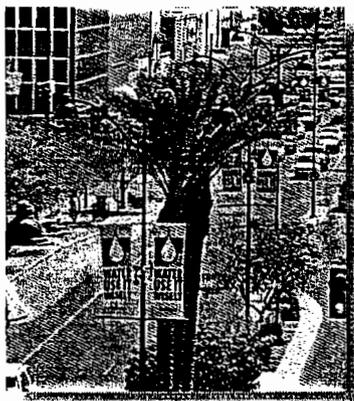
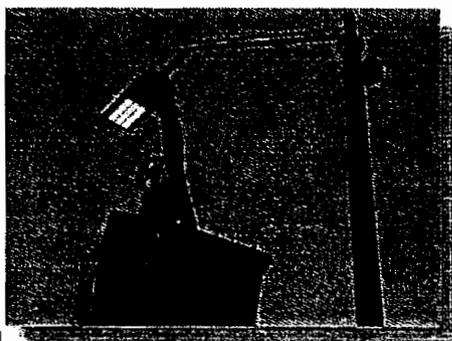


Energy Efficiency



Energy Efficient Street Lighting and Traffic Signals

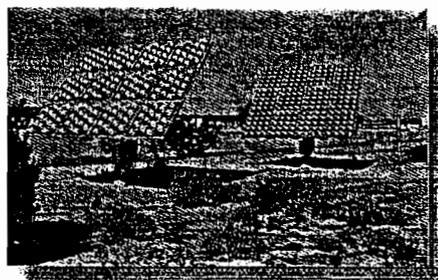
- Stimulus funds will reduce street lighting costs by installing energy efficient lights



Solar Projects



- SolFocus, Inc., a local solar manufacturer, builds concentrator photovoltaic solar arrays
- Through stimulus funds, the City will invest in this local business by purchasing 11 arrays to help meet Mesa's energy needs, and to foster the development of solar technologies



 **Mesa Recycles**

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Blue Barrel Recycling

- ❑ Now taking plastics 1-7
- ❑ Piloting RecycleBank

Green Barrel Recycling

- ❑ Used for unbagged yard waste such as grass, leaves, plant trimmings, and tree branches



 **Mesa Recycles**

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- ❑ Christmas tree recycling
- ❑ Paint reuse (from household hazardous waste events)



- ❑ Backyard Composting
- ❑ Green Sweep





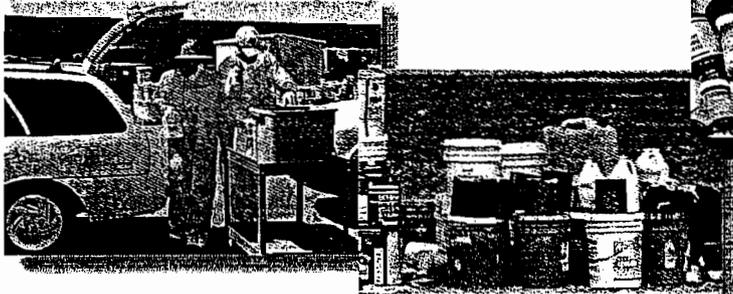
Mesa Recycles



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Household Hazardous Waste Program

- Held four times each year
- Collection of liquids such as oil, antifreeze, aerosols, flammables and paints
- Collection of electronics, appliances, batteries and tires
- Now accepting prescription drugs

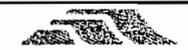




Now accepting prescription drugs



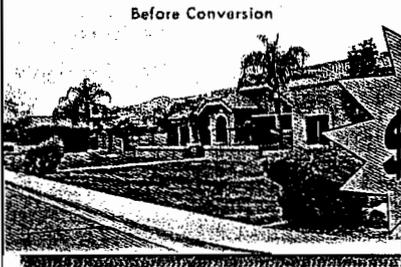
Water Conservation



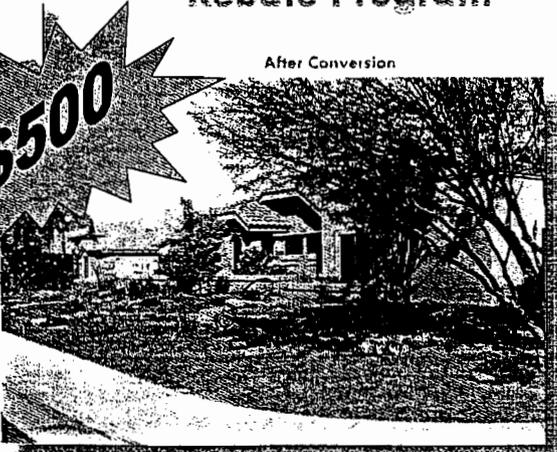
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Grass-to-Xeriscape Rebate Program

Before Conversion



After Conversion





Remove at least 500 square feet of grass and get a \$500 rebate!



Sustainability Outreach



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LIVING GREEN
EARTH-FRIENDLY ADVICE FOR HOME & GARDEN

Workshop Series

Energy Efficiency Water Harvesting
Green Building
Composting



How to Go Solar attracted 147 attendees

- ❑ Sustainability Savings Tips
- ❑ Living Green books at Mesa libraries
- ❑ Sustainability Web site
www.mesaaz.gov/sustainability



Zoning Code Update



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- ❑ Encourage mixed use & transit oriented development
- ❑ Create infill overlay zoning district
- ❑ Increase residential densities options

- ❑ Density bonuses for green developments
- ❑ Farmers market & community gardens
- ❑ Developing standards for renewable energy



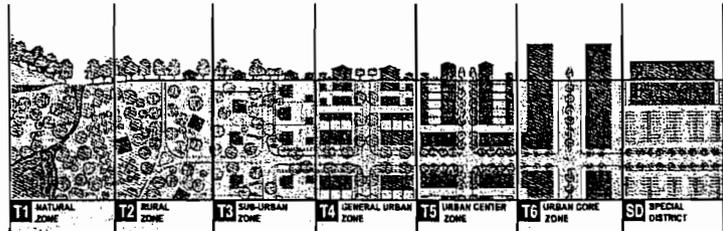


Land Use Plans



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- ❑ Central Main Plan
- ❑ Mesa Proving Grounds Community Plan
 - Compact, Mixed Use, Walkable Communities
 - Encourages More Energy Efficient Development





Future Initiatives



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Encouraging

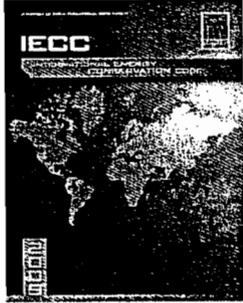
- Sustainable Development
- Sustainable Practices

 **Energy Code**


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Currently no Energy Conservation Code in place

- Evaluate adoption of 2009 International Energy Conservation Code
- Code addresses building envelope, lighting, and mechanical
- Stimulus funded

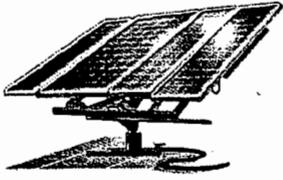


 **Energy Conservation**


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Encourage Sustainable Practices

- Clotheslines
 - No City prohibition on clotheslines
 - Some HOA CCRs prohibit
- Solar
 - No permit required
 - State Law Restricts HOA Requirements



 **Water Conservation** 
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Encourage Sustainable Practices

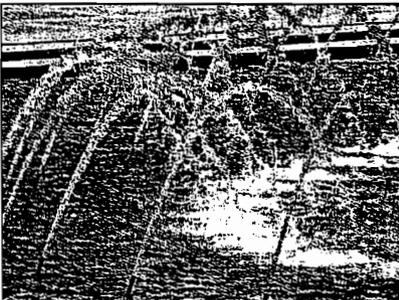
- Beneficial Use of Rainwater
 - Curb Cuts, Rainwater Collection Systems, Permeable Pavement, Compact Development
 - Examine Obstacles
 - Try to make norm instead of exception
- Restricting HOA Requirements
 - Grass/ Overseeding

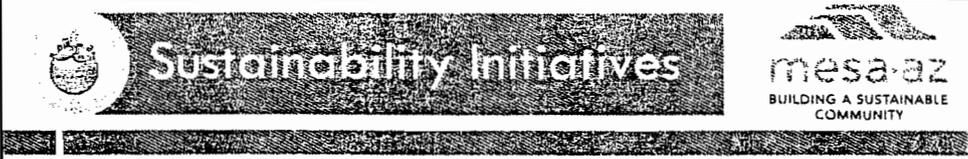


 **Water Conservation** 
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Encourage Sustainable Practices

- Water Waste
- Submetering
- Water Feature
- Landscape Meters
- Grey Water

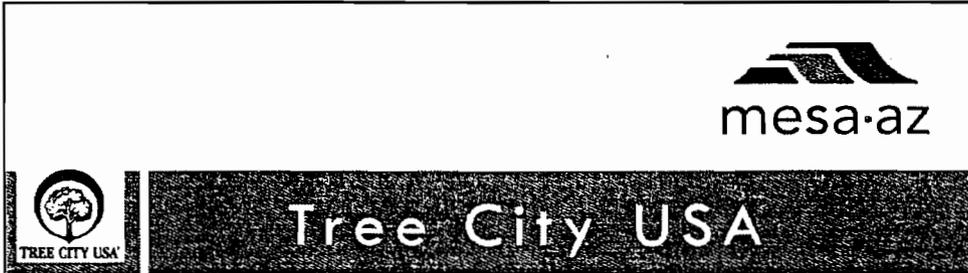




Sustainability Initiatives

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Questions?



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Tree City USA

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Basics



- Management Academy Recommendation
- Council Interest in Pursuing
- Currently Meet Most of the Requirements



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Benefits



- Cleaner air, shadier streets, reduce greenhouse gases and aesthetic beauty
- Serves as a blueprint for planting and maintaining a community's trees.
- Encourages better care of urban forests.
- Tells visitors, through signage, that here is a community that cares about its environment.



TREE CITY USA®



Standards Required



1. Community Forestry Program with an Annual Budget of at Least \$2 Per Capita
2. Community Tree Ordinance
3. An Arbor Day Observance and Proclamation
4. Tree Advisory Panel



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Budget



- 1. Community Forestry Program with an Annual Budget of at Least \$2 Per Capita**
 - Current Expenditures - \$1.24 Million
 - Parks - \$658K
 - Transportation - \$549K
 - Facilities - \$39K
 - Expenditures = **\$2.77/capita**



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Ordinance



2. Community Tree Ordinance/Plans

- Desert Uplands
- Citrus Sub-Area
- Landscaping Standards



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Arbor Day Observance



3. An Arbor Day Observance and Proclamation

- Reach out to Community
- Partner w/ Local Businesses



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Tree Advisory Panel



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4. Tree Advisory Panel

- Track Expenditures
- Develop Standard Tree Care Practices
- Coordinate the Arbor Day Celebration



Celebrate with Heron Glen
Earth Day Arbor Day
Celebrate with Heron Glen
Children's Activities
Environmental Displays
FREE ADMISSION - SOMETHING FOR EVERYONE!
Saturday • April 25 • 10am - 2pm



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Tree City USA



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Next Steps

- Back to full Council w/ application for approval
- Forwarded to the State Forester for approval
- Forwarded to Arbor Day Foundation
- Become a Tree City!!!
- Annual report



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Tree City USA



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Questions?