

Sustainability Update Planning Commission February 4, 2010

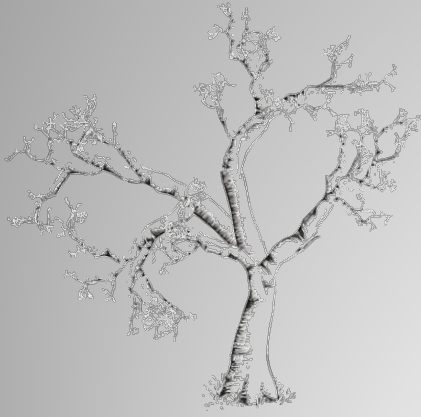


Thomas Perrigo,
AICP



Outline

- Urban Forestry Initiative
- ARRA/EEECBG
- HomeFree NV
- Green Chips



City of Las Vegas Tree Inventory Location



Ward 1

- 2,335 (Parks)
- 134 (Street)

Ward 3

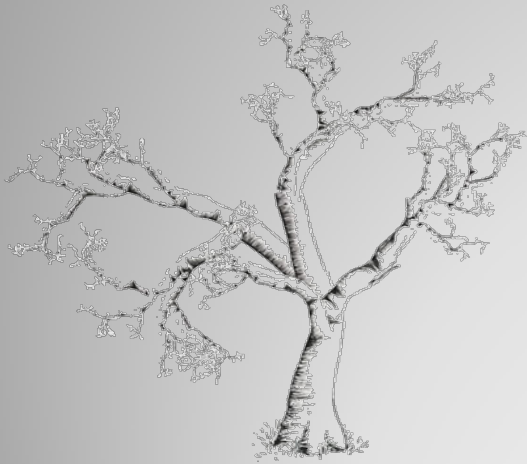
- 2,084 (Parks)
- 4,663 (Street)

Ward 5

- 5,065 (Parks)
- 2,783 (Street)

Total Trees

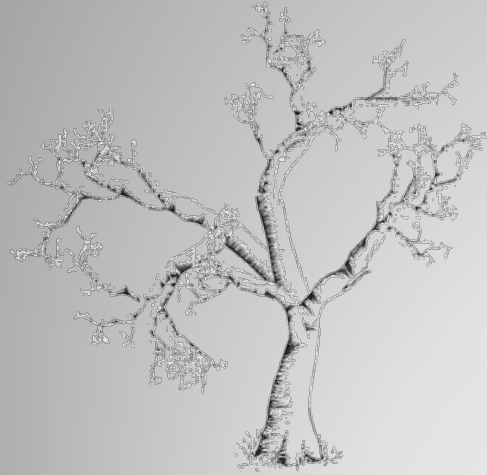
17,064



City of Las Vegas Tree Inventory Location

Parks &
Facilities
(56%)

Street Trees
(44%)



City of Las Vegas Tree Inventory Health

56% Good – Excellent

42% Fair – Poor

2% Dead or stumps



City of Las Vegas Tree Inventory Benefits

Carbon Storage

• Lifetime: \$ 87,642

Air Quality

• Annually: \$ 45,352

Storm Water
Management

• Annually: \$ 36,525

Aesthetic/Other

• Annually: \$469,217

Source: iTree Software (USDA Forest Service & Davey)



City of Las Vegas Tree Inventory Next Steps

- Urban Forestry Management Plan
- Form-based Code (reviewing)
 - Parking lot – flexible planting stds
 - Hardscape – canopy coverage

ARRA & EECBG Solar Facilities Progress



- **Baseline**
 - ENERGY STAR® Portfolio Manager
- **Design / Build Package**
 - \$4.15 million budgeted in EECBG application
 - \$13 million total program
- **Construction Timetable**
 - 6 solar carports – Quarter 2 – 2010
 - 11 solar carports – Quarter 3 – 2010



ARRA & EECBG City Retrofits Progress

- Energy Audit- Quarter 1 (2010)
 - Audited 17 City facilities
 - Identify “low-hanging fruit”



ARRA & EECBG Streetlight Upgrade Progress

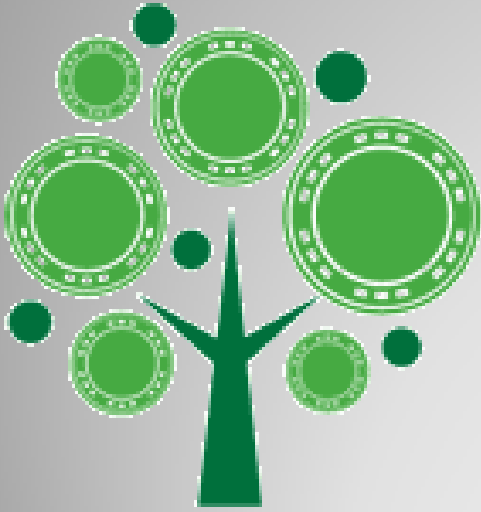
- **Master Plan Proposal**
 - Phase 1 and 2: replace 24,128 mercury vapor / high pressure sodium lights
- **Project Budget**
 - \$780,000 budgeted in EECBG application
 - \$5.85 million Qualified Energy Conservation Bonds
- **Construction Timetable**
 - Quarters 2 & 3 – 2010



HIGH PERFORMANCE HOMES

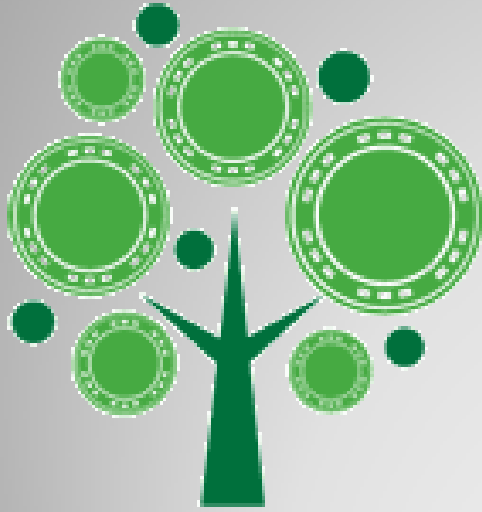
ARRA & EECBG HomeFree NV Audit Update

- EECBG \$250,000
- Audit and Retrofit Rebates



ARRA and EECBG Green Chips Partnership Update

- **\$175,000 funding**
- **Revolving Loan Program**



Green Chips Update

- **“Convene for Green”**
 - ‘Sustainability’ vision – LV Valley
- **Establishing revolving loan fund**
 - Local and national lenders
- **Rebuilding Together and Shade Tree**