

Sustainability

Shaping the now; preserving the future.

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Why Sustainability?

- In short, sustainability planning takes into account economic, environmental, and equity issues into each decision that is made to ensure none suffer for the benefit of one.
 - Promote economic prosperity, healthy communities and environmental improvements
 - Addresses vulnerabilities – drought, heat, aging infrastructure
 - Builds community pride – eyes on the block
 - Empowers citizens – acknowledges contributions, obtains input
 - Provides essential services – meets needs, anticipates changes

Sustainable Dallas

- Energy
- Air Quality
- City Fleet
- Green Building
- Water Conservation and Reuse
- Community Gardens
- Recycling
- Waste To Energy
- Trinity River Corridor Project
- Social Equity

Energy

- 50% of the City's power comes from renewable energy
 - Renewable energy comes primarily from wind power
 - Projected reductions: 270,000 tons CO₂e per year
- Consistently meeting energy efficiency goals primarily through performance contracting
- Lighting retrofits in City facilities
- Waste-to-energy and solar at City facilities
- On-site production increases independence
- What else?



Air Quality

- Greenhouse Gas (GHG) emissions inventory
- Ozone and carbon reduction strategies
- Emissions reduction target: 39% over 1990 levels by 2017

- Leading cause: transportation impacts

- Why? What's next?
- What happens if we don't address air quality?



City Fleet

- 38% of the City's fleet is now alternative-fueled or hybrid
- Early user of Texas Low Emission Diesel (TxLED) and biodiesel
- Developed and currently operates two public access compressed natural gas (CNG) vehicle fueling facilities
- Electric vehicle charging stations at City Hall and other City facilities
- Hybrids purchased for Sanitation Fleet
- Does this help?



Green Building

- As of February 2014, 29 City facilities are LEED certified and 20 other projects are registered.
- City Manager authorized to reconvene Green Building Task Force in 2015.
- Why build green? What is the benefit?
 - Platinum 14
 - Gold 55
 - Silver 125
 - Certified 345
 - Registered 273
(as of November 2014)

DPD South Central Police Station
Built to LEED Gold Standards



Water Conservation and Reuse

- Billions of gallons saved since 2001 through public education, audits/inspections, retrofits and replacements, and water restrictions
 - Toilet rebate program “New Throne for your Home”
 - 5 year gallons per capita day average: 199
 - FY12-13 gpcd: 187
 - FY13-14 gpcd: 182
- Beneficial reuse
 - Cedar Crest, Stevens Park golf course
 - FY10-11: 84.7M gal
 - FY11-12: 60.2M gal
 - FY12-13: 55.6M gal
 - FY13-14: 36.2M gal
- When will it rain?



Community Gardens

- Provide food independence
- Beneficial repurposing of the land
- Overcome food desert pressures
- Restore community cohesion
- Reduce crime rates through increased visibility

- Sustainable Food Systems planning

- How far away is your food?



Recycling

- Residential recycling at 75.1% participation
- Tons recycled
 - 45,152 tons in FY09-10
 - 48,983 tons in FY10-11
 - 51,300 tons in FY11-12
 - 53,280 tons in FY12-13
 - 53,638 tons in FY13-14
- Beneficial reuse of asphalt, concrete, glass, and sawdust at McCommas Bluff Landfill
 - 20,563 tons in FY11-12
 - 34,944 tons in FY12-13
 - 61,686 tons in FY13-14 (no sawdust)
- What more can we do?



Waste to Energy

- Enhanced Leachate Recirculation at McCommas Bluff
 - Projected to:
 - Extend life of landfill by increasing breakdown of organic matter
 - Release methane for recapture to power and heat homes
- Cogeneration Facility at Southside Waste Water Treatment Plant
 - Projected to:
 - Reduce carbon dioxide more than 71%
 - Eliminate mercury emissions
 - Reduce grid burden by 30,000,000 kWh per year
 - Save \$900,000 per year
 - Generate 30,000 RECs
 - Reduce DWU electric bill by 7%, COD by 4%

Trinity River Corridor Project

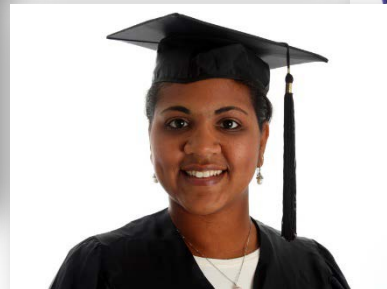
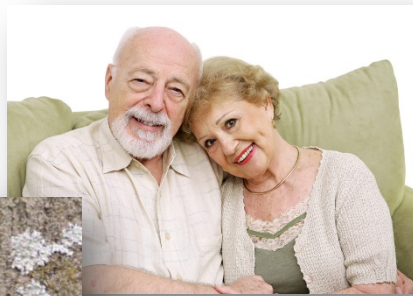
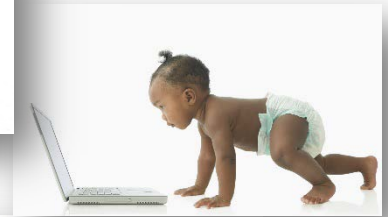
- A flood protection solution with opportunities for community revitalization, economic development and creation of a world-class greenway
- 10,000 acre project
 - New York City's Central Park has 843 acres of which only 136 are wooded acres
- LEED Platinum Trinity River Audubon Center is the flagship Center for Audubon's education and conservation initiatives in Texas



THE TRINITY
DALLAS

Social Equity

- Preserve cultural identity
- Increase opportunity naturally
- Provide better access
- Promote equitable development
- Strengthens entire city
- Empowers all



What Can We Do?

- Live today to have enough tomorrow
- Civic engagement
- Contact lawmakers
- Volunteer
- Evaluate decisions
- Balance

