

US EPA ARCHIVE DOCUMENT



National Initiative Launch Strategy

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Briefing Purpose

- **Provide background on the National Sustainable Skylines Initiative (SSI) effort**
- **Discuss status of Dallas and Kansas City projects**
- **Discuss initiative expansion**



Program Goals

- **Integrate transportation, energy, land use and air quality planning**
- **Implement projects that yield measurable air quality benefits within 3 years**
- **Create an innovative program that is replicable**
- **Provide flexibility to meet the needs and priorities of individual areas**



Objectives

- **Place-based and locally-driven**
- **Collaboration between multiple stakeholders**
- **Identify resources among partners**
- **Utilize consensus-based project selection approach**



National Project Categories

- **At least one project in 5 of the 7 categories:**
 - **Central city livability**
 - **Stationary and area sources**
 - **Energy/climate**
 - **Land use transportation strategies**
 - **Diesel engines**
 - **Green buildings and developments**
 - **Off-road sources**



Target Areas

- Areas with a focus on local air quality concerns but have opportunity for multi-media co-benefit
- Areas in non-attainment or near non-attainment
- Areas with air toxic concerns
- Areas with a focus on climate change
- Medium to large sized communities with a significant corporate presence



Initiative Partners

- **Internal EPA**

- OPEI
- OSWER
- OW
- OAP
- OTAQ
- OPPTS

- **External Agencies**

- DOE
- USDA
- FAA
- DOT



- **Exploring possibility of academic partner**



SSI National Goal

SSI: 20,000 in 10 by 2010

By 2010 the Sustainable Skyline's locally-driven initiatives will reduce 20,000 tons of pollutants in 10 cities.



Future Direction

- **In 2008 select and fund 3 to 5 areas**
 - **Headquarters contributes technical and financial resources**
 - **Regions provide coordination and other resources**

- **Have in place by 2010 10 area projects with at least 1 in each Region**



Sustainable Skylines - Dallas



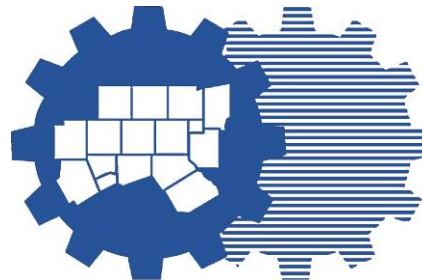
Sustainable Skylines - Dallas

The Dallas Initiative

A three-year partnership among the EPA, the City of Dallas, and the NCTCOG, to promote sustainability in the City of Dallas through voluntary programs, with an emphasis on air quality.



City of Dallas



North Central Texas
Council of Governments

www.sustainable Skylines.org/dallas



The Dallas Sustainable Skylines Initiative (DSSI)

- **Launched the local initiative March 21, 2007 with a public signing of the MOU between the 3 Core Management Group members:**
 - **EPA (Region 6, OAQPS)**
 - **City of Dallas**
 - **NCTCOG**





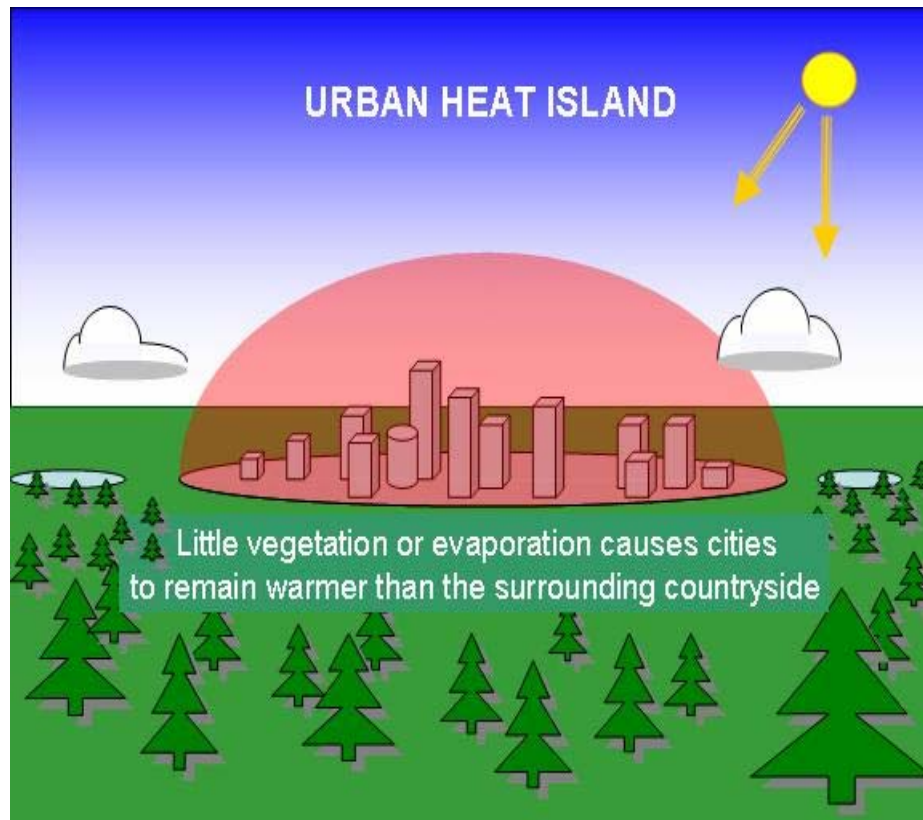
Project Categories

Seven Projects in Five Categories:

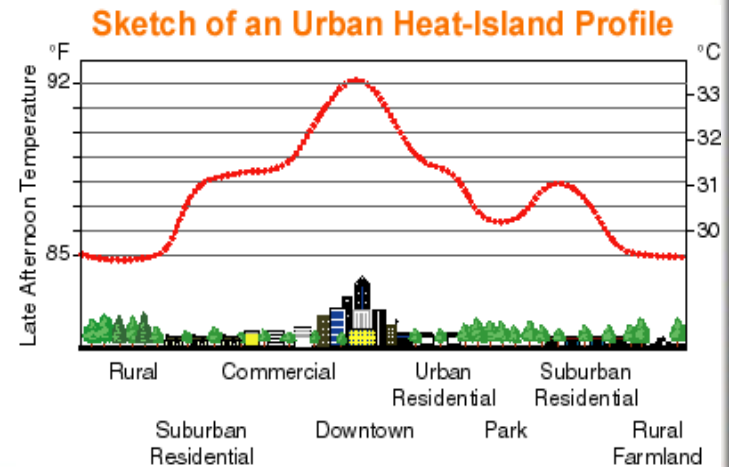
1. Central city livability
2. Green buildings and developments
3. Renewable energy/energy efficiency
4. Stationary/area sources
5. Off-road sources



Project 1: Urban Heat Island/Stormwater Mitigation



Decrease the amount of
heated surfaces
&
Increase the permeability
of surfaces





Project 2: Green Taxi Program

Yellow cab embraces green taxis!





Sustainable Skylines - Dallas

Project 3: Green Buildings Project

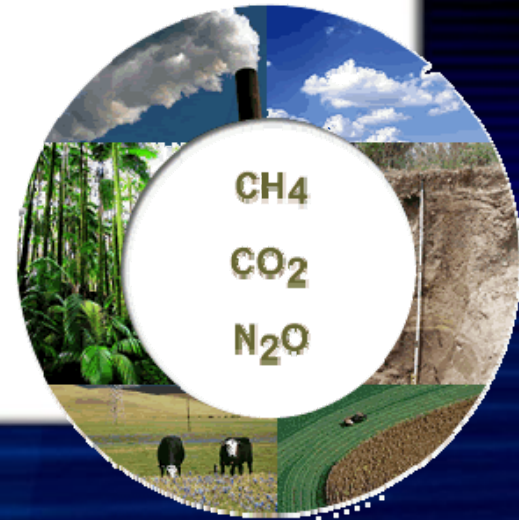
- Link green building techniques with affordable housing initiatives
- Address the need for residential construction that is both affordable and environmentally friendly
- Construct highly energy efficient green homes.





Project 4: Greenhouse Gas Strategy

- **Complete a greenhouse gas reduction inventory for the City of Dallas**
- **Implement energy efficiency and renewable technologies for city-owned and other affiliated buildings**





Project 5: Renewable Energy/Energy Efficiency Outreach

- Reduce energy usage in retail stores**
- Increase the energy efficiency awareness of customers**
- Promote the purchase and use of energy efficient household items**
- Educate DISD students & their parents regarding energy efficiency**





Project 6: Site Assessment Visits Plus Program (SAV+)

- **State Agencies provide Pollution Prevention (P²) guidance to businesses**



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



Project 7: Small Off-Road Equipment Replacement & Retrofits

- **Replace small gas and diesel powered landscaping and maintenance equipment with electric and hybrid powered equipment**



Current, Official Partners



- Green Mountain Energy
- KDFW-TV Fox 4
- Yellow Cab
- Agriboard
- Dallas Habitat for Humanity
- IKEA
- Sustainable Development, LLC
- Dallas Independent School District
- Da Vinci School
- 3 Billion Renewable Energy
- Texas State Energy Conservation Office
- GreenStar Builders
- Ferrier Custom Homes
- Enviroguard/
Professional Polish



Sustainable Skylines - Kansas City



Sustainable Skylines - Kansas City



Missouri Department of
Natural Resources



Johnson County KANSAS GOVERNMENT
WWW.JOCOGOV.ORG

...a partnership for clean air and
sustainability in Kansas City

www.epa.gov/region07/citizens/ssi.htm

Potential project categories:

**Central city livability; Stationary and area sources;
Energy/Climate Change Mitigation; Land
use/transportation strategies; Diesel Engines; Green
buildings and developments; Off-road sources**

Kansas City's Selected Projects:

Kansas City Future Forum

Be Water Wise

What if Parking Lots were Parks?

KC Idle Free

Solar KC

"Constructing" Clean Air

KC Idle-Free

Idle Reduction Makes \$ense



Limiting engine idling reduces:

- Fuel costs
- Human exposure to exhaust emissions
- Diesel engine wear and maintenance costs
- Emissions contributing to ozone and greenhouse gases

KC Idle-Free is a campaign to educate public and private diesel fleets on the benefits of reduced idling.

A solution to reduce air pollution!



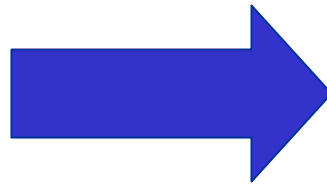
Parking Lots to Parks

Heat Island Mitigation



Reducing the urban heat island effect
through green parking lot design

From this . . .



To this!



Benefits include:

- Reducing temperature
- Reducing air and water pollution
- Managing storm water
- Making parking lots pedestrian friendly

"Constructing" Clean Air

Pursuing Clean Diesel Technologies



Benefits of diesel retrofits:

- Reduced fine particle emissions by at least 20 percent
- Reduced hydrocarbon emissions by 50 percent
- Reduced carbon monoxide by 40 percent
- Improved air quality

Kansas City Future Forum

How do we become a green region?



What commitments can we make for a sustainable future?

Revitalizing core neighborhoods and building green...



Walking...



...instead of sitting in traffic.

Our goal is to create a sustainable region by increasing the vitality of our social, economic and environmental systems for the benefit of current and future generations.

Recycling...



...instead of filling the dumpster.



...to minimize urban sprawl and vehicle dependency.

Be Water Wi\$e

Conserve water!



Overwatering is wasteful, washes away fertilizers and other chemicals, and contributes to storm water pollution.

Routine system maintenance and simple adjustments to watering schedules can save water and money.



Rain gardens are smart because they:

- Remove storm water pollution
- Control flooding and erosion
- Cut mosquito populations
- Are attractive



Solar KC

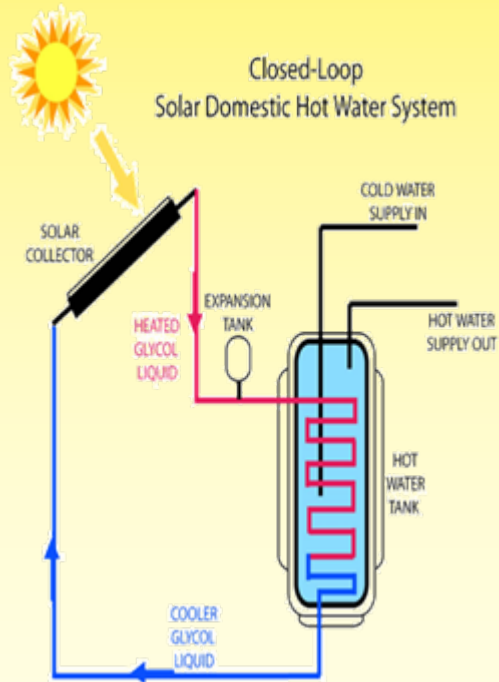
... a solar power program for schools
and public buildings



Solar panels for a one kilowatt system can reduce annual emissions of:

- Carbon monoxide by 2,492 pounds
- Sulfur dioxide by 13 pounds
- Nitrogen oxides by 4 pounds

Solar hot water systems reduce greenhouse gases by an average of 20 percent.





For More Information

- **Contact project coordinator:**
 - Yvonne W. Johnson
 - Johnson.yvonnew@epa.gov
 - 919-541-3921
- **Visit pilot project websites:**
 - Dallas
 - www.sustainable Skylines.org/dallas
 - Kansas City
 - www.epa.gov/region07/citizens/ssi.htm