

# Brownfields Sustainability Pilots

Business of Brownfields

April 16, 2009



# Introduction

- What are Brownfield Sustainability Pilots?
  - EPA effort to promote environmental sustainability at local brownfields projects
- Projects receive technical assistance to support sustainable activities
- EPA awarded 16 Pilot communities with \$20k-\$50k each in technical assistance

# Pilot Purpose

- To demonstrate and promote best practices that can be used by other communities across the country
- To understand the challenges to sustainable reuse of brownfield sites and share lessons learned
- To further the Office of Brownfields and Land Revitalization's mission to sustainably reuse brownfields

# Pilot Projects

- 16 Pilots located across the country
- Pilots generally fall within one or more of the following categories:
  - Reuse & recycling of construction and demolition (C&D) materials
  - Stormwater management
  - Green buildings/energy efficiency
  - Renewable energy development
  - Green job training

# Construction & Demolition Materials Pilots

Consisting of debris generated in the C&D process, waste can often be reused or recycled.

- Pilot Projects
  - Allen-Morrison, Lynchburg, VA
  - Cleveland Resource Recovery, Cleveland, OH
  - Langdale and Riverdale Mills, Valley, AL



Rooftop view of Langdale Mill in Valley, AL

# Stormwater Management Pilots

Effective stormwater management retains topsoil, prevents the runoff of contaminated materials, and in some cases, filters contaminants.

- **Pilot Projects**
  - Delta Sigma Theta, Portland, OR
  - Jackson Square, Roxbury, MA
  - Laredo Recreation Center, Laredo, TX
  - Moran Center, Burlington, VT
  - The Waterfront, Allentown, PA



Moran Center building, Burlington, VT

# Green Buildings and Energy Efficiency Pilots

The practice of creating structures that are resource efficient throughout a building's lifecycle.

- Pilot Projects
  - Anvil Mountain Neighborhood, San Juan County, CO
  - Commercial Street Historic District, Springfield, MO
  - Focus: HOPE, Detroit, MI
  - Greenville Workforce Housing Project, Greenville, SC
  - Samoa Peninsula, Humboldt County, CA



Commercial Club Building, Springfield, MO

# Renewable Energy Pilot

Energy that comes from non-limited resources like wind, solar, and geothermal heat.

- Pilot Project
  - Houston Solar Project  
Houston, TX



Aerial view of landfill site with proposed solar panels, Houston, TX

# Green Job Training Pilot

Training that produces the skilled environmental technicians needed to clean up and sustainably reuse brownfields, creating jobs and spurring local economic development.

- Pilot Project
  - Tabor Commons  
Portland, OR



Tabor Commons former gas station, Portland, OR

# Results

- Renewable energy feasibility study
- Materials recycling template
- Green Building analyses and design specs
- Stormwater Management Plan

# Lessons Learned

- Interest high
- Knowledge and experience low
- Project should be at right stage
- Plans change

# On the Horizon

- More Brownfields Sustainability Projects planned
- Finalizing EPA-DOE interagency agreement with the National Renewable Energy Lab (NREL) to provide energy related help
- EPA working with ASTM to develop a green cleanup standard

# Additional Information

- For more information about the Sustainability Pilots, visit:  
[http://www.epa.gov/brownfields/sustain\\_plts/index.htm](http://www.epa.gov/brownfields/sustain_plts/index.htm)
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