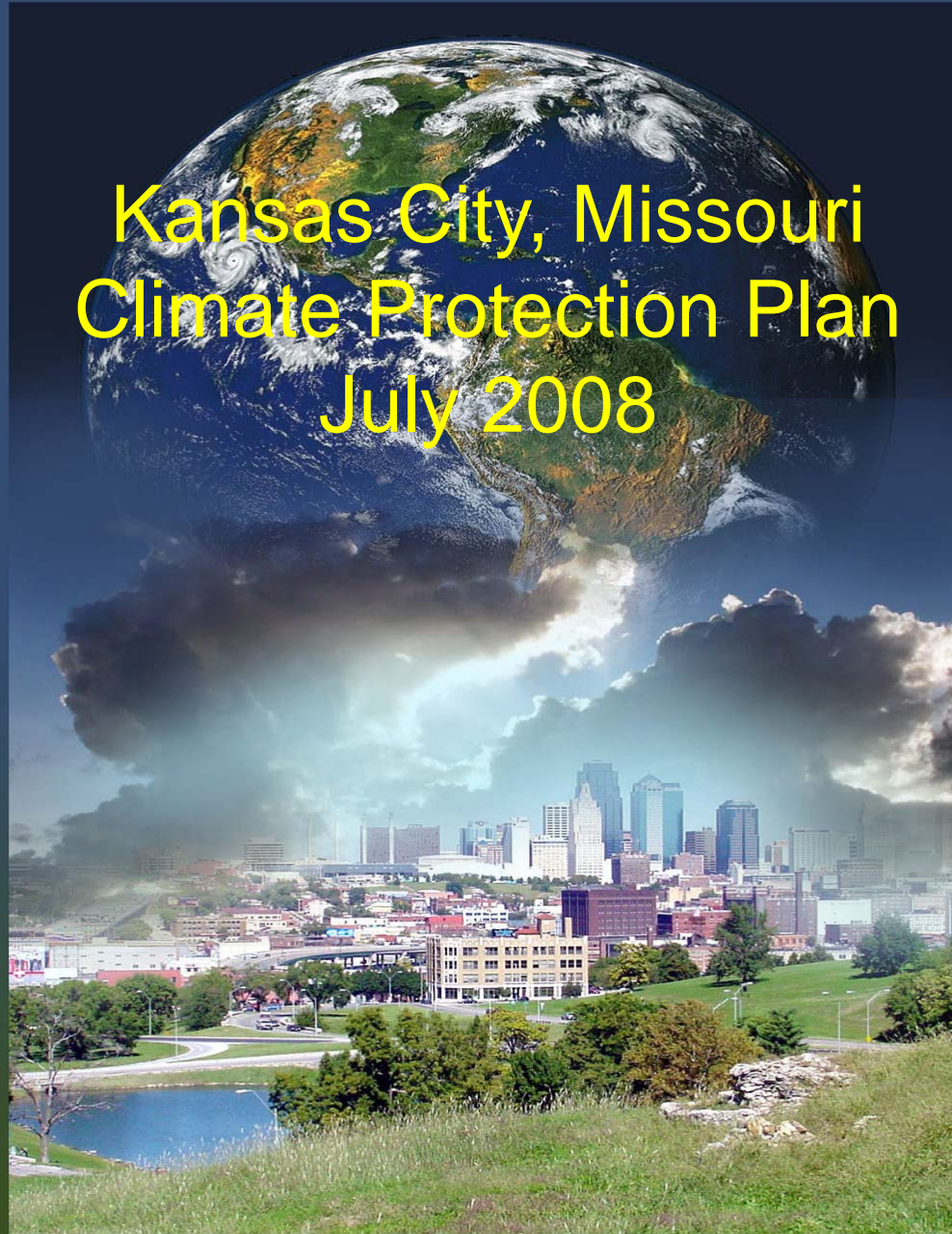




# Kansas City, Missouri Climate Protection Plan July 2008





Mayor Barnes signed the U.S. Conference of Mayor's Climate Protection Agreement in 2005

City Council passed Ordinance 060777 in 2006 authorizing the Mayor to undertake a Climate Protection Planning Process





# KANSAS CITY CLIMATE PROTECTION PLANNING PROCESS

- Develop a baseline inventory
- Establish a greenhouse gas (GHG) reduction goal
- Prepare an action plan to achieve the GHG reduction goal





# City Joined ICLEI-Local Governments for Sustainability

- Access to software to identify local sources of GHG emissions & develop baseline inventory
- Network with other cities doing climate protection plans
- Review other local government plans & planning processes





# Mayor Barnes appointed a Steering Committee in September 2006

- Oversee the planning process
- Establish a GHG reduction goal
- Make recommendations for actions to be included in the KC plan



# Steering Committee

Joanne Collins, Chair

J C Alonzo, Environmental Management Commission (Phase 1)

Bob Berkebile, Environmental Management Commission , BNIM

Scott Burnett, Jackson County Legislature

Bill Downey, Kansas City Power & Light Co.

Dee Evans, Beacon Hills Neighborhood Association

John Franklin, Assistant City Manager/WSD (Phase 2)

Pete Levi, Greater KC Chamber of Commerce

Karen McCarthy, Former US Congresswoman (Phase 2)

Bob Mann, Founding Director, Bridging The Gap

Frank Pogge, Water Services Department (Phase 1)

David Warm, Mid-America Regional Council

Bridgette Williams, Heart of America Labor Council, AFL-CIO







Work Groups were created in November 2006 to develop suggested action plans in specific areas:

- Energy
- Transportation
- Carbon Offsets and Waste Management
- Policy and Outreach





# Work Group Composition

Included a broad cross-section of community:

- Businesses
- MARC staff
- Environmental Management Commission
- Environmental & other Non-profit organizations
- Neighborhoods
- EPA, State of Missouri, Jackson County, & City staff







# Work Group Activities

- Consider list of possible actions & suggest additional ideas
- Evaluate GHG reduction estimates for various actions
- Make recommendations to Steering Committee regarding actions to be included in KC Climate Protection Plan



# City Staff Activities

- Develop baseline inventory of GHG emissions
- Identify current City programs, activities, policies relevant to GHG reductions
- Identify regional initiatives relevant to GHG reductions
- Identify initiatives from KCMO EMC Report & other City plans, & Climate Protection Manual for Cities (by Natural Capitalism Solutions)





# Phase 1 Recommendations Adopted by City Council April 12, 2007

1. Make climate protection/GHG emission reduction a key factor in all decisions & actions by City
2. Reduce GHG emissions from City government operations by 30% below 2000 levels by 2020 and by end of 2007 develop realistic, ambitious goal for community-wide GHG reductions
3. Adopt Phase 1 GHG reduction measures in Progress Report, with flexibility to implement in a timely & workable manner
4. Continue planning process with existing Steering Committee





# GHG Emission Changes 2000-2005

City government GHG emissions  
decreased 6.8%

while

Community-wide GHG emissions  
increased 3.8%





# Phase 1 GHG Measures & Other Green Activities

- Energy efficiency improvements in City buildings save over \$2 million annually in utility expenses
- Bartle Hall Ballroom Expansion achieved LEED Silver rating by USGBC
- Four more construction projects in process  
3 – LEED Silver, 1 – LEED Gold
- Million Lights campaign exceeded its goal of 1 million CFLs by over 50% - at least 375,000 tons of GHG reductions over life of bulbs
- Water Services Dept. initiatives
  - Energy efficient pumps & motors
  - Methane recovery from wastewater treatment
  - Purchase & use of waste CO<sub>2</sub>





# Phase 1 GHG Measures & Other Green Activities

- Continue to replace street lights & traffic signals with energy efficient technology
- Alternative Fuels – SustainLane rated KC as #3 of the 50 largest cities for percent of vehicles operating with alternative fuels (50%)
- Parks & Recreation “Nature First” program to convert turf grass to native plants
- Completion of a Comprehensive Solid Waste Management Plan
- Master Trails Plan for a city-wide system of bike/ped trails







# Policy Decisions - Sustainability

- Green Solutions Policy & Administrative Regulation 5-5
- Economic Development & Incentives Policy
- Building & Rehab Codes updated (IECC 2006 Standards for Energy Efficiency)
- New Affordable Housing to meet Energy Star Standards
- Proposed New Development Code
- Long-term Control Plan for Sewer Overflows





# Metro Area Initiatives

- KCP&L/Sierra Club/Concerned Citizens of Platte County agreement to offset 6 million tons/year of GHG emissions
- Strategy to Become America's Green Region
- Conversations on the Environment
- Bi-state group of 20 metro area mayors has signed the US Conference of Mayors Climate Protection Agreement
- Greater KC Chamber of Commerce's Climate Protection Partnership
- Sustainable Skylines Initiative





# Climate Protection Plan Phase 2

- Work Groups, comprised of over 60 volunteers, spent eight months developing recommendations for GHG emission reduction measures
- Buildings & Infrastructure Work Group
  - Green Buildings
  - Land Use & Planning
  - No Waste
  - Renewable Energy
- Transportation Work Group
  - Businesses
  - Citizens
  - Transit
- 23 recommendations forwarded to the Steering Committee in addition to the 32 Phase 1 GHG reduction measures adopted by City Council on April 12, 2007





# Phase 2 Recommendations from the Steering Committee

1. Adopt a goal of reducing community-wide GHG emissions in Kansas City, Missouri 30% below year 2000 levels by year 2020;
2. Adopt an aspirational goal of reducing community-wide GHG emissions 80% below year 2000 levels by 2050 and focus our long-term outlook on being a climate-neutral Kansas City;
3. Adopt Phase 2 GHG emission reduction measures in the Climate Protection Plan as a statement of intent and strategy with flexibility to implement them in a timely & workable manner
4. Support the continuation of the Climate Protection Steering Committee as an ongoing oversight entity for implementation of Kansas City's Climate Protection Plan.





# Climate Protection Plan

## GHG Emissions Reduction Goals

### Major areas of Emphasis in Plan

- Reduce vehicle emissions
- Energy efficiency and renewable energy
- Policies & actions to reduce GHG impacts of current & future building stock ( residential, commercial, institutional, industrial and governmental)
- Public education & outreach leading to empowerment of citizen action





# Climate Protection Plan

## GHG Emissions Reduction Goals

Many of the recommended GHG reduction measures in the plan also reduce storm water runoff and/or improve stream water quality:

- Adoption of stream buffer ordinance
- Plant additional 120,000 trees & increase urban canopy from 32% to 40% across entire city
- Install green roofs on buildings
- Convert turf grass to native deep-rooted plants
- Rain gardens







# It's Time to Act

- Climate change is an enormous challenge & defining issue for our time – it is also an opportunity for our community
- GHG emissions can be reduced at the same time as the economy & quality of life improve for businesses & citizens in Kansas City
- Partnerships with businesses, non-profits, and other governments in metro area are critical to implementation of the plan
- The Kansas City Climate Protection Plan is a critically important policy document for our community.





# Sustainability in Kansas City

A Triple Bottom Line Approach to Simultaneously Promote:

- Social Equity
- Economic Vitality
- Environmental Quality





# KCMO Climate Protection Plan

Developed to Advance Sustainability

in City Government  
and  
Community-wide





# KCMO Climate Protection Plan

GHG Reduction Measures in Plan will:

- Create jobs
  - Improve neighborhoods
  - Provide viable public transit
    - Reduce energy use
  - Support quality housing for everyone
    - Expand green infrastructure
- Protect environmentally-sensitive landscapes
  - Support local food production
- Make the community more walkable and bike-friendly
  - Create new public/private partnerships

