

Sustainable Minneapolis

Living Well

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ci.minneapolis.mn.us/sustainability

Why Should Cities Care?

- Majority of world's population lives in urban areas
- Historically we have been environmental leaders affecting change at state and federal levels
- Government can influenced the green market (post consumer recycled paper/plastic products)
- In our best interest

Minneapolis

- 387,000 population and growing
- 150,000 jobs in just downtown area
- City: 3,600 employees & 175 buildings
- 150 parks
- Coyotes, fox, mink, possum, deer, eagles, peregrines, loons
- 18 farmers markets, over 100 community gardens

Sustainability

“Meeting current needs without sacrificing the ability of future generations to meet their own needs”

Minneapolis Living Well =

Healthy Life (families, homes)

Greenprint (environment)

Vital Community (safe, thriving)

Sustainability Background

- Pre 2003: no umbrella for various activities
- 24 Sustainability Indicators with numerical targets (based on community input)
- Formed new City Council committee
“Health, Energy & Environment Committee”
- Integrated sustainability into 18 Departments’
Business Plans w/Annual Reporting
- Sustainability/Greenprint Annual Reports

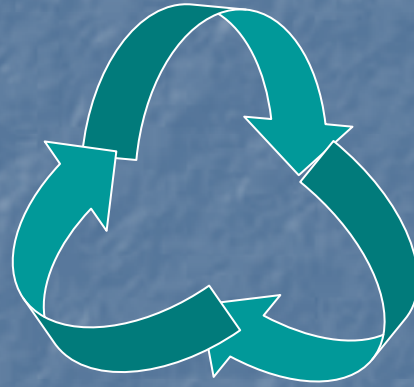
Highlights

- No program
- No large plan
- No single line item budget
- Incorporate into everyday City business
- Breaking down department silos & forming partnerships key

Strategic Alignments

Council Direction -
Annual Reports

Citizens
Environmental
Advisory Committee



Dept. Business
Plans

Environmental
Coordinating Team

Business Plan

- 2 FTE responsible for sustainability coordination

All departments can play a role:

- Fire: Watering trees, using biodiesel
- City Clerk's Office: Junk mail reduction campaign
- Reg Services: Fuel Efficient Taxis as condition of license
- CPED: Green Team, draft Comp Plan - "Minneapolis Plan for Sustainable Growth"

Sustainability & Greenprint Reports

- 2006 - First Sustainability Report
- April 2007, 2008 – Greenprint Report
- May 2007, 2008 – Sustainability Report
 - Results oriented
 - Clear, concise
 - Opportunity for policy discussion
 - Media, public awareness

Greenprint

- **Air Quality**
- Global Warming
- Renewable Energy
- DT Transportation Alternatives
- Bike Lanes
- Airport Noise
- Trees
- Water Quality
- Permeable Surfaces
- Combined Sewer Overflows

Minneapolis
greenprint



Ozone

- Health: Breathing ozone can trigger chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level ozone also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue
- Environmental: Detrimental effects on plants and ecosystems including trees.

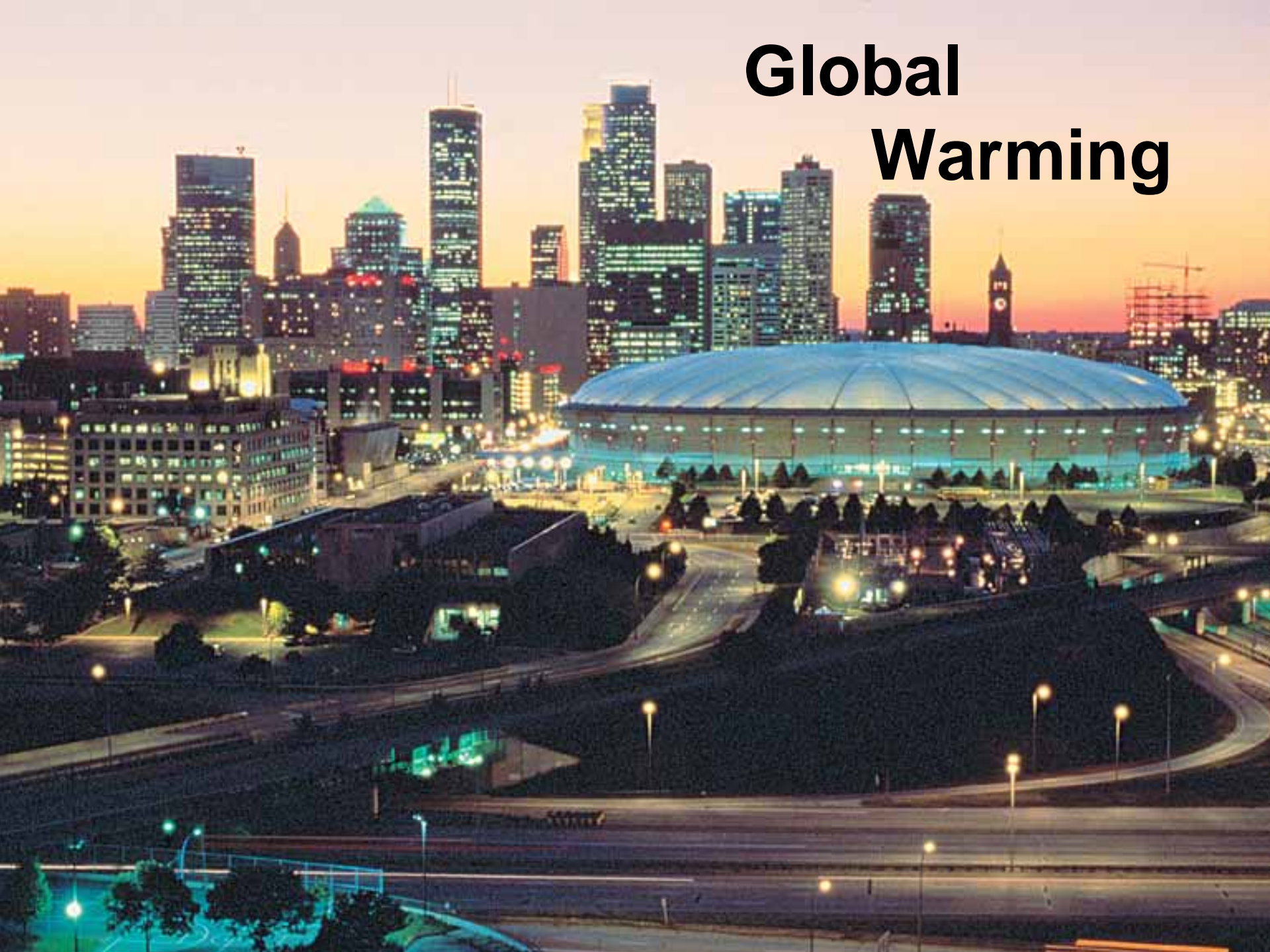
Particulate Matter

- Health: Smaller the particle the greater the problem cuz they can get deep into lungs and maybe even affect heart.
- Environmental: Haze, damage surfaces, lakes and streams more acidic, affecting diversity of ecosystems.

Air Quality

- In metro area – air quality is decreasing
- 2007: 9 days unhealthy for sensitive groups (100) and 177 moderate unhealthy days (50+)
- Minneapolis specific air quality info limited
- Focus on energy conservation and alternatives used in buildings and transportation
- Connected with other sustainability indicators
- Examples: idling ordinance, signal light timing, removing “no turn on red signs”

Global Warming



Global Warming

- Lobbying for transit/clean energy
- Walking the talk (fleets, buildings)
- Measuring CO2 footprint
- Green Manufacturing Initiative
- Motivating Change
 - 2007: 25 climate change grants
 - 2008: 30 climate change grants
 - 2500 pledges - Minn Energy Challenge
 - Publicizing existing utility programs



Renewable Energy



Renewable Energy

- Walk the talk: 3 solar systems on City buildings
- 600 KW Solar install on City building in 2008
- Wind: 7,600 residents/businesses pay premium for Minnesota wind generated electricity
- New small hydro power plant in 2009
- Trash delivered to HERC
- Waived permit fees for 12 residential solar thermal projects
- Pushing the envelope by seeking long term local renewable energy options



Bike Paths

Bike Paths

- 100 miles of bikeways
- In partnership with Transit for Livable Communities, received \$21.5 million federal grant to increase biking and walking
- Bike rack cost share program for businesses
- Bike Plans, Bike Parking Inventory
- Events, Advisory Committee, Email Updates
- #2 bike commuting city in US

Downtown Transit



Downtown Transportation Alt

- Visionary 10-year Transportation Plan
- Over 415 City employees use pretax transit passes
- Partnerships/lobbying
- High density zoning along transit routes
- LRT use exceeded estimates in 1st year (06) by 58%
- Bus ridership at 23 year high (19 hybrid buses)
- Redesign of new I35W bridge will be LRT/ BRT ready
- 250 HourCar members in 10 locations
- 1800 van car pools get reduced rates in city parking lots

Tree Canopy



Tree Canopy

- Not keeping up with 26,000 tree loss on public land in last 5 years.
- Planted 17,000 trees on public land in 5 years
 - New Gold Medal Park has 380 large trees
- Partnered with non-profit Tree Trust and others to plant 1,000s of trees on private property
- Updated policies, continuing research
- Stronger coordination among departments
- Educating the community & developing constituencies (watersheds, businesses)



PLEASE! DON'T POLLUTE!



DRAINS TO RIVER

Water Quality

Water Quality, CSOs & Permeable Surfaces

- 2007: 1st time no CSOs
- Innovative stormwater BMPs because of Stormwater Utility Fee Credits
- Raingardens
- 60 greenroofs including 2 city buildings and upcoming City Hall greenroof in 2008
- More pervious pavers, porous concrete – city leadership in showcasing
- Capital projects
- Partnerships with watersheds

City Purchasing

- Green Purchasing Team formed in 2001
- Green Building/LEED Policy
- Low environmental impact cleaning products
- Fleets
- Updating Environmental Purchasing Policy
- Energy star appliances
- Tracking EPEAT computers

LEED

- Leadership in Energy and Environmental Design developed by U.S. Green Building Council (USGBC) is a national benchmark to accelerate green building
- 3rd party ratings for new construction, existing buildings, retail, schools, homes, neighborhoods
- Different levels: Basic, Silver, Gold, Platinum
- LEED Accredited Professional (AP) for staff
- Great local chapter – Mississippi Headwaters
- Minnesota – 11 buildings certified

Benefits of LEED

- Lower operating costs and increased asset value
- Reduce waste sent to landfills
- Conserve energy and water
- Healthier and safer for occupants
- Reduce harmful greenhouse gas emissions
- Demonstrate an owner's commitment to environmental stewardship and social responsibility

LEED Policy – July 2006

- New or substantially remodeled City buildings will be built to LEED silver level
- Hiawatha Maintenance Facility will be LEED Gold certified
- Key Public Works, Regulatory Services, and Community Planning Economic Development staff are/will be LEED AP by July 2008
- General staff training
- Many others nationwide have adopted

Low Environmental Impact Cleaning Products Oct 2006

- Purchasing Dept designated lead
- Green Seal (or alts designated by Purchasing Dept)
- Training
- No more than 10% cost difference
- Includes office leases and cleaning contracts
- Annual reporting to ECT on progress
- One of first cities in nation to adopt

Low Enviro Impact Cleaning

- Green Seal is nationally recognized 3rd party certification – rapidly expanding
- City staff doesn't have to be technical experts!
- 90% of cleaning products completed
- Employees and risk management support
- Convention Center – green marketing
- Worked with Mn Dept of Admin to add to State Purchasing contract

City Fleets – no official policy

150 vehicles eliminated/not replaced since 2003

275 diesel vehicles/equipment use biodiesel (20%)

132 E-85 vehicles

New E-85 fueling station (partnered w/Hennepin)

25 hybrid vehicles, including plug-in hybrid

12 large tricycles for hauling @ convention center

1 Segway for Downtown Police Precinct (bikes, horses)

#3



#2



#8



#4



#2



#1

Parting Thoughts....

Building

- Vision
- Scalability
- Accountability
- Transparency
- Partnerships
- Interdepartmental links (silo busting)
- Hidden champions

