



Memorandum

TO: HONORABLE MAYOR
AND CITY COUNCIL

FROM: John Stufflebean

SUBJECT: SEE BELOW

DATE: 03-09-07

Approved

Ray Winer

Date

3/9/07

SUBJECT: ADOPTION OF THE U.S. CONFERENCE OF MAYOR'S CLIMATE PROTECTION AGREEMENT

RECOMMENDATION

- a. Acceptance of the staff report on Cool Communities and Cool Cities.
- b. Adoption of the U.S. Conference of Mayor's Climate Protection Agreement.

BACKGROUND

At the Transportation and Environment Committee Meeting of March 5, 2007, the Committee accepted the staff report and recommended to cross-reference the item for Council consideration.

The Committee also requested that a goal for reducing greenhouse gas reductions be brought forward to the Committee in the very near future.

ANALYSIS

The Committee memorandum is attached for your reference. Below is a high level overview of the Mayor's Climate Protection Agreement, also attached to this memo.

The Mayor's Climate Protection Agreement was first presented at U.S. Conference of Mayor's 73rd Annual Meeting on June 13, 2005. Mayors who sign on to the Agreement make a commitment to reduce greenhouse gas (GHG) emissions in their own cities and communities to 7% below 1990 levels by 2012 through actions like increasing energy efficiency, reducing vehicle miles traveled, maintaining healthy urban forests, reducing sprawl and promoting use of clean, renewable energy resources.

Under the Agreement, participating cities commit to take following three actions:

- Urge the U.S. Congress to pass the bipartisan greenhouse gas reduction legislation, which would establish a national emission trading system

- Urge their state governments, and the federal government, to enact policies and programs to meet or beat the greenhouse gas emission reduction target suggested for the United States in the Kyoto Protocol -- 7% reduction from 1990 levels by 2012; and
- Strive to meet or beat the Kyoto Protocol targets in their own communities, through actions ranging from anti-sprawl land-use policies to urban forest restoration projects to public information campaigns, including the following actions:
 - Inventory global warming emissions in City operations and in the community, set reduction targets and create an action plan;
 - Promote transportation options such as bicycle trails, commute trip reduction programs, incentives for car pooling and public transit;
 - Make energy efficiency a priority through building code improvements, retrofitting city facilities with energy efficient lighting and urging employees to conserve energy and save money;
 - Practice and promote sustainable building practices using the U.S. Green Building Council's LEED program or a similar system;
 - Evaluate opportunities to increase pump efficiency in water and wastewater systems; recover wastewater treatment methane for energy production;
 - Increase recycling rates in City operations and in the community; and
 - Help educate the public, schools, other jurisdictions, professional associations, business and industry about reducing global warming pollution.

The City of San Jose is accomplishing many of these recommended actions through many of its existing policies and programs. These goals also link to the City's adoption of the United Nations Environmental Accords. A proposed City of San Jose goal for reducing greenhouse gas emissions will be scheduled for the Transportation and Environment Committee in June 2007.



JOHN STUFFLEBEAN
Director, Environmental Services
Department

For questions, contact Mary Tucker, Supervising Environmental Services Specialist, ESD at 975-2581

Attachments: Committee Memo dated 2/20/07
Resolution adopting U.S. Conference of Mayors Climate Protection Agreement



Memorandum

TO: TRANSPORTATION & ENVIRONMENT
COMMITTEE

FROM: John Stufflebean

SUBJECT: SEE BELOW

DATE: 02-20-07

Approved

Date

2/23/07

SUBJECT: UPDATE ON COOL COMMUNITIES AND COOL CITIES

RECOMMENDATION

Accept this staff report on Cool Communities and Cool Cities activities.

BACKGROUND

Cool Communities policies work to reduce the Urban Heat Island effect with the strategic planting of urban trees, and the installation of cool roofs and cool pavements. Cool Communities refers to the planting of trees, the use of light colored roofing and paving materials to reduce ambient air temperature, the reduction smog and energy consumption, and the improvement of storm water run-off. Recommendations for incorporating Cool Communities concepts were adopted by the City Council in January 2001. Those recommendations included:

- Implementation of a grant agreement with Pacific Gas and Electric Company to conduct a Cool Roofs Incentive Program. The grant from PG&E was for an amount not to exceed \$621,000 for the term from February 20, 2001 through March 2002. That program was very successful; training 55 local roof contractors, providing 21 businesses representing over 30 buildings with rebates exceeding a total of \$130,000 and reducing an estimated 125kW Peak Demand.
- Incorporation of Cool Communities strategies within Green Building Policies/Guidelines for City Facilities—Within the U.S. Green Building Council's LEED Rating System for city facilities, one of the credits that can be achieved relates directly to Cool Communities/Urban heat islands. That site credit deals with incorporating landscape and exterior designs that can reduce the heat island effect.
- Participation in the Cities for Climate Protection Campaign, sponsored by the International Council for Local Environmental Initiatives. The campaign encourages the adoption of policies and implementation of measures to achieve quantifiable reductions in local greenhouse gas emissions, improve air quality, and enhance urban livability and sustainability.

Each of these efforts has at its core the following actions:

- Establishment of a specific goal
- Implementation of actions that reduce emissions (energy reduction in facilities and transportation)
- Monitoring and evaluations.

Since 2003, the Sustainable Energy Policy Action Plan report has provided a summary of the actions that the City has conducted to reduce energy and greenhouse gas emissions. Energy reductions in city facilities, and the conversion of the City's fleet to alternative vehicles has provided the bulk of the City's reductions, and those reductions are reported to the Council as part of the Energy Action Plan. To date, the City has not established specific GHG reduction goal. Work would need to be conducted to calculate greenhouse gas emissions for a base year (e.g., 1999) and for a forecast year (e.g., 2015) based on energy consumption and waste generation. The inventory and forecast would then provide a benchmark against which the city can measure progress. These activities are being proposed as part of the Energy Action Plan for 2007-08.



JOHN STUFFLEBEAN

Director

Environmental Services Department

For questions, contact Mary Tucker, Supervising Environmental Services Specialist,
at 975-2581

Attachment: Sierra Club "Cool Cities" Fact Sheet



Explore, enjoy and protect the planet

COOL CITIES

Solving Global Warming One City at a Time

sierradub.org/coolcities



COOL CITIES TAKE THE LEAD



Communities all over America are responding to the threat of global warming with smart energy solutions. These "Cool Cities" are taking decisive action to reduce heat-trapping emissions, lower energy bills, save taxpayer dollars, and protect our environment.

At a time when the federal government is failing to act, mayors and other local leaders are taking the lead to curb global warming. Beginning with Seattle Mayor Greg Nickels, more than 200 mayors representing 42 million Americans in 38 states have signed the U.S. Mayors Climate Protection Agreement to reduce global warming carbon dioxide (CO₂) pollution in their cities to

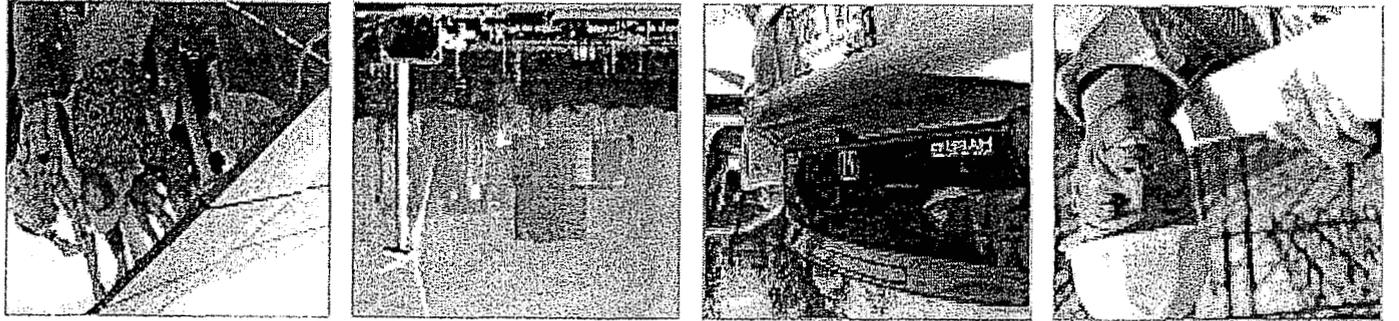
GLOBAL WARMING: NOW IS THE TIME TO ACT

7 percent below 1990 levels by 2012 (see seattle.gov/mayor/climate). These Cool Cities are working to meet this goal with practical and innovative energy solutions that reduce energy waste and pollution, and thereby cut our dependence on oil, benefit public health, and save money.

Scientists have concluded that burning fossil fuels—like oil, coal, and natural gas—to power our cars, homes, and businesses is causing global temperatures to rise. This heating of the earth poses a serious threat to our health, safety, economy, and environment. The good news is that we have the tools

GREEN VEHICLE SOLUTIONS

By using less gasoline, hybrid vehicles release a fraction of the global warming and emissions by purchasing gas-electric hybrid cars and SUVs for their city vehicle fleet. Many cities are cutting their global warming and SUVs go farther on a gallon of gas. The biggest single step we can take to curb global warming is making our cars, trucks, and SUVs go farther on a gallon of gas. While every city's energy solutions plan will be unique, there are three key common Cool City strategies: Green Vehicle Fleets, Energy Efficiency, and Renewable Energy.



air pollution emitted by conventional vehicles while saving money at the gas pump. Some cities are also providing incentives, such as free parking and lower registration fees, to encourage the purchase of hybrids by local residents and businesses.

ENERGY EFFICIENCY SOLUTIONS

Energy efficiency means using less energy through better technology to light streets and power buildings and industrial facilities. Reducing energy use is one of the most cost-effective and fastest ways to meet our energy needs. Lowering energy costs enables communities to invest more in schools, job creation, and new infrastructure.

Since fossil fuel power plants account for more than one-third of U.S. global warming emissions, saving energy also means



Clean Harvest: Waverly Light & Power in Iowa has installed wind turbines on land leased from local farmers, creating clean electricity for the city and additional income for farmers.



Cool Mayor: Mayor Joseph Adams, of University City, Missouri, accepts the Sierra Club's Cool City award for signing the U.S. Mayors Climate Protection Agreement.

less pollution. From high-tech interior and street lighting, energy-efficient building standards and retrofits, to efficient combined heat-and-power, cities in every region of the country are modernizing lighting, heating, cooling, and other systems.

RENEWABLE ENERGY SOLUTIONS

Cities across the nation are investing in clean and renewable power like solar and wind energy to lower global warming emissions and create a reliable source of safe, homegrown electricity.

Many cities are adopting "renewable energy standards" that require a specific percentage of the electricity sold in a city or utility area to come from renewable sources by a specific target date.

Other cities are incorporating renewable energy technologies, such as solar photovoltaic panels, into the design of public buildings. Renewable power and energy efficiency are essential solutions for replacing electricity from dirty, fossil-fuel-burning power plants.

COOL CITIES: BRINGING COMMUNITIES TOGETHER

The most successful Cool Cities are engaging the entire community to help

meet the goals of the U.S. Mayors Climate Protection Agreement. Local businesses, builders, faith groups, environmentalists, and labor unions are working together to make their cities more livable and vibrant while lowering energy bills, creating good jobs, and tackling a global problem.

RE-ENERGIZING YOUR CITY

As the news of successful city solutions spreads, more cities are joining in the Cool Cities movement to lead our country and our world into a new energy future. Cool Cities are literally re-energizing our nation, proving that we can solve global warming one city at a time.

Now it's your city's turn.

COOL CITIES

**TAKE ACTION:
BECOME A COOL CITY**

1. Join the U.S. Mayors Climate Protection Agreement to reduce global warming pollution
2. Green your city's vehicle fleets with hybrid and other cleaner cars
3. Modernize city buildings with money-saving energy-efficiency technology
4. Invest in clean and safe renewable energy

LEARN MORE:

For a list of cities that are becoming "cool," and for resources and specific examples of smart energy city solutions and model action plans, go to sierraclub.org/coolcities.

RESOLUTION ENDORSING THE U.S. MAYORS CLIMATE PROTECTION AGREEMENT

WHEREAS, the U.S. Conference of Mayors has previously adopted strong policy resolutions calling for cities, communities and the federal government to take actions to reduce global warming pollution; and

WHEREAS, the Inter-Governmental Panel on Climate Change (IPCC), the international community's most respected assemblage of scientists, has found that climate disruption is a reality and that human activities are largely responsible for increasing concentrations of global warming pollution; and

WHEREAS, California Governor Schwarzenegger signed AB 32 by Assembly Speaker Fabian Nunez (D-Los Angeles), California's landmark bill that establishes a first-in-the-world comprehensive program of regulatory and market mechanisms to achieve real, quantifiable, cost-effective reductions of greenhouse gases; and

WHEREAS, recent, well-documented impacts of climate disruption include average global sea level increases of four to eight inches during the 20th century; a 40 percent decline in Arctic sea-ice thickness; and nine of the ten hottest years on record occurring in the past decade; and

WHEREAS, climate disruption of the magnitude now predicted by the scientific community will cause extremely costly disruption of human and natural systems throughout the world including: increased risk of floods or droughts; sea-level rises that interact with coastal storms to erode beaches, inundate land, and damage structures; more frequent and extreme heat waves; more frequent and greater concentrations of smog; and

WHEREAS, on February 16, 2005, the Kyoto Protocol, an international agreement to address climate disruption, went into effect in the 141 countries that have ratified it to date; 38 of those countries are now legally required to reduce greenhouse gas emissions on average 5.2 percent below 1990 levels by 2012; and

WHEREAS, the United States of America, with less than five percent of the world's population, is responsible for producing approximately 25 percent of the world's global warming pollutants; and

WHEREAS, the Kyoto Protocol emissions reduction target for the U.S. would have been 7 percent below 1990 levels by 2012; and

WHEREAS, many leading US companies that have adopted greenhouse gas reduction programs to demonstrate corporate social responsibility have also publicly expressed preference for the US to adopt precise and mandatory emissions targets and timetables as a means by which to remain competitive in the international marketplace, to mitigate financial risk and to promote sound investment decisions; and

WHEREAS, state and local governments throughout the United States are adopting emission reduction targets and programs and that this leadership is bipartisan, coming from Republican and Democratic governors and mayors alike; and

WHEREAS, many cities throughout the nation, both large and small, are reducing global warming pollutants through programs that provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements, reduced traffic congestion, improved transportation choices, and economic development and job creation through energy conservation and new energy technologies; and

WHEREAS, mayors from around the nation have signed the U.S. Mayors Climate Protection Agreement which, as amended at the 73rd Annual U.S. Conference of Mayors meeting, reads:

The U.S. Mayors Climate Protection Agreement

- We urge the federal government and state governments to enact policies and programs to meet or beat the target of reducing global warming pollution levels to 7 percent below 1990 levels by 2012, including efforts to: reduce the United States’ dependence on fossil fuels and accelerate the development of clean, economical energy resources and fuel-efficient technologies such as conservation, methane recovery for energy generation, waste to energy, wind and solar energy, fuel cells, efficient motor vehicles, and biofuels;
- We urge the U.S. Congress to pass bipartisan greenhouse gas reduction legislation that includes clear timetables and emissions limits and 2) a flexible, market-based system of tradable allowances among emitting industries; and
- We will strive to meet or exceed Kyoto Protocol targets for reducing global warming pollution by taking actions in our own operations and communities such as:
 - Inventory global warming emissions in City operations and in the community, set reduction targets and create an action plan;
 - Adopt and enforce land-use policies that reduce sprawl, preserve open space, and create compact, walkable urban communities;
 - Promote transportation options such as bicycle trails, commute trip reduction programs, incentives for car pooling and public transit;
 - Increase the use of clean, alternative energy by, for example, investing in “green tags”, advocating for the development of renewable energy resources, recovering landfill methane for energy production, and supporting the use of waste to energy technology;
 - Make energy efficiency a priority through building code improvements, retrofitting city facilities with energy efficient lighting and urging employees to conserve energy and save money;
 - Purchase only Energy Star equipment and appliances for City use;
 - Practice and promote sustainable building practices using the U.S. Green Building Council’s LEED program or a similar system;
 - Increase the average fuel efficiency of municipal fleet vehicles; reduce the number of vehicles; launch an employee education program including anti-idling messages; convert diesel vehicles to bio-diesel;
 - Evaluate opportunities to increase pump efficiency in water and wastewater systems; recover wastewater treatment methane for energy production;
 - Increase recycling rates in City operations and in the community;

- Maintain healthy urban forests; promote tree planting to increase shading and to absorb CO₂; and
- Help educate the public, schools, other jurisdictions, professional associations, business and industry about reducing global warming pollution.

NOW, THEREFORE, BE IT RESOLVED that San Jose City Council endorses the U.S. Mayors Climate Protection Agreement as amended by the 73rd annual U.S. Conference of Mayors meeting and urges mayors from around the nation to join this effort.

BE IT FURTHER RESOLVED, The City of San Jose will work in conjunction with ICLEI Local Governments for Sustainability and other appropriate organizations to track progress and implementation of the U.S. Mayors Climate Protection Agreement as amended by the 73rd annual U.S. Conference of Mayors meeting.