Goals and Accomplishments

CHICAGO CLIMATE ACTION PLAN

Goals and Accomplishments

Richard M. Daley, Mayor
Chicago Climate Action Plan

Grounded in research
Reducing emissions & adaptation
Focused on implementation

Copyright 2008, City of Chicago
Higher Emissions: 31 days

Projected number of 100-degree days per year in Chicago

Lower Emissions: 8 days
Extreme Precipitation

### Historical vs. Future Emissions

- **Low emissions future**
- **High emissions future**

#### Average Days Per Year > 2" Precipitation

- **1961-1990**:
  - Historical: 0.6 days
- **2010-2039**:
  - Low emissions: 1.0 days
  - High emissions: 1.6 days
- **2040-2069**:
  - Low emissions: 1.2 days
  - High emissions: 1.8 days
- **2070-2099**:
  - Low emissions: 1.4 days
  - High emissions: 2.0 days

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Copyright 2008, City of Chicago
2000 Chicago Greenhouse Gas Emissions

34.6 MMTCO$_2$e

- Transportation: 21%
- Buildings and Other Energy Uses: 70%
- Other: 9%

MMT: Million Metric Tons
Chicago Greenhouse Gas Emissions and Reduction Goals:

- 25 percent reduction from 1990 levels by 2020
- 80 percent reduction from 1990 levels by 2050
FIVE STRATEGIES

ADDRESSING THE CHALLENGE OF CLIMATE CHANGE

ENERGY EFFICIENT BUILDINGS
8 ACTIONS

CLEAN & RENEWABLE ENERGY SOURCES
5 ACTIONS

IMPROVED TRANSPORTATION OPTIONS
10 ACTIONS

REDUCED WASTE & INDUSTRIAL POLLUTION
3 ACTIONS

PREPARATION
9 ACTIONS

= 35 WAYS TO ENSURE A RESILIENT CITY
The Dashboard of Accomplishments
January 2008 – September 2009

- 13,500 Dwelling Units and 252 Commercial/Industrial Buildings retrofitted
- 3,800 Appliances Traded In
- 200 Buildings Permitted to New Energy Code Since April, 2009
- 1,200,000 sf of New Green Roofs Required
- 20 Million Gallons per Day of Water Conserved
- 5% Increase in CTA Ridership
- 636 New Car Share Vehicles
- 208 New CTA Hybrid Buses Added to Fleet
- 383,125 Gallons of Alternative Fuel Sold
- 11.5% Decrease in Single Family Waste Disposal
- 204,177 Tons of Waste Diverted from Landfills
- 130,000 Tons of Reduced Greenhouse Gas Emissions through Reduced Waste and Industrial Pollution

And Counting........
CCAP Goals: Energy Efficient Buildings

CCAP Overall Goal:
- 400,000 residential units
- 9,000 commercial and 200 industrial buildings
Achieving a 30% reduction in energy usage by 2020

Goals to Date:
- 10,000 residential units
- 100 commercial and industrial buildings

Achievements to Date:
- 13,500 residential units
- 252 commercial and industrial buildings

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CCAP Goals: Clean & Renewable Energy Sources

Achievements to Date

Work Plans Created for the Next Three Years


Ground Source Heat Pump Installations

• Harris Bank – Branch Pilot in Beverly
• Mercy Housing Lakefront – 100 units
• Chicago Park District – Independence Park Bungalow

Planned Solar Installations

• Development of nation’s largest urban solar power plant with Exelon
• Production of an average of 14,000 megawatt-hours (MWh) of power
• Plant will result in CO2 emissions savings of more than 14,000 metric tons annually, the equivalent of removing 2,500 cars from city streets each year.
CCAP Goals: Improved Transportation

Achievements to Date

• City of Chicago awarded $15 million for “Chicago Area Alternative Fuels Deployment Project”
  – 554 new alternative fuel and hybrid vehicles in public and private fleets
  – Installation of 153 alternative fuel and electric vehicle charging stations throughout the Chicago region

• The City of Chicago increased its fleet of hybrid vehicles to include more than 240 new hybrid vehicles.

• Chicago Bike 2015 Plan
  – Installed 500 new bicycle racks
  – Installed 11 new miles of bike lanes
  – Added 7 new miles of marked, shared lanes throughout the City
CCAP Goals: Reduced Waste & Industrial Pollution

Achievements to Date

Liabilities to Assets
- 3 large scale food composting projects underway
- Passed legislation for and implementing the inter-governmental agreement with IEPA for the re-use of soil and rubble
- 180 green alleys installed
- 2,500 rain barrels distributed to City residents

Waste to Profit
- Partnership with Chicago Manufacturing Center –
  - over 300 participating companies
- 130,000 tons of GHG emissions reduced
- 150,000 tons of waste diverted from landfill
- 37 jobs created or retained
- $17 million saved by its companies
CCAP Goals: Climate Change Adaptation

Tree Canopy Assessment
Urban Forest Agenda
Green Roofs
### Federal Stimulus Funds Received and Employed to Date

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Energy Efficiency and Conservation Block Grant</td>
<td>$27,649,000</td>
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<td>Chicago Area Alternative Fuels Deployment Project</td>
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<td>Clean Diesel</td>
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<td>Deconstruction</td>
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<td>Community Green Jobs</td>
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<td>Green Job Work Experience &amp; Job Training Program</td>
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<tr>
<td>Climate Communities</td>
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<tr>
<td>Urban &amp; Community Forest Program</td>
<td>1,077,000</td>
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<tr>
<td>Plug-In Infrastructure</td>
<td>1,500,000</td>
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<td><strong>Total through October 2009</strong></td>
<td><strong>$62,588,150</strong></td>
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# CCAP Partnerships: Our City. Our Future.

- City of Chicago Departments and Sister Agencies
- Business Leaders
- Advocacy Organizations
- Community Groups
- Philanthropic Leaders
- Utilities
- State and Federal Government
- Local Industrial Retention Organizations
- Museums
- Restaurants and Hotels
- Hospitals
- Civic Consulting Alliance and pro-bono consultants
- Downtown office buildings
Implementation Strategy Consultants
$10.8 Million in Pro-Bono Efforts

- Adrian Smith + Gordon Gill Architecture
- AT Kearney
- Bain & Company
- The Boston Consulting Group
- Civic Consulting Alliance
- Environmental Law and Policy Center
- The Field Museum
- Global Philanthropy Partnership
- Katzenbach Partners/Booz & Co.
CCAP Foundation Support

Chicago Community Trust
Clinton Foundation
Grand Victoria Foundation
Joyce Foundation
Kresge Foundation
Legacy Fund
Lloyd A Fry Foundation
Nathan Cummings Foundation
Surdna Foundation
Enjoy your stay in Chicago

www.chicagoclimateaction.org