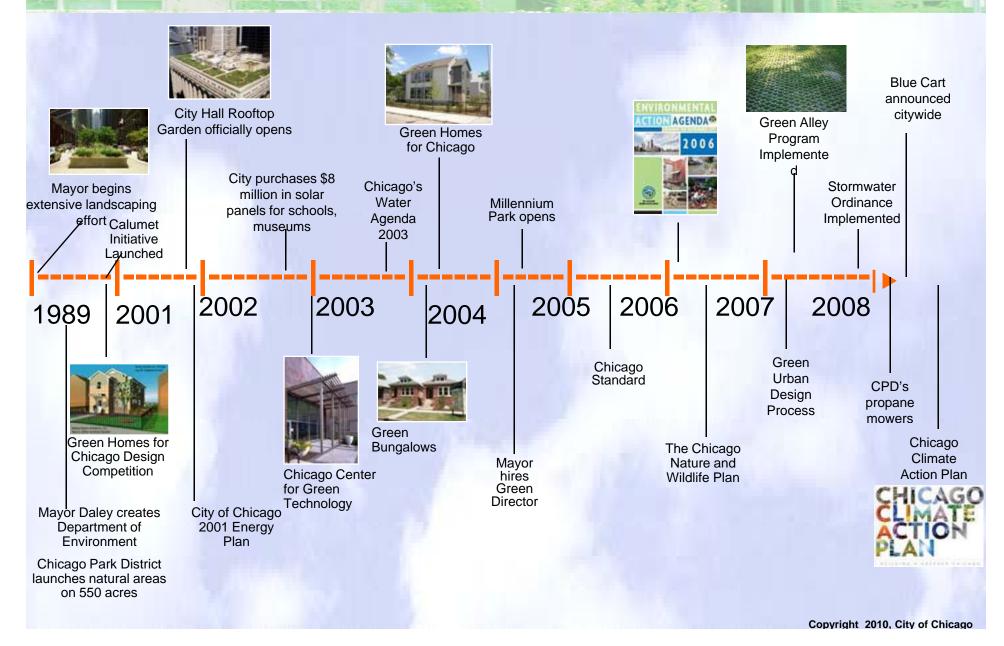


Joshua C. Milberg
First Deputy Commissioner
Chicago Department of Environment

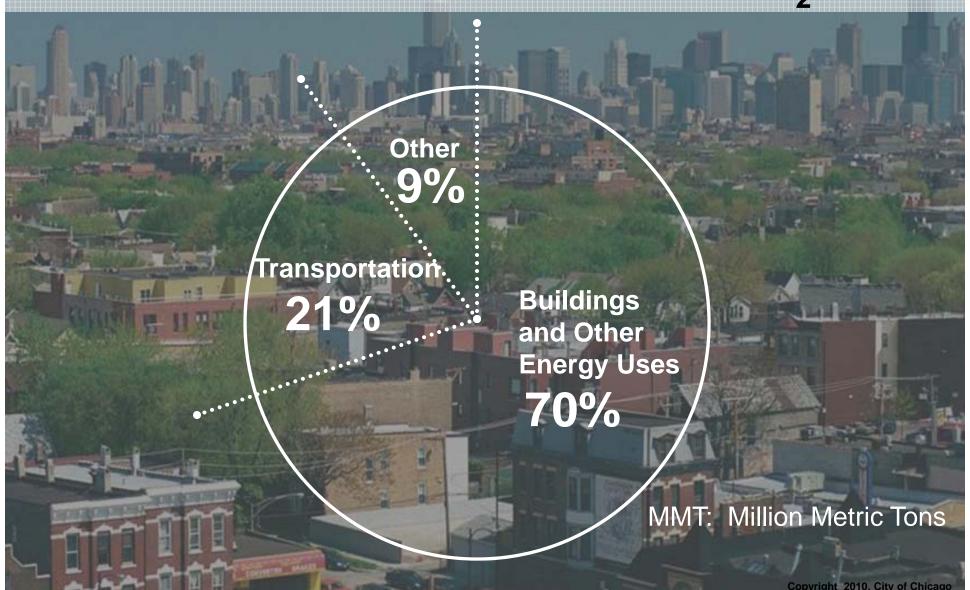


City of Chicago Richard M. Daley, Mayor

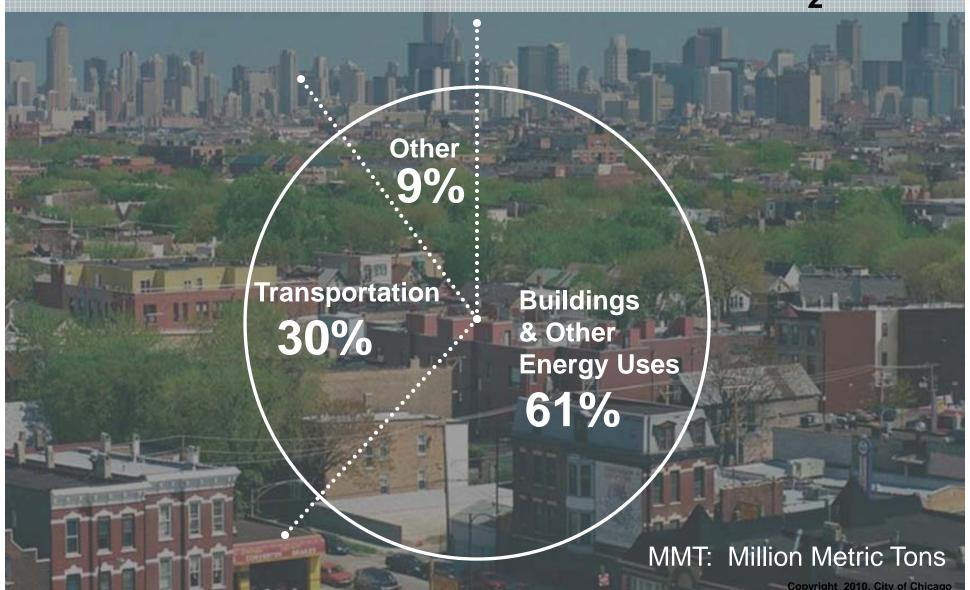
A history of Chicago's environmental initiatives



2000 Chicago Greenhouse Gas Emissions Current Emissions: 34.6 MMTCO₂e



2000 6-County Greenhouse Gas Emissions Current Emissions: 105.1 MMTCO₂e





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



IMPROVED TRANSPORTATION OPTIONS GOAL:
USE A VARIETY OF TRANSPORTATION
MODES—AND CLEANER VEHICLES

CO-BENEFITS: produced energy costs

loca

Improved air quality and health

quality of life

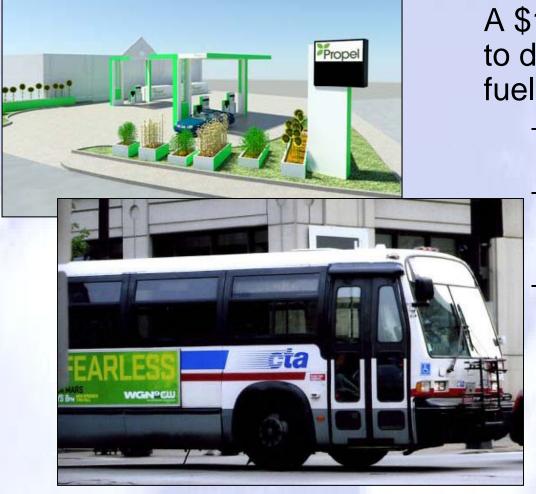




Transportation: •3.61 MMTCO2e •10 Actions

- 1. Invest More in Transit
- 2. Expand Transit Incentives
- 3. Promote Transit-Oriented Development
- 4. Make Walking and Bicycling Easier
- 5. Car Share and Carpool
- 6. Improve Fleet Efficiency
- 7. Achieve Higher Fuel Efficiency Standards
- 8. Switch to Cleaner Fuels
- 9. Support Intercity Rail
- 10. Improve Freight Movement

Chicago Area Alternative Fuels Deployment Grant



A \$15 million federal grant to develop an alternative fuel infrastructure

- Funding to pursue mobility improvement initiatives
- Partnership with private sector will install over 150 alternative fueling stations
- 15% five year average annual growth of municipal alternative-fuel vehicles fleet

Chicago provides significant opportunities to develop an electric vehicle marketplace

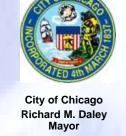
- Chicago's baseload power supply
- Previous EV experience
- Short commuting distance
- Temperature versus technology opportunities
- First phase infrastructure installation

The Chicago Electric Vehicle Consortium was gathered to support widespread EV adoption

- Government, scientific organizations, utilities, automakers, and EV experts
- Delivered immediate initiatives and long-term market development strategies
- Continuing to provide strategic guidance to the key stakeholders

















The First Phase EV Infrastructure Project



A grant to provide public infrastructure and promote EV adoption

Clean Cities Coalition grant

 Matching allocation from State of Illinois

RFP guiding principles

 Long-term vision of EV infrastructure deployment

Ability to provide additional funding and cost efficiencies

 Charging station location-optimization and location-equality

 Dynamic pricing structure and back-end customer support



EV Infrastructure Strategy

Phase I: Chicago Build-Out

Technology | Location | Business Model

- Aligned with demand drivers
- Charging variety: location and duration
- Portfolio perspective, including DC quick charge

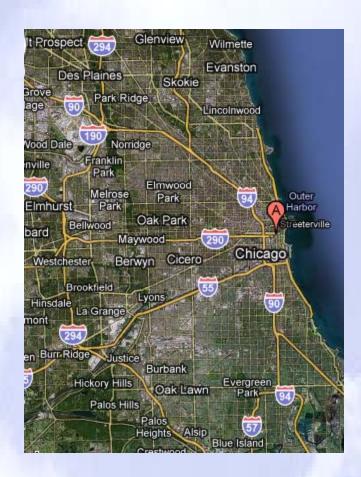


EV infrastructure strategy

Phase I: Chicago Build-Out

Technology | Location | Business Model

- Optimize locations to promote adoptions
- Ensure locations are socially equitable
- Support desired behaviors

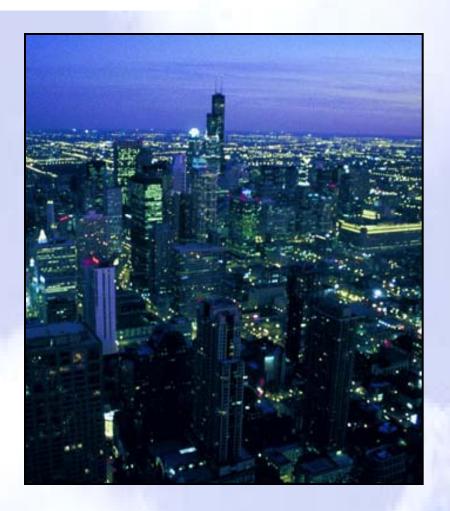


EV infrastructure strategy

Phase I: Chicago Build-Out

Technology | Location | Business Model

- Easy and friendly customer interface
- Maintenance of charging locations
- Adapt to regulatory and utility evolutions



EV development will have significant economic implications for the Chicago region

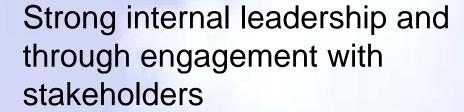
- Manufacturing
- Installation and maintenance
- Supporting infrastructure



Roland Berger Strategy Consultants

Roland Berger Strategy Consultants





- Started with benchmarking of best practices
- Developed roadmap to maximize e-mobility in Chicago
- Builds on relationships and actions that have already been established



