Chicago Area Alternative Fuel Strategy:
Moving in the Future

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First Deputy Commissioner
Chicago Department of Environment
A history of Chicago’s environmental initiatives

- 1989: Mayor Daley creates Department of Environment
- 2001: Chicago Center for Green Technology
- 2002: Chicago Park District launches natural areas on 550 acres
- 2003: Chicago’s Water Agenda 2003
- 2004: Millennium Park opens
- 2005: Mayor hires Green Director
- 2006: Green Urban Design Process
- 2007: Chicago Park District launches natural areas on 550 acres
- 2008: CPD’s propane mowers

Key initiatives:
- Green Homes for Chicago Design Competition
- Chicago 2001 Energy Plan
- Green Bungalows
- Calumet Initiative Launched
- Stormwater Ordinance Implemented
- Blue Cart announced citywide
2000 Chicago Greenhouse Gas Emissions

Current Emissions: 34.6 MMTCO₂e

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

MMT: Million Metric Tons
2000 6-County Greenhouse Gas Emissions

Current Emissions: 105.1 MMTCO$_2$e

Transportation: 30%
Buildings & Other Energy Uses: 61%
Other: 9%

MMT: Million Metric Tons

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# Five Strategies

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= 35 Ways to Ensure a Resilient City

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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

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- 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
Strong internal leadership and through engagement with stakeholders

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