
Local Governments and the Cities for Climate Protection® Campaign

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ICLEI- Local Governments for Sustainability

***Greater Long Island Clean Cities Coalition
Advancing the Choice
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ICLEI – Local Governments for Sustainability



A worldwide movement of local governments dedicated to achieving tangible improvements in global environmental conditions through
CUMULATIVE LOCAL ACTION

- Association of cities, towns, counties in over 50 countries
- 11 offices worldwide

Cities Contribute to the Problem And can Create the Solutions

Local governments influence all major sources of
global warming pollution



Energy



Transportation



Solid Waste

Transportation Sector- Greenhouse Gas Emissions

- n Nearly 1/3 of all US GHG Emissions from Transportation Sector
- n 95% of Transportation Sector GHG Emissions are Carbon Dioxide (CO₂)
- n Largest and Fastest Growing Sector

Source: *Reducing Greenhouse Gas Emissions From U.S. Transportation*, prepared for the Pew Center for Climate Change by Greene and Schafer

Transportation Sector- Air Pollutant Emissions

- n Carbon Monoxide (CO)
- n Particulate Matter (PM)
- n Hydrocarbons (HC)
- n Nitrogen Oxides (NO_x)



Carbon Monoxide (CO)

- n Reduces oxygen delivery to the body's organs and tissues
- n Exposure to elevated levels can lead to
 - q Visual impairment
 - q Reduced manual dexterity
 - q Poor learning ability
- n In a typical US City 95% of CO comes from vehicles

Source: United States Environmental Protection Agency

Particulate Matter (PM)

- n PM-10
 - q Respiratory illness
 - q Damage to lung tissue
 - q Cancer
- n PM-2.5 Even more serious than PM-10
 - q Asthma
 - q Chronic Bronchitis
 - q Cancer
- n Major contributor to haze.

Source: United States Environmental Protection Agency



Hydrocarbons (HC)

n Health Impacts

- q Breathing difficulties
- q Lung damage
- q Cancer
- q Reduced cardiovascular function

n Major contributor to ground level ozone-SMOG

Source: United States Environmental Protection Agency

Nitrogen Oxides (NO_x)

- n Respiratory Illness
- n Catalyst for most of the other pollutants
 - q i.e. HC react with NO_x and sunlight to create ground level ozone-SMOG
 - q Also contribute to the formation of PM
- n Contributes to:
 - q Acid Rain
 - q Ground Level Ozone
 - q Global Warming

Source: United States Environmental Protection Agency

Solutions: Reducing Emissions from the Transportation Sector

- n Energy efficiency improvements
- n Low-carbon alternative fuels
- n Increasing the operating efficiency of the transportation system
- n Reducing travel

Source: *Reducing Greenhouse Gas Emissions From U.S. Transportation*, prepared for the Pew Center for Climate Change by Greene and Schafer



Cities for Climate Protection (CCP) Campaign

- n Largest ICLEI program
- n Over 770 participants worldwide
- n 200 participants in U.S.
 - q More than 20% of U.S. GHG emissions
 - q 22% of U.S. population

The CCP Milestone Process



Results from CCP Participants

Cumulative *local* actions have a positive impact on *global* climate change

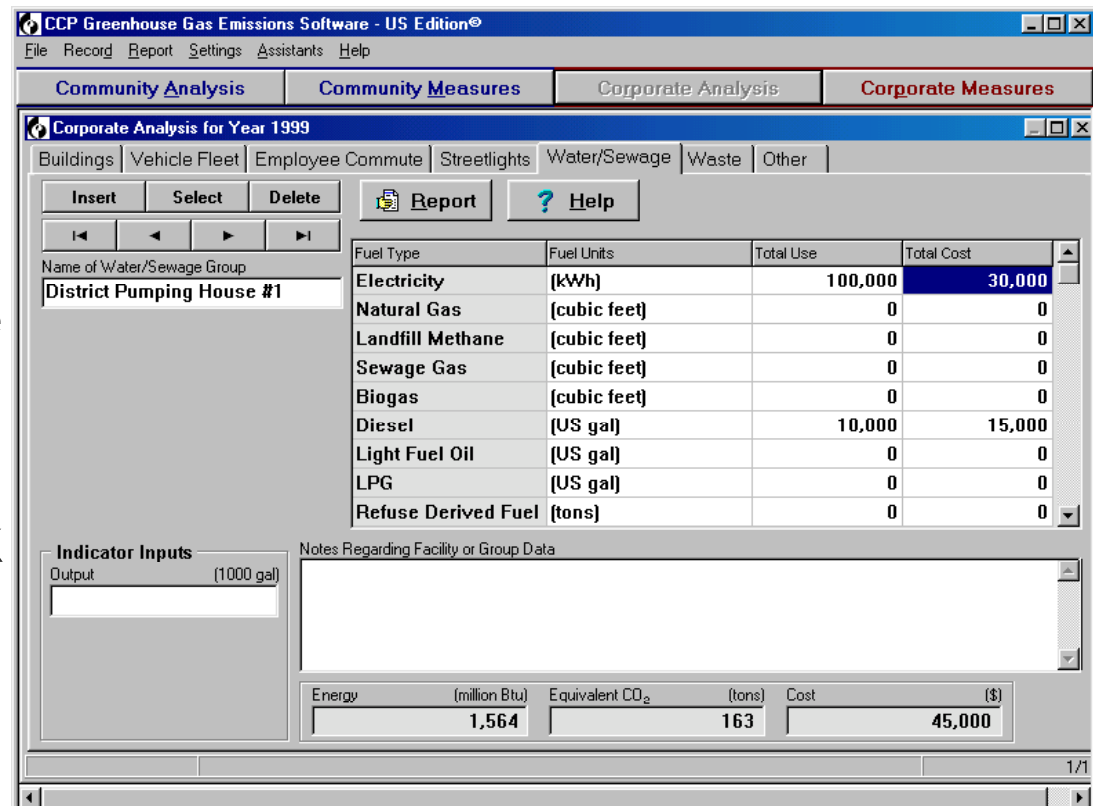


A 2005 ICLEI Study of 160 CCP participants found that yearly **23 million tons** of eCO₂ is removed, saving **\$ 535 million** in energy and fuel costs. This emissions reduction =

- q Yearly Heating & Cooling for 1.8 Million homes
- q 2.1 Billions Gallons of Gasoline

What ICLEI Provides

- r Tools & methodology
- r Greenhouse gas quantification software
- r Technical assistance
- r Training sessions
- r Professional network
- r Competitive grants
- r Publications
- r Interactive website



CCP Greenhouse Gas Emissions Software - US Edition®

File Record Report Settings Assistants Help

Community Analysis Community Measures Corporate Analysis Corporate Measures

Corporate Analysis for Year 1999

Buildings Vehicle Fleet Employee Commute Streetlights Water/Sewage Waste Other

Insert Select Delete Report Help

Name of Water/Sewage Group: District Pumping House #1

| Fuel Type | Fuel Units | Total Use | Total Cost |
|---------------------|--------------|-----------|------------|
| Electricity | (kWh) | 100,000 | 30,000 |
| Natural Gas | (cubic feet) | 0 | 0 |
| Landfill Methane | (cubic feet) | 0 | 0 |
| Sewage Gas | (cubic feet) | 0 | 0 |
| Biogas | (cubic feet) | 0 | 0 |
| Diesel | (US gal) | 10,000 | 15,000 |
| Light Fuel Oil | (US gal) | 0 | 0 |
| LPG | (US gal) | 0 | 0 |
| Refuse Derived Fuel | (tons) | 0 | 0 |

Indicator Inputs: Output (1000 gal)

Notes Regarding Facility or Group Data

| Energy | (million Btu) | Equivalent CO ₂ | (tons) | Cost | (\$) |
|--------|---------------|----------------------------|--------|------|--------|
| | 1,564 | | 163 | | 45,000 |

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The Measures Cities Implement



Building-Related Energy

- q Municipal Building Energy Efficiency & Conservation
- q Community Building Energy Efficiency & Conservation
- q Outdoor Lighting
- q Clean Energy



Transportation

- q Vehicle Fuel Efficiency
- q Alternative Fuels
- q Trip Reduction / Transportation Demand Management



Recycling & Waste

- q Recycling
- q Methane Recovery



Land Use

- q Institute growth boundaries, ordinances or programs to limit sprawl
- q Brownfield Development
- q Open Space Protection
- q Plant shade trees

The Benefits of Local Climate Protection

- n **Save taxpayer dollars** by reducing municipal operating costs
- n **Build local economy and jobs**
- n **Improve air quality and public health**
- n **Improve community livability**
- n **Connect cities with a network** of progressive local governments nationwide
- n **Create a lasting legacy of leadership**

Adaptation

Climate Safe Communities Campaign

- n **Link climate change science with local governments**
- n **Develop tools and processes to increase resiliency a changing climate**
- n **Sustainable Approach**
 - q **Infrastructure**
 - q **Housing**
 - q **Economics**
 - q **Planning**
- n **Parallel Campaign to CCP**

What are cities doing?

Huntington, NY

- n Worked with local manufacturer to provide 3 hybrid buses for the Town
- n Recently passed a new ordinance offering free parking passes to all residents driving hybrids or alternative fuel vehicles

Parking Incentives & Hybrid Buses



What are cities doing?

Los Angeles, CA

Cops on Bikes:



- n 15% productivity increase for traffic officers
- n Improves morale and community relations
- n 15 bikes for traffic officers will save \$350,000 in vehicle costs over 5 years

What are cities doing?

Fleet Carsharing



PhillyCarShare
Our wheels. Your freedom.



Philadelphia, PA

- n Partnership between the City and PhillyCarShare for local residents & government employees.
- n Replaced 330 municipal vehicles, saving the city \$2 million/year & reducing car use 30%
- n Replaced 1,200 citizen vehicles, saving about \$5.5 million saving 8.2 million fewer vehicle miles driven

Contact Information

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