

Example Emissions Reduction Measures

Local governments participating in ICLEI's Cities for Climate Protection campaign are implementing a range of innovative measures to reduce greenhouse gas emissions in their internal government operations and throughout their communities. This list of Measures is broken down into two main categories: Municipal and Community. Municipal measures refer to the actions that local governments can take to reduce the emissions associated with *their* operations and activities, while community measures focus on reductions associated with the operations and activities of a city's residents, including private commercial and industrial operations. Measures that apply to both categories are listed repetitively under both Municipal and Community headings.

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Building-Related Energy Efficiency

MUNICIPAL MEASURES

a. General

- Conduct an energy audit of municipal facilities
- Implement an energy tracking and management system

b. Lighting

- Install energy-efficient exit sign lighting
- Perform energy-efficient lighting retrofits
- Institute a "lights-out-at-night" policy
- Install occupancy sensors

c. Heating & Cooling

- Perform heating, cooling and ventilation system retrofits
- Install green or reflective roofing
- Integrate passive solar design into municipal buildings
- Utilize solar hot water in heating systems
- Develop district heating or cooling infrastructure

d. Appliances / Office Equipment

- Install ENERGY STAR appliances
- Install ENERGY STAR computers
- Install ENERGY STAR monitors
- Install ENERGY STAR printers
- Install ENERGY STAR copiers
- Install ENERGY STAR fax machines
- Install ENERGY STAR water coolers
- Install energy-efficient vending machines
- Specify energy efficiency standards in purchasing and bid specs for office equipment
- Implement environmentally preferable purchasing program

e. Water

- Improve water pumping energy efficiency
- Install a central irrigation control system
- Install water-conservation aerators on faucets

- Make water-conservation retrofits to toilets and urinals
- Install new water conserving toilets and urinals, such as waterless urinals
- f. Employee Education**
 - Educate employees about efficient / conservative use of electricity, heat, water, and other resources
- g. Outdoor Lighting**
 - Install energy-efficient traffic lights
 - Install energy-efficient streetlights
 - Decrease average daily time streetlights are on
 - Install solar PV street and emergency lighting

COMMUNITY MEASURES

- a. General**
 - Implement time-of-use or peak demand energy pricing
 - Install energy-efficient cogeneration power production facilities
- b. Community Education & Campaigns**
 - Launch an “energy efficiency challenge” campaign for community residents
 - Offer / sponsor a green building program
 - Promote participation in a local green business program
 - Implement a community energy efficiency rebate program
 - Create financing for energy efficiency improvements: revolving loan funds through bonds, energy taxes, etc.
 - Promote energy conservation through campaigns targeted separately at residents and businesses
 - Start cooperative purchasing programs for efficient lighting and equipment
 - Provide energy audits and assessments for improving energy efficiency
 - Require industries to develop and implement energy conservation programs
- c. Lighting**
 - Offer an LED Christmas light trade-in to community members
 - Distribute free CFL bulbs and/or fixtures to community members
 - Offer a halogen torchiere lamp exchange to community members
- d. Heating & Cooling**
 - Implement a low-income weatherization program
 - Remove or replace woodstoves and fireplaces with EPA rated woodstoves
 - Install solar water heating at the community swimming pool
 - Implement district heating and cooling
 - Offer incentives for residents to use green or cool roofing
- e. Appliances**
 - Specify energy efficiency standards in purchasing and bid specs for office and heavy equipment
 - Promote the purchase of ENERGY STAR appliances and office equipment
- f. Water** [are these measures relevant enough to GHG concerns?]
 - Establish youth task force program to perform basic water-conservation retrofits throughout the community
 - Subsidize community procurement of water-conservation / energy-efficient technologies and fixtures
 - Instate a water-conservation ordinance
- g. Building Codes / Green Construction**
 - Develop building codes that demand energy efficiency, and green building methodology such as those stipulated by LEED certification

- Require all new construction projects to be LEED certified and/or ENERGY STAR certified
- Require all retrofit projects to become LEED certified and/or ENERGY STAR certified
- Lower fees, stream-line permits, and offer other incentives for energy efficiency improvements, use of renewable energy, and LEED and/or ENERGY STAR certified projects
- Encourage/Sponsor city staff to become LEED Accredited Professionals

General Community Education

- Teach climate protection in schools
- Teach climate protection in the broader community