

Milwaukee Sustainability Achievements

*From Cream City
to Green City*



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CITY OF MILWAUKEE



CITY OF MILWAUKEE SUSTAINABILITY ACHIEVEMENTS

BUILDING A SMARTER CITY THROUGH SUSTAINABILITY

- Mayor Barrett creates the Office of Environmental Sustainability (OES) in 2006
- CO₂ emissions down over 9% since 2005
- Milwaukee ranked 12th on SustainLane's U.S. Cities Sustainability Index
- Award winning DCD-led redevelopment of the Menomonee Valley from contaminated brownfields to a thriving eco-industrial area
- DPW wins 2010 Government Green Fleet Award
- The City and MMSD win 2011 Leadership in Stormwater Management Award from Great Lakes & St. Lawrence Cities Initiative
- The *Recycle For Good* campaign increased recycling tonnage in 2010 and introduced single-sort recycling to make recycling easier in 2011
- Milwaukee recently named one of 24 cities globally as an IBM Smarter City in recognition of the City-supported urban agricultural movement, specifically aquaponics



Mayor Barrett speaks about Growing Power at City Hall gardens.

SAVING DOLLARS WITH ENERGY EFFICIENCY



Green roof and solar panels at the Central Milwaukee Public Library.

Energy efficiency is the simplest and fastest way to save money and reduce greenhouse gas emissions. DPW has taken substantial steps to reduce the City's energy use while OES leads a number of new energy efficiency projects for City facilities, Milwaukee homeowners and businesses.

- In 2010, the City's electric and natural gas bills would have been nearly \$1 million higher if not for the Mayor's leadership on reducing energy in City buildings

- LEED Silver Certification for City Hall Complex in 2009
- All City traffic lights converted to energy saving LEDs, substantially reducing energy use
- Milwaukee Energy Efficiency - Me² - helps homeowners and businesses pay for energy efficiency improvements while saving on energy bills through a variety of innovative financing options
- Me² is leveraging up to \$40 million in private capital from Summit Credit Union and other financial institutions to help City homeowners and business finance energy efficiency improvements
- OES formed an Energy Reduction Team to track City energy performance and has identified additional facilities upgrades for Health, Police and other departments
- The City's sustainable manufacturing initiative, ME3, helps local manufacturers cut costs and reduce environmental impacts



Green roof at the City of Milwaukee's 809 Broadway building.

BUILDING A CLEAN ENERGY FUTURE

The City is committed to clean energy solutions to lower long-term energy costs, improve the community's air quality and support growth in the industry. The City's Milwaukee Shines program works with City departments, residents and businesses to create a sustainable clean energy future. In fact, Milwaukee was named one of 25 "Solar America Cities" by the U.S. Department of Energy in 2008.

- Over 1.1 megawatts of solar power being generated by homes, businesses and government
- Solar installer workforce tripled in less than three years (2007-2010)
- 10% of City Hall's electricity comes from renewable energy
- Construction beginning on 100 kilowatts wind turbine that will provide power to Port of Milwaukee
- Over 80 kilowatts of solar power for the City's Central Library, Central Repair Garage and Recycling Education Center (which also uses geothermal)
- Seven Milwaukee Fire Department engine houses using solar hot water systems
- The Housing Authority is a national award recipient for adding solar thermal and other sustainable features to public housing



REVITALIZING OUR WATERS THROUGH STORMWATER MANAGEMENT

Protecting Lake Michigan and our rivers is critical for healthy waters and the economy. The City and MMSD work together to implement stormwater management practices. These practices aid in preventing overflows and back-ups through sustainable means and reduce pollution in our waters.

- Over 13 acres of green roof projects, including MMSD Headquarters and Lab, the City's Central Library and the 809 Building of City Hall Complex
- The joint City-County revitalization of Bradford Beach contains stormwater retention features that keep the beach free of pollution and open to visitors
- DPW has planted 25,000 trees since 2005 bringing the total stormwater reduction benefit of Milwaukee's urban forest to \$16 million, with \$2.6 million in air pollution removal, \$9 million in carbon storage and \$820,000 savings in residential energy costs annually
- The "Green Corridor" initiative on S. 6th St. takes a unique community approach to stormwater management
- The City's public-private preservation and adaptive reuse project at the Brewery reduces stormwater impacts and is the City's first LEED neighborhood pilot project

ALTERNATIVE FUELS PROVIDING ENERGY SECURITY

The City is an innovator in its use of alternate fuels. DPW has led the way and works with OES and other departments to continue diversifying the City's fuel supply and vehicle fleet.

- DPW's two Compressed Natural Gas (CNG) refueling stations offer CNG to public and commercial users of all CNG vehicles and the City's new fleet of CNG refuse trucks
- All City diesel vehicles have been using biodiesel since 2006
- DPW and Water Works fleets include 28 hybrid vehicles with more on order
- OES will be installing up to 5 electric vehicle recharging stations throughout the City in 2012