



air

water

energy

Goodyear ARIZONA

**It's Good<sub>(year)</sub> to be green!**

[www.goodyearaz.gov](http://www.goodyearaz.gov)

**The City of Goodyear is proud to be a part of, and to have the Mayor and Council endorse the U.S. Mayors' Climate Protection Agreement as adopted by the U.S. Conference of Mayors. The agreement also sets forth a series of actions that the signatories to the agreement will pursue to reduce energy use and greenhouse gas emissions in their respective communities. Those actions include:**

- Adopt and enforce land use policies that reduce sprawl, preserve open space and create alternatives to private automobile transport;
- Seek the use of clean alternative energy sources;
- Make energy efficiency in buildings a priority, including energy efficiency standards for new construction; retrofitting City facilities with energy-efficient fixtures and equipment, and using energy-efficient appliances;
- The city is currently evaluating the new construction of Goodyear's City Center and Library projects, using The United States Green Building Council (USGBC) to determine the level of LEED certification (Leadership in Energy and Environmental Design). Both the City Center (Phase I) and the Library have been registered within the evaluation system. Goodyear is analyzing the level of certification attainable from the LEED program;
- Reduce fuel consumption in the City fleet through improved fuel efficiency and the use of alternative fuels, employing fewer vehicles and establishing fuel-saving practices;
- Inventory City and community emissions, set reduction targets and create an action plan;
- Increase recycling rates in City operations and the community;
- Maintain healthy urban vegetation and increase the trees which provide shade and absorb CO<sub>2</sub>;
- Educate employees, the public, business and association leaders about reducing global warming pollution.

**While this list of actions is quite extensive, a quick inventory of City practices and programs shows that the City is currently, and significantly, engaged in many activities that reduce global warming pollution. A sampling of these activities includes:**

- Sustainable Land Use Policies – The City's General Plan and the City Center Master Plan that when implemented will cumulatively preserve open space, and create compact, walk-able communities with transportation alternatives.
- Conservation - Wastewater Treatment Plant Upgrades will result in increased pump efficiencies.
- Recycling - Goodyear's Residential Recycling Program has increased the recycling rates in City operations and in the community. Goodyear has expanded it's recycling program to accept all plastics #1-#7, also established a permanent Electronics Waste Drop off Site at the White Tanks Transfer Station, and now have recycling containers available for use at all the City maintained parks. Goodyear recently became the first city in the valley to incorporate recycling at all multi-family complexes located within Goodyear. This allows residents that live in apartments, condos, RV parks (etc), the same opportunities to recycle as our curbside residents.



- **Promote Transportation Options; Trip Reduction Programs; Public Transit** - The City's regional Park and Ride lot, when constructed, will reduce the number of cars on the freeway and improve air quality; the City's flex schedule policy contributes to reducing congestion during rush hour; the City will also be investigating more multi-modal options for transportation this year and studying neighborhood circulators to get local residents to major destinations in Goodyear.
- **Energy Efficiency** – All City facilities are equipped with energy efficient lighting; additionally, the HVAC units in three of the city's facilities are controlled through a centralized computer system to maintain temperature thresholds, particularly during peak heat over the summer.
- **Fuel Efficiency** – The City recently added 82 new vehicles to the fleet that run on E85 fuel (ethanol);
- **Use of programmable thermostats in City Facilities.** Aids our ability to retard temperature settings at facilities in off hours.
- **Use of 'Smart' Irrigation Controllers.** Allows for rainfall offsets and detailed focus on irrigation delivered volumes.
- **Drip Irrigation** delivery heads to focus irrigation into specific areas of vegetation.
- **Use of T-8 Fluorescent Lighting fixtures.** Lowers electrical consumption and boosts lighting output by a factor of approximately 33% as compared to T-12 lighting technology.
- **Installation of higher efficiency Air Conditioning units as failure or renovation occur.** Our desired minimum target is seeking a rating at 13 SEER or above. Upgrade from a SEER rating of 9 to a rating of 13 will reduce electrical consumption approximately 30%.
- **Reclaimed water irrigation.** Commencement of planning/design to convert water delivery for irrigation from potable sources to reclaimed water.
- **City-wide use of LED traffic control fixtures** have decreased electrical consumption in these units.
- **Deployment of electric carts** for maintenance and grounds use at the Stadium and Development complexes.
- **City-wide use of Custodial Products** (toilet paper, paper towels, air freshener, and liquid soap) that adhere to a GS-37 standard for manufacturing and packaging. We are currently evaluating applicable cleaning products that adhere to environmentally standards for deployment within City Facilities.

#### Other proposed programs being considered:

- Use of Waterless Urinals and the use of reclaimed water as a means of waste conveyance within a facility.
- Incorporation of sustainable energy production into new facility design (Photovoltaic and Solar Thermal).
- Thermal Massing and facility Orientation to manage day lighting and solar gain.
- Incorporating use of Alternative Fuels (Bio-Diesel and E-85) within City fleet vehicles and equipment.
- Constructing pilot wetlands to test a green tactic to handle brine waste generated in treating groundwater and wastewater high in total dissolved solids.
- Evaluating the use of photovoltaic (PV) system and electric vehicle (EV) charging stations at the city's Park and Ride facility; in addition, bicycle lockers and bike racks, to further encourage environmentally-friendly commuting.

Goodyear



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