

Using A Sustainability Program to Mitigate Climate Change

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YOU can decrease Greenhouse Gas emissions at your utility

Which WILL reduce the effects of climate change

Which WILL reduce the need for adaptation



- What difference does it make if Climate Change is already happening anyway? Why act?



- The more we do to mitigate, the less adaptation will be needed as the climate changes
- The sooner we act, the more good mitigation will do
- Improves air quality
- Stay ahead of coming regulations
- Many actions can save your utility money

- EPA Climate Leaders Program
- Tools for low emitters – you don't need to join the program

[http://www.epa.gov/climateleaders/
documents/sgec_tool_v2%208.xls](http://www.epa.gov/climateleaders/documents/sgec_tool_v2%208.xls)
for Greenhouse Gas Inventory tool

- Category I – Direct Emissions
- Category II – Indirect Emissions
- Category III – Optional Emissions

- Fleet Emissions
 - Cars, trucks, meter vans
 - Construction equipment
 - Forklifts
- Generators
- Landscaping equipment – mowers, weed eaters, trimmers



- Refrigeration, Chillers
 - A/C Units in Vehicles
 - Fire Suppression Equipment
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- The background of the slide features a large, circular graphic of water ripples. The ripples are concentric and emanate from a central point, creating a sense of depth and movement. The colors range from light blue to a deeper blue, with the center being the darkest. The overall effect is clean and refreshing, fitting for a water district's presentation.



- Electricity Usage
- Natural Gas, Propane, Steam

(Purchased and consumed by you,
but produced by others)

- Employee Business Travel
 - Meetings/conferences
 - Rental cars, taxis, airplanes, rail
- Employee Commuting
- Off-site Waste Disposal



- Facilities
 - HVAC Controls
 - Motion Sensors
 - Timers on heaters and other equip
 - Computers
 - Mowing/weedeating



- Pumping
 - Variable Frequency Drives
 - Heating & lighting at pump stations
 - Renewable energy opportunities
 - Solar
 - Micro Hydro



- Fleet
 - Hybrid vehicles, including plug-ins
 - Alternative fuels, such as biodiesel
 - Natural gas or propane
 - Vehicle batteries that keep warning lights functioning without running vehicle



- Fleet
 - Conservation
 - Reducing trips, efficient routing
 - Multiple reporting sites, equipment left close to job site
 - Alternative work schedules
 - 4 10's or 9/80 schedule → less travel and more time working





- Non-fleet Business Travel
 - Combine errands
 - Public transportation or carpool to meetings
 - Electronic communication
 - Maybe alternate between in-person meetings and conference calls
 - Web cams



- Employee Commuting
 - Telecommuting
 - Alternative work schedules
 - Multiple reporting sites
 - Subsidy/reward for bussing, carpooling, MAX-ing, biking, walking to work

	10 YEAR SAVINGS	10 YEAR SAVINGS
Potential Mitigation Measure	Dollars	CO ₂ (tons)
Hydroelectric generation station 1	\$140,000	1,168
Hydroelectric generation station 2	\$220,000	3,504
Phoenix 100% electric truck (ea.)	\$9,825	790
Solar installation at main facility (100 kW)	\$45,000	500
Idle reduction program (total fleet)	\$0	440
Increased use of biodiesel (B50)	(\$36,000)	370
Telecommute (1 day/week) (10 ees)	\$0	65
Purchase Ford Escape Hybrid (ea.)	\$100	20

10 Year Total Savings: \$379,000 6,857

Ave. Annual Total Savings: \$37,900 686

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- Reducing our emissions NOW is essential
- The BEST thing we can do to decrease Greenhouse Gas emissions from our operations is to rethink the way we operate and conserve our resources



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