



Energy Efficiency, Renewable Energy, and Climate Considerations Implemented at Wastewater & Drinking Water Facilities in the Metropolitan Washington Region

OVERVIEW

This handout highlights results of the Climate, Energy & Environment Policy Committee (CEEPC) Annual Survey to inventory practices and programs implemented throughout the region. Water resource facility respondents were: Alexandria Renew, DC Water, Prince William County Service Authority, Upper Occoquan Service Authority, Washington Aqueduct, and Washington Suburban Sanitary Commission.

- 5 out of 6 respondents completed a greenhouse gas inventory
- 3 out of 6 respondents implemented energy efficiency/ alternative/ renewable energy projects
- 3 out of 6 respondents are assessing their vulnerability to climate change
- 2 out of 6 respondents implemented an employee sustainability program

HIGHLIGHTS

The following are examples of the range of activities and programs that are being implemented by water resource facilities (both wastewater and drinking water) in the region.

Alexandria Renew

- ✓ Target: reduce greenhouse gases 20% by 2020
- ✓ Assessing impacts of climate change when upgrading facilities
- ✓ Implemented operations and process enhancements to reduce energy use
- ✓ Offers employee transit benefits; operates alternative fuel fleet vehicles
- ✓ ReNEW's digester produces enough gas to heat nearly 800 homes a year



DC Water

- ✓ Completed Comprehensive Energy Audit in 2010
- ✓ A new Combined Heat and Power program will generate 13 megawatts of renewable energy
- ✓ Host electric vehicle charging stations at two facilities
- ✓ Implemented a 'Green Team' for employee education and sustainability



Prince William County Service Authority

- ✓ Conducted an energy study; evaluating alternatives
- ✓ New Public Education Building will be a green building
- ✓ Utilizes reclaimed water for irrigation

Upper Occoquan Service Authority

- ✓ Conducted an energy audit in 2008 that identified Energy Conservation Measures to be implemented
- ✓ Currently constructing a digester gas-fueled CHP system
- ✓ Established a Sustainability Policy



Washington Aqueduct

- ✓ Participated in Army Corps of Engineers Greenhouse Gas Accounting system
- ✓ Completed an energy audit and is working to implement an Energy Savings Performance Contract (ESPC) to install recommended energy conservation measures
- ✓ Purchases 7.5% renewable energy through GSA contract

Washington Suburban Sanitary Commission (WSSC)

- ✓ Developed a Greenhouse Gas Action Plan and Strategic Energy Plan
- ✓ Wind and Solar Energy Programs
- ✓ In 2011, 28% of WSSC's electricity came from wind power

