

Reporting Date:
March 1, 2011

Environmental Report Card for U.S. EPA Region 8 HQ Office 1595 Wynkoop Street, Denver, Colorado

This Environmental Report Card provides a brief summary of the 1595 Wynkoop building's performance with respect to key sustainability indicators. The purpose of the report card is to educate Federal employees and the public on environmental impacts of operating buildings and EPA's efforts to reduce those impacts as required by Executive Order (EO) 13514. EPA Region 8 has identified the most significant environmental **IMPACTS** of its operations at 1595 Wynkoop and the rating scale is pass/fail/incomplete defined in the key below:



Greenhouse Gas Emissions

EO Requirement: 28% reduction by 2020, baseline 2008.

Comments: 2008 baseline for 1595 Wynkoop is 6,144 tonnes/year CO₂ = enough to fill 1.5 blimps every day. We've increased our carbon emissions every year we've been in the building. The emissions total for calendar year 2010 is 6,692 tonnes; an almost 9% increase since 2008. Region 8 is studying plug load electricity use, data center optimization and water use as part of an effort to develop and implement a GHG reduction plan.

GRADE

Fail



Sustainable Location/Alternative Commuting

EO Requirement: Ensure that planning for new Federal facilities considers pedestrians, public transit, and proximity to employment.

Comments: Location is very close to light-rail, a bus terminal as well as bicycle paths. There is secure bicycle parking in the garage and showers for bicycle commuters.

GRADE

Pass



Fleet Vehicles

EO Requirement: 30% reduction in vehicle fleet petroleum use by 2020.

Comments: In the period from Sept. 2009 through October 2010, 24 vehicles in the Region 8 fleet were driven a combined 284,349 miles. While this is approximately 12,000 miles more than was driven in FY09, the average fuel economy of our fleet increased from 19.6 mpg in FY09 to 23.5 mpg in FY10. The amount of fuel purchased in FY10 was 12,093 gallons, a 13% decrease from FY09.

GRADE

Pass

Pass + = has taken action to exceed the EO requirement
Pass = has taken action to meet the EO requirement
Incomplete = has partially met the EO requirement or is in progress
Fail = has not taken action to meet the EO requirement

Water Consumption

EO Requirement: Reduce potable water consumption by 2% annually through fiscal year 2020, or 26% percent by the end of fiscal year 2020, baseline 2007.

Comments: Building has water efficient fixtures with 72 dual flush toilets and 18 waterless urinals. Auto faucets with aerators and low-flow shower heads.



Total volume of water consumed at 1595 Wynkoop in CY2010 was 2,999,000 gallons, which equates to about 3,870 gallons for each of the 775 occupants. For illustration, the tanker truck (pictured) holds 5,000 gallons. This represents a nearly 25% reduction in water use since calendar year 2008. The savings are largely due to reconfiguration of poorly designed elements in the condensate heat recovery system in July 2009.

Region 8 is partnering with the General Services Administration (GSA) to conduct sub-monitoring of various building water uses in hopes of identifying other opportunities for savings.

GRADE

Pass

Stormwater Management

EO Requirement: Implement stormwater provisions of the Energy Independence and Security Act (EISA) of 2007.

Comments: EISA 2007 requires that all new applicable Federal Facility construction projects be designed to achieve pre-development hydrology. The EPA building was built before this requirement was enacted. Storm water management systems include a sand filter detention vault and green roof. Monitoring from the green roof shows that runoff has been reduced by 85% for all storms 0.6" or less. Largely as a result of data collected at 1595 Wynkoop, green roofs have been accepted as standard Best Management Practice by the Urban Drainage and Flood Control District for stormwater treatment. For large storms exceeding one inch in size, runoff is reduced by less than 50%. This performance would not meet the EISA requirements as defined in EPA's EISA technical guidance, since there is not complete capture of the 95th percent storm event (1.1" for Denver).

GRADE

Pass

(Doesn't meet EISA, but performs much better than average)



Electronics Stewardship

EO Requirement: To improve our environmental, energy and economic performance, in part through specific electronics stewardship activities such as green procurement, power management, energy efficiency, and responsible disposition.

Comments: In FY10 we donated 3,540 lbs of electronic equipment for reuse and recycled 6,818 lbs of office electronics, 100% of the eligible electronic equipment we purchased was EPEAT registered, meaning they meet the highest environmental standards for equipment on the market. Region 8 has been recognized by the Federal Electronics Challenge (FEC) and awarded GOLD status for electronic Stewardship for 2009 and 2010. In 2011 Region 8 has applied for FEC Platinum status. Region 8 recently implemented an automatic shutdown of computers at 7:00 pm to reduce energy consumption for computers that are left on inadvertently.

GRADE

Pass

Solid Waste Generation/Diversion

EO Requirement: 50% recycling and waste diversion by 2015, increase diversion of compostable / organic material.

Comments: Our diversion rate at the end of 2009 was 57%. In May of 2010 we implemented a compostable material collection program with a goal of 70% total landfill diversion. By the end of 2010, our landfill diversion rate was 85%.

GRADE

Pass +