City of Alexandria, Virginia

Progress Report on the Environmental Action Plan 2030

City Council Legislative Session April 22, 2014





Eco-City Alexandria – Partnership Between the City, Alexandria Environmental Policy Commission, Virginia Tech and the Community







2007: Eco-City project started2008: Eco-City Charter2009: Environmental Action Plan 2030



ENVIRONMENTAL INDICATOR (EI)	CURRENT PERIOD FY2012 or 2012	% CHANGE 2012 vs. 2011
1. Air Quality Days - number of days with code red/ orange	7	0
2. Per capita energy use, MWh per person per year	20.31	-7.4%
 City government operations energy use, MWh per year 	116,608	-0.6%
 Greenhouse gas emissions by City government operations, metric tons of CO₂ per year 	53,777	+0.9%
 Greenhouse gas emissions by residents and businesses, metric tons of CO₂ per year 	1,755,395	-1.2%
 Per capita greenhouse gas emissions, metric tons of CO₂ per year 	12.3	-3.1%
 Percent of new developments committing to green building standard 	84%	-12.5%
8. Percent tree canopy	33%	N/A
9. Number of acres protected since approval of Open Space Master Plan in 2003	100.5	+14.2%
10. Percent solid waste recycling rate	48.7	+0.6%

	ENVIRONMENTAL INDICATOR (EI)	CURRENT PERIOD FY2012 or 2012	% CHANGE 2012 vs. 2011
11.	DASH Public transit ridership - number of mass transit commuters per year	3,882,022	+3.5%
12.	DASH Total passengers per mile / Total passenger per hour of service	2.6/24.6	-3.7/-0.8
13.	Per capita water use, gallons per person per year	36,718	-0.0%
14.	Per capita waste water treated, gallons per person per year	44,202	+10.5%
15.	Number of stormwater Best Management Practices (BMPs) in the City	376	+7.7%
16.	Number of respiratory health complaints received by the Alexandria Health Department	76	+28.8%
17.	Percent of full service restaurants that are totally non-smoking	97.0	+0.1%
18.	Percent of population living in a walkable community	73	0.0%
19.	ACPS energy usage per square foot of building space, Btu/ft ² /year	49,351	+3.3%
20.	ACPS waste composting rate, Pounds per year	222,477	+30.7%

Solid Waste Management

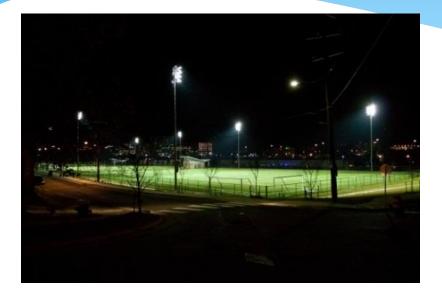
 City and Arlington County agreed to extend the COVANTA energy from waste plant lease agreement until 2038





- City's goal is to provide the opportunity to recycle at athletic fields and high traffic areas by installing permanent outdoor containers
- 80 recycling containers have been installed on King Street and athletic fields

Environmental Remediation and Restoration



 Witter Recreational Facility development completed as part of the Virginia Voluntary Remediation Program

- Groundwater remediation system at the foot of Oronoco Street installed
- Chambliss stream
 restoration and crossing



DASH Celebrated 30 Years of Service to Alexandria Residents

 DASH has 25 hybrid electric buses with plan to procure 21 additional hybrid electric buses in 2014





 DASH operates King Street Trolleys using five new 30-foot hybrid-electric trolleys

Significant Achievements and Recognitions

- City received highest Platinum certification for Virginia Municipal League's Go Green Government Challenge for the sixth consecutive year
- City achieved Silver Level Bicycle Friendly Community designation by the League of American Bicyclists

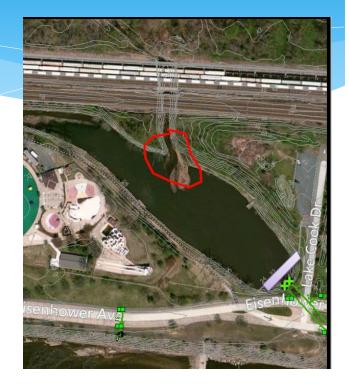




- Alexandria City Public Schools was recognized as Certified (Silver Level) Green School Division by the Virginia School Boards Association
- Alex Renew received the Platinum Peak Performance Award by the National Association of Clean Water Agencies

Emerging Issues & Challenges

- Short and long term issues related to impacts of TMDLs (Total Maximum Daily Loads) and City's new stormwater and combined sewer permits
- Hunting Creek bacteria TMDL requires updating the City's Long Term Control Plan for the combined sewer system





 City's strategy to meet 5% reduction in TMLDs by 2018 required by stormwater permit includes installation of pond 19 and retrofit of Lake Cook using a \$1.2 million grant

Emerging Issues & Challenges

- Implementation of the Energy and Climate Change Action Plan
 - Continue to reduce the City's and community's energy use
 - Monitor scientific information on sea level rise and adaptation strategies



City of Alexandria Energy and Climate Change Action Plan Local Actions to Save Energy, Reduce Greenhouse Gas Emissions, and Prepare for the Impacts of Climate Change 2012 – 2020



June 2011



Office of Environmental Quality Department of Transportation and Environmental Services