

**COMMONWEALTH OF VIRGINIA
STATE AIR POLLUTION CONTROL BOARD**

**OZONE ADVANCE ACTION PLAN
FREDERICKSBURG, VIRGINIA**

**Annual Report
April 30, 2014**

Fredericksburg Area Ozone Advance Action Plan - Annual Report

Control Program	Stakeholders	Time Frame	Milestones	Feedback & Comments
Fredericksburg Area Metropolitan Planning Organization				
CMAQ Projects	FAMPO	2012-2018	<ul style="list-style-type: none"> Programs initiated? 	<ul style="list-style-type: none"> See FAMPO-Resolution-13-13-Allocaiton-FY14-19-RSSTP-CMAQ-Funds.pdf
GWRideConnect	FAMPO GWRideConnect	On going	<ul style="list-style-type: none"> VMT avoided annually Vehicle trips avoided annually Vanpools formed 	<ul style="list-style-type: none"> Programs ongoing http://www.gwriderconnect.org
Virginia Department of Environmental Quality				
Expansion of ORE	VDEQ	Full Implementation: 2014	<ul style="list-style-type: none"> Program implemented? 	<ul style="list-style-type: none"> DEQ received one proposal for an expanded On-Road Emissions (ORE) program, which will enable up to 30% of the vehicles currently requiring a biennial test at an inspection station to pay for an optional "clean screen" pass. DEQ is currently in the process of negotiating the final terms of the contact and expects implementation by the end of this year.
DMME-Division of Energy				
VEMP	DMME	Ongoing through 2020	<ul style="list-style-type: none"> SF of public buildings retrofitted? Private capital deployed? Energy savings? 	<ul style="list-style-type: none"> Total value of contracts through FY 2012 is nearly \$537 million. More information for FY2013 is being collected from contractors, including building square footage and quantification of avoided energy units. http://www.dmme.virginia.gov/DE/PerformanceContractingSupport.shtm See VEMP-All ESCOs and Contract totals Through FY12.xlsx
Energize Virginia	DMME	2011-2016	<ul style="list-style-type: none"> Funds awarded? Programs to be implemented? 	<ul style="list-style-type: none"> More than \$10M awarded. Projects include energy performance contracts, and a solar thermal system. See DMME-Performance Measures FY14Q1.xlsx, tab RLF 1.01.03
Virginia Clean Cities				
Virginia Get Ready	VCC	Ongoing	<ul style="list-style-type: none"> Program ongoing? 	<ul style="list-style-type: none"> Deployed two EV planning docs in 2013 as well as tools for advancing electric vehicles and infrastructure. See http://www.virginiaev.org/ VA registrations of electric vehicles increased from 729 in 2012 to 1,257 in 2013. VA public charging stations increased in number from 140 in 2012 to 212 in 2013. See va_electric+hybrid_vehicles_and_stations_2008-2013.xlsx

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Propane Autogas Program	VCC	Ongoing	<ul style="list-style-type: none"> Program ongoing? 	<ul style="list-style-type: none"> Program concluded in 2013. Converted 117 vehicles to autogas in VA Alternative fuel vehicles estimated to reduce NO_x emissions 273 tons annually in VA See VCCC-2013report-NOxCalculations.xlsx
Regional Reductions				
Honeywell SCR Installation	VDEQ	12/2012 through 06/2019	<ul style="list-style-type: none"> # of SCR installed? Annual emissions of NO_x? 	<ul style="list-style-type: none"> Two SCR commenced operation December of 2012. Two additional SCR under construction.
Invista Powerhouse Project	VDEQ	Estimated construction completion date of 2014	<ul style="list-style-type: none"> Construction begun? New units operational? Coal units retired? 	<ul style="list-style-type: none"> New boilers started operation in January of 2014. Shutdown request for existing boilers 1 and 2 effective January 9, 2014. Shutdown request for existing boiler 3 expected summer of 2014.
Celco Powerhouse Project	VDEQ	Estimated construction completion date of 2015	<ul style="list-style-type: none"> Construction begun? New units operational? Coal units retired? 	<ul style="list-style-type: none"> The facility informed VDEQ that construction commenced for the six natural gas boilers on 7/16/2013.
Fort A.P. Hill	Fort A.P Hill	Ongoing	<ul style="list-style-type: none"> Annual emission estimates New programs implemented or studied? 	<ul style="list-style-type: none"> New Army Reserve Center Complex-LEED Certified Gold July 2013 AWG Complex certified LEED Silver in near term. See Updated_figures_for OAPP_3-16-14.docx
Generating unit retrofits and fuel switches	Dominion	2013-2016	<ul style="list-style-type: none"> Facilities converted to gas or biomass? Facilities retired? Facilities retrofitted? 	<ul style="list-style-type: none"> Bremo Bluff permit for gas conversion finalized 5/24/2013. Station ceased burning coal in fall of 2013. Outage and work commenced for unit fuel switch this winter. Project is expected to be completed in the next few months. See Title V permit for Bremo Bluff.pdf Permits received for Hopewell, Altavista, and Southampton fuel switch from coal to biomass. Units have begun burning biomass and no longer burn coal. Installation of SO₂ scrubbers has been completed for all coal units at the Chesterfield Power Station near Richmond, VA.

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<i>Other</i>				
Virginia Offshore Wind Technology Advancement Project	Dominion	2017-2018	n/a	<ul style="list-style-type: none"> • Dominion is planning an offshore wind technology testing facility, which will consist of two offshore wind turbines with a combined capacity of approximately 12 MW. https://www.dom.com/about/stations/renewable/vowtap.jsp • On September 4, 2013, Dominion bid \$1.6 million to win the lease for 112,800 acres off the Virginia coast to develop an off-shore wind farm capable of generating up to 2,000 MW of electricity, and is actively developing this large-scale commercial off-shore wind project. https://www.dom.com/about/stations/renewable/commercial-offshore-wind-development-project.jsp • See Dominion Wind Power.pdf
National Parks	VCC, NPS	On going		<ul style="list-style-type: none"> • NPS is adding 12 prone lawn mowers and 2 electric vehicles to fleet, along with a public EV charging station and 2 private EV charging stations.