

GGRA Top Ten Strategies and Programs

1. **The Renewable Energy Portfolio Standard (RPS) – MEA**
 - 6.86 MMtCO₂e Reductions as Initially Designed, 10.96 MMtCO₂e Reductions with Enhancements
 - The RPS is moving forward. This year bills were sponsored to remove black liquor from the RPS and increase the standard to 40% by 2040. Neither passed.
2. **EmPOWER Maryland – MEA**
 - 8.42 MMtCO₂e Reductions as Initially Designed, 10.52 MMtCO₂e Reductions with Enhancements
 - Post-2015 EmPOWER planning continues. Utility plans for the 2015-2017 performance period are due to the Public Service Commission in September. MEA continues to focus on improvements to Commercial and Industrial sector performance.
3. **Zero Waste’s Long-Term Strategy to an 85% Reduction in the Generation of Solid Waste by 2030 - MDE**
 - 2.80 MMtCO₂e Reductions as Initially Designed, 4.80 MMtCO₂e Reductions with Enhancements
 - MDE has drafted the 25-year plan which centers a 2040 recycling and waste diversion goals of 80% and 85%, respectively, along with interim targets. Planned actions include: enhanced waste management reporting; new source reduction requirements; augmented composting, recycling and reuse guidance and mandates; clean energy recovery incentives; expanded materials and process bans; numerous government lead-by-example initiatives; and market and job creation inducements. After strategy is implemented, MDE will assess progress by measuring per capita annual waste generation. Current level is 1.26 tons.
4. **Clean Cars Program - MDE**
 - 4.33 MMtCO₂e Reductions as Initially Designed, 4.33 MMtCO₂e Reductions with Enhancements
 - This program has been implemented through regulations adopted by MDE into COMAR 26.11.34 through IBR amended effective March 4, 2013 to incorporate LEV III emission standards for 2015-2025 cars. Vehicle registration data showing fleet turnover to post-2011 vehicles: (2011) 287,669 + (2012) 316,726 + (2013) 261,294 = 865,725 new “clean cars”
5. **The Regional Greenhouse Gas Initiative (RGGI) – MDE**
 - 0.00 MMtCO₂e Reductions as Initially Designed, 3.60 MMtCO₂e Reductions with Enhancements
 - During the last RGGI auction held on September 3, 2014, 17,998,687 CO₂ allowances were sold at the auction at a clearing price of \$4.88. Allowances sold represent 100 percent of the allowances offered for sale.
6. **Building and Trade Codes in Maryland – DHCD**
 - 3.15 MMtCO₂e Reductions as Initially Designed, 3.15 MMtCO₂e Reductions with Enhancements
 - Maryland’s Building Performance Standards are updated by regulation every three years following the three-year cycle of the International Code Council. The

IgCC energy was released in 2012 and is expected to achieve an additional 15 percent in energy efficiency improvements over the 2009 building codes.

7. Public Transportation – MDOT

- 2.00 MMtCO₂e Reductions as Initially Designed, 2.89 MMtCO₂e Reductions with Enhancements
- Public Transportation
 - i. PURPLE LINE: 16 mile, 21 stations with connections to MARC, METRO, AMTRAK. The project cost \$2.4 billion. Emission Benefit: 0.038 MMT.
 - ii. CONST-summer 2015; Open; Dec. 2020;
 - iii. RED LINE: 14 miles, 19 stations, 4 underground. Cost is \$2.6 billion.
 - iv. CONST to start spring 2015;
 - v. CORRIDOR CITIES TRANSITWAY: Shady Grove to Clarksville. 15 mile bus transit system: COST estimate \$241 million. PE final EIS in 2014.
 - vi. MARC- EXPANDED SERVICE - extended weekend service now underway. \$46M.
- Intercity Transportation Initiatives
 - i. SOUTHERN MARYLAND COMMUTER BUS SERVICE: Increased Commuter Bus service. Includes parking expansion in Waldorf and Charlotte Hall.
 - ii. Charlotte Hall-complete, Waldorf construction to begin in 2015. COST: \$27.7M.
 - iii. B&P Tunnel: The tunnel is to be improved to accommodate high speed rail on AMTRAK's NE Corridor. One of the priority projects in AMTRAKS NE corridor Plan.

8. Pricing Initiatives – MDOT

- 0.41 MMtCO₂e Reductions as Initially Designed, 2.30 MMtCO₂e Reductions with Enhancements
- I-95 EXPRESS TOLL LANES: I-895-MD 43: Two toll lanes in each direction.
- ICC - Intercounty Connector: I-270 to US 1: Open from I-270 to I-95, Construction underway from I-95 to US 1. COST: 2.4 billion.

9. Corporate Average Fuel Economy (CAFE) Standards – MDOT

- 2.27 MMtCO₂e Reductions as Initially Designed, 2.27 MMtCO₂e Reductions with Enhancements
- In 2007 Federal Energy Independence and Security Act increased fuel economy standard. Goal is to increase National fuel economy standard to 35 mpg by 2020.
 - i. NOTE: These standards were updated to 54.5 MPG by 2025 in 2010.
 - ii. NOTE: Federal program that MDOT supported

10. Managing Forests to Capture Carbon – DNR

- 1.80 MMtCO₂e Reductions as Initially Designed, 1.80 MMtCO₂e Reductions with Enhancements
- DNR is promoting sustainable forestry management practices on public and private lands. Since 2006, 81,860 acres of forest stand improvements accomplished and 160,495 acres private forest management plans. 211,000 acres have been certified with Dual Third Party Certification for Forest Sustainability.

