



MARYLAND
Office of County Executive

STEUART PITTMAN

MEMORANDUM

TO: Christine Romans, Director of Central Services

FROM: Steuart Pittman, County Executive 

SUBJECT: Transitioning Anne Arundel County's Vehicle Fleet to Hybrid and Electric Vehicles

DATE: July 28, 2020

In its 2018 report, the Intergovernmental Panel on Climate Change (IPCC) recommended complete electrification of the transportation sector as a key mitigation technique to reduce greenhouse gas emissions and keep global warming below 1.5 degrees C. However, the IPCC also acknowledged that replacing internal combustion engine vehicles (ICEs) even incrementally with higher performing vehicles over the short and medium term would result in substantial greenhouse gas reductions.¹

According to the Maryland Department of the Environment's 2017 Greenhouse Gas Emissions Inventory², on-road vehicles account for 36% of all carbon dioxide emissions across the State. Anne Arundel County owns and maintains over 1,600 vehicles – all of which are ICEs that burn gasoline or diesel fuel. As of the date of this memorandum, the County owns no hybrid electric vehicles (HEVs), plug-in electric hybrid vehicles (PHEVs) or battery-electric vehicles (BEVs). It is imperative that Anne Arundel County lead by example and begin to transition vehicle purchases away from ICEs toward lower emission vehicles, where operationally and financially feasible.

Fleet procurement and maintenance is complex and requires careful consideration of environmental goals, fiscal constraints, departmental needs, maintenance, infrastructure and available vehicle technology. Thus, the policies prescribed in this memo are necessarily aggressive and flexible.

¹ IPCC, 2018. *The International Governmental Panel on Climate Change: Special Report on Global Warming of 1.5 Degrees Celsius*. Found in Chapter 2 and available at: https://report.ipcc.ch/sr15/pdf/sr15_chapter2.pdf

² MDE, 2019. *State of Maryland 2017 Greenhouse Gas Emission Inventory Documentation*. Report available at: <https://mde.maryland.gov/programs/Air/ClimateChange/Documents/MD%202017%20Periodic%20GHG%20Emissions%20Inventory%20Documentation.pdf>.

To ensure a successful and feasible transition to higher performing vehicles where feasible, the Office of Central Services will:

- 1) Request supplemental funding for the fiscal year 2022 operating budget for an in-depth study of long-term infrastructure, charging and maintenance needs as well as for any immediate, in-house maintenance staff, training, equipment or contracted resources necessary to begin the transition;
- 2) Begin replacing existing ICEs by procuring HEVs, PHEVs or BEVs where procurement of such vehicles is financially, operationally and technologically feasible;
- 3) By fiscal year 2032, transition all procurement of new, non-emergency cars, sedans, crossovers and sport utility vehicles to 100 percent BEVs unless procurement of such vehicles would be infeasible due to financial, operational or technological constraints;
- 4) By fiscal year 2037, transition all procurement of new, emergency cars, sedans, crossovers and sport utility vehicles to 100 percent BEVs unless procurement of such vehicles would be infeasible due to financial, operational or technological constraints;
- 5) Annually track and report to the County Executive the following fleet efficiency metrics for each vehicle category:
 - a. Total number of ICEs, HEVs, PHEVs and BEVs owned or leased;
 - b. Total number of ICEs, HEVs, PHEVs and BEVs procured and delivered during the previous fiscal year;
 - c. Total gallons of gasoline and diesel consumed;
 - d. Total cost of gasoline and diesel consumed during the previous fiscal year;
 - e. Total kilowatt hours consumed for vehicle charging during the previous fiscal year;
 - f. Total cost of electricity consumed for vehicle charging during the previous fiscal year;
 - g. Average, monitored fuel efficiency in MPGe for all vehicles during the previous fiscal year;
 - h. Average, manufacturer advertised fuel efficiency in MPGe for only vehicles procured and delivered during the previous fiscal year; and
 - i. Total cost of maintenance and repair costs by vehicle type;
- 6) Aggressively pursue grant opportunities to cover procurement of HEVs, PHEVs and BEVs, and associated needs such as infrastructure, training resources and equipment;
- 7) Convene an interagency workgroup that will meet periodically to:
 - a. share user experiences;
 - b. discuss challenges and design solutions to achieve fleet conversion goals;
 - c. review budget, infrastructure, maintenance, training and operational needs; and
 - d. formulate plans to increase fuel efficiency and maintain operational needs of departments that rely on pickup trucks, heavy-duty trucks, minivans, full-sized vans, minibuses and other heavy vehicles both owned and maintained by Central Services and those that are known as “direct charge vehicles”;
- 8) Remind all departments that “idling,” or leaving the vehicle’s engine running while parked is against County Vehicle Policy except in extreme heat or cold where cabin temperatures must be maintained for safety purposes; and

- 9) As necessary, make annual recommendations to the County Executive for revisions to all policies stated herein given an assessment of current financial, operational and technological constraints.

Combined, these policies will enable Anne Arundel County to immediately reduce greenhouse gas emissions while responsibly transitioning its fleet to electric vehicles over the next two decades. Thank you for your continued efforts making Anne Arundel County “The Best Place.”

cc:

Greg Africa, Director of Department of Inspections and Permits
Chief Tim Altomare, Police Department
Rick Anthony, Director of Recreation and Parks
Skip Auld, Director of Libraries
Jim Beauchamp, Budget Director
Kai Boggess-de Bruin, Chief of Staff
Preeti Emrick, Director of Office of Emergency Management
Sheriff Jim Fredericks, Sheriff’s Office
Karrisa Gouin, Director of Department of Aging and Disabilities
Matt Johnston, Environmental Policy Director
Pam Jordan, Deputy Chief Administrative Officer of Health and Human Services
Nilesh Kalyanaraman, Health Officer
State’s Attorney Anne Colt Leitess, Office of the State’s Attorney
Bill Martin, Director of Department of Detention Facilities
Rick Napolitano, Director of Office of Information Technology
Chris Phipps, Director of Department of Public Works
Matt Power, Chief Administrative Officer
Ramond Robinson, Transportation Officer
Chris Trumbauer, Director of Policy and Communications
Carnitra White, Director of Department of Social Services
Chief Trisha Wolford, Fire Department
Steve Kaii-Ziegler, Planning and Zoning Officer