



February 16, 2021

Testimony in SUPPORT of House Bill 832: Public Utilities - Electric School Bus Pilot Program

House Economic Matters Committee

Dear Chairman Davis and Members of the Committee:

The following 22 undersigned groups strongly support HB832 and urge a favorable report. HB832 creates an Electric School Bus Pilot Program implemented and paid for by Maryland’s investor-owned utilities. School systems in each utility service area will be eligible to purchase zero-emission electric buses rather than diesel ones at no additional cost to the system. While the utility will cover the “incremental cost” and provide the charging infrastructure, savings from operating and maintaining the buses may be retained by the school system. Each investor-owned utility that implements the program will purchase a minimum of 25 electric buses and can spend up to \$50 million during the pilot program, which will run 3-5 years. The utility, in consultation with participating school systems, will provide annual reports on the costs and benefits of the program to the General Assembly, the Governor and the Public Service Commission.

Every day over 650,000 children in Maryland ride to school on one of the State’s approximately 7,200 diesel school buses. Every year, school buses in Maryland travel more than 128 million miles. Studies have shown that diesel pollutants concentrate inside a bus cabin, increasing children’s exposure. A child riding inside of a diesel school bus may be

exposed to as much as four times the level of toxic diesel exhaust as someone riding in a car. Diesel emissions are filled with carcinogens, particulate matter and soot that increases lifetime risk of cancer, incidents of asthma and heart disease. These effects are even more dangerous to children, whose lungs, heart, and other organs are still developing.

In Maryland, approximately one in ten children suffer from asthma, and this rate is higher among minority groups. Asthma is a leading chronic illness among children in the United States, and it is also one of the leading causes of school absenteeism. In Maryland, 19.2 percent of parents reported that their child missed 1-2 days of school because of asthma and 9.7 percent said their child missed over seven days due to asthma. Children riding in zero-emission buses experience reduced exposure to air pollution, less pulmonary inflammation, more rapid lung growth over time and lower absenteeism compared to children riding in diesel buses, particularly those with asthma.

Diesel school buses harm the environment in a number of ways. They are a major source of greenhouse gas emissions, each bus emitting about 27 tons of CO₂ per year—6 times as much as an average car. Nitrogen oxide, a major constituent of diesel exhaust, contributes to acid rain, ozone formation and smog.

In the past, the high upfront cost of purchasing electric buses put them out of reach for many school systems. But costs have come down, and recent innovations, such as vehicle-to-grid (V2G) technology, coupled with the lower costs of operating and maintaining electric buses, have made them financially attractive for schools. One estimate puts the cost of operating electric school buses at about 19 cents per mile, compared to the 82 cents per mile cost of diesel buses.

V2G technology uses bus batteries to provide electricity to the grid when it is needed to stabilize imbalances and meet peak demands. School buses are ideally suited for this function, as they are equipped with very large batteries and only operate for small parts of the day. In the summer, when electricity demand is at its highest, most school buses do not operate at all. School bus routes are typically less than 40 miles, whereas today's electric school buses can travel 120 miles or more on a single charge, which for some buses can be accomplished in only three hours.

Electric school buses are already being deployed in Maryland. Montgomery County, Frederick County, Howard County and Prince George's County already own, or plan to own, and operate electric school buses. In Howard County, BGE utility is furnishing the charging equipment and installation.

HB832 provides the opportunity to expand the benefits of electric school buses to every school system in Maryland within the territory of an investor-owned utility. The program ensures there are no capital, administrative or operational costs to the school system. Rather, in addition to the substantial health benefits of the buses, each participating school system can

expect to see estimated cost savings of thousands of dollars per year per bus, dollars that can go to educational programs, teachers' salaries, and assistance to needy students.

HB832 is a no-lose proposition that would provide substantial health and educational benefits to Maryland's students and improve the environment for all of Maryland's citizens.

The undersigned groups urge a favorable report on HB832.

Annapolis Green

Elvia Thompson
President

Catonsville Indivisibles

Jacqueline Seiple
Lead Organizer

Cedar Lane Environmental Justice

Ministry
Lee McNair
Co-Leader

**Chesapeake Physicians for Social
Responsibility**

Gwen DuBois MD, MPH
President

Climate Law & Policy Project

Donald M. Goldberg
Executive Director

Climate Reality

Romulo E. Huezo
Activist

Climate Reality Montgomery County

Frances Stewart
Chapter Chair

DoTheMostGood

Olivia Bartlett
Co-Lead, Maryland Team

**Environmental Justice Ministry Cedar
Lane Unitarian Universalist Church**

Nanci Wilkinson
Co-Chair

Green For All

Shannon Baker-Branstetter
Deputy Director of Policy

Greenbelt Climate Action Network

Lore Rosenthal
Program Coordinator

Indivisible Central Maryland

Liz Enagonio
Program Coordinator

JLM Environmental Consulting

Jennifer L. Macedonia
Principal

Labor Network for Sustainability (LNS)

Elizabeth Bunn
Maryland State Director

Maryland Conservation Council

Paulette Hammond
President

**Maryland League of Conservation
Voters**

Ramon Palencia-Calvo
Deputy Executive Director

Maryland Legislative Coalition

Cecilia Ann Plante
Co-Chair

Maryland Sierra Club

Josh Tulkin
Director

MLC Climate Justice Wing

Diana Younts

Co-Chair

Transit Choices

Robin Budish

Director

**Unitarian Universalist Legislative
Ministry of Maryland**

Phil Webster

Chair, Climate Change Task Force

WISE

Monica O'Connor

Legislative Liaison