



March 16, 2022

HB 829 Department of the Environment – Zero-Emission Medium and Heavy Duty Vehicles – Regulations (Zero-Emission Truck Act of 2022)

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The passage of HB 829 will be an important component for meeting the 2045 net-zero greenhouse gas emissions requirement of HB 708. Maryland's transportation sector is responsible for 30.4 million metric tons of greenhouse gas emissions annually. In addition, this bill would provide important co-benefits of reducing air pollutants, such as nitrogen oxide, which are projected to contribute approximately \$2 billion in monetized health impacts in Maryland in 2023.

Legislation is needed to serve as a demand signal for manufacturers to have confidence in the investment decisions to build the necessary zero-emission vehicle recharging or refueling infrastructure for both battery electric vehicles (BEVs) and hydrogen fuel cell electric vehicles (FCEVs), respectively. Without the legislation signaling to manufacturers that the transition to zero-emission vehicles is happening on a given timeframe, the transition to zero-emission vehicles, and therefore a reduction in greenhouse gas emissions and associated co-pollutants, will take substantially longer and would suffer from less regulatory certainty.

The first movers will likely take advantage of the more established battery electrification technology currently proven in light duty vehicles and related charging infrastructure. Zero emission trucks of this type, due to the range afforded by the battery, will tend towards return-to-base operations for overnight charging. Leveraging this technological synergy will speed up development of the infrastructure while reducing the scope of initial infrastructure deployments.

Please reach out to Angela Seligman (email: aseligman@catf.us, cell: 314.922.5293) with any questions.

CATF is a global nonprofit organization working to safeguard against the worst impacts of climate change by catalyzing the rapid development and deployment of low-carbon energy and other climate-protecting technologies. With 25 years of internationally recognized expertise on climate policy and a fierce commitment to exploring all potential solutions, CATF is a pragmatic, non-ideological advocacy group with the bold ideas needed to address climate change. CATF has offices in Boston, Washington D.C., and Brussels, with staff working virtually around the world.