PUBLIC COMMENTS AND QUESTIONS RELATED TO DVRPC BOARD ACTION ITEMS

April 25, 2019

Agenda Item:

2a. Transportation Improvement Program (TIP) Action NJ18-065: Bus Acquisition Program (DB #T111), NJ TRANSIT

From: Bridget Chadwick County: N/A Zip Code: N/A Date Received: 4/24/2019

s://afdc energy gov/vehicles/electric emissions html

Comment/Question: Kudos to NJ TRANSIT for their purchase of 8 Proterra Catalyst electric buses. The TIP Action Item describes the environmental benefits as: "These buses will provide best in class fuel efficiency and will produce no local emissions. This will reduce ground level emissions of nitrogen oxides, hydrocarbons and particulates". They will, of course, reduce GHG emissions significantly. The Department of Energy's Alternative Fuel Data Center (AFDC) calculate that an electric vehicle charged with in-state electricity produces 78% less GHG emissions than a gasoline vehicle (EV: 2536 lbs. of CO2e vs the gas vehicle: 11,435 lbs of CO2e). The GHG emission reduction will be about the same between an electric bus and a diesel-powered bus.

Electricity Basics	Emissions from Hybrid and Plug-In Electric Vehicles
Benefits & Considerations	Hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and all-electric vehicles (EVs) typically produce lower tailpipe emissions than conventional vehicles do. When measuring <u>well-to-wheel</u> emissions, the electricity source is important: for PHEVs and EVs, or all of the power provided by the battery comes from off-board sources of electricity. There are emissions associated with the majority of electricity production in the United States.
Stations	
Vehicles	
Availability	Electricity Sources and Emissions
Conversions	EVs and PHEVs running only on electricity have zero tailpipe emissions, but emissions may be produced by the source of electrical power, suc
Emissions	as a power plant. In geographic areas that use relatively low-polluting energy sources for electricity generation, PHEVs and EVs typically have well-to-wheel emissions advantage over similar conventional vehicles running on gasoline or diesel. In regions that depend heavily on conventional fossil fuels for electricity generation, PEVs may not demonstrate a well-to-wheel emissions benefit.
Batteries	
Maintenance & Safety	
	of your electric vehicle.
	State Averages for New Jersey

Response: Thank you for your comment. Your original comment was forwarded to the DVRPC Board, DVRPC Office of Capital Programs, and NJTransit.

Your support and continued involvement in the region's development is appreciated.