

TLU-[Diesel Retrofits Option #9b]

Mitigation Option Description

Reduce children's exposure to diesel emissions by retrofitting school buses in North Carolina with diesel oxidation catalyst (DOC), and diesel particulate filter (DPF) pollution control devices.

Mitigation Option Design

- **Goals: Retrofit NC school buses with pollution control devices.**
- **Coverage of parties: NC school buses.**
- **Other:** [Insert text if/as appropriate]

Implementation Mechanisms

- **Utilize various funding mechanisms to retrofit school buses that are not equipped with 2007 standard pollution control devices.**
- **Raise awareness about benefits of retrofitting "legacy" fleet with an "Adopt a School Bus" campaign**

Related Policies/Programs in Place

Currently in North Carolina there is an ongoing effort to retrofit school buses across the State with diesel pollution control devices. An estimated 15% of the school buses in the State are already equipped with some type of pollution control device. Sources of funding include Federal and State grants, local funding and gifts from private industry. The primary purpose of diesel pollution control devices is to reduce particulate matter.

Types(s) of GHG Reductions

[Insert text as appropriate]

Estimated GHG Savings and Costs per MTCO₂e

[Insert text as appropriate]

- **Data Sources:**
- **Quantification Methods:**
- **Key Assumptions:**

Key Uncertainties

A pilot Adopt a School Bus project whereby NC DOT, DPI and other state agencies fund the retrofit of school buses in each of the 24 counties that do not meet national air quality standards is under development. This project could be expanded to include many more of the 13,000

existing buses from across the state with additional funding provided by private donations, federal CMAQ funds/and or additional funds appropriated by the State. Endorsement of this current effort by the CAPAG would facilitate more widespread awareness of the link between carbon emissions and climate change concerns. TWG members Nina Szlosberg and Anne Tazewell are currently meeting NC DOT, DPI and DENR to launch the Adopt a School Bus initiative.

Additional Benefits and Costs

DOCs – 20% PM , HC , CO reduction cost < \$1,000 installed

DPFs – 85-90% PM , HC, CO reduction costs \$5,000-\$7500 installed

Feasibility Issues

[Insert text as appropriate]

Status of Group Approval

[Pending or Completed]

Level of Group Support

[Insert text as appropriate]

Barriers to Consensus

[Insert text as appropriate]