Abstract:

# Improved Mobile Air Conditioning Systems:

# Part of the Solution to Climate Change

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This presentation will consist of three elements with the primary objective of: 1) demonstrating that mobile air conditioning systems (MACS) are important contributors to climate change emissions; and 2) demonstrating that technologically feasible, cost-effective options for reducing climate change emissions from MACS are available.

The first element of the presentation will provide the context for the Air Resources Board's (ARB) work on evaluating climate change emissions from MACS. Specifically, the presentation will discuss the action by the California State Legislature that directed the ARB to establish greenhouse gas emission standards for passenger vehicles.

The second element of the presentation will focus on the ARB's work to characterize climate change emissions from MACS to support the regulation. The key point is that cost-effective improvements to MACS can have a significant contribution toward complying with California's motor vehicle greenhouse gas standards.

The final element of the presentation will discuss the global significance of improvements to MACS in light of the rapid growth in vehicle demand, essentially all which are equipped with MACS. The presentation concludes by touching on other opportunities (e.g., end of vehicle life recovery of HFCs) for further HFC reductions that some countries have already employed.