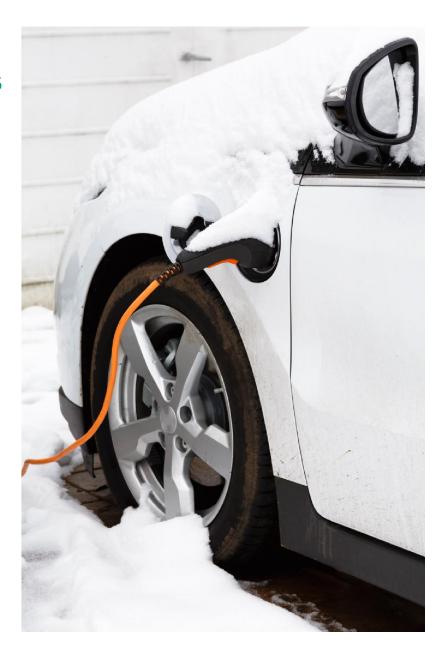


INTRODUCTION

Electric vehicles are marketed as enablers of "green" behavior.

But how much do electric vehicles actually improve environmental outcomes?

This paper focuses on fuelrelated carbon emissions from EVs vs. traditional light-duty allgas vehicles.



WHAT DIFFERENTIATES OUR PAPER

Analyses are anchored in empirical data, rather than simulations.

Robust methodology for determining fuel-related emissions associated with our sample's EVs at hourly, monthly, seasonal, and annual intervals.



FINDINGS

Based on our two scenarios – more conservative and less conservative – EVs in our sample avoided <u>54% to 77%</u> of fuel-related emissions relative to gasoline-fueled light-duty vehicles.

The full range of our results was 28% to 89%, which corresponds to fuel-related emissions reductions of 1,759 to 9,152 lbs CO₂/year per EV.



