

Review of: "Optimizing Energy Efficiency for Connected and Autonomous Electric Vehicles in the Context of Vehicle-Traffic Interaction"

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Potential competing interests: No potential competing interests to declare.

The paper introduce an energy-conscious optimization (ECO) strategy designed to improve the energy efficiency of CAEVs. In the quest for optimal energy efficiency allowing for powertrain limitations, the authors establish a novel velocity-torque coordinate system.

After reading the paper, I have some advice:

1. Since the efficiency of the power involves the torque and speed of output power and the voltage and current of input power, the decrease of torque as shown in figure 2 cannot extract the conclusion directly, the authors should show more data.
2. The premise of vehicle energy saving optimization should be safety, such as not to roll, skid, etc. It is suggested that the author give more vehicle data to explain the impact of the implementation of the proposed strategy on safety.