

Abstract Submitted  
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**Generation of Electricity from the Wind Draft of Cars** HARISH PUDUKODU, North Carolina School of Science and Mathematics, Durham, NC — We developed a theoretical turbine power output model dependent on automobile speed and turbine distance from cars. Analysis of the data from experimental field tests with rush hour traffic, controlled single-car testing, and CFD modeling showed that our turbines generated electricity, but did not support our theoretical model, which assumed laminar flow and spherical cars. Our study represents a creative implementation of wind power that may have significant economic/environmental implications for the future of renewable energy.

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