

The Factors Influencing the Joint Adoption of Electric Vehicle and Solar Photovoltaics:

Evidence from California

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Abstract

Environmentally friendly choices can make more impact when these are taken in combination. Take, for example, adopting electric vehicles (EV) and solar photovoltaics (PV). Previous studies suggest that although EVs emit fewer pollutants than conventional vehicles, they increase energy consumption and that usually comes with more environmental damage. Installing solar PV can be a solution by producing energy at the same time reducing our carbon footprints. In this study, I analyzed the factors that influence the joint adoption of EV and solar PV. This study finds that income level and household type have significant impacts on making these choices. Moreover, while considering the future decision of this joint adoption, this study finds that higher education level has a significant positive impact also.

Keywords: Electric Vehicle, Solar Photovoltaics, Joint Adoption of Green Choices

JEL category: Q42, Q55