

PPA05

Rooftop Solar Justice: A Systematic Review

Hui Li, Rui Sun, Qiyuan Jin

California State University Dominguez Hills, Carson, California, USA

Abstract

In the United States, the rooftop solar industry has experienced an average annual growth rate of 50% per year since 2012. Reasons for this fast growth include the decreasing costs, increasing availability of new technologies, and the significant role played by the government. However, the degree to which disadvantaged communities and individuals have been able to benefit from sustainable energy transition remains far from equitable. The purpose of this study is to present existing studies on rooftop solar adoption disparities in the U.S., synthesize solar adoption barriers identified in the literature, and review existing and emerging policy interventions targeted at addressing these barriers. Using structural topic modeling, we have a systematic review of 275 articles and identify the key research themes in solar adoptions and the research trends from the 275 studies. Future research directions and effective policy interventions are also identified from our analysis.

Conference Track

Public Policy and Public Administration