

Economic Vulnerability in the Energy Transition: A Geographical Perspective

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Even though the need for a spatially just transition has received increasing attention, little information is known about the detailed geographical distribution of the GDP, employment and wage effect (SDG 8) of the electricity transition required for achieving the Net-Zero goal (SDG 13). This paper provides a novel framework to identify the most vulnerable regions for electricity transition by coupling the state-level GCAM-USA model and the county-level IMPLAN model. Our analysis can guide where the policy interventions should be targeted for achieving a spatially just transition. Moreover, the analytical framework developed in this paper can also be applied to other social goals, such as health (SDG 3), inequality (SDG 11), and poverty (SDG 1).