

Energy security and public support for renewable energy: Evidence from the UK

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Extended Abstract

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Abstract Summary

We investigate how different facets of energy security, e.g., energy vulnerability (domestic energy supply, import dependency, technology development on energy sources), energy affordability (higher prices) and energy reliability (power cuts frequency) impact the support for different sources of renewable energy — offshore and onshore wind power, biomass energy and solar power. Our results show that there is a common pattern for energy vulnerability since as concerns decline, the probability of support for each renewable source also declines, but the rate of decline is larger for biomass and onshore wind. Energy imports dependency and affordability reveal a distinction between the wind power sources and the other sources since both offshore and onshore wind power are affected less by energy imports concerns or affordability concerns. Energy reliability is the only facet that leads to a rise in the probability of support for offshore wind. The above results are critical for policy appraisal purposes to inform policymakers on the differences between energy security facets and renewable energy sources when designing future energy policies towards net zero strategies.

Presenting Author Biography

I am member of staff of the Department of Economics at the University of Warwick. I am teaching a module in environmental economics, and I have an interest on energy economics and energy security is a topic which interest me the most.

My research interests lie on the fields of environmental economics (mostly on energy related issues) and behavioural economics (mostly on risk attitudes, time preferences and artificial intelligence applications).

I have also an interest on management-related topics and more recently I have developed an interest on the economics of education (pedagogy) with a focus on small group setting.

