

**EXPLORING LOCAL ENERGY BURDEN IN PRE- AND POST-MARÍA PUERTO RICO:  
IDENTIFICATION OF POTENTIAL ENERGY EFFICIENCY AND RENEWABLE ENERGY AREAS FOR  
INCREASED SOCIO-ECONOMIC RESILIENCE IN THE ENERGY TRANSITION.**

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Puerto Rico's energy system has experienced various disruptions in the past years, from decreasing population and revenues, to increased infrastructure vulnerability through the passage of hurricanes Irma and María in 2017. Part of the root cause to this precarious situation is due to the ongoing fiscal and economic crisis triggered on 2006. Although energy transitions mostly focuses on the change between energy portfolios (from fossil fuel mixes to renewables), little to no work has been done exploring the socio-economic implications of these forces at play. The paper attempts to address this gap by exploring the spatial distribution of energy burden in the Puerto Rican archipelago, identifying socio-economically vulnerable energy geographies and their possible change by contrasting of pre- and post-María contexts. The paper's results aims to better inform policy-makers, nonprofits and researchers on geographies suitable for further exploration on energy efficiency and renewables deployment, and to examine other climate related-risks such as extreme heat and flooding.