Urban Heat Inequity: Examining Heat Island Effects in Marginalized Areas of Cleveland and Brno

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Abstract

Climate change has disproportionately impacted marginalized communities, worsening the effects of urban heat islands due to limited green spaces. This project will examine the relationship between land-use patterns, rising urban temperatures, and historical marginalization by analyzing urban heat island effects in Cleveland, Ohio, and Brno, Czech Republic. By comparing development models, we identified differences in climate resilience and equitable urban planning. Based on our findings, we proposed policy recommendations to implement more green spaces and prioritize sustainable urban design to mitigate the impacts of extreme heat.