

## **Green infrastructure in tourism destinations to mitigate climate change effects: A Global Perspective**

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### **Abstract**

With the increasing attention on climate change, solid wastes, over-tourism, and improved environmental awareness worldwide governmental agencies at different levels should prepare appropriate policies to facilitate necessary actions to preserve their natural resources, protect their environment, and support sustainable tourism. While climate change is a global issue felt on a local scale, local governments are at the frontline of adaptation. Cities and local communities around the world have been focusing on solving their climate problems and hence working to build flood defenses, plan for heat waves and higher temperatures, install better-draining pavements to deal with floods and stormwater, and improve water storage and use. The environmental, economic, and social impacts of climate change are accelerating worldwide, resulting in ever-increasing severe adverse effects on ecosystems. Current research indicates that climate change increases air and surface temperature and intensifies rainfall events in both magnitude and duration. This study is aimed to conceptually engineer how climate variability is deteriorating the sustainability of diverse sectors worldwide. Specifically, the agricultural sector's vulnerability is a globally concerning scenario, as sufficient production and food supplies are threatened due to irreversible weather fluctuations. It is challenging to the global feeding patterns, particularly in countries with agriculture and tourism as an integral part of their economy and total productivity. The need to expand and improve green infrastructure, in particular in more vulnerable regions is required. Climate change has put the integrity and survival of many species at stake due to shifts in optimum temperature ranges, thereby accelerating biodiversity loss by progressively changing the ecosystem structure. According to the findings, government involvement is necessary for the country's long-term development through strict accountability of resources and regulations implemented in the past to generate cutting-edge climate policy. An agreement to revive the global tourism sector would be necessary for reinforcing capital investments in pertinent green infrastructures. Therefore, mitigating the impacts of climate change must be of the utmost importance and hence this global threat requires global commitment to address its dreadful implications to ensure global sustenance.

*Keywords: Green infrastructure, climate change, tourism, environment, agricultural, economy*