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Evaluation of Adaptation and Mitigation Works in Urban Areas to Climate Change Considering Spatial Planning and Design Principles

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ABSTRACT: Urban areas are among those impacted mostly by climate change. Such surfaces as those in cities are also accepted to be among the causes of cover heating and climate change in turn. Climatic characteristics of urban areas are very different from their counterparts in rural. Rural is cooler, windier and totally more comfortable from bioclimatic way. In order to consider the impacts of climate change on cities, there are two approaches as in other topics of anthropogenic activities; mitigation and adaptation. From this point of view, in urban areas several studies have been conducted on the adaptation of urban areas to the present and prospected changes in climatic elements like greening, green infrastructure etc. To another aspect of the topics, mitigation is also vitally important for the cities. Mitigation means much to cities beginning from the reduction of the amount of wastes and pollutants in urban environment extending to the carbon neutral or negative cities. It was aimed in the present study to search for the some of the successful applications of climate adaptation and mitigation works for the last 10 years all over the world in urban areas using best practice planning and design methods.

KEYWORDS: Climate change; Urban areas; Adaptation, mitigation