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Safety and Environnemental impact of Replacing Traffic Signal by U-Turn- Case Study of Khanapul Islamabad Expressway

This paper analyzed the widely-used access management treatment in Rawalpindi/Islamabad, Pakistan: using U-turn instead of traffic signal or direct right turn. Data was collected from a very congested traffic signal at Khanapul traffic signal, Islamabad Expressway. The traffic signal was recently closed and traffic was diverted to U-turns placed at downstream. No of accident and their severity as well as VOC, CO, NOx, Fuel consumption etc were computed for both scenarios. It was found that the provision of downstream U-turn was very effective in reducing conflict zones and reducing accidents as well as reducing emissions for environmental preservation.

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