SMART TRANSPORTATION SYSTEMS TO ENABLE NET-ZERO IN ROAD TRANSPORTATION

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ABSTRACT: Transport sector has the highest reliance on fossil fuels of any sector and accounts for more than one third of the global carbon emissions from end-use sectors. Transport-related energy consumption and associated carbon emissions have been snowballed in megacities as a consequence of traffic congestion stemming from high urbanisation rates and population growth. With increasing electric vehicle adoption rates, smart transportation systems can help to reduce congestion levels and ultimately eliminate carbon impacts. Smart transportation systems utilize a variety of technologies to monitor, evaluate, and manage transportation systems to enhance efficiency and safety. This presentation will mainly focus on the role of smart transportation systems on reducing energy consumption and carbon emissions. A detailed discussion emerging technology and how they facilitate energy reduction will be discussed. Moreover, recent advances on electric vehicles and the role of charging stations on net zero targets will be presented. In the last part of the talk, region-specific challenges for the GCC region will be discussed.

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