Energy policies for low carbon sustainable transport in Asia - DTU Orbit (11/01/2019)

**Energy policies for low carbon sustainable transport in Asia**

Transformation of Asia's transport sector has vital implications for climate change, sustainable development and energy indicators. Papers in this special issue show how transport transitions in Asia may play out in different socio-economic and policy scenarios, including a low carbon scenario equivalent to 2 °C stabilization. Accounting for heterogeneity of national transport systems, these papers use diverse methods, frameworks and models to assess the response of the transport system to environmental policy, such as a carbon tax, as well as to a cluster of policies aimed at diverse development indicators. The analysis shows that CO2 mitigation in a transport system is achieved more effectively by aligning mitigation policies with sustainable development policies and measures such as mandates for mode share and choices such as urban design, information and communication systems, and behavioral measures. Authors therefore advocate policies that target multiple dividends vis-à-vis carbon mitigation, energy security and local air quality. Whereas four papers focus on emissions mitigation policies, one paper examines challenges to adapt fast growing transport infrastructures to future climate change induced risks. Collectively, the papers exemplify a set of policies and measures that can deliver co-benefits, and, also, demonstrate the use of methods, frameworks and models to delineate the optimal mix of such policies and measures.

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