

Urban Development and Transportation Energy Demand in Asia – Policy Implications for Sustainable Development

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This paper analyses historical trend of transportation energy demand in some selected major cities in Asia and evaluates its impact on environment. The paper also identifies key factors affecting transportation energy demand in major cities of Asia, and examines how urban development and energy demand for transportation sector have been correlated. As the options for energy demand management, the paper analyses (1) policy instruments such as land use regulations, infrastructure design and investment and (2) economic instruments such as energy pricing, taxation and road pricing at the urban level in both developed and developing economies. Finally the paper provides projections for future transportation energy demand (up to 2020 and beyond) for some selected cities in Asia to draw policy implications for sustainable development of Asian economies.

Keywords:

transport, Asia, urban development, sustainable development