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Fevriera, S.

2020

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Fevriera, S. (2020). *On the Environmental Challenges of Economic Development in Indonesia*.

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On the Environmental Challenges of Economic Development in Indonesia



This dissertation studies the challenges faced by developing countries to fulfill the energy demand needed for their development and at the same time to reduce the dependence on energy generated from brown resources and replace it with energy generated from green ones to decrease greenhouse gases that contribute to global warming. The central questions addressed in this dissertation are as follows: What is the shape of the income-emission relationship? How do cultural factors affect the energy consumption and thus the emissions? Does the population size hamper the development of the electricity generated from green resources? Does urbanization influence residential energy use? Do population density and urban form affect transport mode preferences? The study on the income-emission relationship is a meta-analysis of existing studies, while the impact of cultural factors is studied using data from some emerging countries in Asia. The other studies are based on data from Indonesia.

Sotya Fevriera was born on February 19, 1974, in Salatiga (Central Java, Indonesia). She studied Statistics at Gadjah Mada University in Yogyakarta (Central Java, Indonesia), and Development Studies at the Bandung Institute of Technology (West Java, Indonesia). She started her work on this dissertation at the Vrije Universiteit Amsterdam (the Netherlands) in 2012. She is currently a lecturer at Economics Department, Faculty of Economics and Business, Satya Wacana Christian University in Salatiga (Central Java, Indonesia).