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A comparative analysis of renewable electricity support mechanisms for Southeast Asia

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Abstract

This study evaluates the applicability of eight renewable electricity policy mechanisms for Southeast Asian electricity markets. It begins by describing the methodology behind 90 research interviews of stakeholders in the electricity industry. It then outlines four justifications given by respondents for government intervention to support renewables in Southeast Asia: unpriced negative externalities, counteracting subsidies for conventional energy sources, the public goods aspect of renewable energy, and the presence of non-technical barriers. The article develops an analytical framework to evaluate renewable portfolio standards, green power programs, public research and development expenditures, systems benefits charges, investment tax credits, production tax credits, tendering, and feed-in tariffs in Southeast Asia. It assesses each of these mechanisms according to the criteria of efficacy, cost effectiveness, dynamic

efficiency, equity, and fiscal responsibility. The study concludes that one mechanism, feed-in tariffs, is both the most preferred by respondents and the only one that meets all criteria.



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Keywords

Renewable energy; Renewable electricity; Southeast Asia

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