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# Financing Renewable Energy in Indonesia: A CGE Analysis of Feed-In Tariff Schemes

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## Abstract

This paper examines the impact of promoting clean (renewable) energy production through... (GHG) emissions... equilibrium... The Indonesian National... renewable... (i) the... and (ii) the... of both... These ne... hydro) g... house gas... general... technologies... 2014 on... rate for... implemented:... ty tax rate;... at the effects... gligible... al and... nesia's

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current FIT regulation is insufficient to boost the national clean energy production and therefore is ineffective to reduce the national emissions.

Tulisan ini menelaah dampak promosi kebijakan produksi energi bersih terbarukan (EBT) melalui skema pengenaan feed-in tariff (FIT) bagi perekonomian Indonesia dan bagi emisi gas rumah kaca. Untuk analisis numerik, penulis merancang model computable general equilibrium (CGE) hibrid yang secara eksplisit menggabungkan teknologi penciptaan listrik. Kebijakan FIT di Indonesia telah ditetapkan melalui Peraturan Pemerintah Nomor 79 Tahun 2014 mengenai Kebijakan Energi Nasional. Kami mengasumsikan pemerintah menetapkan subsidi 15% bagi penciptaan teknologi EBT. Kami menelaah dua kemungkinan skema pembiayaan: (1) FIT yang dibayarkan oleh konsumen listrik melalui tarif listrik endogen, dan (2) FIT yang dibiayai oleh penyesuaian pajak karbon. Hasil menunjukkan bahwa dampak dari kedua skenario FIT pada ekonomi makro dan emisi CO<sub>2</sub> sangat kecil. Dampak yang dapat diabaikan ini mengacu kepada rendahnya proporsi EBT (panas bumi dan air) pada produksi listrik total. Penulis menyimpulkan bahwa kebijakan FIT Indonesia saat ini tidak cukup untuk mendukung produksi energi bersih nasional dan oleh karenanya, tidak efektif untuk mengurangi jumlah emisi nasional.

Keywords: feed-in tariff renewable energy promotion greenhouse gas emissions carbon tax hybrid CGE model Indonesia

JEL classification: C68 D58 D63 Q21 Q26 Q28 Q41 Q43 Q48 Q56 Q58

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4. In Indonesia's official SAM in 2008, all types of energy fossil sectors (oil, coal, and natural gas mining) are pooled together with geothermal and metal ores in a single account — 'fossils and metal ores mining sector'. Refineries products are aggregated in a single account, namely 'chemical, fertiliser, clays, and cements products'. Electricity is pooled together with other utilities such as drinkable water and city gas products. We put forward the argument that the set comprising three energy sectors in the existing SAM will not be sufficiently applicable to calibrate the hybrid-CGE model for specific energy analysis in Indonesia.

5. We only present an example of import and tariff discrepancy of COMOIL\_C given in the existing SAM and compiled data. These discrepancies appear for all types of imported energy commodities.

6. For details, see Robinson et al. (2001).

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