

Announcement of a Master Thesis

(with remuneration / 6 months student research grant)

Call for Applications

Socio-economic Impacts of Decarbonizing the Indonesian Electricity Sector

Description

In order to reach global efforts to combat climate change, radical reductions in greenhouse gas emissions in the electricity sector are essential. In Indonesia, the electricity sector is characterized by a high share of fossil fuels (coal: 67%, gas: 17%, oil: 3%) whereas renewables covered only about 13% in 2020. Currently, the government pursues a net-zero pathway to increase the share of renewables up to 23% by 2030 and wants to achieve net-zero by 2060. In addition, the implementation of a carbon tax is under consideration to accelerate the transition of the Indonesian electricity sector.

Objective

The objective of this master thesis is to develop potential net-zero scenarios for the Indonesian electricity sector until 2060 together with researchers from Indonesia and analyze the macroeconomic effects of the sectoral transition. In addition, the impact of a carbon tax introduced in parallel with a switch to renewable energy will be investigated.

Method

Macroeconomic model simulations (intended: Computable General Equilibrium).

Qualification

- Enrolled in master's program in Economics, Environmental Systems Science, Sustainable Development, Global Studies, or a comparable study programme
- Knowledge in economic modelling (computable general equilibrium) of advantage
- Interest in net-zero transitions and environmental policy
- Fluency in English
- Solution-oriented, creative, independent and reliable way of working

We offer

- Master thesis with remuneration (student research grant for 6 months)
- Collaborative research with colleagues from Indonesia
- Thesis in English or German
- Start at your earliest convenience, duration 6 months

If you are interested, and have further questions, contact us at: karl.steininger@uni-graz.at or raphaela.maier@uni-graz.at

Application: Submit your interest (motivation letter, CV) by 15th of September 2022 to karl.steininger@uni-graz.at and raphaela.maier@uni-graz.at