

Modeling the European energy transition from a sector-coupled, system-wide perspective

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Extended Abstract

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Abstract Summary

To comply with the Paris Agreement, Europe needs to transition to a carbon neutral energy system. The transition pathway of each sector of the energy system highly depends on the development in the other sectors, necessitating to integrate the entire energy system in one model. This paper models possible scenarios using the sector coupled energy system model REMod. The results show transformation pathways for primary energy supply, conversion and distribution and final energy demand at state level in Europe.

Presenting Author Biography

Patrick Jürgens studied physics and political science in Freiburg, Germany and Trondheim, Norway. He does his PhD at Fraunhofer ISE in Freiburg on the European energy transition.