

Award: ESRC Centre for Climate Change Economics and Policy

Project: Rapid Climate Transitions (CCCEP Phase 2)

Project lead: Roger Fouquet

Contact: gri@lse.ac.uk

Overview of project aims

The scope for rapid transitions towards both decarbonised and climate-resilient economies needs to be better understood. Transitions like these may require preparation to maximise the probability of delivering results in a way that minimises structural disruption to the global economy and keeps transformative options open. This project is an economic and political-economic analysis of rapid climate transitions.

Overview of data

There are a number of papers in this project that used or generated new data – these are listed below. These empirical papers are descriptive or econometric studies focussing predominantly on energy transitions and energy service consumption over the long run, and use a host of historical data. The project lead has created a ‘data set’ tab on the Grantham Research Institute of Climate Change and the Environment for users to access the data directly.

<http://www.lse.ac.uk/GranthamInstitute/profile/roger-fouquet/>

Links to other projects

This project is related to a broader programme of work at the Grantham Research Institute on Climate Change and the Environment, LSE, under the *Growth & Innovation* programme.

CCCEP publications

Fouquet, R. (2014) ‘Long run demand for energy services: income and price elasticities over 200 years.’ *Review of Environmental Economics and Policy* 8(2) 186-207.

Fouquet, R. and S.N. Broadberry (2015) ‘Seven Centuries of European Economic Growth and Decline.’ *Journal of Economic Perspectives* 29(4) 227-44.

Fouquet, R. (2016) ‘Path Dependence in Energy Systems and Economic Development.’ *Nature Energy* 1 (16098).

Fouquet, R. (2016) ‘Lessons from Energy History for Climate Policy: Technological Change, Demand and Economic Development.’ *Energy Research & Social Science* 22 79-93.

Fouquet, R. (2016) ‘Historical Energy Transitions: Speed, Prices and System Transformation.’ *Energy Research & Social Science*.

van de Ven, D.J. and Fouquet, R. (2017) ‘Historical Energy Price Shocks and their Changing Effects on the Economy.’ *Energy Economics* 62 204-216.

Zenghelis, D., Fouquet, R., and Hippe, R. (2018) ‘Stranded Assets: then and now’ in Caldecott, B. (ed.) *Stranded Assets and the Environment: Risk, Resilience, and Opportunity*. Routledge. London.

Fouquet, R. (2018) ‘Consumer surplus from energy transitions.’ *The Energy Journal* 39(3) 167-88.

Fouquet, R. (2018) *The Economics of Renewable Energy*. Edward Elgar Publications. Cheltenham, UK, and Northampton, MA, USA.