



# Energy Expertise

## // Energy economics, regulation and policy

### Background

In order to achieve the future low carbon economy while balancing affordability, sustainability and supply security an array of new technologies and measures will be required. These efforts will need to be guided by purposeful energy economics.

The economics, policy and regulation of energy is an active area of expertise at Durham, sitting squarely within the multi-disciplinary DEI ethos of 'Science and Society'. We have worked on research projects with the industry, sector regulators, international organisations.

Our general research interests in energy economics include: energy sector reform; energy networks; incentive regulation, market design; efficiency and productivity analysis; energy policy; energy demand and public acceptance, energy technology economics and policy, transport, and energy issues in less developing countries.



### Main expertise areas

- The role of economics and policy in the long term sustainability of new energy solutions.
- Energy sector reform.
- Consumer empowerment in the local and regional energy market.
- Policy and ethics of energy.
- Community led energy solutions to local energy needs.
- Energy affordability and poverty.
- Regional/local energy and transport solutions.
- Security of energy infrastructures.
- Use of modelling to support energy and environmental policy development.
- Sustainable distributed energy generation.
- Sustainable energy use and consumer behaviour.
- Investment choices for renewable energy.



### Recent projects

- EPSRC National Centre for Energy Systems Integration CESI (Simon Hogg, Jon Gluyas, Simone Abram, Michael Goldstein, Tooraj Jamasb)
- Securing the European Electricity against malicious and accidental Threats (SESAME) - FP7 project (Prof. Tooraj Jamasb)
- Sustainable Grid Development (SusGrid) (Prof. Tooraj Jamasb)
- The Rising Powers, Clean Development and the Low Carbon Transition in Sub-Saharan Africa (Prof. Marcus Powers)
- EPSRC Sustainable Road Transport SFR (Prof. Tooraj Jamasb)
- Lessons learned from energy sector reform, economic efficiency, and poverty in developing countries (Prof. Tooraj Jamasb)
- Low Carbon Energy for Development Network (Dr. Ben Campbell)

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### Research contacts

**Prof Jamasb** is Chair in Energy Economics at Durham Business School and DEI co-Director. He has participated on research and consulting projects for the Council of European Energy Regulators, several European energy regulators, energy companies, Ofgem, Department of Energy and Climate Change, and The World Bank.

**Dr Manuel Llorca**, is an early career fellow at DEI. His interests include Energy and Transport Economics and in particular the analysis of efficiency and productivity in those sectors in which the generation, transport and consumption of energy are involved.

**Prof Marcus Powers** importance of geographical perspectives in formulating new and more critical theoretical understandings of 'development'.

**Dr Jun Jie Wu** Reader in Bioengineering in Engineering. Developing tech-economic models and energy footprints of microalgae biorefineries and Energy using pressure retarded osmosis technologies



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