



university of  
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EDGaR  
Energy Delta Gas Research

EDGaR's goal is to make out a case for the energy future of the Netherlands, with respect to a sustainable use of energy sources. It focuses on positioning the Dutch natural gas market in an international perspective, and, from this position, on achieving a sustainable energy supply. EDGaR is co-financed by the Northern Netherlands Provinces, the European Fund for Regional Development, the Ministry of Economic Affairs, Agriculture and Innovation and the Province of Groningen. The Groningen Centre of Energy Law participates in three EDGaR projects.

### **Interactions between Gas, Electricity and Carbon Markets**

This law and economic research project aims to find potential efficiency improvements in energy market policy and regulation. The analysis will be based on an integrated approach of property rights theory and transaction cost economics. Efficiency is operationalised as the alignment between legal rules and economic transactions. To that end, indicators will be developed to measure transaction characteristics and legal intrusion by regulatory agencies in the private sphere of energy market traders and network operators. For each of the three markets (emissions, electricity and gas), case studies will be conducted and panel data will be gathered and analysed for a set of EU Member States.

### **Changing Energy Markets, Risks and Liabilities**

The liberalisation of the EU energy markets has led to a complete reorganisation of the energy sector affecting all levels of the energy chain. In addition, traditional energy sources are being supplemented by alternatives like biogas and wind energy. These changes may result in new regulatory risks, technical risks, supply risks etc. This research aims at investigating, together with KEMA/Gasunie, these risks and to analyse the extent to which the existing liability regimes are equipped to address and mitigate potential damages.





## The Use of New Energy Resources – The Role of Law and the Impact on Networks

This research examines the impact of new energy resources like wind, solar and biogas on the networks, and more particularly, the extent to which their integration may require changes in the legal framework. The research will concentrate on the networks and explore aspects relating to the classification and construction of networks. In addition, it will assess in greater detail aspects relating to the use of the networks and will analyse more particularly the issue of non-discriminatory access to energy networks and the exemption to this rule for renewable energy sources. However, the legal issues relating to renewable energy sources and energy infrastructure cannot be seen in isolation. Knowledge about market, technical and business developments is essential to appreciate the legal issues and is provided by Gasunie and KEMA.

### Participants GCEL

The following PhD researchers are involved in the EDGaR research: Hannah Kruijmer, Daisy Tempelman, and Thijs Jong. Other researchers include Olivia Woolley (post doc) and the promoters Oscar Couwenberg, Edwin Woerdman, Martha Roggenkamp, Hans Vedder and Albert Verheij.

More information is available at:

[www.edgar-program.com](http://www.edgar-program.com) and [www.gcel.nl](http://www.gcel.nl)

