

**“Energy, environment and us:  
Circular economy and the role of citizens”**



**1st Energy & Environment Clustering Event  
23-24 September 2019**

Hosted by Durham University  
([Map](#) of key locations)

Ken Wade Lecture Theatre  
Calman Learning Centre, Science Site  
South Road  
Durham, DH1 3LE, United Kingdom



@EUA\_Energy #energy #environment #EUAenergy  
@DEI\_Durham #EnergyScienceandSociety

**FINAL PROGRAMME AS OF 20 SEPTEMBER 2019**

The transition towards a carbon-neutral society or, preferably, towards a carbon-negative society requires the collective effort of all of us. It is now widely acknowledged that the Earth cannot sustain the pace at which its natural resources are being exploited and frequently converted into products that, even when they contribute to our well-being, are very difficult to reuse and recycle. At the bottom of the value chain for economical competitiveness and social prosperity lie the never-ending needs for affordable access to energy.

The targets set by the European Union (A Clean Planet for all, COM(2018) 773 final) and COP 21 (Paris Agreement, United Nations, 2015) regarding CO<sub>2</sub> emissions, energy saving and the use of renewable energies aim at speeding up a transition towards sustainability, and are directly related to the way we use natural resources to generate the energy that our societies need. University research and education have a key role to play in these endeavours, particularly in exploring new business models and citizen behaviours to achieve these goals. Collaboration between universities and businesses and with citizens is essential to ensure that the newly generated knowledge is put at the service of society.

In this context, what is the role of research, education and training? How can we find solutions for the social and technological challenges of the energy and climate transition? These are key questions which are going to be addressed at the 1st Energy & Environment Clustering Event, organised by the [EUA Energy & Environment Platform](#) (EUA-EPUE) and [Durham University](#).

EUA-EPUE connects universities across Europe to tackle the energy challenge through collaborative and interdisciplinary research, education and innovation to create a truly clean and sustainable energy system. As part of the [UNI-SET project](#) (2014-2017), the Platform developed two main documents: In 2016 a [Roadmap for European Universities in Energy](#) laid out a vision for a strategic agenda for universities and stakeholders in order to maximise their impact in the field of energy. In 2017 a strategic report [An Action Agenda for European Universities](#) provided a framework for universities across Europe to take initiative and develop interdisciplinary cooperation in the energy and environmental field. Early 2018 EUA-EPUE strategically broadened its perspective by integrating environmental aspects, to align with European and international targets towards sustainability.

Consequently, the Energy & Environment Clustering Events aim to support universities in addressing social and technological challenges of the energy transition and climate change. Building upon the “[Energy Clustering Events](#)”, this new series of events is addressed to university leadership, energy professionals and policy makers active in higher education and research in the field of energy and environment.

The [1st Energy & Environment Clustering Event](#) will focus on the engagement of consumers and citizen communities and on the transition to a circular economy. It will provide a platform for university leaders to share experiences in i) educating and training the next generation of master’s graduates and doctorates, ii) building research capacity within universities and other higher education and research institutions, or iii) strengthening interdisciplinary cooperation between universities and citizen communities, policy makers and industry/business.



<https://bit.ly/2moUpbw>

## MONDAY, 23 SEPTEMBER 2019

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**11.00-13.00** Registration | Calman Learning Centre Reception

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**11.45-12.30** Welcome Lunch | Kingsley Barrett Room CLC407 (Top Floor)

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**12.30-12.45** Move to the Ken Wade Lecture Theatre CLC203

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**12.45-13.00** Welcome Addresses | Ken Wade Lecture Theatre CLC203

- Prof. Claire O'Malley, Pro-Vice-Chancellor (Global), Durham University
  - Prof. Paul Boyle, Vice Chancellor, Swansea University; EUA Vice-President
  - Dr Douglas Halliday, Chair of the EUA Energy and Environment Platform; Co-Director of the Durham University Energy Institute (DEI)
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**13.00-14.00** Science and Policy for the energy and climate transition | Ken Wade Lecture Theatre CLC203

- Prof. Benjamin Sovacool, Professor of Energy Policy and Director of the Sussex Energy Group, University of Sussex

Accelerating energy and low-carbon transitions: Transitioning away from our current global energy system is of paramount importance. The speed at which a transition can take place—its timing, or temporal dynamics—is a critical element of consideration. This presentation therefore investigates the issue of time in global and national energy transitions by asking: What does the mainstream academic literature suggest about the time scale of energy transitions? Additionally, what does some of the more recent empirical data related to transitions say, or challenge, about conventional views? In answering these questions, the article presents a “mainstream” view of energy transitions as long, protracted affairs, often taking decades to centuries to occur. However, the article then offers some empirical evidence that the predominant view of timing may not always be supported by the evidence, and that accelerated transitions are possible under the right circumstances.

*Chair: Prof. Barbara Koch, University of Freiburg*

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**14.00-14.30** Presentation of the EUA Energy and Environment Platform | Ken Wade Lecture Theatre CLC203

Dr Douglas Halliday, Chair of the Platform

The Chair will summarise the work achieved thus far by the EUA Platform. This will lead into a presentation on the work of the Platform going forward illustrating how universities can engage with the Platform for maximum mobilisation and impact on the energy transition and climate challenge facing society. Strategies to ensure the voice of universities is effective will be presented and discussed with delegates.

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**14.30-15.30 How social sciences can contribute to energy and environment sustainability | Ken Wade**  
Lecture Theatre CLC203

- Prof. Linda Steg, University of Groningen, Department of Psychology

Many environmental problems are caused by human behaviour and can be altered when people would more consistently engage in pro-environmental behaviour. I will discuss how social scientists can contribute to solving urgent environmental problems, such as climate change and waste problems. Specifically, I will indicate that social scientists have provided critical insights into factors influencing pro-environmental actions, effective strategies to promote pro-environmental actions, and factors affecting the acceptability of environmental policies and system changes. Next, I will discuss the added value of interdisciplinary and transdisciplinary research and elaborate on factors that enhance the success of such collaborations.

*Chair: Prof. Johan Driesen, KU Leuven*

**15.30-16.00 Coffee break | Kingsley Barrett Room CLC407 (Top Floor)**

**16.00-17.30 Universities as key actors in research, education and innovation towards the energy and climate transition**

*The parallel sessions aim at the sharing of experiences from institutional initiatives supporting and developing energy research and education activities relating to the integration of renewable technologies and solutions and resulting in significant steps towards the required energy and environmental transition.*

**Session 1 - Students engagement | Conference room Palatine Centre PCL050**

- Mr Sam Cross, Aalto University: "Aalto Advanced Energy Project Course: A showcase of student and industry collaboration to solve business problems with societal impact"
- Dr Andrew Wright, De Montfort University: "Students Achieving Valuable Energy Savings (SAVES 2)"
- Mr Vebjørn Bakken, University of Oslo: "CityStudio Oslo: Student-City Interaction"

*Chair: Prof. Linda Steg, University of Groningen*

**Session 2 – Interplay between education and research | Conference room Palatine Centre PCL058**

- Ms Lien Van Schepdael, KU Leuven: "Digital education facilitating interdisciplinary research"
- Prof. Juan Jesús Pérez González, Universitat Politècnica de Catalunya: "Developing an educational environment to help lecturers and students for the transition to a new energy model"
- Prof. Maarten Arentsen, University of Twente: "Co-operative Education and Training formats: The BioEnergyTrain Experience"

*Chair: Prof. Mihaela Albu, Politehnica University of Bucharest*

**Session 3 – Energy transitions at local level |** Conference room Palatine Centre PCL053

- Prof. Sandra Bell, Durham University: “The Treasure Beneath Your Home: Public Inclusion in the Development of Geothermal Heat and Power”
- Prof. Barbara Koch, University of Freiburg: “Development of trinational systemic research and teaching activities on progressive concepts for region with renewable energies”
- Mr Connor McGookin, University College Cork: “A transdisciplinary approach to energy system modelling; Case Study on the Dingle Peninsula: Dingle 2030”

*Chair: Prof. Fabrice Lemoine, Université La Lorraine*

**Session 4 – Engagement of stakeholders in education, training and research activities |**

Conference room Calman Learning Centre CLC407

- Prof. Tanja Winther, University of Oslo: “Establishing ‘INCLUDE’ as a transdisciplinary research centre on environmentally friendly energy in Norway: reflections on the process towards successful proposal – and some challenges ahead”
- Dr Maria Salaru, Durham University: “People-centered development: a collaborative approach to energy transitions”
- Prof. Gernot Stöglehener, Universität für Bodenkultur Wien: “Integrated Spatial and Energy Planning – From Idea to Implementation in the Austrian Province Styria”

*Chair: Dr Wim Melis, Greenwich University*

**Session 5 – Transfer of knowledge in the transition towards a Circular Economy |**

Conference room Calman Learning Centre CLC203

- Prof. Jesus Rosales Carreon, Utrecht University: “Assessing sustainability implications of circular strategies within the building sector”
- Dr Karita Luokkanen-Rabetino, University of Vaasa: “Strategizing under highly regulated conditions: Lessons from university- waste refinery collaborations in the circular economy context”
- Prof. Andriy Kytaiev, National University “Kyiv-Mohyla Academy” - NaUKMA: “Clean-Tech Clusters Development for Local Communities” (Presentation by Skype)

*Chair: Prof. Paulien Herder, Delft University of Technology*

**17.30-17.45 Delegates reassemble Ken Wade Lecture Theatre CLC203**

**17.45-18.15 Report on the outcomes of the parallel sessions |** Ken Wade Lecture Theatre CLC203

*Brief summaries of the presentations and discussions from each of the five parallel sessions.*

**19.30-22.00 Dinner |** Durham Marriott Hotel Royal County, Old Elvet Durham, United Kingdom DH1 3JN

## TUESDAY, 24 SEPTEMBER 2019

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**8.00-8.45**     **Registration** | Calman Learning Centre Reception

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**8.45-9.45**     **Delivering innovation for sustainability and net zero emissions target** | Ken Wade Lecture Theatre CLC203

- Prof. Mercedes Maroto-Valer, Associate Principal (Global Sustainability), Director of the Research Centre for Carbon Solutions (RCCS), Buchan Chair in Sustainable Energy Engineering, Heriot-Watt University

The UK government has recently legally committed to a new net zero greenhouse gases emissions target by 2050. Net zero target means there is nowhere to hide, and all CO2 emissions have to be abated. Sector roadmaps have evidenced specific technologies required for clean growth including carbon dioxide capture, utilisation and storage (CCUS). Our approach pioneered by the Research Centre for Carbon Solutions (RCCS) is delivering innovation to realise global energy transitions in sectors that are difficult to decarbonise, such as aviation, industry and heating/cooling. I will discuss the environmental, economic and societal opportunities to realise energy transitions. The integration of research, innovation and training is key to realise the impact of these radical innovations. Opportunities for collaboration will also be presented.

*Chair: Prof. Fabrice Lemoine, Université de Lorraine*

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**9.45-11.00**     **World Café Session: “How to design consumer or community oriented research projects at universities” (in relation to energy/circular economy)**

Conference Rooms: Groups 1-3 CLC203, Groups 4-6 CLC407 (Top Floor)

*The main objective of this session is to test ideas for the main topics addressed in Day 1. Participants will split into 6 small and informal working groups. The session is structured in two parts of 30 minutes each. Each group will have one moderator. The moderators will invite the participants to brainstorm on selected questions and will feedback discussions at the plenary report.*

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**11.00-11.30**     **Coffee break** | Kingsley Barrett Room CLC407 (Top Floor)

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**11.30-12.00**     **Report from the World Café groups** | Ken Wade Lecture Theatre CLC203

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**12.00-13.00 Roundtable discussion “The role of consumers in the circular economy and energy transition” | Ken Wade Lecture Theatre CLC203**

*The objective of this session is to translate the discussions into concrete steps in supporting the role of consumers in changing their energy consumption behaviour. Different actors engaged in that endeavour will participate, including policy makers, local authorities, university leaders, energy communities, industry.*

- Dr Paweł Gładysz, AGH University of Science and Technology & Silesian University of Technology, Poland
- Prof. Ahmed Khan, Chair Sustainable Architecture and Urbanism, Université libre de Bruxelles, Belgium
- Dr Simone Lowthe-Thomas, Chief Executive Officer, Severn Wye Energy Agency, United Kingdom
- Mr Wouter van Bolhuis, Energy programme coordinator, Municipality of Groningen, the Netherlands

*Chair: Prof. Jon Gluyas, Executive Director of the Durham Energy Institute*

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**13.00-13.15 Closing Remarks | Ken Wade Lecture Theatre CLC203**

- Ms Lesley Wilson, EUA Secretary General
- Prof. Jon Gluyas, Executive Director of the Durham Energy Institute

Announcement of the [DEI Annual Research Symposium “Where Energy Meets People”](#) (10 Year Anniversary) on 25 September 2019

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**13.15-14.00 Farewell Lunch | Kingsley Barrett Room CLC407 (Top Floor)**

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**14.00-17.00 Visit Durham energy and environment facilities** (optional for delegates who have booked in advance)

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