

Socio-Economic
**Opportunities & Drivers on the way to a
Low Carbon Society**

July 24- July 29 2011
In Guildford and London
United Kingdom

Saturday 23 July
Arrival and networking

Throughout the day participants from all over the world will arrive at the University of Surrey, where they will be welcomed by the organizers of the Summer Academy. Participants will have time to settle in and get more familiar with the impressive campus, conference spaces and other facilities of the University of Surrey. A light buffet will make sure everyone stays fit enough to go into town around 20h30 to taste some fine English ales (please note: the flags underneath the time slot on the program indicate the nationality of the speaker of that presentation).

18:00 Reception and introduction,



Prof. Michael Rodi - IKEM, University of Greifswald
Anika Nicolaas Ponder - IKEM

Light buffet table on campus

20:00 Drinks in a historic English pub at the river in Guildford

Sunday 24 July
A Low Carbon Society: Utopia or reality?

Starting off easy with a stroll through the surroundings of the University of Surrey, participants will be challenged by some defying insights as international expert Detlef Jahn will share some ground breaking research with the group. After this, Michael Rodi will animate the an integrative seminar during which the likelihood of a successful transition to a low carbon society will be explored, addressing the major constraints, stakeholders and the policy failures and successes so far. After this intellectual warm-up, participants will actively engage in a discussion, sharing their own views and experience based on this disciplinary and national background.

Agenda

12:30 Tour of the campus and its numerous facilities (shops, restaurants, library, cafés)
13:30 Stroll through the surroundings of Guildford, quick lunch in the town

14:30 – 15:00 → Presentation of a novel research on global warming, temperature rise and policy



- Prof. Detlef Jahn
Professor for Comparative Politics
University of Greifswald, Member of the Board of IKEM

15:00 – 15:30 Discussion round

15:30 – 16:00 Coffee break

16:00 – 16:45 Low Carbon Society - Utopia or Reality?



Participants' perspective on a Low Carbon Society: hows and whys of national successes and failures
- Prof. Michael Rodi, Managing Director of IKEM and professor at the University of Greifswald
Animated by the teaching faculty of the Academy: Exchange of Participants' Views

17:00 – 17:15 Closing discussions

17:15 End of Sunday program

17:15 – 19:00 Free time

19:00 Welcome dinner in Guildford at restaurant the Boatman



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Monday 25 July

Moving Society down the Low Carbon Road

Monday, the first official day of the Summer Academy, will serve as the knowledge basis on which the remainder of the program is built. No true transition to a low carbon model can be envisaged without a full understanding of the underlying drivers that shaped our current society. The findings of the interdisciplinary project RESOLVE will isolate and analyze the unsustainable components of today's society; which behavioral drivers, lifestyles and consumption patterns brought us to this point? The key features of a low carbon model in terms of lifestyle, production and consumption will be addressed, as will the determining cultural considerations in low carbon regulation. Ms. Liisa-Maija Harju, who works at the United Nation's Division of Sustainable Development, will provide us with exclusive insights in the UN's Rio + 20, the United Nations Conference on Sustainable Development 2012, goals and bottlenecks.

9:30 - 10:20

Project RESOLVE: an Interdisciplinary Analysis of Society



Sustainable Businesses and
Organisations

-RESOLVE Researcher Pete Bradley

Consuming Carbon: RESOLVE

Scenarios to 2030 for UK Household
Consumption

- RESOLVE Researcher Scott Milne

10:20 – 10:45

Q&A, discussion round

10:45 – 11:00

15 minute break

11:00 – 11:45

Psychological Drivers of Today's Society: Consumption and Sustainable Behaviors



- Dr. Birgitta Gatersleben, Lecturer, MSc Environmental Psychology Course Director
University of Surrey, Department of Psychology

11:45 – 12:15

Q&A, discussion round

12:15 – 13:00

Culture, Legitimacy and the Design of Low Carbon Regulation



- Dr. Thoko Kaime

University of Surrey, Environmental and Regulatory Research Group

13:00 – 13:30

Q&A, discussion round

13:30 – 14:30

Lunch

14:30 -15:15

Low Carbon at Work: The Role of Trade Unions



- Prof. David Uzzell

University of Surrey



- Prof. Nora Räthzel

Umea University in Sweden

15:15 – 15:45

Q&A, discussion round

15:45 – 16:00

Coffee break

16:00 – 16:45

Rio+20 - a Global Opportunity to Support the Development of Low-Carbon Societies



- Liisa-Maija Harju

Associate Expert in Climate Change and Sustainable Development

United Nations, Division of Sustainable Development

16:45 – 17:00

Q&A, Discussion round

17:15 – 17:30

Questions and answers

17:30

End of Monday program



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Tuesday 26 July

Low Carbon Policy Instruments

Tuesday's agenda focuses on low carbon policy instruments. Policy expert Harro van Asselt will lay the foundations of this day by providing us with an international policy overview. PLC's Sara Feijao will illustrate low carbon strategy based on UK legislative examples. The effects of low carbon and climate policy on business is addressed by Freshfields' environment expert Caryl Walter. Low carbon policies are sometimes even in conflict with international trade law and national economic interests. These issues will be discussed by Francesco Sindico from the University of Dundee. Andrés Jonathan Drew will present relevant highlights from energy and climate policy in Canada, the UK and Australia.

Finally, Gireesh Nair, PhD candidate at Mid Sweden University will discuss the implementation of energy efficiency measures in residential sector from an end-user perspective. During his presentation he will address perception, attitude and behavior of homeowners towards energy efficiency measures and the role of external actor's influence in the adoption decision of homeowners.

9:30 – 10:15 **Great Expectations: Shaping the Post-2012 International Climate Governance Architecture**



- Harro van Asselt
*Environmental Change Institute
University of Oxford*

10:15 – 10:45 Q&A, Discussion round

10:45 – 11:00 15 minute break

11:00 – 11:30 **Climate Change Policy and the WTO: Effects on International Trade**



- Francesco Sindico, *Lecturer in International Law
Centre for Energy, Petroleum and Mineral Law and Policy (CEPLMLP)
University of Dundee*

11:30 – 11:45 Q&A, Discussion round

11:45 – 12:30 **Legal Instruments for a Low Carbon Society: a UK Perspective**



- Sara Feijao, *head of PLC Environment
Practical Law Company*

12:30 – 13:00 Q&A, discussion round

13:00 – 14:00 Lunch

14:00 – 14:45 **Climate change policy: Interaction with other policy priorities and Impact on Business**



- Caryl Walter, *Environment Team
Freshfields Bruckhaus Deringer LLP*

14:45 – 15:00 Q&A, discussion round

15:00 – 15:45 **Integrating Climate Change and Energy Policy: Lessons from Canada, the UK and Australia**



- Andrés Jonathan Drew, *Researcher and lawyer specialized in environmental and energy issues
London School of Economics*

15:45 – 16:00 Q&A, discussion round

16:00 – 16:30 Coffee break

16:30 – 17:15 **Energy Efficiency Measures: Implementation in Existing Swedish Residential Buildings**



Gireesh Nair, PhD candidate at Mid Sweden University

17:15 – 17:30 Q&A, discussion round

17:30 – 17:45 Conclusions of the day

17:45 End of Tuesday program



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**Wednesday 27 July
Sustainable Energy and Grids**

Wednesday is dedicated to the topic of low carbon energy options and grid related questions. Dr. Dirk Hanschel will shed light on the RES (renewable energy sources) that are currently available and what legal issues they entail. Moreover, he will discuss Germany's radical move away from nuclear energy, the financial implications of this policy and which alternative energy source will and can replace the current nuclear supply. Expert consultant Peter Stewart from KBC Technology and the SEEC will elaborate on the intermittent nature of RES, and on the energy sources that could fill in these supply gaps (nuclear, fossil, ccs?). Marko Aunedi from the Electrical Energy Systems Team of Imperial College will share his insights on the topic of intelligent infrastructure such as smart grids. These come with numerous practical complications in terms of data security and communication, and these will be addressed by Tom Bainbridge, Partner in Nabarro's Energy Team. The day will end with a case study by Dr. Nina Lansbury Hall on social acceptance of low carbon energy, in particular wind farms.

9:30 – 10:30 **Renewables: Current State and Legal Considerations**



- *Dr. Dirk Hanschel, University of Mannheim*



**Special focus on Germany:
the End of Nuclear - Accelerating the Switch to Renewables and other Energy Options**



10:30 – 11:00 Q&A, discussion round

11:00 – 11:15 Coffee break

11:15 – 12:00 **RES and Intermittency issues: Filling in the Supply Gaps**



- *Peter Stewart, SEEC (Surrey Energy Economics Center) and KBC Technology*

12:00 – 12:30 Q&A, discussion round

12:30 – 13:30 **Lunch**

13:30 – 14:15 **The Energy of Tomorrow and the Infrastructure of Today: Smart Grids and Super Grids**



- *Marko Aunedi, Research Fellow - Imperial College's Electrical Energy Systems Team*

14:15 – 14:30 Q&A, Discussion round

14:30 – 15:15 **Smart Metering and Grids - Practical Experiences and Legal Concerns**



- *Tom Bainbridge, Partner in the Energy Team of Nabarro*

15:15 – 15:45 Q&A, Discussion round

15:45 – 16:15 Coffee break

16:15 – 17:00 **Case study of bottom-up low carbon strategies:**



'A social license to operate rural wind farms'

Dr. Nina Lansbury Hall, Social Scientist and Team Leader, Science into Society Group, Commonwealth Scientific and Industrial Research Organisation (CSIRO). Brisbane, Australia

17:00 – 17:15 Questions and answers

17:15 End of Wednesday program



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Thursday 28 July
Decarbonization of the Transport Sector

Soaring fossil fuel prices combined with increasing environmental concerns are pushing the car industry to develop sustainable alternatives to the traditional automotive business model. Andreas Schreiber, researcher in IKEM's e-mobility team will provide us with an overview of the EV market. Jérôme Massiani from the ESMT (European School of Management and Technology) will share his practical insights on EV projects in Germany, the preparations of the EV project Autolib' in Paris with the Academy, and the importance of emissions control. Lawyer and PhD researcher Natascha Trennepohl will address the role of biofuels in Brazil's transport sector. Other sustainable transportation options will not be overlooked; the low carbon strategy of railways will be discussed by transport expert Prof. Chris Nash from the University of Leeds. Finally, Sabine Möllenkamp, Policy Officer at the German Federal Ministry of Transport, Building and Urban Affairs will talk about the importance and effects environmental concerns have on the international shipping sector.

9:30 – 10:15 **Electric Vehicles Today and Tomorrow: the Drivers and Perspectives of the Industry**



- *Andreas Schreiber*
E-mobility department, IKEM

10:15 – 10:45 Q&A, Discussion round

10:45 – 11:00 15 minute break

11:00 – 11:45 **Case study**



EV Experiences in the EU: from German City Projects to France's Autolib'

- *Jérôme Massiani*, Senior Researcher, PhD in Applied Economics
ESMT (European School of Management and Technology)

11:45 – 12:15 Q&A, Discussion round

12:15 – 13:15 **Lunch**

13:15 – 14:00



Biofuels in the Transport Sector: Contributions to Brazil's Clean Energy Matrix

- *Natascha Trennepohl*, Lawyer and PhD Candidate
Humboldt University, Berlin

14:00 – 14:15 Q&A, Discussion round

14:15 – 15:00



From Roads to Rails: the Role of Trains in Low Carbon Strategies

- *Prof. Chris Nash*, Professor of Transport Economics
Institute for Transport Studies at the University of Leeds

15:00 – 15:30 Q&A, Discussion round

15:30 – 15:45 Coffee break

15:45 – 16:30 **Reducing GHG emissions from international shipping**



Dr. Sabine Möllenkamp, Policy Officer
German Federal Ministry of Transport, Building and Urban Affairs

16:30– 16:45 Q&A, Discussion round

16:45 – 17:00 Conclusions of the day

17:00 **End of the Thursday program**



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FRESHFIELDS BRUCKHAUS DERINGER

Morning Program

by Freshfields Bruckhaus Deringer

Curbing climate change: The need for building new legal infrastructures

In the morning the Academy will benefit from the legal and environmental insights of the international law firm Freshfields. Their legal experts will share their views and knowledge on the legal opportunities, bottlenecks and future developments in the field of climate change from a UK perspective.

Legal expert Paul Bowden will address the increasingly pressing need for new legal infrastructures to effectively control climate change. The underlying causes that drive this need for change will be discussed by Caryl Walter from Freshfields' Environment Team, using examples of current issues in UK climate change policy. The morning ends with William Robinson and Jonathan Isted (head of Freshfields European Environment, Planning and Regulatory Group). They will shed light on of the European Union Emissions Trading Scheme, the largest emissions trading system in the world, and the conflict between industries' interests and environmental ones.

10:00 – 10:30

Arrival at Freshfields and reception

10:30 – 11:00

The Need for Building New Legal Infrastructures



- Paul Bowden, *Dispute Resolution Partner specialised in Environmental and Product Litigation, Freshfields, Bruckhaus Deringer*

11:00 – 11:45

Current Issues with UK Climate Change Regulations



- Caryl Walter, *Environment Team
Freshfields Bruckhaus Deringer LLP*

11:45 – 12:45

Industry issues with the European Union's ETS



- Jonathan Isted, *Partner in Freshfields' dispute resolution practice and head of the European Environment, Planning and Regulatory Groups (EPR)*

- William Robinson, *Partner, specialising in general commercial, competition and European Community Law*

12:45 – 14:00

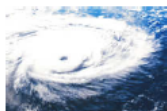
Lunch at Freshfields



Freshfields is located in the heart of London's historical legal district near the Royal Courts of Justice on Strand. Built in 1870, this beautiful Victorian Gothic edifice is worth visiting. If you want to stretch your legs a bit during lunch, this building is a must-see!



Program continues on the next page!



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Afternoon program

by IKEM

International Climate Policy: Reality, Opportunities and Constraints

The afternoon will take the topic to a global level with top experts from the Royal Netherlands Meteorological Institute (KNMI) sharing their advanced research on future climate scenarios. Their scientific findings will be complemented with pure scientific recommendations for policy makers. Mark Scorsolini from Public Service Enterprise Group will shed light on the actual climate change strategy pursued by the United States. Leila Pourarkin from the DECC will discuss successes and failures of low carbon policies on an international level, ranging from energy efficiency measures to the UN's Clean Development Mechanisms. Finally Oliver Morton, Environment and Energy Correspondent for the Economist, will elaborate on the role of economics and politics in climate change policy, thereby explaining the discrepancy between what is needed/recommended, and what is actually being done. The day will end with a panel discussion including the conference speakers, the participants and audience.

14:00 – 15:00



Climate Change: Future Scenarios and Recommendations for Policy Makers

- Rob van Dorland, Climatologist at the Royal Netherlands Meteorological Institute (KNMI)
Member of the Intergovernmental Panel on Climate Change (IPCC)
- Lucinda Rasmijn, Research Staff of the Royal Netherlands Meteorological Institute (KNMI)

15:00– 15:15

Questions and answers

15:15 – 15:45



Low Carbon Strategy in the US: Policy Drivers and Political Considerations

-Mark Anthony Scorsolini
Business Development Manager at Public Service Enterprise Group, a leading low-carbon energy company based in the US

15:45 - 16:00

Questions and answers

16:00 – 16:15

Coffee break

16:15 – 16:45



Designing low carbon international policy: from energy efficiency to CDM mechanisms

Leila Pourarkin
DECC (UK Department of Energy and Climate Change)



16:45 – 17:15



The Economics of Climate Change: Balancing Reality and Policy

-Oliver Morton
Energy and Environment editor at The Economist;
Author of "Eating the Sun: How Plants Power the Planet"



17:15 – 17:45

Panel discussion and questions and answers

Based on the recommendations of the climatologists from the KNMI and the actual policies presented during the afternoon, the audience and participants of the Summer Academy will have the opportunity to ask questions about any discrepancy or perceived incoherence. Moderated by Prof. Rodi from the University of Greifswald, managing director of IKEM.

17:45 – 18:00

Closing remarks

18:00

Drinks at Freshfields

