

12th Annual Summer Academy 'Energy and the Environment'

## Governing Climate Change:

# A Multi-Level Approach to Energy System Transformation

19 - 24 July | Greifswald and Berlin | Germany

The 12<sup>th</sup> international Summer Academy will address the multi-level policy, legal and regulatory challenges associated with climate change, and with the closely intertwined energy system transformation.

The Academy will begin with a reception on Sunday 19 July in the coastal town Greifswald, where lectures on the state of today's energy landscape are complemented with a visit to the region's decommissioned nuclear power plant in Lubmin and wind energy farms. On Tuesday evening the Academy travels to Berlin.

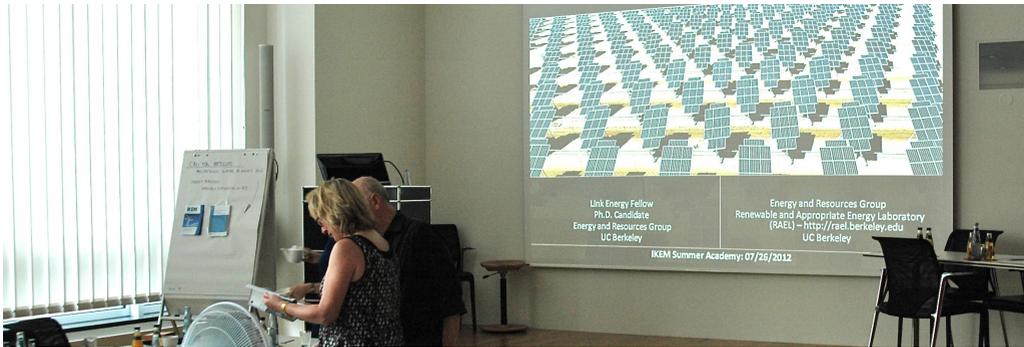
The Berlin conferences open on Wednesday with an insight into the state of climate change today, followed by an analysis of the complexities and state of international climate policy negotiations. The expectations and hopes for the upcoming climate talks in Paris will be analysed, followed by insights and lessons from carbon pricing mechanisms. Regional cooperation in the European Union, Africa and South America is next on the agenda. The international picture will be complemented with national examples from the US and China.

Friday the 24<sup>th</sup> will open with the energy decentralisation of the German *Energiewende*. This day is dedicated to regional, local and community initiatives aimed at climate protection through, for instance, local (financial) participation in clean energy projects. As tradition has it, the Academy will end with a festive barbecue for all participants and speakers.



## Governing Climate Change: A Multi-Level Approach to Energy System Transformation

*The Summer Academy 2015 will take place in the city of Greifswald from Sunday 19 until Tuesday 21 July, and in Berlin from Tuesday afternoon until Friday 24 July. In Greifswald, the Academy will open with a reception and offer a full program of visits to the region's energy sites with matching lectures on past and future energy options. In Berlin, the Academy will continue with a series of expert conferences on climate change, the energy system transformation and international and local policy challenges.*



### Block 1 | Energy System Transformation

In the afternoon of Sunday 19 July, participants will arrive in the city of Greifswald. Located at the Baltic Sea, this coastal town is home to momentous energy sites, each of which symbolizes an important shift in Germany's energy policy. The once largest nuclear power station in East Germany (now decommissioned) is located in Greifswald, as is the gas pipeline Nord Stream that brings Russian gas to Germany via the Baltic Sea. There are, of course, the continuously expanding on and off-shore wind farms, fundamental to today's energy transition. During the 2 days in the region of Greifswald, the group will visit a decommissioned nuclear plant and, of course, a major wind energy farm. From Sunday to Tuesday evening the Academy will take place in Greifswald, with a conference agenda complemented by several professional visits to the region's energy sites. On Tuesday evening the group will travel to Berlin.

### Block 2 | Climate Change and the International Policy Response

The Berlin conferences open on Wednesday 22 July with a diagnosis of today's energy landscape and the state of climate change today. On this basis the program will address the process behind today's international climate policy design, the major achievements and of course, the major shortcomings, paying special heed to the global conflict of interest between economic development and environmental preservation. The future of climate policy will be addressed with a focus on the upcoming Paris talk this December, what needs to be agreed, and what scenarios we can likely expect. Carbon pricing is the main international climate instrument available, and the agenda will focus on its potential and pitfalls next. Finally, the importance of energy efficiency must be recognised, and the agenda will close with an insight into the greenhouse gas mitigation potential efficiency measures hold.



### Block 3 | Regional and National Low-Carbon Governance

Any given policy instrument, whether on an international, regional or national level, is the result of the interactions of multiple complex variables: The availability of national resources, the existence of trade agreements, the lock-in effect, lobbies, infrastructure and technology, economic considerations, the attitude of the people and government towards certain energy sources and many more. It is no surprise that it is difficult for the international community to reach a consensus in the field of climate change, as each nation is driven by a different set of variables. It can therefore be easier to shape and implement effective policy on a regional or national level. Thursday addresses this potential, beginning with climate protection initiatives from the South American and African continent. We then look to the EU and its sophisticated energy & climate package, and analyse the EU's ambition to curb GHG emissions by 40% by 2030. The afternoon is dedicated to national level policy commitments using examples from the US and China.



## Block 4 | From National to Local: Bottom-Up Climate Action

Sometimes, it is the small movements that trigger the major impacts. Some of the most successful low-carbon initiatives originated locally, in communities and citizen organizations. Friday is dedicated to the translation of global climate challenges to local engagement, community initiatives and participatory, integrative policies. The day will open with the low-carbon policy approach employed in Mecklenburg-Vorpommern, a German region that is shifting its renewable energy policy to a participatory, inclusive model. This shift is happening in the overall context of the German energy transition, the idea, policy and outlook of which will be discussed next. The decentralization trend in energy supply must be accompanied by intelligent grids and storage solutions, capable of handling intermittent renewable energy sources. These local distribution networks will be discussed next, followed by the topic of community-owned renewable energy infrastructure. The vast majority of wind energy farms in Denmark is owned by cooperatives, citizen organizations that represent the local community. This is a strong driver for public acceptance of renewable energy projects, and will serve as an example of how renewable energy can boost local economies and foster social cohesion in communities. The acquired knowledge of the Summer Academy 'Energy and the Environment' will be put into practice with an integrative workshop. In the evening, participants and speakers will raise a glass together at a Summer Academy's goodbye barbecue in Neukölln, Berlin.

## Registration

The Summer Academy 2015 'Governing Climate Change: A Multi-Level Approach to Energy System Transformation' welcomes 25-30 participants working in the field of energy and the environment. Applicants must have relevant experience in the field, and are selected based on their interest in the program, as well as academic/professional achievements. The Academy aims to find a representative mix of disciplines,

nationalities, as well as gender. Registration forms are available on our site: [www.ikemsummeracademy.de/applications](http://www.ikemsummeracademy.de/applications)

You can also write to us for an application form or any additional information: [summeracademy2015@ikem-online.de](mailto:summeracademy2015@ikem-online.de)

## Participation fee

Participants can choose between joining the full week program, to attend only the Greifswald segment, or only the Berlin conferences. Fees are dependent on length of participation and disciplinary background.

**Greifswald program | 19 - 21 July:** Fee covers: Welcome dinner, lectures in Greifswald, the visits to the nuclear reactor and the wind farms, lunch on Monday and Tuesday, transport to Berlin

**Berlin program | 22 - 24 July:** Fee covers: All conferences, lunch on all 3 days of the event, and the good-bye barbecue on Friday evening.

**Full program | 19 - 24 July:** Fee covers: All of the above

**1-Day participation:** Fee covers: Conference and lunch

*Note: Accommodation is not included in the participation fee! Group reservations have been made at a variety of hotels in Greifswald and in Berlin. If you are interested in using our hotel recommendations, please do not hesitate to contact us.*

	 Business	 Governments	 NGO/University	 PhD	 Students
Full program	€ 750	€ 550	€ 420	€ 350	€ 250
Greifswald program	€ 200	€ 140	€ 120	€ 90	€ 80
Berlin program	€ 650	€ 450	€ 380	€ 300	€ 200
1-Day participation	€ 200			€ 60	

# Governing Climate Change: A Multi-Level Approach to Energy System Transformation



Sunday 19 July | Greifswald

## Arrival and reception

16:00	Tour of the University of Greifswald
17:00	Reception at the University of Greifswald
19:00	Welcome dinner   Brasserie Hermann   Gützkowerstraße 1

Monday 20 July | Greifswald

## Energy System Transformation: Status Quo

8:30 - 9:00	Bus to Lubmin decommissioned nuclear power station
9:15 - 10:00	Global Drivers and Challenges of the Energy Transition <a href="#">Anika Nicolaas Ponder</a>   Research Fellow   IKEM <a href="#">Julia Sandén</a>   Research Fellow   IKEM
10:00 - 12:30	Visit of the Greifswald nuclear power station
13:00 - 17:00	Lunch and free time at the beach
18:00	Dinner (optional)   Restaurant Alte Fritz   Markt 13

Tuesday 21 July | From Greifswald to Berlin

## Energy Transition: Moving forward

10:30 - 11:30	German Energiewende: Cultural, Political and Economic Settings for a Fundamental Regime Shift <a href="#">Johannes Schmitz</a>   Research Fellow   IKEM
11:30 - 12:00	Energy Justice in Socio-Technical Transition <a href="#">Max Lacey-Barnacle</a>   PhD   University of Cardiff
12:00 - 13:30	Lunch in Greifswald
14:00 - 15:30	Guided tour of wind farm
15:30 - 17:30	Travel to Berlin



Wednesday 22 July | Berlin

## Climate Change: the International Policy Challenge

9:30 - 10:15	Energy Consumption and the State of Climate Change <a href="#">Dr. Andrzej Ancygier</a>   Climate Analytics
10:15 - 11:00	International Climate Negotiations: Policy Drivers and Outcomes <a href="#">Prof. Dirk Hanschel</a>   University of Halle
11:00 - 11:30	Coffee break
11:30 - 12:15	Paris 2015 and Beyond: Stakes and Chances of a New Climate Treaty <a href="#">Dr. Camilla Bausch</a>   Director   Ecologic Institute
12:15 - 13:15	Lunch
13:15 - 14:00	Putting a Price on Pollution: Lessons from Emissions Trading Regimes <a href="#">Aki Kachi</a>   International Carbon Action Partnership (ICAP)
14:00 - 14:30	The Role of International Standardisation in the Energy Transition <a href="#">Prof. Gustav R. Grob</a>   Executive secretary   International Sustainable Energy Organization (ISEO)
14:30 - 15:00	Coffee break
15:00 - 16:15	Panel discussion: Energy Efficiency  The Role of Energy Efficiency: Policy and Potential Moderated by <a href="#">Dr. Aleksandra Novikova</a>   Research fellow   IKEM



Thursday 23 July | Berlin

## Regional and National Low-Carbon Policy Frameworks

9:30 - 10:15	Climate Policy in South America Stephan Wolters   Project Manager   Adelphi
10:15 - 11:00	From Mitigation to Adaptation: Climate Policy in Africa Dr. Birte Pfeiffer   GIGA (German Institute of Global and Area Studies)
11:00 - 11:30	Coffee break
11:30 - 12:00	Sustainable Forest Management in Malawi Stella Gama   Director of Forestry   Ministry of Natural Resources Energy and Environment   Malawi
12:00 - 12:45	Targets and Ambition in the EU: Driving Global Climate Commitments Dr. Michael Pahle   Potsdam Institute for Climate Impact Research (PIK)
12:45 - 13:45	Lunch
13:45 - 14:30	Climate Policy in the United States: Federal and State Initiatives David Lunsford   Consultant   Energy and Environment Solutions
14:30 - 15:00	Spotlight on Offshore in the United States: State and Outlook Alexandra St. Pé   PhD   University of Maryland
15:00 - 15:30	Coffee break
15:30 - 16:15	Energy and the Environment: Challenges for China David Lunsford   Consultant   Energy and Environment Solutions

Friday 24 July | Berlin

## Energiewende: Towards a Decentralised Energy Supply

9:30 - 10:15	Bridging the Gap between Public Support and Local Opposition: Legal Options to Overcome the NIMBY Effect Simon Schäfer-Stradowsky   Director   IKEM Benjamin Boldt   Senior Researcher   IKEM
10:15 - 11:00	Local Involvement in the Energy Transition: Options for Financial Participation of Stakeholders Ralf Ott   Senior Researcher   Technical University of Berlin
11:00 - 11:15	Coffee break
11:15 - 12:00	Public Benefit and Development Consent in the UK: A Legal and Spatial Planning Perspective Caryl Walter   Lawyer   England & Wales   Freshfields Bruckhaus Deringer LLP
12:00 - 12:45	Lessons from the East: Local Climate and Energy Action in China Weila Gong   PhD   Local Climate Policy in China   FU Berlin
12:45 - 13:45	Lunch
13:45 - 14:05	Building an Energy Internet: Integrating Renewable Energy into the Smart Grid Felix Dembski   Bitkom
14:05 - 14:25	Grid Needs to Integrate Renewables Theresa Schneider   Senior Project Manager   Renewables Grid Initiative
14:25 - 14:45	Discussions with both speakers
14:45 - 15:00	Coffee break
15:00 - 16:00	Wind Energy and Co-operatives: Community Engagement in Denmark Søren Hermansen   Director   The Energy Academy   Samsø
16:00 - 16:15	Conclusions of the Summer Academy 2015
19:00 - 22:00	Goodbye barbecue for all participants and speakers



## About

For twelve years, the Summer Academy has served as an interdisciplinary and international forum for experienced professionals and researchers working in the field of energy and the environment. By incorporating professionals from the business sector, the event creates a much-needed link between research and industry as both sides are able to learn from and influence each other in a mutually beneficial manner: ensuring the relevance of research carried out and employing practices based on the latest findings. After all, the value of scientific findings and policy solutions ultimately lies in their practical application.



## Experiences

### Johan Scheffer | Member of Parliament, Victoria, Australia

*'As a Member of Parliament, representing a coal and energy region in Victoria, Australia, I was very impressed with the range of topics considered and the high level of expertise of the presenters at the 2012 IKEM Summer Academy in Berlin. The program was well paced and focused. Discussion amongst participants - who came from more than 18 countries – was also highly informative. The contacts I made have proven to be a great subsequent source of information. The Summer Academy has deeply informed my understanding of the implications of energy policy in Victoria.'*

### Max T. Edkins | Climate Change & Communications | World Bank

*'The IKEM Summer Academy was remarkably enlightening - it is incredible how much I learned in a week. I felt that the course really profited from the diversity of the attendees and I certainly felt that I took something home from each one of them. The diversity of speakers and topics was also very encouraging and I felt that I gained a detailed understanding of the German Energiewende, its successes and challenges.'*

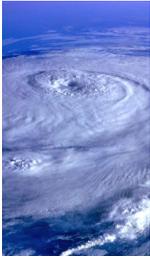
## Summer Academy 'Energy and the Environment'

12 years of international cooperation



- 2004 Transition from Nuclear Energy to Renewable Energy Sources  
Greifswald, Germany
- 2005 Implementing Kyoto - Chances and Challenges for Transition Countries  
Irkutsk, Russia
- 2006 Emissions Trading in Europe – Review and Preview  
Greifswald, Germany
- 2007 Bridging the Divide in Global Climate Policy: Enhanced Participation and Integration  
Budapest, Hungary
- 2008 Realizing the Paradigm Shift towards Energy Sustainability: Climate Change, Technological Innovation, & the Challenge of an Optimal Instrument Mix  
Greifswald, Germany
- 2009 Bridging the Divide in Global Climate Policy 2.0: From Bali to Copenhagen  
Amsterdam, the Netherlands
- 2010 Transnational Energy Grids: Challenges on the Way to Sustainable Energy Transmission  
Greifswald, Germany
- 2011 Socio-Economic Opportunities and Drivers on the Way to a Low-Carbon Society  
Guildford and London, the United Kingdom
- 2012 Energy Transition: Expansion and Integration of Renewable Energy Sources  
Berlin, Germany
- 2013 Climate Change and the Energy Challenge: Energy Efficiency and Renewable Resources  
Brussels, Belgium
- 2014 Energy Transition 2.0: Further Deployment and Market Integration of Renewable Energy  
Berlin, Germany
- 2015 Governing Climate Change: A Multi-Level Approach to Energy System Transformation  
Greifswald and Berlin, Germany





# IKEM

Institut für Klimaschutz, Energie und Mobilität

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- Impressions of the Summer Academy:  
[gallery.ikemsummeracademy.de](http://gallery.ikemsummeracademy.de)

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