



# Roadmap to a low-carbon future: Policy and finance for climate action

Summer Academy 'Energy and the Environment' 2018

22 – 27 July 2018 | Greifswald and Berlin | Germany

Climate change is more present and noticeable each day. The year 2017 was a record breaking year in higher temperatures, extreme weather events, and shrinking polar caps... The challenges are daunting!

Spurred by increased global awareness and advances in technology, international climate policy is finally gathering momentum. The Paris Agreement marks a clear acceleration in climate action, committing to keep global warming below 2 degrees by decreasing the use of fossil fuels, increasing renewable energy and by implementing adaptation and resilience measures. The climate pledges made by the international community, national governments and private actors must now be translated into meaningful action.

Finance is one of the key drivers of this much needed climate action. Now is the time for innovative, creative solutions to mobilise the necessary resources and trigger involvement from all levels of society: Governments, the private sector, communities and individuals.

The Summer Academy 2018 will sketch a roadmap to a low-carbon future: From the international climate policy framework, to national policy and finance lessons of the German energy transition, down to the different forms of climate finance and the participation of multi-level stakeholders.

The Academy features workshops, visits to a wind energy farm and a renewable electricity storage plant, a three-day conference program, networking events and a festive goodbye barbecue in Berlin.



# Roadmap to a low-carbon future: Policy and finance for climate action

Summer Academy 'Energy and the Environment' 2018

## Summer Academy - Part I: Greifswald

Sunday 22 - Tuesday 24 July 2018

The Summer Academy 'Energy and the Environment' opens with a meet and greet at the University of Greifswald on Sunday 22 July, followed by a welcome dinner in the harbor of Greifswald.

On Monday morning the Academy will open with a short [introduction into](#) climate policy and the need to include multi-level stakeholders in finance and action.

A [collaborative workshop](#) will facilitate the exchange of international and interdisciplinary insights between Summer Academy participants and faculty.

The Academy will then [visit a wind farm](#) in Mecklenburg-Vorpommern, where participants have the chance to interview the operator and learn more about the German legal framework for remuneration of renewable energy and the im-

plications of grid congestion. After the wind farm the group will visit the beach at the Baltic Sea.

On Tuesday, the Academy starts with a [lecture](#) at the University on the rise of technologies such as power-to-gas, which in their novelty require policy support and financial incentives to achieve greater efficiency.

Such technologies are necessary in a low-carbon energy system, and this will be the focus of the Academy in the afternoon which features a [visit to a power-to-gas plant](#) where renewable electricity is converted to gas, which can be stored in the gas grid.

The Academy will then move on to Berlin, where an intensive three-day conference and workshop program starts on Wednesday.



## Summer Academy - Part II: Berlin

Wednesday 25 - Friday 27 July 2018

The Berlin program of the Summer Academy features three days of conferences and workshops by an international and interdisciplinary teaching faculty.

On Wednesday, the Academy begins with a broad insight into the state of [climate change](#) and the changes we need to make to address it. Next, the program addresses [climate policy](#) at an international level with the Paris Agreement, then narrowing the scope to the [German energy transition](#), its achievements and the obstacles on the road towards climate neutrality.

On Thursday, the program opens by addressing the operationalization of the Paris Agreement through the climate finance structures like the [Green Climate Fund](#). Next up is the topic of divestment to engage private sector funding in green investments, followed by a case study on [carbon markets in Canada](#). An interactive [workshop](#) will engage participants in a roleplaying exercise to come

to a fuller understanding of the complex mechanism behind the GCF. The day ends with a [GCF energy efficiency](#) workshop.

Addressing climate change requires the mobilization of resources from the public and private sector, and can offer involvement and empowerment of communities and individuals if done right.

The last day of the Academy addresses multi-level financing instruments, looking into [blended finance](#), [carbon market design](#) as well as the major impact of innovative instruments like [blockchain](#) and [green bonds](#).

The increasingly important role of the individual as an investor is also addressed: [Crowdfunding](#) as a way to finance renewable energy projects will mark the end of the Academy 2018.



## Greifswald

Sunday 22 - Tuesday 24 July

### Welcome and networking dinner

Sunday 22 July | Greifswald

- 16:15 Tour of the University and welcome | Prof. Michael Rodi
- 18:00 Reception and dinner on the ship Pomeria | Salinenstraße | Greifswald

### The Roadmap towards Sustainability

Monday 23 July | Alten Augenklinik, Rubenowstr. 2b, room 2 | Greifswald

- 10:00 **Climate targets: Challenges and opportunities on the low-carbon road**  
Anika Nicolaas Ponder | Research coordinator | IKEM  
Pauline Horng | Research associate | IKEM
- 10:30 **Workshop: Roadmap to a low-carbon future**  
*Participatory workshop moderated by:*  
Sam Holleran | Urban and Social Design Lead | Ellery Studio for Creative Strategy  
Bernd Riedel | Co-Founder | Ellery Studio for Creative Strategy
- 12:30 Lunch
- 14:30 **Visit: Wind energy park in Mecklenburg-Vorpommern | Interview with operator**
- 16:00 Beach walk at the Baltic Sea (Lubmin)

### Energy Storage and Renewable Energy Conversion

Tuesday 24 July | Alten Augenklinik, Rubenowstr. 2b, room 2 | Greifswald

- 10:00 **Climate change impacts on hydropower-based energy systems: The case of Zambia**  
Mwape Chikonkolo Mwewa | Renewable Energy Engineer | Zesco
- 10:30 **Climate Action and Decentralized Renewable Energy**  
Chibuikem Agbaegbu | Market Access Lead | Power for All
- 11:00 **Batteries & Beyond: The Role of Energy Storage, Sector Coupling and Grids in a Clean Energy System**  
Philip Hiersemenzel | Author, Advisor & Spokesperson | Younicos, Lumenion, GRIPS  
Susan Wilms | Senior Research Associate | IKEM
- 12:15 Lunch | Travel to Berlin
- 15:00 **Technical visit: Power-to-gas hybrid power plant**
- 18:00 Arrival in Berlin

## Berlin

Wednesday 25 - Friday 27 July

### Climate targets:

### Challenges and opportunities on the low-carbon road

Wednesday 25 July 2018

- 09:15 - 10:15 **Welcome and introduction**  
Prof. Michael Rodi  
*University of Greifswald | Director of IKEM*
- 10:15 - 11:00 **Climate change: Status quo and the need for action**  
Paola Yanguas-Parra  
*Decarbonisation Strategies Team Lead | Climate Analytics*
- 11:00 - 11:30 Coffee break
- 11:30 - 12:30 **The Paris Agreement and the future of international climate policy**  
Arne Riedel  
*Fellow | Ecologic Institute*
- 12:30 - 13:30 Lunch break
- 13:30 - 14:40 National case study:  
**The road towards climate neutrality: Drivers and challenges in the German Energy Transition**  
Markus Graebig  
*Project lead | WindNODE*
- 14:40 - 15:00 Coffee break
- 15:00 - 15:45 **Climate policy and green finance**  
Julia Anna Bingler  
*Policy Advisor | Germanwatch*
- 15:45 - 16:30 National case study:  
**Implementation of NDCs in Colombia: From theory to practice**  
Laura Sabogal  
*Consultant | MicroEnergy International*



# From global policy to climate action: Accessing and implementing climate finance

Thursday 26 July

- 9:15 - 10:30 **Operationalizing the Paris Agreement:**  
Key climate finance features and future perspectives  
Sven Harmeling  
*Advocacy and policy coordinator | CARE International*
- 10:30 - 10:45 Coffee break
- 10:45 - 11:30 **Divestment:**  
Finance and engagement to change company dynamics  
Clare Murray  
*Two Degrees Investing Initiative*
- 11:30 - 12:15 **Case Study:**  
The Canadian experience - the evolution of the carbon market  
Prof. Sharon Mascher  
*Faculty of Law | University of Calgary*
- 12:15 - 13:15 Lunch break
- 13:15 - 13:45 **Introduction: Unlocking the Green Climate Fund**  
Kateryna Stelmakh  
*Research Associate | IKEM*
- 13:45 - 15:15 **Participatory workshop:**  
Role play – Accessing international climate finance funds  
Moderated by Kateryna Stelmakh  
*Research Associate | IKEM*
- 15:15 - 15:45 Coffee break
- 15:45 - 16:30 **Climate finance in action: Case studies on GCF energy efficiency projects**  
Alexander Vasa  
*Green Finance Specialist*

# Innovative climate investments: Mobilizing resources and empowering people

Friday 27 July

- 9:15 - 10:30 **Blended finance:**  
Mobilising resources for sustainable development and climate action  
Bérénice Lasfargues  
*Policy Analyst – Green and Private Finance | OECD*
- 10:30 - 10:50 Coffee break
- 10:50 - 11:35 **Carbon markets: putting a price on pollution**  
Aki Kachi  
*Climate Policy Analyst | NewClimate Institute*
- 11:35 - 12:30 **The Tokenization of Energy:**  
How to create virtual commodities for sustainability  
Sebnem Rusitschka  
*Founding Researcher | Freeelio*
- 12:30 - 13:30 Lunch break
- 13:30 - 14:15 **Green bonds: Climate action as an investment opportunity**  
Lily Dai  
*Senior Research Analyst | Climate Bonds Initiative*
- 14:15 - 15:00 **Power to the people: Crowdfunding renewable energy projects**  
Mak Dukan  
*CEO and Co-Founder | Starfish Energy*
- 15:00 Conclusion of the Summer Academy 2018
- 19:00 **Goodbye barbecue for all participants and teaching faculty**  
*Neukölln, Berlin*



## Registration

The Summer Academy 2018 'Roadmap to a low-carbon future: Policy and finance for climate action' will welcome 30 interdisciplinary participants working in the field of sustainability. 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 and gender.

The fees cover all workshops and conferences, lunch throughout the event, transport from Greifswald to Berlin (as well as transport in Greifswald to the wind farm and beach), the welcome dinner, and the festive barbecue on the last day of the Academy in Berlin.

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, comments or questions:

[summeracademy@ikem.de](mailto:summeracademy@ikem.de)

	 Business	 Governments	 NGO/University	 PhD/Freelancer	 Students
Full program	€ 800	€ 650	€ 520	€ 410	€ 350
Greifswald program	€ 320	€ 290	€ 260	€ 240	€ 220
Berlin program	€ 730	€ 560	€ 430	€ 330	€ 250
1-Day participation		€ 260		€ 140	



## Summer Academy 'Energy and the Environment' 15 years of international cooperation

-  Transition from Nuclear Energy to Renewable Energy Sources  
2004 - Greifswald, Germany
-  Implementing Kyoto - Chances and Challenges for Transition Countries  
2005 - Irkutsk, Russia
-  Emissions Trading in Europe – Review and Preview  
2006 - Greifswald, Germany
-  Bridging the Divide in Global Climate Policy: Strategies for Enhanced Participation & Integration  
2007 - Budapest, Hungary
-  Realizing the Paradigm Shift towards Energy Sustainability: Climate Change, Technological Innovation, and the Challenge of an Optimal Instrument Mix  
2008 - Greifswald, Germany
-  Bridging the Divide in Global Climate Policy 2.0: From Bali to Copenhagen  
2009 - Amsterdam, the Netherlands
-  Transnational Energy Grids: Challenges on the Way to Sustainable Energy Transmission  
2010 - Greifswald, Germany
-  Socio-Economic Opportunities and Drivers on the Way to a Low-Carbon Society  
2011 - Guildford and London, the United Kingdom
-  Energy Transition: Expansion and Integration of RES  
2012 - Berlin, Germany
-  Climate Change and the Energy Challenge: Energy Efficiency and Renewable Resources  
2013 - Brussels, Belgium
-  Energy Transition 2.0: Further Deployment and Market Integration of Renewable Energy  
2014 - Berlin, Germany
-  Governing Climate Change: A Multi-Level Approach to Energy System Transformation  
2015 - Greifswald and Berlin, Germany
-  Sustainable Cities: Low-Carbon Policy for the Urban Energy Transition  
2016 - Greifswald and Berlin, Germany
-  Towards 100% renewable: Connecting energy sectors for a global energy transition  
2017 - Greifswald and Berlin, Germany



# IKEM

Prof. Michael Rodi  
Founder of the Summer Academy  
IKEM | Institute for Climate Protection, Energy and Mobility

Management & organisation:  
Anika Nicolaas Ponder | Project manager  
Pauline Horng | Science research associate  
Carolina Nocua | Event and research assistant

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

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