

IKEM ACADEMY ENERGY & CLIMATE

2019: Social innovation in the energy transition

Empowerment through climate action

As average global temperatures rise, the effects of climate change are becoming more and more visible around the world. Severe floods, prolonged droughts, and intense hurricanes have ravaged homes and local infrastructure and reduced business profits, especially in the fields of agriculture and construction. Climate-induced migration has displaced entire communities, permanently rupturing social networks and traditional ways of life. And scientists warn that the worst effects are yet to come.

The global response to this unprecedented challenge has been woefully inadequate. However, in recent years, there have been early signs of progress. For example, in 2015 nearly every country in the world signed the landmark Paris Agreement, pledging to limit the global temperature rise to 2°C by decreasing their use of fossil fuels, increasing renewable energy, and implementing measures to improve resilience and adaptation.

To meet these ambitious targets, we need to think big. In some cases, thinking big means starting small – that is, de-

veloping new strategies that create social and financial empowerment opportunities at local levels. Social innovation in the energy transition comes in many shapes and forms, from traditional rural energy co-ops to urban green-mobility services. Many promising new initiatives are already underway, driven by the efforts of grassroots climate movements, community energy projects, sustainable start-ups, innovators, and entrepreneurs.

Due to its growing role in climate action, social innovation demands greater attention at the policy level. Policy frameworks must facilitate local-level innovations to encourage an all-hands-on-deck approach to combat climate change. In recognition of this need, we've made social innovation the centrepiece of IKEM Academy 2019.

Join us this summer as we explore the role of innovative citizen-centric solutions in creating a low-carbon future.



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About the Academy

The IKEM Academy is an interdisciplinary, international, and innovative programme organised annually in close collaboration with the University of Greifswald. For nearly two decades, it has served as a leading international forum for highly qualified researchers and professionals who work in energy- and/or climate-related fields. Over the course of the six-day programme, Academy participants participate in creative workshops, tour state-of-the-art renewable-energy installations, and attend presentations and seminars led by internationally renowned experts.

The Academy's teaching faculty consists of leading researchers, professors, industry professionals, and representatives of governments and think-tanks with specialised expertise in the conference topic. In some cases, speakers and participants include executives and policy-makers who once attended the Academy and have a continuing interest in the exchange of expertise made possible by the

programme.

The IKEM Academy, located in Berlin, is open to 25–30 participants who work in the field of energy and/or climate or have a specific interest in the specific programme topic. Applicants are selected based on their academic and/or professional qualifications and must have experience relevant to the topic.

IKEM Academy: Energy & Climate

*Social innovation in the energy transition:
Empowering people through climate action*

Monday

IKEM Academy 2019 participants gather in Berlin for a reception and welcome dinner on Monday, 15 July.

Tuesday

On Tuesday morning, the programme activities kick off

with a short introduction on the energy transition and the need for greater citizen engagement in climate action. In a collaborative workshop, participants and faculty are encouraged to use 'design-thinking' methods to exchange international and interdisciplinary expertise. Participants then visit Feldheim, an energy self-sufficient village on the outskirts of Berlin, where participants have a chance to look behind the scenes at the village's cutting-edge facilities, including its wind farm, biogas plant, solar farm, energy storage system, and woodchip heating plant.

Wednesday

Wednesday is the start of a three-day intensive conference programme led by international and interdisciplinary teaching faculty. The conference begins with a broad overview of the state of climate change and the policy innovations needed to reach our targets. From a discussion of the role of communities in international policy, the focus shifts to the importance of citizens in EU energy and climate policy. After an overview of the different forms of social innovations currently underway, the programme closes with a case study on energy access in Nigeria.

Thursday

On Thursday, the conference begins by highlighting the role of people in the German Energiewende (energy transition). The discussion then turns to creative engagement methods and community participation in energy storage and offshore wind.

In the afternoon, the programme focusses on the innovation potential of carbon-intensive regions. An interactive workshop then engages participants in producing a transition roadmap from coal to renewables.

Friday

The final day of the Academy addresses sustainable cities for an urban perspective on social innovation.

The discussion highlights green energy supply for Berlin and the social innovation opportunities in smart cities and blockchain. Shared solar panels, urban farming, innovative bike infrastructure, and shared e-scooters are then examined in a 'lightning round'. Next, in a panel discussion, speakers provide recommendations for measures to accelerate and achieve the urban energy transition. In the evening, IKEM Academy 2019 concludes with a farewell barbecue for the teaching faculty and participants.



► **Welcome and networking dinner**

Day 1 | Monday 15 July 2019

- 17:00 **Welcome**
Prof. Michael Rodi | University of Greifswald | Director of IKEM
- 17:30 **Introduction of the participants**
- 18:00 Reception dinner

► **Roadmap for social innovation in the energy transition**

Day 2 | Tuesday 16 July 2019

- 9:50 **Energiewende: Germany’s road towards 100% renewables**
Anika Nicolaas Ponder | Team leader | Sustainability & Innovation | IKEM
- Power to the people: Social innovation and the energy transition**
Pauline Horng | Research associate | Sustainability & Innovation | IKEM
- 10:20 ★ **Participatory workshop: Bottom-up drivers and opportunities in the energy transition**
Bernd Riedel | Co-Founder | Ellery Studio for Creative Strategy
- 12:00 Lunch
- 13:00 Bus to Feldheim
- 14:30 **Introduction to Feldheim**
Empowerment through ownership: renewable energy communities
Neue Energien Forum Feldheim
- 15:15 Guided tour of Feldheim
- 17:15 Bus to Berlin

► **Multi-level climate policy:
Energy transition drivers and community inclusion**

Day 3 | Wednesday 17 July 2019

- 09:15 **Welcome address**
Prof. Michael Rodi | University of Greifswald | Director of IKEM
- 10:00 **Policy innovation: Demand-side policy to reach the 1.5°C target**
Paola Parra | Climate policy analyst | Climate
- 10:45 Coffee break
- 11:15 **Are we on track? Implementation of the Paris Agreement and the role of communities**
Arne Riedel | Fellow | Ecologic Institute
- 12:15 Lunch break
- 13:15 **Citizens and the EU energy transition: The Clean Energy Package and beyond**
Mak Dukan | Co-founder & CEO | Starfish Energy (tbc)
- 14:45 **The atlas of social innovation: From energy co-ops to crowdfunding and shared mobility....**
Social Research Center | Technical University of Dortmund (tbc)
- 15:30 Coffee break
- 16:00 **Energy transition and energy access: Social drivers for climate action**
Chibuikem Agbaegbu | Market Access Lead | Power for All
- 16:30 Closing thoughts



► Energy transition, everywhere: Harnessing the power of social innovation

Day 4 | Thursday 18 July 2019

- 09:15 **Citizens at the heart of the energy transition: Challenges and solutions from Germany**
Simon Schäfer Stradowsky | Managing Director | IKEM
- 10:00 **Optimising innovation and creativity: Educational technology for the energy transition**
Gotelind Alber | GenderCC - Women for Climate Justice (tbc)
- 10:45 Coffee break
- 11:15 **Energy storage and citizen involvement: Societal benefits of the neighbourhood battery**
Antonia Proka | DRIFT (Dutch Research Institute for Transitions)
- 12:00 **Offshore wind energy, onshore community benefits:
Case study on the Hiiumaa offshore wind park in Estonia**
Tuuliki Kasonen | Marketing Lead | Sunly
- 12:45 Lunch break
- 13:45 **Energy transition, everywhere: Innovation opportunities in coal intensive regions**
– *Spotlight: Energy transition in the German coal region of Lusatia*
Markus Graebig | Project leader | WindNODE
- 14:15 Coffee break
- 14:45 ★ **Participatory workshop:
Decarbonisation and social innovation roadmap for carbon intensive areas**
Moderated by: Elizabeth Côté | IKEM
Sebastian Kreuz | Technical University of Brandenburg (tbc)
- 16:30 **Presentation and documentation of roadmaps**
- 16:45 Closing thoughts



► Sustainable cities: Social innovation in the urban energy transition

Day 5 | Friday 19 July 2019

- 09:15 **Sustainable cities: Power and potential of urban system transformation**
Ryotaro Bordini Chikushi | General Lead | Infra Lab Berlin (tbc)
- 10:15 **Green Berlin: Innovative urban businesses powered by rural renewable energy**
Philline Wedel | Senate Department for Economics, Energy and Public Enterprises | Berlin (tbc)
- 11:00 **Smart cities: Participatory pathways towards a sustainable urban ecosystem**
– *Insights from the UK, Spain, and Turkey (Remourban project)*
Victoria Blessing | Project manager | Steinbeis Europa-Zentrum
- 11:45 **Blockchain: Participatory financing for an inclusive energy transition**
Sebnem Rusitschka | Founding Researcher | Freeelio
- 12:30 Lunch
- 13:40 ► **Lightning round: Urban innovation and sustainable business models**
-  **Sharing solar: Social housing tenants become prosumers**
Nicolette Fox | University of Sussex (tbc)
-  **Build it and they will come! Innovating bicycle infrastructure**
Matthias Heskamp Radbahn Berlin (tbc)
-  **Start with your plate! Sustainable urban agriculture in Berlin**
Shani Leiderman | Infarm (tbc)
-  **All of the mobility, none of the emissions: Electric scooters in the city**
COUP (tbc)
- 14:40 Coffee break
- 15:00 **Panel discussion with the speakers: How to accelerate the urban energy transition?**
- 16:00 Conclusion of the IKEM Academy 2019





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Organized by: IKEM

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