

Grußwort



Jochen Flasbarth,
President of the Federal Environment Agency,
Germany

In order to avoid dangerous climate change, governments agreed to limit the global temperature increase to below 2 degrees Celsius compared to the preindustrial age. Ambitious greenhouse gas emission reduction targets of industrialized countries are necessary to reach this target. If the required 80 to 95% are to be achieved by 2050, steps have to be taken soon.

The objective of our conference is to bring together international experts to discuss the challenges on pathways towards a greenhouse gas neutral society and to identify different approaches and technical solutions in relevant sectors. We are looking forward to meeting you in Berlin.

Jochen Flasbarth

International Conference Elements of a Greenhouse Gas Neutral Society

10 - 11 October 2013, Germany

Venue

Hotel NH Berlin Friedrichstrasse
Friedrichstraße 96 | 10117 Berlin
Travel information: www.ghgns.eu/organisation.html

Organisers

Federal Environment Agency
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Registration

Attendance is free of charge. Please register online until 9 September 2013: www.ghgns.eu/registration.html

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programme

Day 1 – 10 October 2013	
08:45	Registration
09:30	Welcome and Introduction Jochen Flasbarth, President of the Federal Environment Agency, Germany
10:00	Videotaped message by Rajendra Kumar Pachauri, Chairman of the Intergovernmental Panel on Climate Change (IPCC), Switzerland
10:15	Key note: The Green Economy as platform for lasting climate protection Joseph Alcamo, Chief Scientist of the United Nations Environment Programme (UNEP), Kenya
11:00 to 12:00	Setting the scene Chair: Harry Lehmann, Federal Environment Agency, Germany
	Energy trends world wide – the global energy assessment report 2012 Keywan Riahi, International Institute for Applied Systems Analysis (IIASA), Austria
	Global responsibility of the transport sector David Banister, University of Oxford, United Kingdom
12:00	Lunch break

Forum I – Status quo and approaches in relevant sectors – Parallel Sessions	
13:00 to 14:30	Session I 1 Components of the energy supply based on 100% renewable energy resources Chair: Harry Lehmann, Federal Environment Agency, Germany
	Opportunities for a greenhouse gas neutral energy supply Klaus Müschen, Katja Purr, Federal Environment Agency, Germany
	Power to gas – technology and system operation results Michael Specht, Centre for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW), Germany
	Evolution of transmission systems as precondition for decarbonisation of electricity supply Matthias Müller-Mienack, gridlab GmbH, Germany
13:00 to 14:30	Session I 2 Industrial process related emissions Chair: Bettina Rechenberg, Federal Environment Agency, Germany
	Development of low carbon roadmaps for individual industrial sectors Tom Wyns, Center for Clean Air Policy-Europe (CCAP), Belgium
	Use of Renewable energies, energy management and energy efficiency in energy-intensive industries such as the German foundry industry Manuel Bosse, Institute of Casting Technology (IfG), Germany
	Energy efficiency – utilization of industrial waste heat as an essential part to reduce greenhouse gas emissions Karsten Neuhoff, German Institute for Economic Research (DIW Berlin), Germany
14:30	Coffee break

Forum I continued – Parallel Sessions	
15:00 to 16:30	Session I 3 Components of the energy supply based on 100% renewable energy resources (Session I.1 continued) Chair: Klaus Müschen, Federal Environment Agency, Germany
	Different approaches to a 100 % RE-based electricity supply (archetypical scenarios) Mark Nowakowski, Federal Environment Agency, Germany
	Tapping energy efficiency as a first step in Europe’s low-carbon energy transition Patty Fong, European Climate Foundation, The Netherlands
	Building sector renovation tracks for Europe up to 2050 Kjell Bettgenhäuser, Ecofys Germany, Germany
15:00 to 16:30	Session I 4 Waste & Resources Chair: Marlene Sieck, Federal Environment Agency, Germany
	GHG mitigation potential in the waste management sector in EU27, in the OECD countries and developing countries Regine Vogt, Ifeu GmbH, Germany
	Climate and Clean Air Coalition – ways to reduce short lived climate forcers Christian Müller, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Germany
	Role and potentials of CDM, sectoral approaches and NAMAs in the waste management Bernhard Schenk, KfW Entwicklungsbank, Germany
16:30	Coffee break

Forum I continued – Parallel Sessions	
17:00 to 18:30	Session I 5 Traffic sector Chair: Regine Gerike, University of Natural Resources and Life Sciences, Austria
	One path for a greenhouse gas neutral energy supply in the transport sector Peter Kasten, Öko-Institut e.V. - Institute for Applied Ecology, Germany
	Diversified challenges for the energy transition in the transport sector Martin Schmied, INFRAS, Switzerland
	Power-to-liquid as a new energy option – potentials and difficulties / uncertainties Christian von Olshausen, sunfire GmbH, Germany
17:00 to 18:30	Session I 6 Agriculture & Food Chair: Markus Gandorfer, Technical University of Munich, Germany
	GHG Abatement potentials in the agricultural sector – how to achieve an emission ceiling of 35 Mio t CO₂e? Annette Freibauer, Bernhard Osterburg, Thünen Institute, Germany
	Climate impacts of agriculture and food Gerold Hafner, Stuttgart University, Germany
	Climate relevance of food – which changes in societal values and consumer behavior are necessary? Karl von Koerber, Technical University of Munich, Germany
19:00	Evening reception Pre-dinner speech: The German Energiewende – why our model can serve as a blueprint for other economies Peter Altmaier, Federal Minister for the Environment, Germany

Day 2 – 11 October 2013	
Forum II – Concepts and Challenges – Parallel Sessions	
09:00 to 10:30	Session II 1 Concepts and Challenges – the case: civil aviation and maritime transport Chair: Günther Bachmann, Council for Sustainable Development, Germany
	Efficiency Potential of Photosynthetic Fuel Wolfgang Junge, University of Osnabrück, Germany
	Sustainable energy and fuel options for future aviation Arne Roth, Bauhaus Luftfahrt e.V., Germany
	The zero emission ship – a vision for shipping in the future Ralf Plump, Germanischer Lloyd SE, Germany
09:00 to 10:30	Session II 2 Concepts and Challenges – regional to local scale Chair: Kathrin Werner, Peter Pichl, Federal Environment Agency, Germany
	Local climate protection – benchmarks, partnerships, guidelines for local governments Hans Hertle, Ifeu GmbH, Germany
	City of Neuburg an der Donau: Application of industrial waste heat for district heating systems Manfred Röble, f10 Forschungszentrum für Erneuerbare Energien Neuburg an der Donau gGmbH, Germany Richard Kутtenreich, Stadtwerke Neuburg an der Donau, Germany
	Climate protection in Japan – new approaches and targets after the Fukushima accident Tsuneo Takeuchi, Nagoya University, Japan
	Concepts and challenges for sustainable mobility in London Katharina Kroeger, Transport of London, United Kingdom
10:30	Coffee break
11:00	Wrap up Harry Lehmann, Federal Environment Agency, Germany
11:15 to 12:15	Panel: Setting the train on track Implications of greenhouse gas neutrality on society Chair: Dagmar Dehmer, Journalist Jochen Flasbarth, Federal Environment Agency, Germany Maarten Hajer, PBL Netherlands Environmental Assessment Agency, The Netherlands Martin Kaiser, Greenpeace e.V., Germany Gesine Schwan, Humboldt-Viadrina School of Governance, Germany
12:15	Summary and closing remarks Harry Lehmann, Federal Environment Agency, Germany
12:30	Lunch
13:15	End of conference

The conference will be held in English. English/German simultaneous interpretation will be provided.