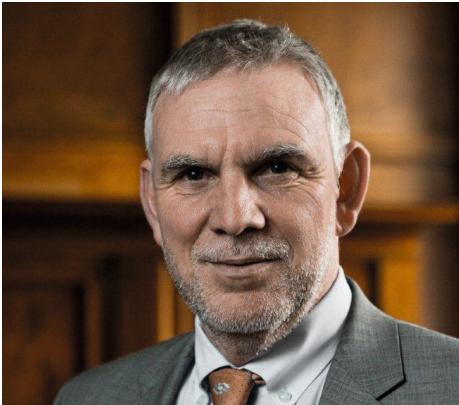


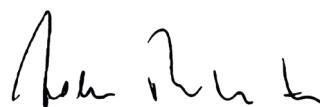
Grußwort

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
Wörlitzer Platz 1 | 06844 Dessau-Roßlau
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Conference Secretariat

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Kalckreuthstraße 4 | 10777 Berlin
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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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meadow: © Christina Liefke, www.leuchtisch.de



International Conference Elements of a Greenhouse Gas Neutral Society

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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

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|----------------|--|
| 15:00 to 16:30 | Session I 3 Components of the energy supply based on 100% renewable energy resources (Session 1.1 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 Gandlerer, Technical University of Munich, Germany |
| | GHG Abatement potentials in the agricultural sector - how to achieve an emission ceiling of 35 Mio t CO ₂ e? 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

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|----------------|--|
| 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 Rößle, f10 Forschungszentrum für Erneuerbare Energien Neuburg an der Donau gGmbH, Germany |
| | Richard Kuttnerreich, 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.

programme