ETH PhD-Academy on Sustainability and Technology 2012

Technical Change towards a Low-Carbon Society – The Role of Institutions and Actors

January 29th – February 3rd, 2012 Hotel Kaubad, Appenzell, Switzerland Swiss Federal Institute of Technology (ETH) Zurich (Switzerland)

Program

Supported by:

Swiss National Science Foundation Mercator Foundation Switzerland oikos Foundation EWZ ABB











Sunday, January 29, 2012

Afternoon Individual arrival of participants at the Hotel Kaubad

(http://www.kaubad.ch)

<u>Train ticket</u>: please buy a one-way. The return to Zurich is organized!

Taxi shuttle times from Appenzell Station to the Hotel: 5pm and 6 pm

19:00 Welcome Dinner

Monday, January 30, 2012

08:00 Breakfast

I. Introduction

09:00-9:30	Introduction to the ETH PhD-Academy	on Sustainability
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and Technology + Introduction round

Tobias Schmidt, ETH Zurich

Getting to know the faculty: Milestones and "the big WHY"?

9:30-10:00 **Jim Watson**

10:00-11:00 Anna Bergek

11:00 Coffee Break

11:30-12:00 Margaret Taylor

12:00-12:30 Volker Hoffmann

12:30 Lunch











Monday, January 30, 2012 (continued)

II. Frameworks on energy innovation and its drivers

14:00-15:00	Paper 1: Socio-Technical assessment of low carbon technologies Charlotte Louise Jensen (Aalborg University, Denmark) Discussants: Wirth, Dr. Bergek, Dr. Watson
15:00-16:00	Paper 2: Towards a strategic framework for promoting markets for environmental innovations Rainer Quitzow (Free University Berlin, Germany) Discussants: Hayashi, Dr, Bergek, Dr. Taylor
16:00	Coffee Break
16:30-17:30	Paper 3: Multiple Paths to the Same Destination: Social Movements, National Political Institutions, and the Emergence of New Organizational Forms Jocelyn Leitzinger (University of Wisconsin, USA) Discussants: Quitzow, Dr. Hoffmann, Dr. Watson
17.30-18.30	Time for bilateral talks or individual activities
19:00	Dinner











Tuesday, January 31, 2012

08:00 Breakfast

III. Policy and institutions

9:00-10:00	Paper 4: The Potential Impact of Carbon, Capture and Storage on

the Diversity of the future UK electricity system Tammy-Ann Sharp (University of Sussex, UK) Discussants: Hünteler, Dr. Hoffmann, Dr. Taylor

10:00-11:00 Paper 5: How Technology-Specific Modes of Knowledge

Accumulation affect the Link between Deployment Schemes and

Innovation

Jörn Hünteler (ETH Zurich, Switzerland) Discussants: Friebe, Dr. Bergek, Dr. Taylor

11:15-16:30 Snow shoe hike & lunch at restaurant Scheidegg

(http://www.scheidegg-ai.ch)

16:30-17:30 Paper 6: Compulsive Policy-Making – The Evolution of the German

Feed-in Tariff System for Solar Photovoltaic Power

Jörn Hoppmann (ETH Zurich, Switzerland) Discussants: Sharp, Dr. Bergek, Dr. Watson

17:30 Introduction to the questions asked by the two companies present

at the corporate day + building of groups

Tobias Schmidt

18:00 Dinner

19:30-21:00 Discussion on the company questions in two parallel sessions











Wednesday, February 1, 2012

08:00	Breakfast
09:00-10:00	Paper 7: Adjustment of feed-in tariff schemes for dynamic photovoltaic technology development Thilo Grau (Climate Policy Initiative (CPI), Berlin, Germany) Discussants: Hoppmann, Dr. Hoffmann, Dr. Taylor
10:00-11:00	Paper 8: Tools in Urban Environmental Governance: Experiences from municipalities requiring sustainable buildings through land allocation agreements Nora Smedby (Lund University, Sweden) Discussants: Vantoch-Wood, Dr. Taylor, Dr. Watson
11:00	Coffee Break

III. Developing Countries & Emerging Economies

11:30-12:30	Paper 9: How we measure Innovation and its effect on Sustainable Development in developing countries Pieter van Heyningen (Stellenbosch University, South Africa) Discussants: Jensen, Dr. Hoffmann, Dr. Watson
12:30	Lunch
14:00-15:00	Paper 10: Role of renewable energy support policies in international transfer of wind energy technologies Daisuke Hayashi (University of Zurich, Switzerland) Discussants: Grau, Dr. Taylor, Dr. Watson
15:00-15:30	Coffee Break
15:30-16:30	Paper 11: The diffusion of technology innovations in challenging environments – the case of Solar Home Systems in bop markets Christian Friebe (European Business School, Germany) Discussants: van Heyningen, Dr. Bergek, Dr. Watson
16:30-18:30	Time for bilateral talks or individual activities
18:30	Dinner











Thursday, February 2, 2012

IV. Actors and Networks

08:00	Breakfast
09:00-10:00	Paper 12: Institutional leverages in technological innovation systems Steffen Wirth (EAWAG, Switzerland) Discussants: Leitzinger, Dr. Bergek, Dr. Hoffmann
10:00-11:00	Paper 13: Comparing levels of network centrality with technology development within the emerging UK wave energy sector Angus Vantoch-Wood (University of Exeter, UK) Discussants: Erlinghagen, Dr. Bergek, Dr. Hoffmann
11:00	Coffee Break
11:30-12:30	Paper 14: Actors from IT and telecommunication sector in the innovation system smart grid Sabine Erlinghagen (EAWAG, Switzerland) Discussants: Smink, Dr. Bergek, Dr. Taylor
12:30	Lunch
	Walk to the "town" of Appenzell or other activites
17:00-18:00	Paper 15: Technical standards as a strategic tool to restrain disruptive innovation? Magda Smink (Utrecht University, Netherlands) Discussants: Smedby, Dr. Hoffmann, Dr. Taylor
18:30	Dinner
20:00-21:30	Roundtable Discussion: What is a Successful Academic and What is the Key for Becoming One?











Friday, February 3, 2012

07:30 Breakfast (please also take a lunch bag)

V. Corporate Day (@ ETH Main Building, Zurich)

9:00 – 11:00	Bus transfer to Zurich
11.15	Introduction to Corporate Day Volker Hoffmann, ETH Zurich
11:30-12:00	ewz: Zurich Municipal Electric Utility Bringing renewables to market Dr. Sophie Wenger, Renewable Energy Trading Dr. Stéphanie Engels, Head of Corporate Development
12:00-12:45	Students' response to initial question and discussion
13:00	Lunch Break on the roof top of ETH's main building (DozFoyer)
14:00-14.30	ABB: the company
	What is needed to successfully change today's power systems to enable the reduction of CO2 Adrienne Williams, Head of Environmental Affairs Prof. Dr. Ing. Jochen Kreusel, Global Head of Smart Grids Program
14.30-15.15	enable the reduction of CO2 Adrienne Williams, Head of Environmental Affairs
14.30-15.15 15.15	enable the reduction of CO2 Adrienne Williams, Head of Environmental Affairs Prof. Dr. Ing. Jochen Kreusel, Global Head of Smart Grids Program
	enable the reduction of CO2 Adrienne Williams, Head of Environmental Affairs Prof. Dr. Ing. Jochen Kreusel, Global Head of Smart Grids Program Students' response to initial question and discussion Concluding Remarks, Feedback, and ETH Certificates









