

EKC2012 - Industry Forum Programme

Korea-EU Energy Policy Forum (08:30 ~ 11:00, 26th July)

Organized by Korea Institute of Energy Technology Evaluation and Planning (KETEP)

11:00 ~ 11:20 Coffee Break

Opening Speech

11:20 ~ 11:50 **Challenges for the Transformation to a Sustainable Energy System**
Prof. Eicke R. Weber, Director, Fraunhofer-ISE

Wind Energy (11:50 ~ 17:10, 26th July)

Session Chair: Dr. Seung-Deog Yoo

11:50 ~ 12:10 **Current Status and Perspectives of Offshore Wind Development in Korea**
Dr. Dong-hee Jung, Director, Presidential Committee of Green Growth

12:10 ~ 12:30 **The Licensing Procedure for Offshore Wind Farms in the German EEZ**
Ms. Simone van Leusen, Desk Officer, Federal Maritime and Hydrographic Agency

12:30 ~ 13:30 Lunch

13:30 ~ 13:50 **The Present State of Offshore Wind Power Industry and National Policy in Korea**
Mr. Jinki Sung, Director, Korea Institute of Energy Technology Evaluation and Planning

13:50 ~ 14:10 **Offshore Foundations**
Prof. Jürgen Grabe, Vice President, University of Technology Hamburg, TUHH

14:10 ~ 14:30 **Development of Substructures for West-South Offshore Wind Farm Project in Korea**
Dr. Daeyong Lee, Senior Research Engineer, RIST Steel Structure Research Division

14:30 ~ 14:50 **Floating Offshore Wind Turbines: Technology Challenges**
Dipl.-Ing. Ricardo Pereira, Germanischer Lloyd Industrial Services GmbH

14:50 ~ 15:10 **Offshore Wind Mapping of Korea**
Dr. Hyun-Goo Kim, Principal Researcher, Korea Institute of Energy Research

15:10 ~ 15:30 Coffee Break

- 15:30 ~ 15:50 **Induced Loads on Offshore-Wind Turbines during the Landing Manoeuvres**
Prof. Moustafa Abdel-Maksoud, University of Technology Hamburg
TUHH
- 15:50 ~ 16:10 **Hyundai Heavy Industries' Wind Power Business**
Dr. Jong-Moon Lee, Principal Researcher, Hyundai Green Energy
Research Institute
- 16:10 ~ 16:30 **YOUR SUCCESS – BASED ON MENCK**
Dipl.-Ing. Peter Bettenworth, Project Manager, MENCK GmbH
- 16:30 ~ 16:50 **Offshore Wind Power Research Activities on Structural Applications**
Mr. Sungho Jang, Project Manager, POSCO
- 16:50 ~ 17:10 **Renewable Energy Hamburg**
Mr. Jan Plewa, International Relations Manager, Renewable Energy
Cluster Hamburg GmbH

Photovoltaic & Biomass Joint Session (17:30 ~ 19:15, 26th July)

Session Chair: Dr. Jong Mun Park and Mr. Hyung Sik Choi

- 17:30 ~ 17:35 **Introduction**
- 17:35 ~ 17:55 **PV Competing in the Energy Sector: Empowering the World!**
Dr. Reinhold Buttgereit, Secretary General, EPIA
- 17:55 ~ 18:15 **Green Technology and CIGS PV Cell Development of SK Innovation**
Dr. Young-Keun Lee, Vice president, SK Innovation
- 18:15 ~ 18:35 **KOSPO Plan for Renewable Energy**
Mr. Ki In Song, Director of Renewable Energy, KOSPO (Korea Southern
Power)
- 18:35 ~ 18:55 **Using Biomass in Conventional Coal Power Plants – An Affordable
Climate Mitigation**
Dr. Hans Dieter Hermes, Director Business Development Biomass,
Vattenfall
- 18:55 ~ 19:15 **Mesoscopic High Efficient Dye-Sensitized Solar Cells**
Dr. Jun-Ho Yum, Laboratory for Photonics and Interfaces, EPFL

Wind Energy (14:30 ~ 18:40, 27th July)

Session Chair: Dr. Seung-Deog Yoo

- 14:30 ~ 14:50 **Romax Wind**
Dr. Yong Duck Kang, Project Engineer, Romax Technology
- 14:50 ~ 16:10 **Face-to-Face Networking Session**
- 16:10 ~ 16:40 **Coffee Break**
- 16:40 ~ 19:00 **Face-to-Face Networking Session**

Photovoltaic (14:30 ~ 16:10, 27th July)

Session Chair: Prof. Hwan Kyu Kim and Dr. Jong Mun Park

- 14:30 ~ 14:50 **The German Photovoltaic Market: Trend and Challenge**
Mr. Jörg Mayer, Managing director, German Solar Industry Association
- 14:50 ~ 15:10 **KIER's Research Activities on CIGS Thin Film Solar Cells**
Dr. Jihye Gwak, Senior Researcher, KIER
- 15:10 ~ 15:30 **New Strategy on Materials Paradigm for Highly Efficient Dye-Sensitized Solar Cells**
Prof. Hwan Kyu Kim, Dep. Advanced Materials Chemistry, Korea University
- 15:30 ~ 15:50 **Effects of Diffusion Barriers on the Properties of the Steel Based Flexible Thin Film Solar Cell**
Dr. Byungjoon Kim, Senior Manager, POSCO
- 15:50 ~ 16:10 **PV Integration into the Local Grid and Intelligent Energy Management for Private Homes**
Dipl.-Ing. Martin Volkmar, SMA Solar Technology AG
- 16:10 ~ 16:40 Coffee Break

Biomass (16:40 ~ 19:00, 27th July)

Session Chair: Mr. Hyung Sik Choi and N.N.

- 16:40 ~ 17:00 **Fraunhofer Innovation Cluster "Bioenergy" - Development of New Utilization Concepts for Biomass**
Dr. Esther Stahl, Senior Researcher, Fraunhofer UMSICHT
- 17:00 ~ 17:20 **Utilization of Biomass for Fuels in Industry and Power Sectors – Related to the Current Korean Situations**
Dr. Won Yang, Director of the Energy System R&D Group, KITECH
- 17:20 ~ 17:40 **Biogas Production and Utilization**
Dr. Stephan Kabasci, Business Unit Manager of Renewable Resource, Fraunhofer, UMSICHT
- 17:40 ~ 18:00 **Korean Wood Pellet Industry**
Prof. Gyu-Seong Han, President of Korea Association of Pellet
- 18:00 ~ 18:20 **Electricity from Biomass**
Dr. Andreas Ortwein, Team Leader Combined Heat and Power Plants, DBFZ
- 18:20 ~ 18:40 **Biodiesel Production from Drought Tolerant Rapeseed Crops**
Dr. Sungkil Park, Senior Manager of Environment & Energy, POSCO
- 18:40 ~ 19:00 **Value-chained Production of biofuels and biobased Chemicals**
Dr. Sangyong Kim, Project director of Renewable Chemical Center, KITECH

PV Poster Presentation (10:30 ~ 12:30, 27th July)

Electroformed Low Thermal Expansion Alloy Foil for Flexible Solar Cell Substrate
Minsu Lee, Yunho Han, Hokyung UM and Tai Hong Yim, KITECH

Novel Tailor-made Hole-Conducting Coadsorbents for Highly Efficient Dye-Sensitized Solar Cells

In Taek Choi, Sang Hyun Song, Myung Jong Ju and Hwan Kyu Kim Dep. Advanced Materials Chemistry, Korea University

EU Research Project LARGECELLS – Large-area Organic and Hybrid Solar Cells

Mukundan Thelakkat, Applied Functional Polymers, University of Bayreuth

New Ruthenium Sensitizers for Dye-sensitized Solar Cells in Co Electrolyte

Il Jung, Laboratory for Photonics and Interfaces, EPFL

Future Critical Materials and Land Use Requirement for Photovoltaic (PV) and Wind Energy System in EU 27

Junbeum Kim and Bertrand Guillaume, CREIDD Research Centre on Environmental Studies & Sustainability, Univ. of Technology of Troyes

Business Feasibility of Building Applied PV in South Korea from an Entrepreneur's Perspective

Byungguk Hwang, Global Production Engineering of Solar Technology, Technical Univ. of Berlin