## List of Power Point® Presentations (in pdf)

I. CO <sub>2</sub> Emissions by Energy Use: Present Situation & Measures for Reduction	Print page
Máximo Luiz Pompermayer, Superintendência de Estudos e Informações Hidrológicas, Agencia Nacional de Energia (ANEEL) Competência e Atuação da Agência Nacional de Energia Elétrica na Área de Fontes Renováveis, Eficiência Energética e Meio Ambiente	
Emilio Lebre La Rovere, Federal University of Rio de Janeiro, Brazil <i>Sustainable Energy and Climate Change</i>	5
Rui Antonio Alves da Fonseca, PETROBRAS, Rio de Janeiro, Brazil Petrobras – Business and Environment	7
Fernando Peregrino, FAPERJ, Rio de Janeiro, Brazil RIO 02 - The Rio Clean Development	15
Mauricio T. Tolmasquim, Federal University of Rio de Janeiro, Brazil  The Brazilian Energy Matrix and Greenhouse Gas Emissions	21
Loftur R. Gissurarson, Thorlakur Björnsson, Reykjavik Energy, Iceland <i>Implementation of green bookkeeping at Reykjavik Energy</i>	31
Giovani Vitória Machado, Roberto Schaeffer, Federal University of Rio de Janeiro, Brazil	
Energy Embodied in International Trade: The Case of Brazil	41
II. Solar Energy Conversion	
Adolf Goetzberger, Fraunhofer Institute of Solar Energy (ISE), Germany Applied solar energy	51
Thomas Hamlin, United Nations Environmental Programme, Nairobi, Kenya Solar and Wind Energy Resource Assessment (SWERA)	73
Jörg-Dieter Anhalt, Institute for Sustainable Development and Renewable Energies, Fortaleza, Brazil  The Solar Home System and its Adequate Design to Sarra the End Home	
The Solar Home System and its Adequate Design to Serve the End User (How should a SHS look like? - A comparison in practice)	95

Stefan Krauter, Fabian Ochs, Thomas Depping, Federal University of Rio de Janeiro, Brazil	
An All-in-One Solar Home System Satellite Monitoring of Remote PV-systems	101
Carsten Hafermann, Solon AG, Berlin, Germany Innovative German Approaches in BIPV	115
III. Hydro & Wind Energy	
Luiz Pinguelli Rosa, Marco Aurélio dos Santos, Bohdan Matvienko, Elizabeth Sikar, Federal University of Rio de Janeiro, Brazil <i>Hydroelectric Reservoirs and Global Warming</i>	123
Ciro Ruiz, Wobben Windpower, São Paulo, Brazil Wind Energy in Brazil	137
IV. Architecture and Urbanism	
Manfred Köhler, University of Applied Sciences Neubrandenburg, Germany Marco Schmidt, Michael Laar, Stefan Krauter, Ulrike Wachsmann Photovoltaic Panels on Greened Roofs - Positive interaction between two elements of sustainable architecture	151
John W. Spears, International Center for Sustainable Development, Gaithersburg, USA; Larry Hill, East West Center, Honolulu, USA Design of a Model Sustainable Village: Guanghan, Sichuan Province, China	164
Suzana Gueiros Teixeira, Federal University of Rio de Janeiro, Brazil <i>Urban Strategies and Product Design Improvements</i>	175
V. Sustainable Development	
Jörg Dieter Anhalt, Institute for Sustainable Development and Renewable Energies, Fortaleza, Brazil Sustainable Implementation of Solar Home Systems in Rural Areas in the Northeast of Brazil	183
Dirk Wolters, Wuppertal Institute, Wuppertal, Germany Regional strategies for energy innovation, climate protection and job creation	191
Alexandra Lichtenberg, Consultant on Sustainable Architecture, Rio de Janeiro, Brazil	
The Next Revolution - Feasible Sustainable Development	207

## VI. Transport & Mobility

Márcio R.A. Schettino, Metropolitan Company of Urban Transport of São Paulo, Brazil	
Environmental strategy for energy: hydrogen fuel cell bus for Brazil	217
Francisco E. Mendes, Lilia Szwarcfiter, Cláudia do Valle Costa, Federal University of Rio de Janeiro, Brazil  Car fleet renewal: CO <sub>2</sub> emissions and ancillary benefits	225
João Eudes Touma, Gerente Executivo da Unidade de Conservação de Energia, Energia Renovável e Suporte, CONPET, PETROBRAS <i>Economizar: A Fuel Stewardship Project</i>	235
VII. Social and Political Implications	
Olav Hohmeyer, University of Flensburg, Germany The Social Costs of Energy Consumption	243
Dirk Wolters, Wuppertal Insitute, Germany The contribution of renewable energy sources and rational use of energy to economic development	257
Gunnar Boye Oelson, Michel Kvetny, Emilio Lebre La Rovere, International Network for Sustainable Energy INFORSE  Sustainable Energy Vision 2050 - a proposal to achieve a sustainable energy system, following our environmental and social imperatives	269
Adelino Ricardo Jacintho Esparta, Auad Atala Jr., Carlos de Mathias Martins Jr., Ecoinvest Assessoria Ltda., São Paulo, Brazil	077
Brazilian Greenhouse Gases emission baselines from electricity generation	275
VIII. Examples for Financing	
Gilberto Velazquez, Autonomous University of the City of Juárez, Mexico. <i>Emission trading opportunities in an international airshed.</i>	281
Irving Mintzer, University of Maryland, USA Capacity Building: Opportunities and Challenges for CDM in Brazil	285
Simon Worthington, BP Solar, Rio de Janeiro, Brazil  Creative Partnerships for Sustainable Energy Projects in Brazil	287

## **IX. Planning Tools**

Giorgio Beccali, Maurizio Cellura, Mariana Mistretta, Energy Department, University of Palermo, Italy

A Decision Support System Software based on multi-criteria Analysis for the Selection of Urban Sustainability Scenarios

301