

1030	Welcome coffee	
1100	Welcome address	Silvia Bardi, IEEE Power and Energy Society, Switzerland
1110	100% fossil free or 100% climate disaster?	Elmar Grosse Ruse Project Leader Climate and Energy, WWF Elmar Grosse Ruse highlights the diverse implications for policy and regulation
1150	The impacts of climate change on power networks (adaptation and resilience strategies)	Dr Ruth Wood Senior Lecturer in Environ. & Climate Change, University of Manchester, UK Dr Ruth Wood discusses adaptation and resilience strategies for networks
1230	The path to decarbonisation – Example from the city of Basel	Markus Balmer Head of Sales and member of the Executive Board, IWB Markus Balmer outlines steps being taken by utility IWB as it transforms Basel's heating system
1310	Networking lunch provided by IEEE Switzerland	
1410	Shore-to-ship power and port electrification: paving the way to zero emission terminals	Roberto Bernacchi Global Product Manager for Grid Interties in ABB Power Grids – Grid Integration Reberto Bernacchi describes how zero emission terminals achieve a reliable power supply for a smooth 24/7 operation of the terminal
1450	Methane, Meat and Money: Low emission strategies for the Swiss agriculture and food sector.	Daniel Bretscher Researcher, Agroscope / UNFCC Daniel Bretscher explores how emission reductions can be achieved via technical, production or consumption measures
1530	Coffee	
1540	Zero Emission Construction Sites with Electrified Machines	Stefan Schneider CEO SUNCAR HK AG Stefan Schneider describes the first local zero emission construction site
1620	Climate finance and carbon markets as instruments for decarbonisation	Pablo Fernandez Executive Director, Ecorescurities Pablo Fernandez describes climate finance and carbon markets as instruments for decarbonisation
1700	Closing keynote	Rolf Wüstenhagen Academic Director, Executive Education Programme in Renewable Energy Management (REM-HSG)
1740	Closing remarks	Ben Bowler, Chair, IEEE Switzerland Power and Energy Society
1800 - 2030	Networking apero	

Biographies of speakers



Elmer Grosse Ruse
Project Leader Climate and Energy, WWF

Elmar Grosse Ruse is project manager for energy and climate policy at WWF Switzerland. He has been working on energy policy and climate change at the German, Swiss and European level for several years. He studied psychology with a major in environmental psychology and environmental economics in Bonn, Edinburgh and Bochum.



Ruth Wood
Senior Lecturer in Environ. & Climate Change, University of Manchester

Dr Ruth Wood is a Senior Lecturer in Environment and Climate Change, a Research Fellow with the Tyndall Centre for Climate Change Research and Co-Director of the EPSRC Power Networks Centre for Doctoral Training. Her research interests include developing and applying emissions and energy accounting methods to different sectors and spatial scales; the development of scenario tools for use in interdisciplinary projects; the relationship between society and infrastructure and its effect on both resource demand and resilience to future climate change impacts.



Stefan Schneider
CEO SUNCAR HK AG

Stefan Schneider received a MSc. in mechanical engineering at ETH Zurich in 2015. At 2011 he worked in a student project converting a Lotus Evora to a battery electric supercar. Since then he focussed his study on electrifying vehicles and machines. As an entrepreneur he leads the SUNCAR HK AG, founded in 2015, which mainly converts construction machines, utility and municipal vehicles from diesel engine to a battery electric drivetrain. For the first battery electric 16t excavator, developed by SUNCAR HK AG, he received the Swiss and European solar prize.



Roberto Bernacchi
Global Product Manager for Grid Interties in ABB Power Grids – Grid Integration

Roberto Bernacchi, Global Product Manager for Grid Interties in ABB Power Grids – Grid Integration business unit, is one of the most experienced professionals in electrification solution for green and sustainable ports. During his ten years long career in ABB, he has been a key person in developing static frequency converter based innovative solutions for various applications: from shore-to-ship power to battery energy storage, utility and industrial grid connection solutions, MVDC and power quality systems. Roberto Bernacchi joined ABB as Area Sales Manager for Power Conversion business and has held various sales and business development roles since then.

He has a Masters degree in Electronics Engineering from Politecnico di Milano in 1999 and he is now responsible for solution development and portfolio management for ABB Grid Interties, including sustainable transportation solutions in ports.



Daniel Bretscher
Researcher, Agroscope / UNFCCC

Daniel Bretscher holds a degree in Biology from the University of Basel, with a specialisation in Climate Change Biology. He furthered his education with courses in sustainable agriculture in South America and joined various international cooperation projects. He is currently employed at Agroscope, the research institute of the Swiss Ministry for Agriculture, where he is responsible for the greenhouse gas inventory of Swiss agriculture. In this function he also serves as agricultural expert for the UNFCCC.



Pablo Fernandez holds a MSc diploma in Energy and Environmental Planning at UFRJ, Brazil and an MBA at Business School Lausanne (BSL), Switzerland. He has over 15 years of international experience on climate change, carbon markets and climate finance. During this period he worked and lived in South America, South East Asia and Europe supporting project developers and investors.

Ecorescurities is a company with more than 20 years on carbon markets, climate policy and environmental finance. EcoSecurities works with companies in developing and industrialising countries to create carbon credits from projects that reduce emissions of greenhouse gases. EcoSecurities has experience with projects in the areas of renewable energy, agriculture and urban waste management, industrial efficiency, and forestry. Ecorescurities support the project development with technical and financial services.



Dr. Rolf Wüstenhagen is Professor for Management of Renewable Energies at the University of St. Gallen. Prior to his academic career he has been working with one of the leading European energy venture capital funds. He has held visiting faculty positions at University of British Columbia in Vancouver, Copenhagen Business School, National University of Singapore and Tel Aviv University. From 2008-2011 he served as a lead author of the Intergovernmental Panel on Climate Change (IPCC) special report on the role of renewables in climate change mitigation. From 2011-2015, he was a member of the advisory board of the Swiss Federal Government for their Energy Strategy 2050, which was adopted by 58% of the population in a May 2017 referendum. Dr. Wüstenhagen is the academic director of the executive education programme in Renewable Energy Management (REM-HSG).

<http://www.iwoe.unisg.ch/en/LehrstuhlManagementEE>
<http://www.es.unisg.ch/rem>



Markus Balmer is responsible for the business area Sales at IWB (account management, product management & development, energy consulting, digital business) and member of the executive board. He holds a PhD in energy economics and a master's degree in environmental sciences both from ETH Zurich.