



## LECTURERS OF THE TUTORIAL



### **Thomas Ackermann** (Energynautics, Germany)

Thomas Ackermann Ph.D. is owner and CEO of energynautics with over 25 years of world-wide experience in the area of grid integration of renewables and electric vehicles. He provides research and consultancy services to the energy industry, especially regarding power system integration of renewable energies and innovative energy applications, as well as in the area of energy policy, i.e. deregulation of energy markets. He is frequently involved in consulting activities for government departments and electricity service providers on the matter of power system design and operation, as well as regulatory matters and grid code issues. He has successfully completed projects in Australia, Barbados, Chile, China, Costa Rica, Denmark, Germany, Estonia, Guatemala, Honduras, India, Indonesia, Japan, Malaysia, Mongolia, New Zealand, Philippines, Seychelles, Sweden, Thailand, Vietnam and USA. In addition, he is actively involved as lecturer at Universities and within capacity building courses in the dissemination of knowledge about the integration of renewable energies into existing power systems around the world.



### **Peter-Philipp Schierhorn** (Energynautics, Germany)

Peter-Philipp Schierhorn studied Electrical Engineering at the Technical University of Darmstadt and has been employed at Energynautics since 2014. Mr. Schierhorn possesses considerable expertise in transmission grid and power system global issues such as generator dispatch, electricity markets, system services and system optimization using various software tools, as well as detailed knowledge of the properties of conventional generation. At Energynautics, he was involved in a number of studies in Central America, India and South East Asia and is experienced in working in developing countries and with small island power systems. Mr. Schierhorn has been responsible for multiple island grid studies on islands in Indonesia, Galapagos and the Bahamas. He is an expert user of HOMER Pro and DigSILENT PowerFactory and possesses considerable expertise in the field of hybrid systems including diesel, PV and battery storage.



### **Nicholas Miller** (HickoryLedge, USA)

Nicholas Miller is Principal at HickoryLedge and a retired Senior Technical Director from GE Energy Consulting. He has over thirty years of experience on integration of new technologies into bulk power systems. He has lectured on Wind and Solar Power integration to governments and institutions in more than two dozen countries. He holds twenty US patents for wind or solar technologies, and power control devices. Nick is a Fellow of IEEE, New York Professional Engineer, and has authored over 150 technical papers and articles. He holds a B.S. and M.Eng. in Electric Power Engineering from Rensselaer Polytechnic Institute, Troy, New York, received in 1979 and 1980.



**Johannes Weide** (SMA Sunbelt Energy GmbH, Germany)

Head of Solutions Management SMA Sunbelt

Johannes is responsible for Sunbelts product portfolio, from sizing and monitoring software through battery containers and network components. Johannes activities cover utility scale grid connected battery systems and hybrid projects on islands. Some projects worth mentioning include the 50 MW Pelham project and the 66 MW Big Battery Lausitz project.

Johannes has worked in the energy storage industry since 2010 and has experience in the engineering, development, construction and commissioning of storage and solar projects in both commercial and utility scale markets worldwide. He's passionate about the latest technical developments in the solar and storage sector and its integration into the grid.