



## **On-line Training of Stakeholders on Digitizing Industrial Motor Systems for Energy Efficiency**

December 6 – 10, 2021

### **Trainer Profiles**

#### **Lead Trainer:**



**Mr. Hu Bo, *Top10 China***

Hu Bo started his career by working for China Standard Certification Center in the field of energy efficient product certification, standardization, labeling, green government procurement and sustainable consumption and production. From November 2009, he moved to Top10 China as technical manager until now. He took in charge of top energy efficient products study for household appliances, office equipment and cars. His work covers testing, standardization and market research. He started his motor work at CSC from a market transformation project for higher efficient motor in 2007. He continues his motor work by introducing Topmotors from Switzerland to China. He works for Topmotors Zhenjiang pilot project from 2014. He transferred Swiss motor training facility PumpDemonstrator to China and develop an innovative digitalized China version. He also localizes Topmotors training materials with the support of SDC.

#### **Co-Trainers:**



**Mr. Conrad Brunner, *CUB, Switzerland***

Conrad U. Brunner got his diploma at the ETH in Zurich in 1966 and completed a Master degree at the University of Pennsylvania. He has been working since 1974 in energy efficiency. He was involved in launching the Swiss Agency for Efficient Use of Energy (S.A.F.E.) and of the international Topten program for efficient appliances. Since 2004 he has been engaged in energy efficiency project, research and policy work in industry. He has been an expert for the development of

Ecodesign regulations of motors, pumps and fans. In 2014, he founded together with Rita Werle and Rolf Tieben the international consultancy Impact Energy in Zurich and is its president of the board. He is responsible for the Task International Standards in IEA 4E Electric Motor Systems Annex. He is active in IEC TC2 motors and SC 22G converters as well in the IEC Advisory Committee of Energy Efficiency (ACEE) and involved in a variety of national Swiss and international efficiency projects in China and India around efficient electric motor systems.



**Mr. Rolf Tieben, *Impact Energy, Germany***

In 2010 Rolf Tieben has received his diploma as a Mechatronic Engineer at the Technical College Wilhelmshaven (D). In 2012 he joined S.A.F.E., the Swiss Agency for Efficient Energy Use, focusing on electric energy efficiency in industry. In 2014 Rolf Tieben and his colleagues Rita Werle and Conrad U. Brunner established the company Impact Energy ([www.impact-energy.ch](http://www.impact-energy.ch)), of which he is a member of the board. Impact Energy is an independent consultancy, concentrating its field of work on energy efficiency in the industry, commercial and agricultural sectors in Switzerland, but also engaging in projects worldwide.



**Ms. Rita Werle, *Impact Energy, Hungary***

Ms. Rita Werle has completed economy studies in Hungary - her native country. She worked for the Joint Research Centre of the European Commission in Italy during 2009 and joined Topmotors in 2010. She has since worked on the topic of electric energy efficiency in industry. In 2014 Rita Werle, Conrad U. Brunner and Rolf Tieben established the company Impact Energy, of which Rita is Managing Director. Rita coordinates with Maarten van Werkhoven as Operating Agent the 4E Electric Motor Systems Annex. She is involved in several other Swiss and international projects related to motor systems efficiency.



**Prof. Dr. Andrea Vezzini, IEC TC member, Switzerland**

Prof. Andrea Vezzini received 1996 a PhD in Electrical Engineering from ETH Zürich, Switzerland and successfully completed in 2002 the program for Mastering Technology Enterprises (MTE) at IMD Lausanne. He is Professor for Industrial Power Electronics at Bern University of Applied Sciences since 1996 and was visiting Professor at GM Advanced Technology Centre in 2003 and Distinguished Visiting Scientist at CSIRO Australia (Commonwealth Science and Industrial Research Organization) in 2007. Currently Prof. Dr. Andrea Vezzini holds the position of Head of the BFH-CSEM Energy Storage Research Center and Deputy Head of the Swiss Competence Center for Energy Research (SCCER) Mobility. Since Beginning of 2015 he is member of the Federal Energy Research Commission (CORE). Since 2017 he is a member of the 4E Electric Motor Systems Annex for Switzerland.\



**Colin Taylor, CLASP, USA**

Mr. Colin is a Manager on the Climate team, leading impacts modeling and financial mechanisms to support market transformation for cooling and beyond. He brings over seven years of energy efficiency and finance experience. Prior to joining CLASP, Colin lived in Jamaica where he co-founded a consulting business focused on clean energy policies and projects. He holds a B.A. in International Politics & Economics from Middlebury College and an M.A. in International Economics and Energy, Resources, and Environment from Johns Hopkins University's School of Advanced International Studies. Outside of work, Colin enjoys traveling to find the best hiking trails and camping spots.



**Lokesh B M *R&D Hub Manager India, ABB Motion IEC motor division, India***

Mr. Lokesh BM is Vice President of R&D Hub & Engineering Manager in ABB India Ltd. Bangalore. He has Completed BE in Electrical & Electronics Engineering from Mangalore University. He has over all 23 Years of experience in Design & Development of 3 Phase Induction Motors. He Started his career in Kirloskar Electric company as a management trainee & served in Design & Engineering of 3 Phase induction motors for 6 Years. He Joined ABB Bangalore in 2005 for new Low Voltage motor plant project & now as on date heading R&D and Engineering team for IEC low Voltage Motors, India based in Bangalore.



**Mr. Teijo Karna, *Product manager, ABB motion Service division, Finland***

Mr. Teijo Karna is a Product Manager at ABB Motion Service Division, Finland. He has completed BSc in mechanical engineering. He has 25 years of experience in ABB. His areas of expertise include Electrical Motors and Frequency Converters in different Sales, Project and Service management roles. He also long experience in Wind power and other Renewable energy segments.



**Mr. Liu Ren, CNIS, China**

Liu Ren is an associate researcher from the China National Institute of Standardization (CNIS). His research covers mandatory and voluntary industrial equipment energy efficiency standards, public quality inspection projects, and national infrastructure projects. He is deeply involved in energy management, technical consulting projects, and R&D projects supported by national funds. He takes the lead and participates in developing more than 10 national mandatory energy efficiency standards for industry equipment and energy monitoring and management. He is also active in international collaboration initiatives, such as APEC EGEEC secretary and G20 EE Hub secretary. Before joining CNIS, he worked as the China Quality Certification Centre engineer in a wide range of subjects, including testing, reporting, research, and certification. Liu Ren got his doctoral degree from the Beijing Institute of Technology, and he studied as a postdoctor at Tsinghua University.