

Prof. Minxiao Han, the Principal Investigator at the Chinese side, is the director of Flexible Electric Power Institute of North China Electric Power University. He started his professional electrical engineering career since 1987. He has been a cooperating Ph.D. candidate at Queen's University of Belfast, U.K. and post doctoral researcher at Kobe University, Japan. He has been the PI in the projects consigned by National Nature Science Foundation of China, National Educational Ministry, and Enterprises. He is active in professional society activities and international cooperation. He is a member of National Power Quality Standard Committee, the member of IEEE and CSEE. He is the leading researcher in the projects cooperated with Canada, U.S.A. and Japan and in the field of power electronics application in power system. He has more than 80 referred papers, 4 national patents and 5 openly published books.



Following are the three major projects he was in charge of in the past 2 years:

- 1) Distributed Autonomous Control for multi-terminal HVDC, project from National Science Foundation of China (Project ID: 51177044).
- 2) Modeling and parameters identification of HVDC System, project from State Grid of China (Project ID: SGCC-MPLG019-2012).
- 3) Integration of offshore wind generation to power network through HVDC, project from MOST of China (project ID: 2009BAA22B01).

Main scientific publications (up to 10) in the last five years related to the application:

- Hui Ding, A.M. Gole, Yi Zhang, **Minxiao Han**, "Analysis of Coupling Effects on Overhead VSC-HVDC Transmission Lines From AC Lines With Shared Right of Way", *IEEE Transactions on Power Delivery*, Vol. 25, No. 4, OCTOBER 2010
- Ding, Hui ; **Han, Minxiao** ; Xiao, Xiangning ; Chen, Xiuyu, "Fundamental frequency electromagnetic induction boundary condition analysis of VSC-HVDC system with paralleled AC transmission lines", *Transactions of China Electrotechnical Society*, Vol. 25, No.5,2010
- **Han Minxiao**, A Review on Smart Grid Control Technology, *Science & Technology Review*, Vol.28, No.23, Dec. 2010
- Chen, Xiuyu ; **Han, Minxiao** ; Liu, Chongru, "Impact of control modes on voltage interaction between multi-infeed AC-DC system", *Automation of Electric Power Systems*, Volume: 36 Issue: 2, 2012
- Chen, Xiuyu ; **Han, Minxiao** ; Liu, Chongru, "Impact of control modes on voltage interaction between multi-infeed AC-DC system," *Automation of Electric Power Systems*, Volume: 36, No.2, January 25, 2012.
- Fan, Yuanyuan ; **Han, Minxiao** ; Liu, Chongru ; Ding, Hui ; Chen, Xiuyu, "A coordinated control strategy for HVDC sending system under islanded hydropower station", *Automation of Electric Power Systems*, Volume: 36, No. 7, July 2012.
- Xiuyu Chen ; Gole, A.M. ; **Minxiao Han** , "Analysis of Mixed Inverter/Rectifier Multi-infeed HVDC Systems", *IEEE Transactions on Power Delivery*, Vol.27, No.27, Jul 2012.
- Chen, Xiuyu ; **Han, Minxiao** ; Liu, Chongru ; Gole, Ani.M., "System strength evaluation of multi-infeed HVDC system integrated with rectifier stations", *Proceedings of the Chinese Society of Electrical Engineering*, Vol.32, No.1 January 5, 2012.
- **Minxiao Han**, Hailong Wang and Xiaojiang Guo, "Control Strategy Research of LCC Based Multi-terminal HVDC System", *Proceeding of POWERCON, IEEE PES, Auckland, New Zealand, Oct. 2012.*
- **Minxiao Han**, Jun Wen, Yonghai Xu, "Principle and Operation of HVDC", *Chinese Machine Press, First Issue, 2009, Second Issue, 2013.*