

## Wind Power Grid Integration Training of the Eighth Training Abroad for Senior Executive on New Energy



German local time, June 18, the trainees of the Eighth Training Abroad for Senior Executive on new energy continued their courses in Aachen, Germany. Mr. Markus Poeller from DIgSILENT Company gave a lecturer on wind power grid integration.

DIgSILENT Co., Ltd. is a company engaged in the development and technical support of power system analysis and value management software, measurement systems, consulting and research. It carried out a lot of researches concerning wind power grid integration in Europe, Australia, and Africa, etc. Mr. Markus Poeller introduced Europe wind power development status, development goal for 2020, and policies supporting the wind power industry. Moreover, he presented the basic principle of the transition from wind power to energy, wind turbine theory and different types of turbines, with special focus on reactive control doubly-fed wind turbine and transmission drive wind turbine. Moreover, he analyzed wind power grid integration's effects on transmission capacity of the electric transmission line, operation voltage, short-circuit current, electric power quality and so on, which brought out the higher requirements and relative measurements of wind power grid integration from the power grid aspect.

Until 18th, June, after four days centralized training in Aachen, the first phase of training focusing on wind power development in Germany and Europe, wind power grid integration technology regulations, grid integration testing, construction of certification system, wind turbine technology development, the adjustment of power grid was successfully completed. German local time 19<sup>th</sup>, June, Trainees took the bus travelling 400 kilometers long and arrived at Bremen, a northern city in Germany, and began the second phase of training focusing on offshore wind farms.