

FEIAP ENGINEER OF THE YEAR AWARD 2018

Prof. Guo Jianbo



Member of Chinese Academy of
Engineering (CAE)
Chairman of China Electric Power Research
Institute (CEPRI)

Prof. Guo Jianbo is a member of the Chinese Academy of Engineering (CAE), a renowned expert on power system analysis and control, and a PhD supervisor. He is currently Chairman of China Electric Power Research Institute (CEPRI), Chairman of Power System Professional Committee of Chinese Society for Electrical Engineering (CSEE) and Director of State Key Laboratory of Operation and Control of Renewable Energy & Storage Systems in CEPRI.

Prof. Guo Jianbo has been dedicated to the clean use of energy and the development of environmentally friendly power grid. He has long engaged in power system analysis & control. He has made remarkable achievements in power grid planning, improving security, reliability and transfer capability of power grid, and security of wind power integration. As the principal investigator, he participated in Chinese National Programs for Three Gorges Power Transmission Project and many other important grid planning studies. He presided over the development plan for Chinese National Grid Interconnection Project (from 2020 to 2050). He successfully developed Thyristor Controlled Series Compensation (TCSC) and UHV series compensator (1000kV) with proprietary IPR. Under his leadership, his team developed the cross-regional AC/DC coordinated control system, which dramatically enhanced power grid's security, reliability and transfer capability in China. He made significant technical breakthroughs in electrical engineering. He also contributed remarkably to power grid security for wind power integration, in which he supervised the establishment of Chinese National Wind Power Integration R&D and Test Center (NWIC), which provides a public R&D and Test platform for power industry.

In addition, under the leadership of Prof. Guo Jianbo, CEPRI initiated four IEC Technical Committees and assumed the responsibility of the Secretariats, and actively pursued technical exchanges and strategic win-win cooperation with international research institutes and companies including EDF R&D, NCAR, ADI, etc. He had taken important positions in IERE and other international

organizations, and provided technical consulting services and support for the development of power industry in the Philippines, Malaysia, Mongolia and other countries and regions, and made great contributions to grid interconnection, technical exchanges and standardization between China and other Asia-Pacific regions and countries.