



Department of Electrical Engineering,
Tsinghua University



History and Facts

Department of Electrical Engineering (D EE) of Tsinghua University, founded in 1932, is one of the three earliest engineering departments since the foundation of the university.

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Academic level

First place in the QS World University Rankings, 2020-2021, Asia's Best University 2020

students in the

comprehensive doctoral students (including

Japanese doctoral students (international doctoral students))

Undergraduates



Graduates

393 doctoral students (including 70 part-time students)

180 master students (including 42 part-time students)



Faculty

Faculty members 102

11 fellows of CSE, CCSE, TSE, EE, and 29



Alumni

19,000+ students

860+ faculties and staffs, 340+ post-docs

20,000+ in total

Organization

Research

Facing the major needs of the country, we achieved a number of important scientific innovation achievements.

Key Materials and Power Electronics Equipment



High voltage technology and power equipment

Intelligent dielectric materials and DC key equipment

High



Non-invasive detection for the testing of subsea oil and gas pipelines

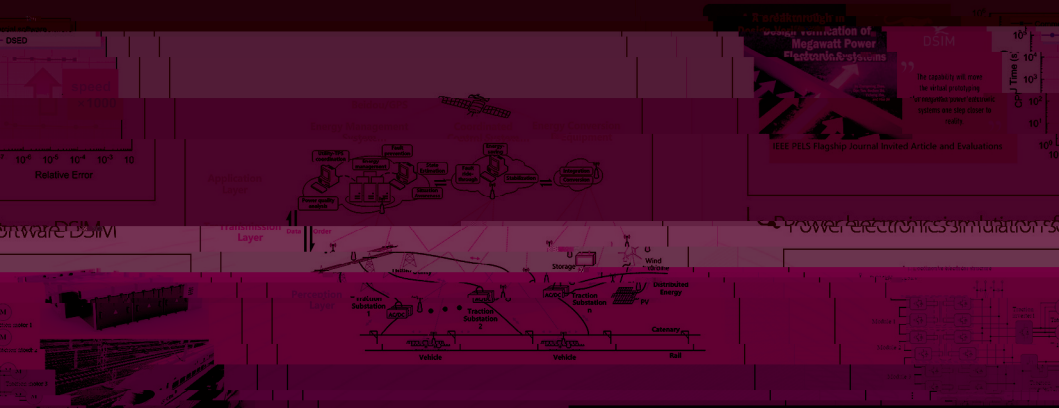
Storage section

Data analysis

Detection

Test

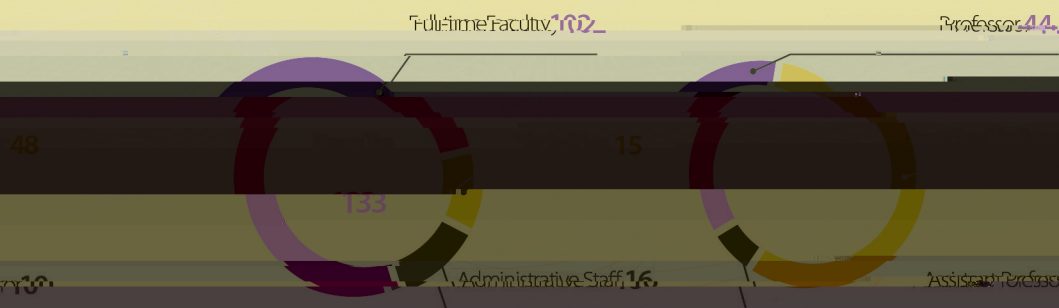
Power Electronics Simulation



Complexity of cultural information in a naturalistic environment



Faculty and Staff



11 Research teams have been founded since 2017, covering all related areas of power engineering and energy conversion



Prof. Dong Mingwei Safe control and efficient operation of modern power system

Prof. Min Pengyuan Analysis and operation of new energy power system

Prof. Nan Jingqiang Energy market and planning operation

Prof. Sun Hong Energy management systems of energy



Prof. Dong Xinzhou Power system protection

Prof. Zhao Zhongming Large capacity power collection and new power transmission

Prof. Peng Xianglong Anti-knock power conversion and electrified transportation

Prof. Bai Jie Systematization of AC and DC



Prof. He Shiliang Advanced electromagnetic materials and systems

Prof. Zhang Xintong High voltage technology and equipment

Prof. Huang Songming Electromagnetic testing and equipment safety evaluation

Teaching

Enrollment...

- "Energy Internet" is an undergraduate degree, including 15 in the Energy Internet International Class. All course requirements are identical with the existing education program of Electrical Engineering and...

50 Master's students (Energy Internet) and about 80 Doctoral students (Electrical Engineering).

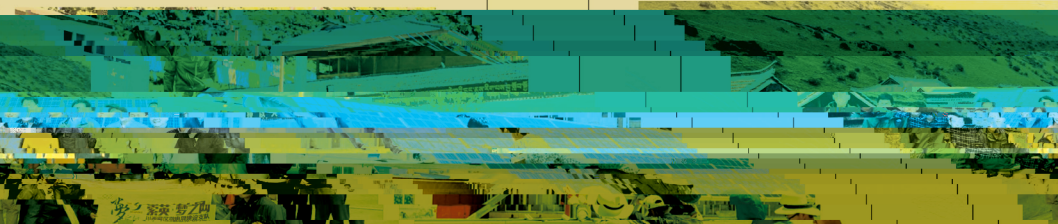
Online Teaching

- DEE has developed a **new International Energy Internet Program**, dedicated to cultivation of future, top-profile innovation leaders with international vision in the energy field.
- DEE fully adopts a **mixed-mode teaching** mode, besides offering the first MOOC (massive open, online courses) of Principles of electric circuits in China.
- The online teaching team of the Department of Electrical Engineering was awarded the "Innovation Group of Tsinghua University" in 2020.

"Dream Network" Project

- Since 2014, students from the Department of Electrical Engineering have initiated the "Dream Network" project to **aid** the poor areas and **solve** the problem of electricity shortage, which was reported by several central media.

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Group photo of the volunteer work team.

The "Dream Network" project has been widely reported.

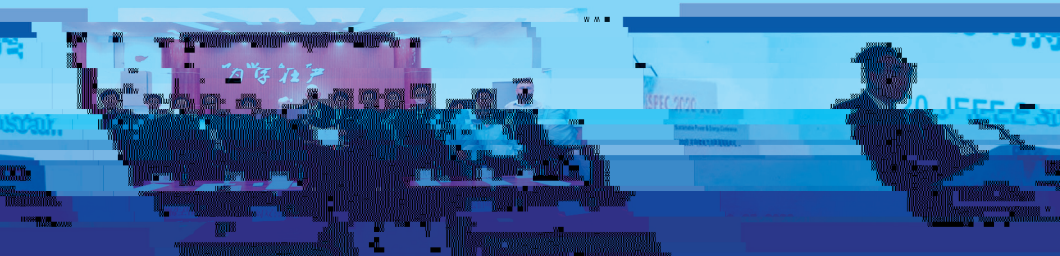
International Cooperation

- The Institute has established a network of cooperation with international academic, the core is a system to visiting institutions, journals and conferences



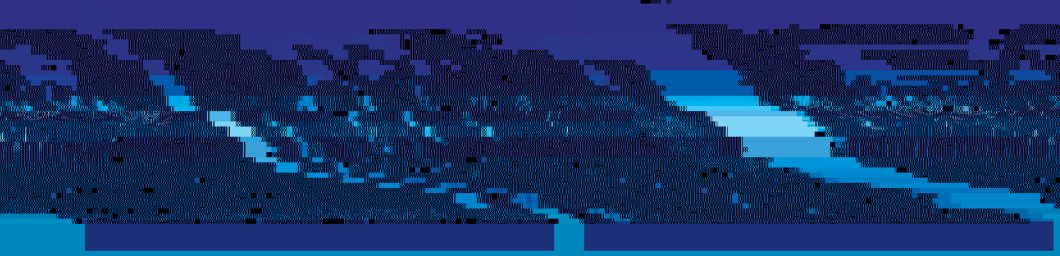
IEEE-ACIS 2008 Energy Internet and Energy System Integration

of Hong Kong



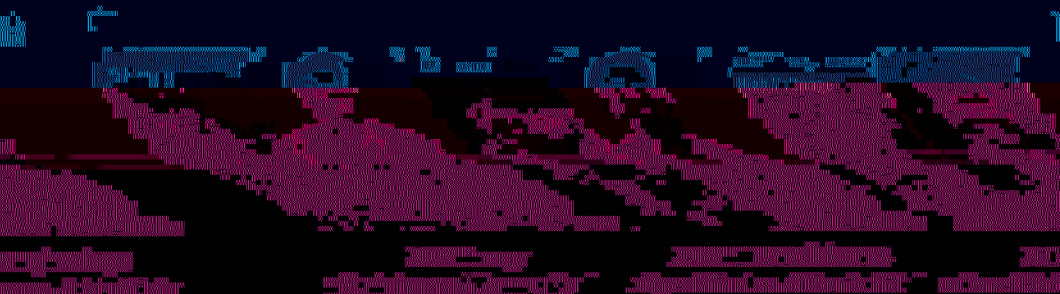
IEEE-ACIS 2008 Energy Internet and Energy System Integration

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Looking Forward



Facing the future challenges, Department of Electrical Engineering of Tsinghua University will continue to carry forward the tradition of "Dedication to the Country and Pursuit of Excellence", uphold the department motto of "Pursuing Learning and Higher Conduct", actively promote the development of discipline, improve the quality of training, and make significant contribution serving the national energy revolution strategy.





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