



The Wind Power Research Centre
of
Shanghai Jiao Tong University

collaboration with

Dept. of Electric Power Engineering ,
NTNU



上海交通大学
Shanghai Jiao Tong University

Scope of the cooperation

 **NTNU**
Norwegian University of
Science and Technology

R & D

**Exchange of
students**

Collaboration in

Education

**Hold workshops,
seminars**

- Similar focus:
 - Electrical part of the wind energy (Generator- converter – transformation – transportation – integration)
 - Similar technology (VSC, DFIG, Full converters, energy storage (battery, pumped water))
 - fault-ride-through challenge of wind integration
 - The same tools used for modeling and studies (Matlab, FPGA)
 - Several PhDs on the similar topics and at same stage
 - Smartgrid/Microgrid

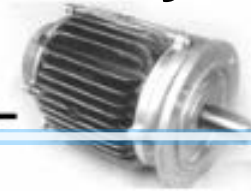




Collaboration in research and development / exchange PhD

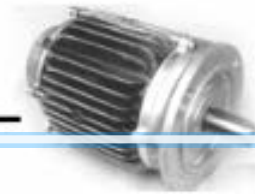


- **PhD-students paired: 2 X 2**
- **PhD-student Jing Lyu presently in Trondheim for 2.5 months**
 - **Excellent match professionally**
 - **Work progressing very well**
 - **Writing joint publication for IEEE Conference in Japan**
- **Another visit planned from mid-march – duration 2.5 months**
- **Possibly a 3rd later this year (depend on funding)**
- **NTNU-student will go to SJTU early next year**



Collaboration in research and development

- **Participation in relevant FME-applications:**
 - **Smart energy systems**
 - **New initiative**
 - **Offshore Wind**
 - **Continued**
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- **Use opportunities in Horizon2020**
- **Search for mobility grants – incoming and outgoing**



- **Two individual invited papers papers on one session in Hiroshima – May 2014**
 - Both available on IEEE Xplore
 - Invited for re-submission to journals within IEEE
 - Review process extremely slow
- **Some conference papers will be considered upgraded for submission to journals / international conferences**
 - Joint papers
 - Timeline March 2015



- Power Electronics & HVDC conference organized by SJTU – October 2015
 - NTNU – co-organizer
- NTNU will organize IEEE COMPEL in 2016
 - SJTU invited to participate
- Participate in Technical Program committees



Education

- Investigating to possibility for expanding the existing program
- An alternative is to join in an on-going initiative for Erasmus Mundus programme:
 - EU-partners: Milano, Lille, Madrid, NTNU
 - MSc-thesis at universities outside Europe: USA, Canada, China?,





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Thank you !

