



Vietnam-Germany Wind Power Summer School

Context

Vietnam's fast growing economy will be the main driver for electricity demand across the country during the next decade. In order to secure energy supply and reduce energy related greenhouse gas emissions, the Vietnamese government has set ambitious targets. The development of renewable energy sources for electricity production will be prioritized by increasing the percentage of electricity produced from these energy sources from 3.5% of total electricity production in 2010 up to 6.0% in 2030. This requires the total wind power capacity to be increased from the current negligible levels to around 6,200 MW by 2030. Many questions remain unanswered as to how these targets can be achieved and interesting fields of study are yet to be explored. Human resources are one of the crucial elements needed for the development of the sector but the education system has not yet reacted sufficiently in the field of renewable energy, in particular wind energy.

Objective

Location (tentative)	HUST (Hanoi University of Science and Technology) - Viet Nam
Partner (tentative)	TU Dresden (Germany) – HUST (Viet Nam)
Date (tentative)	August/September 2016
Duration	2 weeks
Participants	~ 20 to 30 Bachelor/Master students (75% Vietnamese and 25% German)
Subjects	Engineering, economics and politics of wind power in Viet Nam and globally
Language	English

The Vietnam-Germany Summer School on Wind Power provides students with the opportunity to work on the topic of a growing renewable technology, wind power, in interdisciplinary and intercultural teams. Focus will be given to theoretical knowledge but also to specific case studies solved through group work. The aim is to provide the participants a good base of knowledge on wind power from an engineering, economics and policy perspective. It will introduce students to practical knowledge about the wind energy sector globally and in Viet Nam while interacting with the private sector. The international learning environment and networking will provide an opportunity for the Vietnamese students to improve their language skills. The students travelling from Germany will experience a rich cultural exchange and gain an international vision of the wind power sector.

Approach

Close collaboration between HUST and Dresden Technical University with the supervision of the GIZ could result in the organisation of a wind power summer school in Hanoi.

Timeline

The target is to allow the summer school to take place in August/September of 2016, just after the Vietnamese students and staff come back from their summer holiday and the university opens again. The table below suggests an outline of a potential timeframe prior to the event.



Dec 15/Jan 16	Initial set up phase, first contact and negotiations
Beg Feb 16	Sign contract between TU Dresden and HUST
End Feb 16	Call for student applications
Mar 16	Select student applications Start the development of the curriculum Contact Vietnamese private sector companies for thematic classes and job fair
Apr 16	Announcement of the results of student applications
Jun 16	Submission of final curriculum
Aug/Sep 16	Summer school and job fair

Responsibilities

Clear tasks and responsibilities have to be negotiated and determined between HUST and TU Dresden. With the involvement of wind power experts (professors) from TU Dresden, the curriculum and lectures are being prepared and conducted. HUST on the other hand will have a crucial role in lecturing on the Vietnamese power sector, wind power in Vietnam, and be responsible for the overall organisation. Both universities would be supported through the MOIT/GIZ Up-Scaling of Wind Power Project.

HUST	TU Dresden
Vietnam Power Sector Wind Power in Vietnam Organisation of venue, accommodation, logistics Co-ordination for the intervention of private sector company and planning of the day trip Organisation of job-fair with support from GIZ	Basic engineering concepts of wind power Economics and financing of wind power plants Wind power policy Provide qualified lecturers Support with financial management to meet GIZ standards
In partnership / Together	
Definition of selection criteria and selection of students (50% technical, 50% economics/politics background, adequate level of English) Design of the curriculum Promotion and final report	

Tentative Agenda

	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
1st week					
<i>Morning</i>	Welcome and introductions Global context of RE	Wind Power Technologies	Wind power project overview	Wind power project Environmental Impact	Wind power project transportation, installation and construction
<i>Afternoon</i>	Wind power situation in VN/Germany	Wind Power Technologies	Wind power project planning and design	Wind power project Financing	Wind power project Grid Connection, O&M and Decommissioning
2nd week					
<i>Morning</i>	Politics lectures on RE/Wind Power	Group advice and support sessions from lecturers for final project	Group work preparation of final presentation	Private sector presentation	Job fair
<i>Afternoon</i>	The role of private sectors in Wind Power	Group work preparation of final presentation	Final presentation of group projects	Case study lead by private sector	Closing ceremony

This information is just an initial concept drafted by GIZ, it is open to suggestions and future discussions held between MOIT/GIZ as well as TU Dresden and HUST.