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Viet Nam-Germany Summer School on Wind Power

MOIT/GIZ Support to the Up-Scaling of Wind Power in Vietnam

Context

Renewable energy technologies are expected to play an increasing role in the coming years in the power sector in Viet Nam. According to the revised National Power Development Plan VII published in March 2016, the percentage of electricity produced from renewable sources (excluding hydro power) shall increase from 3.7% of the total electricity production in 2015 to 6.5% in 2020 and 10.7% in 2030. The total capacity of wind power capacity shall increase from the current negligible levels (114 MW) to around 6000 MW by 2030.

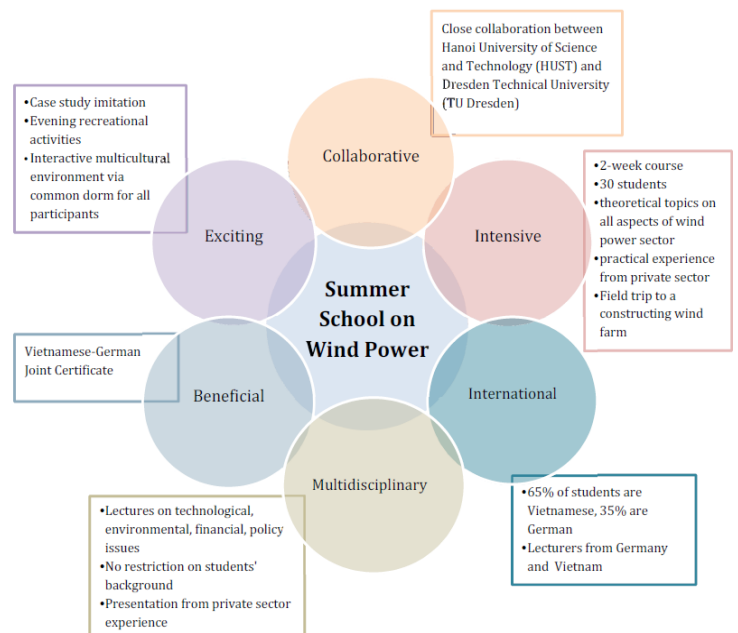
To develop renewable energy technologies, a skilled labour force is required, including engineers, technicians, policy-makers, etc. To date, however, only very few courses exist that cater for the rising demand and the projected expansion. For example, a maximum of 2-3 credit points is achievable in Masters degrees (over a total of 150–200 required for the full degree). The absence of a systematic and comprehensive education/ training on renewable energy generally and on wind power particularly results in the shortage of qualified human resource to satisfy the raising demand of wind energy sector development.

The Summer School

While the supply of courses is short, the demand by students seems to be low still, too. To increase the interest and the knowledge of the sector amongst the young labour force, the Viet Nam – Germany Summer School on Wind Power will provide students with an opportunity to work on the topic in interdisciplinary and intercultural teams. With lecturers from TU Dresden in Germany, as well as from Viet Nam, students will gain through theoretical knowledge as well as specific case

studies a first overview as well as practical experiences of wind power. In addition to classroom lectures, small projects, presentations and case studies by students, a field trip to the construction site of the Phu Lac wind farm (in Southern Vietnam) will round up the programme.

Programme Elements



Agenda and venue

The Summer School will be held from **12-23 September 2016** at Hanoi University of Science and Technology, in Hanoi, Viet Nam. Accommodation for the duration of the course will be organised by GIZ in dorms.

Eligibility

Vietnamese and German last year bachelor and master students are all eligible to apply for the course. There is no restriction on the background of applicants as the course aims to introduce a general overview and broad multidisciplinary knowledge on the wind power sector including on policy, engineering, economics, environmental perspectives, etc.

The number of participants is limited to a total of 30 – **10 German and 20 Vietnamese students**. Applicants are required to be fluent in English as all lectures will be given in English.

Fees and registration

The course is free of charge, all expenses are borne by GIZ. German students are expected to cover their own travel costs to and from Viet Nam. Travel costs within Viet Nam are covered by GIZ.

Applications will be selected to ensure a balance of students in terms of background, disciplines, universities, as well as gender. Interested Vietnamese and German students are

encouraged to register by completing the application form and returning it with their CVs and a short letter of motivation (200 words) before **04 July 2016** to chi.trinh@giz.de. The form is available for download [HERE](#).

Background information

MOIT/GIZ “Support to the Up-Scaling of Wind Power” Project

A number of regulatory and market barriers as well as the lack of capacity have been identified as the obstacles that hinder the expansion of the wind power sector. The project “Support to the Up-Scaling of Wind Power in Vietnam” aims to tackle these issues through technical assistance. It is implemented in the period 2014-2018 by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) jointly with the Ministry of Industry and Trade (MOIT) and its General Directorate for Energy (GDE) of the Socialist Republic of Vietnam. With a total budget of EUR 6.900.000, the project is commissioned by the Federal Ministry of Economic Development and Cooperation (BMZ) under the German Climate Technology Initiative (DKTI).

Summer School Curriculum (tentative)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1st week							
Morning	Welcome and introduction	Introduction to Fluid Mechanics and Liberalized Electricity Markets	Pricing and Investment Support Schemes of Renewable Energies	Wind Power Technologies	Grid connection requirements and wind farm design	Field trip to Phu Lac wind park	Back to Hanoi
Afternoon	German Energy Transition	Fundamentals of power systems	Vietnam Energy Market	Site selection and Market Integration	Field trip to Phu Lac wind park		Free time
2nd week							
Morning	Environmental impact and Financial assessment	Project management	Group work	Group work	Presentation of group work results	End of the course	
Afternoon	General overview of control problems in wind power plants	Wind power projects in Vietnam and unresolved problems			Evaluation and closing ceremony		

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