



Ministry of Industry and Trade



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# Vietnam-Germany Research Cooperation

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

### 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 development of wind power is prioritised by the government with the aim of developing 1 GW of installed capacity until 2020, and 6.2GW until 2030. According to estimations from the 2011 wind atlas, the wind power capacity of Vietnam could be as much as 27 GW, but currently only 114 MW have been installed.

### Research projects to support wind deployment

Research and innovation play an important role in supporting Vietnam to reach its energy production and emission reduction goals. As an emerging market, bilateral research collaboration provides opportunities for Vietnam to learn from more experienced countries and markets. Germany, with its long-standing experience in wind power, and numerous world-leading research institutes, can be an excellent partner.

### Objective

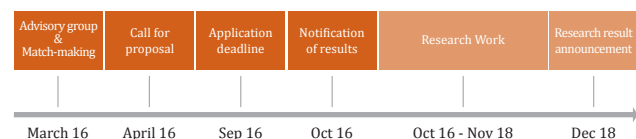
Recognizing the vital role of international research cooperation for the development of the Vietnamese wind power sector, the **MOIT/GIZ Up-Scaling of Wind Power Project** will be facilitating partnerships between Vietnamese and German universities. The aim is to conduct **joint research on wind power in Vietnam**. The research is expected to be geared towards increasing the deployment of, and investment into wind energy in Vietnam as well as ensuring a smooth integration of wind power into the existing power system.

### Approach

A thematic advisory board will be constituted to define relevant research topics. It will include key players from

public and private sector from the two countries. The project will then continue to organize a **match-making event** to connect German and Vietnamese researchers in the field, and forge partnerships. Subsequently, a **call for proposals** will be launched. Up to 3 successful projects will be supported with a **budget of up to EUR 50,000-100,000 over a maximum period of 2.5 years** (summer 2016 – December 2018).

### Timeline



### Thematic advisory group

In order to guide the call for proposals, define the research topics that could form part of it, and delineate the selection criteria for successful projects, a thematic advisory group will be established. It will consist of experts from German as well as Vietnamese universities with experience in similar research projects and experience in Vietnam. In addition, private sector will be invited to ensure that research results are applicable. MOIT as well as GIZ will prepare and chair the meeting. The thematic advisory board members will also play a key role in the selection process.

### Potential research topics could include:

1. Market design and policy
2. Wind measurements, audits, and data analysis
3. Grid integration of wind power
4. Incentives to investment in wind energy
5. Impact of wind power on security of supply
6. Modelling, simulation and forecasting of wind power
7. Investment analysis, technical and economic modelling

## Match-making event

Ahead of the call for proposals that will identify projects to be supported, a match-making event is intended to bring together Vietnamese and German institutions and individuals interested in participating in the call for proposals.

## Indicative selection criteria for proposals

1. Vietnamese-German consortium applies
2. Relevance to wind power sector in Vietnam (and globally)
3. Applicability of the research
4. Scientific/technical credibility
5. Anticipated value for money
6. Innovation
7. Composition of the research team and long term value of the partnership
8. Third-party funding and integration of university staff or PhD students

## Background information

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

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).

Among the three Action Areas of the project, the Technology Cooperation Component aims to facilitate partnerships between Vietnam and Germany in addition to work on Legal and Regulatory Frameworks and Capacity Development measures. The collaboration between the two countries is geared towards benefiting the development of the Vietnamese wind power sector, building on the experiences and the knowledge accumulated in the sector in Germany.



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