

## About the UKAVita project

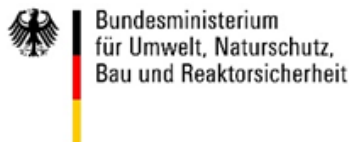
Biogas technology is a promising alternative to reduce environmental burden caused by organic waste and agricultural residues and to generate renewable energy in Vietnam. However, there are several challenges associated with it such as: corrosion in biogas plants and gas usage facilities due to the presence of H<sub>2</sub>S, gas leakages due to inappropriate dimensioning and construction of the biogas plants, and nutrients and pathogens entering the soil, surface and ground water bodies due to lacking effluent treatment.

In Germany, over the past years biogas technology has made great strides in terms of environmental performance. This experience will prove helpful for the improvement and further implementation of biogas technologies in Vietnam.

The German-Vietnamese cooperation project UKAVita stands for Environment- and climate-sound adaptation of biogas plants in Vietnam. It supports cooperation among stakeholders via the Vietnamese Biogas Network.

- ⇒ by enabling future biogas projects
- ⇒ through a web platform for country-specific data on biogas technologies and biomass potentials
- and
- ⇒ by organizing an interactive workshop.

This project is funded through



## The workshop is organized



CANTHO UNIVERSITY



### Project coordination

Technische Universität Berlin  
Institute of Environmental Technology  
Chair of Circular Economy and Recycling Technology  
Office Z2, Straße des 17. Juni 135, D-10623 Berlin  
<http://www.circulareconomy.tu-berlin.de/>

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WORKSHOP

## Environmental and climate-friendly adaptation of biogas plants in Vietnam

26. and 27. March 2018

at



Ho Chi Minh City University of Science

## Invitation and program



## Goals of UKAVita workshop

With a 2- day workshop we want to analyze and develop pathways for the further development of the Vietnamese biogas sectors and strengthen the cooperation between stakeholders. *In concreto*, we want to :

- ⇒ analyze problem trends in small- and medium-scale biogas plants in Vietnam;
- ⇒ discuss issues of general interest, such as alternative usage patterns of biogas as a solution to increase efficiency and reduce environmental impact;
- ⇒ discuss opportunities for fundraising for green energy investments;
- ⇒ provide a platform for discussion on how to facilitate national and international level cooperation for the development and implementation of biogas plants in Vietnam (e.g. funding, tech support, etc.).

## Why would you join?

- ⇒ Share your experience/ problems with biogas technologies in Vietnam!
- ⇒ Learn from and share knowledge with experts in the biogas sector in Vietnam and in Germany!
- ⇒ Have access to the biogas products and services in Vietnam, Germany and beyond!
- ⇒ Develop new business opportunities with biogas technologies!

## Program

### Monday, 26.03.2018

**08:30 Registration**

**09:00 Welcome and Introduction to the workshop**

#### **Part 1 Input talks**

09:40 State of the art and requirements of biogas plants in Germany

*Jörg Wagner , Intecus*

10:20 Coffee break and group photo

10:35 Biogas development in Vietnam: current status -and trends

*Tran Van Khai , APO company & Prof. Bui Xuan An*

11:15 Solutions for energy and sustainable - environmental development

*Prof. Truong Thanh Canh*

12:00 Lunch break

#### **Part 2 Interactive Session: Energizing the Base of the Pyramid**

13:00 Introduction for the Interactive Session

13:10 Group formation and questionnaire

13:40 First phase

14:40 Coffee break

15:00 Second phase

16:00 Group presentation

16:40 Conclusion and closing remarks

18:00 Joint dinner

### Tuesday, 27.03.2018

#### **Part 3 Excursion**

09:00 Start from Ho Chi Minh City

Visit of two characteristic biogas plants

17:00 Expected arrival time in Ho Chi Minh City

## About the interactive Session

This interactive session offers an opportunity for participants to gain insights into innovative entrepreneurial strategies that allow for the development of business models and strategies suitable for low income (i.e., Base of Pyramid (BoP) markets). During this activity, participants will be able to discuss the challenges faced by businesses in the biogas sector and exchange ideas to come up with innovative solutions to solve these challenges.

## Location

Room I23, Ho Chi Minh City University of Science

227 Nguyen Van Cu, P.4, Q.5, Ho Chi Minh City, Vietnam

## Registration

Registration, including lunch and dinner but not including travel and accommodation, is free of charge and will be covered by the German Federal Ministry of Environment, Nature Conservation, Building and Nuclear Safety (BMBU).

Please register before 19.03.2018 by sending the registration form to:

Ms. Trang Hoang : t.hoang@tu-berlin.de

Or Ms. Khuyen Vo : kimkhuyenvo@gmail.com