



Project coordination



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Project partners

IEEM - Institute of Environmental Engineering and Management at the Witten/Herdecke University gGmbH

VNU - Hanoi University of Science (HUS)

National Economics University (NEU)

HST Systemtechnik GmbH & Co. KG

University of Stuttgart

Passavant-Roediger GmbH

Leibniz University of Hannover

Southern Institute of Water Resources Research (SIWRR)

EnviroChemie GmbH

Technische Universität Darmstadt

Hanoi University of Civil Engineering (HUCE)

Vietnamese-German University (VGU)

LAR Process Analysers AG

Vietnam Institute of Industrial Chemistry (VIIC)

Braunschweig University of Technology

Institute for Environment and Resources (IER)
at the Vietnam National University

Vietnamese Academy of Science and Technology (VAST)

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Integrated
**Wastewater Concept
for Industrial Zones**





The AKIZ Project

In Vietnam, an increasing number of more than 200 registered industrial zones (IZ) is without sustainable wastewater treatment. To cover the demand for an adopted wastewater solution for these IZ, a “Flagship Project” is implemented at Tra Noc IZ in Can Tho City.

Sponsored by the



Federal Ministry
of Education
and Research



The German Federal Ministry of Education and Research (BMBF) and the Ministry of Science and Technology of the Socialist Republic of Vietnam (MOST) support the development and verification of an integrated wastewater concept (AKIZ) to secure efficient and sustainable disposal of wastewater in industrial zones.



Pilot systems for different industries

Using containerized pilot plants for different branches in Tra Noc IZ, high-tech solutions for pre-treatment of wastewaters, generation of energy from wastewater and recuperation of valuable substances are adapted and verified by on-site pilot systems, taking into consideration the local conditions. Concepts for the sewage sludge management are investigated. Monitoring surveys create the database for control mechanisms especially in terms of toxic wastewaters.

Development of an overall management concept

An overall management concept for industrial zones (AKIZ) is elaborated, combining centralized and near-to-source solutions for the treatment of industrial wastewater as well as integrating technological and economic / financial aspects. Taking into consideration the specific local settings and institutional framework, the concept shall cover all relevant functions for operating wastewater infrastructure within the IZ.

Furthermore, sociological and ecological aspects are researched. The sustainable implementation of AKIZ is supported through capacity building with stakeholders and local partners.

Applied science and close cooperation

Within the frame of six sub-projects, eight German and nine Vietnamese research institutions as well as four German industrial partners jointly perform the research work.

Education and Training

Measures of capacity development are an important component of AKIZ. Together with GIZ, ADB, DOST and DONRE, workshops and training programs are executed. A growing number of PhD and Master students is involved in research and educated through AKIZ.

The project is implemented in four phases between 2010 and 2014: basic and conceptual studies, adaption to local situation and set-up of pilot systems, optimisation and evaluation, and, finally, verification and transfer of results.

