

Project title: CO₂-compensation and wastewater treatment – A new approach

Project duration: At least 1 year

Geographic area of the proposed project: Vietnam

Project idea:

Off-setting CO₂ emissions by actively capturing CO₂ from the atmosphere and infinite storage (so-called CCS approach) in combination with decentralised wastewater treatment is a new concept for Vietnam. An appropriate solution has been developed and recently put into operation by an international NGO. This solution goes by the name C³ (“C to the Power of 3”).

A first project is operational now in Soc Trang province. By treating wastewater from a school and a nearby market using a constructed wetland, carbon capture and long-term storage is achieved. More projects are currently developed for Thanh Hoa Province. This new concept does not require high technology at all and meets several SDGs. It combines the capture and removal of CO₂ with the production of bamboo biomass, the protection of forests and wastewater treatment in rural settings, free of charge for the communities. The wastewater treatment plant requires almost zero energy, avoiding CO₂-emissions and making the concept scalable under Vietnamese conditions.

Relevance to VB4E thematic areas

How would the project relate to VB4E 8 focus areas?

“Forest Landscape restoration” and / or “Climate Change”

Management structure:

The project will be implemented by the international NGO Water Solutions International e.V., represented in Vietnam by Water Solutions South-East Asia Co. Ltd (WSS). Projects in Vietnam are managed and steered by national and international experts from WSS’ office in Ho Chi Minh City.

Total Budget: 1 ton of CO₂ can be compensated by donating 1.100.000 VND (appr. 39 Euro). The minimum donation for CO₂ capture is 50 tons / year, equalling 55.000.000 VND, or planting 1 ha of bamboo forest. The budget can be higher depending on the project scale.

Co-financing: Project development, administration and auditing costs are born by WSS



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