



Fraunhofer Center for
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CARE - TOWARDS CIRCULAR INDONESIAN AGRICULTURE: PROMOTING RICE HUSK TO ELECTRICITY FOR CLEAN RURAL ELECTRIFICATION

Background

In the context of agricultural food chains, a „circular economy“ aims to reduce waste while making the best possible use of the „wastes“ generated by using economically viable processes to add value. The CARE project promotes the economy of the agricultural cycle in South East Asia by providing sustainable recycling paths for rice husks based on German gasification technology. The project supports the substitution of diesel fuel with gas from small biomass gasification plants. These are operated by decentralized agricultural companies in Indonesia, especially on rice mill sites, and also generate electricity.

Project description

The project is divided into four modules. In the first module, the technological feasibility of gasifying rice pellets with German gasification technology is to be demonstrated. In the second module the technology will be tested on site and at the same time the development of a business model will be started before the commercialization and market entry of the technology is prepared in the third module. The fourth module, which will run parallel to the other modules throughout the entire project duration, deals with project coordination and knowledge transfer.

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Project tasks

Fraunhofer IMW's research in the project focuses on questions of technology acceptance as well as opportunities and barriers for scaling-up promising business models for applying new biomass-gasification solutions by Indonesian rice millers. The aim is to support German technology suppliers with the development of market-entry strategies for successfully accessing the Indonesian market for renewable energy technologies.

Project partners:



Project sponsor:

GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung

Project duration:

1/1/2020–31/3/2023