

Concept Paper

Advances in the Utilization and Processing of Biomass

AGRITECHNICA ASIA 2020

Time and Date: 10:30-12:30 pm, October 15th, 2020; during AGRITECHNICA ASIA

Location: DLG Forum/ Conference Room, BITEC, Bangkok

Concept:

Projects, focusing on energy from biomass, are currently popping up all over Southeast Asia. In this regards, the agricultural sector offers huge potentials due to unutilized resources in terms of harvest residues and by-products from rice and sugarcane farming as well as manure from livestock production. Furthermore, high-yielding energy crops, such as Napier grass, energy cane and corn can exploit their full growth potential in the tropical climate, leading to maximum energy yields.

Not only does energy from biomass come with advantages in terms of decentral energy production and independence from fossil energy sources. It also holds great potential with regards to the reduction of negative environmental effects, since current ways of crop management, such as pre-harvest burning of sugarcane and open burning of rice straw could be a thing of the past.

Southeast Asian countries, especially the Philippines, Thailand and Myanmar are more and more recognizing the potential of those advantageous interaction and therefore are implementing subsidies to drive the development in this sector forward.

Draft Program:

- 1. The current status of renewable energy production from biomass in Southeast Asia**
 - a. Political targets and implementation strategies

- 2. International developments**
 - a. Developments in Germany/Europe
 - b. Developments in North and South America

- 3. Biomass value chain**
 - a. Production of high-yielding biomass crops
 - b. Utilization and management of agricultural by-products
 - c. Technology and logistics of biomass harvest
 - i. “Biomass - the new energy solution.”, Darian Schenk (Regional Manager Asia) and Kruewan Thongom (Market Research and Marketing Manager), CLAAS Regional Center South East Asia Ltd.
 - d. Biogas, Bioethanol, Combustion,– Ways of transforming biomass to useful energy sources
 - e. “At the end, the figures have to be right” - Economic evaluation of biomass production systems in Southeast Asia