

## Renewable Material Conference, 11 - 13 June, 2024, in Siegburg

Presented by:

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### Presentation Title and Abstract:

#### ***“What can we learn from China to accelerate the industrialisation of bio-based building blocks”***

##### ***Abstract of the presentation:***

*“Many innovative solutions for our worldwide biggest challenges are available, but we miss to bring them to application and industrialisation at time and scale. This looks different in China, see the speed of electrification of cars compared to EU”*

*The presented example of Zhejiang Sugar Energy shows how quickly and efficiently this Chinese company has managed to build up a 2000year-tons capacity of 5-HMF within a short period of time. The synthesis of 5-HMF and its bio-based furan derivatives were brought from the research lab via the pilot to the large-scale production within short time. At a speed that would be difficult to realise in Europe in comparable time at scale.*

*The industrialisation of the main biobased building block 5-HMF, gives access to other bio-based Furan-derivatives on the market. A full range of high-quality bio-based polymer precursors and its applications will be key to support the replacement of petrol-based polymers.*

*In addition, it will enable investments and liberate capex in new bio-based materials to benefit the carbon footprint reduction.*

*Since we Europeans are discussing about regulations and directives about standards, that should define the carbon, which is counted as green or bio, production is being ramped up in China.*

*The aim is to understand what works different in China compared to Europe. How can we learn from the positive accelerating factors in the Chinese industry without losing the reliable characteristics of the EU way of working? Finally, how can we learn from each other to save the planet.*