



GETEC

Integrated Biomass and Waste-to-Value Processes

CE Biobased Chemicals GmbH

a subsidiary of CropEnergies AG & Südzucker Group

Germany | Chemical Industry

- 100% bio-based ethyl acetate
- First plant of its kind in Europe
- European supply chain and regional raw materials
- H₂ -ready
- Annual CO₂ savings of over 35,000 metric tonnes

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Innovation from biomass

About CropEnergies

CropEnergies specialises in products made from renewable raw materials. It was founded in 2006 as part of the Südzucker Group. In 2022, CE Biobased Chemicals (CEBC) was created to develop the bio-based chemicals business. Its new production plant in Saxony-Anhalt will be the first of its kind in Europe, producing ethyl acetate from bioethanol derived from agricultural feedstocks and powered by residual and renewable energy sources, supporting CropEnergies' commitment to circularity and lower-emission production.

Goals and challenges

To deliver a modern and sustainable production plant, CEBC needed to address a complex range of technical, economic, and operational requirements that would ensure efficiency, reliability, competitiveness, and performance.

- Predictability of production costs
- Manageable investments and timing
- Compliance with applicable regulations
- A pragmatic, flexible and technology-agnostic approach to decarbonisation and innovation



"Producing sustainable, renewable products from biomass is the goal of CropEnergies. With the construction of the plant for renewable ethyl acetate in the Zeitz Chemical and Industrial Park, we are taking the next step in the implementation of our strategy."

Dr. Fritz Georg von Graevenitz
CEO CropEnergies AG

GETEC biomass plant
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GETEC solution

GETEC implemented an integrated energy and utility supply system at the Zeitz Chemical and Industrial Park powering Europe's first production facility for renewable ethyl acetate. The managed energy solution delivers steam, electricity, nitrogen, and compressed air. Utilising biomass, as well as liquid and gaseous production residues, it supports sustainability without compromising productivity, reliability, or cost-efficiency. Compared to a conventional gas boiler, over 35,000 metric tonnes of CO₂ are avoided annually – a significant contribution to the decarbonisation of industrial production processes.

Services

- Plant design and development
- Regulatory and permitting applications
- Financing and subsidy funding management
- Engineering, procurement, and construction
- Supply of steam, electricity, nitrogen, and compressed air
- Plant operations and maintenance
- Fuel procurement (biomass)

Technologies and solution components

- Biomass and waste-to-energy boilers with flue gas cleaning for emission control
- H₂-ready boiler for liquid and gaseous fuels (production residue)
- Automated biomass storage and crane handling
- Steam turbine
- Compressed air and nitrogen generation systems

Energy sources

- Waste wood A1-A2
- Landscaping material
- Production residues
- Biomethane

Impact at a glance

35,000 t/y
CO₂ emissions
saved

50,000 t/y
renewable ethyl acetate
produced

30 t/h
steam generated by the
biomass boiler

2.7 MW
electrical power capacity
on-site from the steam
turbine

40 t/h
steam generated by the
H₂-ready gas boiler

Supported by:



on the basis of a decision
by the German Bundestag



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