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short abstract

One of the main objectives of DSD is concept development for sustainable agriculture and optimize the food processing chain. DSD is active in developing new and innovative technologies for the Biobased Economy (BBE), which are opening new prospects for farming communities. DSD is the linking pin and concept developer between the Agriculture and Chemical industry and a specialist for the entire chain.

DSD is involved with its technologies in several R&D projects with ACRRES, Wageningen University and Research (WUR), University College Roosevelt (UCR), University of Warmia and Mazury (UWM) and several companies.

Projects with DSD involvement:

- 1) "CHEMBEET", together with ACRRES and UWM, proof of principle of the Direct Processing with Betaprocess technology; aim is sugar beet processing for an attractive cost price into bio-ethanol.
- 2) A project called "GREENBEET"; development of a year-round sound and viable ethanol processing facility with input from corn kernels and sugar beets.
- 3) Together with a seed company and Green Consulting Group developing of a method for year-round storage of sugar beet, keeping the sugar content, the whole year, on the same level.
- 4) "In NIJE DEI", together with ACRRES and other partners, to develop a) a better washing method for sugar beets, b) robustness of Direct Processing with Betaprocess and c) efficient and better distillation of the sugar beet bray.

- 5) "BIETHANOL", use of the rest products, like (hemi-)celluloses and pectin's in combination with micro-organism to produce advanced bioethanol via Direct Processing with Betaprocess.
- 6) Use of our pre-treatment to produce fermentable sugars for several institutions and organisations which are using the sugars to produce Itaconic acids, PHA's, Proteins and other products.

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