

Bioethanol Production from Lignocellulosic Biomass

SAHYOG Twinning

Through facilitating and coordinating project twinning, SAHYOG brings together project coordinators and other lead partners from past and on-going projects as well as international networks in order to consolidate R&D results, exploit synergies and thus build up a critical mass for future EU-India research collaboration in the area of biomass and bio-waste.

Background

The benefits of bioethanol production from lignocellulosic materials are significant. The main advantages include higher per hectare productivities, better GHG (greenhouse gas) performance and avoidance of direct competition with the food market. In order to make this technology competitive with fossil fuels, significant cost reductions and technological developments are needed while the sustainability of the overall process has to be ensured.

Research Themes

The following research themes in the field of bioethanol production from lignocellulosic materials will be addressed under SAHYOG twinning:

- Optimisation of feedstock supply chains
- Development of advanced pre-treatment technologies
- Adaptation of enzyme cocktails
- Improvement of yeast strains for the co-fermentation of C6 and C5 sugars
- Process development and optimization
- Pilot and industrial scale demonstration of lignocellulosic bioethanol production
- Assessments of environmental and economic sustainability

SAHYOG Twinning – How to get involved?

With respect to EU-India twinning, the following activities and procedures are foreseen within SAHYOG:

- Get in contact with SAHYOG partners responsible for twinning (Robert Bakker, Rainer Janssen, Dominik Rutz)
- Sign Letter of Interest on India-EU SAHYOG twinning
- Define your areas of interest for research cooperation
- Cooperation contacts from India/Europe are identified by SAHYOG
- Assistance for twinning activities is provided by SAHYOG
- Participation in SAHYOG twinning workshop is facilitated

India-EU SAHYOG Twinning Activities



Strengthening Networking on Biomass Research and Bio-waste Conversion - Biotechnology for Europe India Integration

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