Project Twinning: Status



Final Project meeting Sayhog





Overview

- Project Twinning: what is it
- Approach project twinning in SAHYOG
- Results





Project Twinning

Twinning: "synchronize projects"

Outcome: find partners for future projects, exchange experts, collaborate in HR training, share and compare experiences on selected topics, joint papers, etc

Basic Rules for twinning:

- Use already approved project funds
- Projects/partners keep their own intellectual property rights (no IP transfer)
- No exchange of funds- each project is self-funded
- Twinning is not merging: each project remains independent!





Approach

- Mapping of EU-India RTD Projects for project twinning (M16)
- Identification of candidate Indian and EU RTD projects for twinning (M20)
- Approach project leaders
- Organisation of a twinning workshop (M24)
 - Mobilize project leaders, programme managers
- Monitor twinning





Results: mapping for twinning (D 3.2)

- 7 strategic research themes, they include:
- Bioethanol production from lignocellulosic biomass
- Thermochemical conversion technologies
- Anaerobic digestion technologies
- Algae production and conversion systems
- Biomass to chemicals the biorefinery approach
- Feedstock production and genetic improvement of plants
- Sustainability and life cycle assessment





Results: mapping Indian RTD projects

Research Theme for Project Twinning	AII projects	Ongoing or immediate past projects	% of total
Feedstock Production + Genetic Improvement	67	53	25%
Thermochemical conversion technologies (pyrolysis, gasification)	11	8	4%
Bioethanol production from lignocellulosic biomass	36	32	15%
Anaerobic digestion technologies (biogas, biomethane, hydrogen)	44	33	16%
Algae production and conversion systems	23	22	10%
Biomass to chemicals – the biorefinery approach	28	25	12%
Sustainability and life cycle assessment	8	6	3%
Biodiesel	25	13	6%
Others	34	20	9%
Total	276	212	100%





Results: mapping EU RTD projects

Research Theme for Project Twinning	Number of projects	% of total
Feedstock Production + Genetic Improvement Thermochemical conversion technologies (pyrolysis, gasification)	111 40	15% 6%
Bioethanol production from lignocellulosic biomass Anaerobic digestion technologies (biogas, biomethane, hydrogen)	56 22	8% 3%
Algae production and conversion systems Biomass to chemicals – the biorefinery approach Sustainability and life cycle assessment	47 304 70	7% 42% 10%
Liquid Biofuels	72	10%
Total	722	100%





India-EU SAHYOG Twinning Activities

The SAHYOG Project

The main aim of the project SAHYOG is to bring together leading organisations in the field of **biomass production and bio-waste conversion research** carried out within EU research programmes and related programmes by Indian national institutions.

Inventories of biomass and bio-waste potentials and research projects/programs elaborated and analysed within SAHYOG are the basis for the joint Strategic Research Agenda (SRA) finally leading to a Roadmap for policymakers and researchers.

SAHYOG Twinning

Through facilitating and coordinating project twinning, SAHYOG brings together project coordinators and other lead partners from past and on-going projects and initiatives 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.

Twinning Activities

The following activities are possible under SAHYOG twinning:

- · Research cooperation, exchange of researchers
- Organisation of joint workshops/meetings
- Development of common trainings
- Common literature reviews
- Exchange of tools, analytical methods and databases
- · Exchange of data, information, knowledge and material

In addition, within SAHYOG a 2-day twinning workshop will be organized to facilitate and deepen contacts between interested stakeholders.

SAHYOG Twinning – Research Themes

The **priority strategic research themes for twinning** of initiatives from India and Europe activities are:

- · Bioethanol production from lignocellulosic biomass
- Thermochemical conversion technologies (pyrolysis, gasification)
- Anaerobic digestion technologies (biogas, biomethane, hydrogen)
- · Algae production and conversion systems
- · Biomass to chemicals the biorefinery approach
- · Feedstock production and genetic improvement of plants
- Sustainability and life cycle assessment



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

Contact for SAHYOG Twinning:

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Project Coordination:

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SAHYOG is supported by the European Commission within the 7th Framework Programme (FP7-289615) and by the Department of Biotechnology (DBT) of the Indian Ministry of Science and Technology.





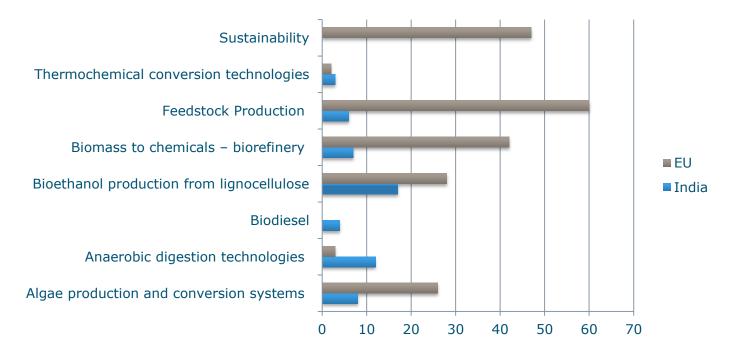
Results: identifying twinning candidates

NO.	Project Acronym	ct Acronym Project Title Twinning Area*		Twinning Area*				Title Tw	ject Title Twinning Area*	End year	
			AD	Etoh	Chem	Alg	тс	FD	Sus t		
88	BIOCORE	Biocommodity refinery		Х					Х	2014	
		From Data to Models: New Bioinformatics Methods and Tools for Data-Driven Predictive Dynamic Modelling in									
94	BIOPREDYN	Biotechnological Applications		Х	х					2014	
96	BIOSURFING	New-to-nature biosurfactants by metabolic engineering: production and application			X			x		2015	
07	DIOTOGAT	BIOTREATMENT OF DRINKING WATER RESOURCES POLLUTED BY PESTICIDES, PHARMACEUTICALS AND						,		2014	
97	BIOTREAT	OTHER MICROPOLLUTANTS						X	Х	2014	
105	CANTOGETHER	Crops and ANimals TOGETHER						Х	Х	2015	
118	COMOFARM	Contained Molecular Farming – Controllable Contained Systems for High Yield and Consistency			Х			х		2012	





Summary Twinning candidates







Contacting project/programme leaders







NAGARJUNA Group Dr Kasturi, Dr Pandey Hyderabad

Wageningen, 25th February 2013.

invitation to participate in India-EU SAHYOG Twinning Activities

We would like to cordially invite the NAGARJUNA Group to participate in twinning activities organised In the framework of the project SAHYOG (Strengthening Networking on Biomass Research and Biowaste Conversion - Biotechnology for Europe India Integration).

SAHYOG is supported by the European Commission within the 7th Framework Programme (FP7-289615) and by the Department of Biotechnology (DBT) of the Indian Ministry of Science and

The main aim of the project SAHYOG is to bring together leading organisations in the field of biomass production and bio-waste conversion research carried out within EU research programmes and related programmes by Indian national Institutions.

Through facilitating and coordinating project twinning, SAHYOG aims to bring together project ocordinators and other lead partners from past and on-going projects and initiatives as well as International networks in order to consolidate R&D results, exploit synergies and thus build up a

The following activities are possible under SAHYOG twinning: research cooperation and exchange of researchers, organisation of joint workshops/meetings; development of common trainings; common literature reviews; exchange of tools, analytical methods and databases; exchange of data, information, knowledge and material. In addition, within SAHYOG a 2-day twinning workshop will be organized to facilitate and deepen contacts between interested stakeholders.

We hope that NAGARJUNA Group will accept this invitation to join SAHYOG twinning activities and we look forward to this cooperation opportunity.

Best regards.

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ENEA, Italy SAHYOG Coordinator

TERI - The Energy and Resources Institute SAHYOG Coordinator India



Department of Molecular Microbiology, VIB





Twinning workshop

- Mini-SYMPOSIUM and TWINNING WORKSHOP
- Developments in Sustainable Biomass Valorisation
 EU-India R&D collaboration on Biomass and Biowaste
- Utrecht, the Netherlands 28-29th October 2013





Twinning workshop: tools









Twinning workshop: brokerage event









Twinning workshop: sessions

- 7 technical sessions
- 43 registered participants
- Intensive exchange experiences, ideas
- Joint recommendations



See 33 page Workshop Summary report





Twinned Projects

- Projects already linked to India
 - Alcue, BioCore, Crops2Industry, Namaste, Sweetfuel
- Projects already identified
 - Sunlibb, PISCES, BERI, BRiSK, BioLyfe, Jatropt, Valorgas, Velica, etc.
- Projects identified from Project Inventories -) in progress



