

RRB



INTERNATIONAL CONFERENCE ON
RENEWABLE RESOURCES
& BIREFINERIES

7th-9th June 2010
Düsseldorf - Germany



**Green
Chemistry**

Centre of Excellence

Sustoil

www.sustoil.org

9th June 2010

Title

- Project Summary: Developing advanced biorefinery schemes for integration into existing oil production or transesterification plants

Speaker

- Abbas Kazmi

Institute

- Green Chemistry Centre, University of York



Sustoil

www.sustoil.org



**Green
Chemistry**

Centre of Excellence

RRB



Presentation Outline

Introduction

Website

Workshops

Newsletters

Publications



Sustainable Oil Crops

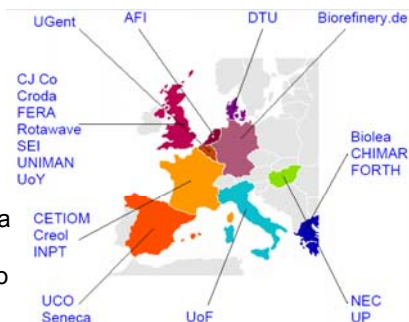
The aim of SUSTOIL is to develop advanced biorefinery schemes to convert whole EU oil-rich crops (**rapeseed, olive and sunflower**) into energy (**fuels, power and heat**), **food** and bioproducts (**chemicals and/or materials**) making optimal uses of the **side streams** generated during farming/harvesting, primary processing (e.g. oil extraction and refining) and secondary processing (e.g. Trans-esterification).



Introduction

- Sustoil has a consortium of 23 partners in 10 EU countries
- The Green Chemistry Centre is Coordinating the project

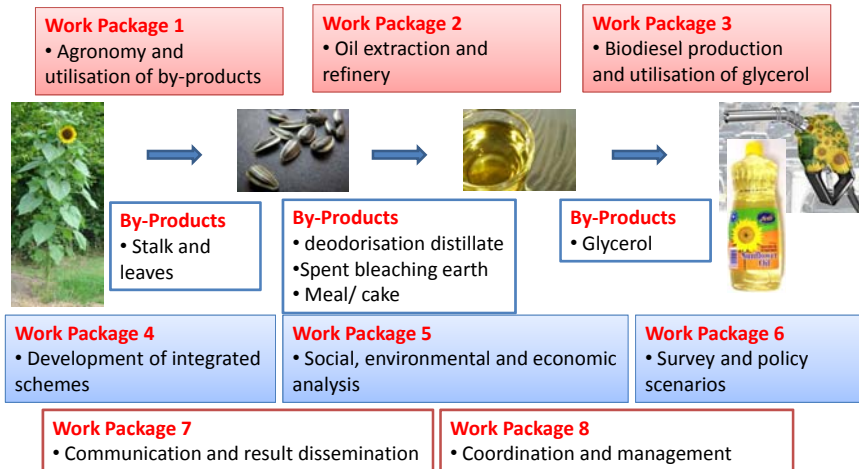
- University of Foggia
- INP Toulouse
- BioCentrum-DTU
- FORTH
- Agrotechnology and Food Innovations BV
- University of Ghent
- University of Manchester
- University of Pannonia
- Creol
- Charles Jackson & Co Ltd
- Seneca Green Catalyst SL



- Chimar Hellas SA
- Biorefinery.de GMBH
- Nógrádi Erdőkémia Co.
- University of Cordoba
- The Food and Environment Research Agency
- Rotawave Ltd
- Croda International PLC
- CETIOM
- Biolea
- Stockholm Environment Institute
- University of York

Introduction

- There are several technical, economic, policy and managerial work packages



The Sustoil Website

- Set up in the first few months of the project.
- The website acts as a 'shop window' for key stakeholders.
- We also have an intranet which was used by the partners.

Sustoil

- Home
- Overview
- Objectives
- Agenda
- Partners
- Advisors
- Registration
- Publications
- News & Events
- Workshop
- Links
- Project Managers
- Intranet

SUSTOIL Intranet Live
Click below to register
Partners Access Only



SUSTOIL (June 2008 - May 2010)

Final SUSTOIL
Dissemination Conference at **RRB6**

The aim of SUSTOIL is to develop advanced biorefinery schemes to convert whole EU oil-rich crops (rapeseed, olive and sunflower) into energy (fuels, power and heat), food and bioproducts (chemicals and/or materials) making optimal uses of the side streams generated during farming/harvesting, primary processing (e.g. oil extraction and refining) and secondary processing (e.g. transesterification).



SUSTOIL will integrate the expertise of 23 project partners with the expertise of an Advisory Board composed of experts from the EU, US and beyond. Economic, social and environmental costs/benefits of optimal integrated schemes will be assessed and main technological challenges/knowledge gaps will be identified, resulting in recommendations of key activities for future collaborative projects.

SUSTOIL will disseminate the results of the action via this website, a (6-monthly) newsletter, 2 workshops (planned in April 2009 and February 2010) and one final dissemination conference organised in collaboration with BIOREF-INTEO (May 2010).

If you wish to be informed of additions to the site, events, etc. and receive notification of each issue of our electronic newsletter as they become available, please complete the on-line registration form or

Website Statistics

Over six and a half thousand visits in less than one and a half years!

Over 28000 page views, with an average of 24 per day

Average visit length: Over 3 minutes

- Publications
- News & Events
- Workshop
- Links
- Project Managers
- Intranet

SUSTOIL - RRB6 Ticket
Click here for more details
One day ticket

6.4%



Biorefinery Reports and Roadmaps

November 2007 - **Status Report Biorefinery 2007**, report commissioned by the Dutch Agency for Innovation and Sustainability (SenterNovem), and co-financed by the Dutch Ministry of Agriculture, Nature and Food Quality (LNV).

June 2007 - **Mapping the Development of UK Biorefinery Complexes : Literature Review**, NNFCC report.

June 2007 - **Mapping the Development of UK Biorefinery Complexes**, NNFCC report.

November 2006 - **Achieving Sustainable Production of Agricultural Biomass for Biorefinery Feedstock**, Biotechnology Industry Organization report.

June 2006 - **How much bioenergy can Europe produce without harming the environment?**, EEA report.

March 2006 - **Biofuels in the European Union - A vision for 2030 and beyond**, Final draft report of the Biofuels Research Advisory Council.

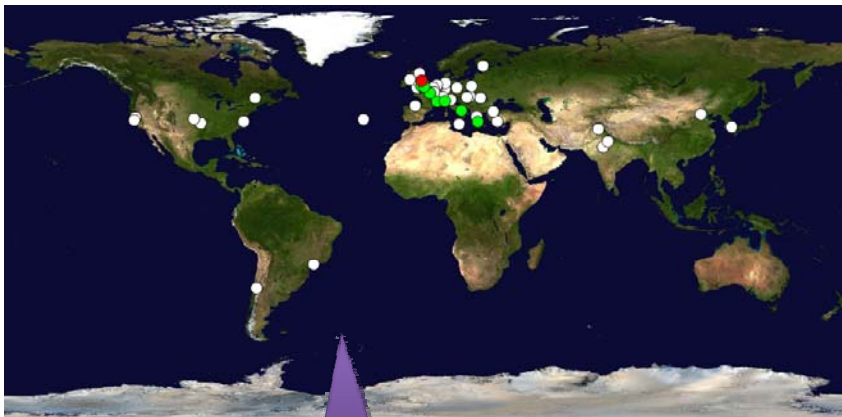
February 2006 - **An EU Strategy for Biofuels**, Communication from the European Commission.

April 2005 - **The vision for 2025 and beyond - A European Technology Platform for Sustainable Chemistry**, SUSCHEM report.

April 2005 - **Biomass as Feedstock for a Bioenergy and Bioproducts Industry. The Technical Feasibility of a Billion-Ton Annual Supply**, Joint USDA and USDOE report.

August 2004 - **Top Value Added Chemicals from Biomass Volume I - Results of Screening for potential candidates from Renewable and Synthetic Gas**, IIS/USDA report.

Website Statistics



Recent 100 Visitors

Sustoil First Workshop

April, 2009

First Sustoil workshop held in Foggia, Italy

Main focus on WP1, WP2 and WP3

External stakeholders also invited



Sustoil Second Workshop

February, 2010

Second Sustoil workshop held in Toulouse, France

Main focus on WP5 and WP6

Detailed discussion over two days



Sustoil Newsletter

The newsletter was published on the Sustoil website (www.sustoil.org).

Also sent to a network of investment, business and academic .

6 monthly SUSTOIL newsletter in collaboration with Bioref-Integ.



Sustoil Publications

"Innovation niches and socio-technical transition: A case study of bio-refinery production"

"Green Technologies" for the journal Philosophical Transactions A of the Royal Society (UK)

"Socio-technical transition towards green technologies: a review of various methodologies".

"A comprehensive study of reaction parameters in the enzymatic production of novel biofuels integrating glycerol into their composition"

"Jatropha curcas (L): A Promising Biofuel Plant, Current Status and Future Prospects"

"Exploitation of sunflower and rapeseed crops residues for methane production. Poster presentation."

**Advanced Oil Crop
Biorefineries:**
to be published by the
Royal Society of Chemistry
– A book based on Sustoil

Sustoil Data CD

Acknowledgements

Professor James Clark

Professor Ray Marriott (Sustoil Coordinator)

Sarah-Lumley Holmes (Events and Marketing
Coordinator)

Sustoil Partners