

SCOPING DOCUMENT

JOINT WORKSHOP: ERA-NET BIOENERGY
AND
**IEA BIOENERGY TASK 42 BIOREFINERIES:
CO-PRODUCTION OF FUELS, CHEMICALS,
POWER AND MATERIALS FROM BIOMASS.**

Date: 17th September 2009

OBJECTIVE: Identify potential projects that could be considered by ERA-Net Bioenergy for joint calls.

Current activities of IEA Task 42

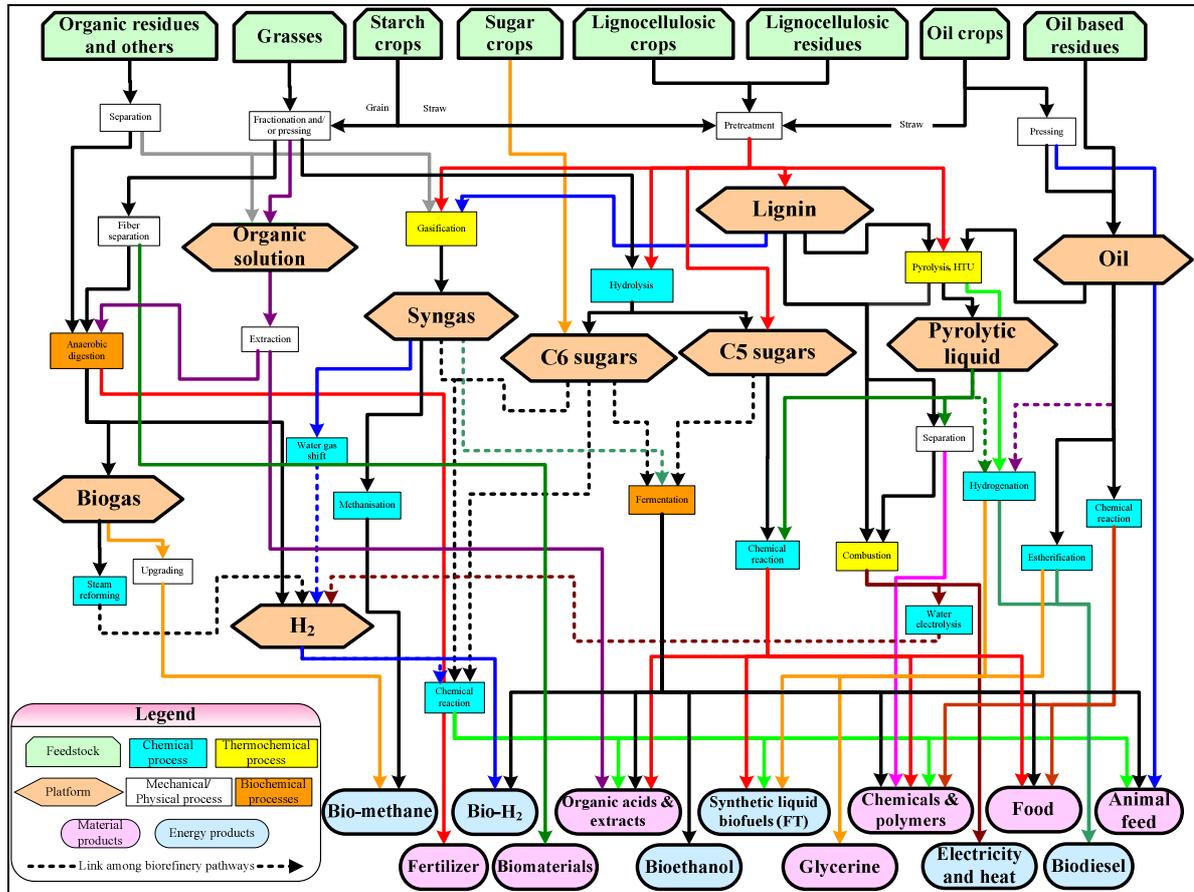
The current activities of IEA Task 42 can be broadly defined as follows:

- Organising meetings between National Task Representatives and their national stakeholders by inviting them to bi-annual Task Meetings and related workshops, and informing them on the latest developments within the biorefinery field (through minutes bi-annual Task Meetings, newsletters).
- External knowledge dissemination through i) setting-up and management of the Task website, ii) preparation and distribution of a Task newsletter (4 times a year), and iii) preparation of an Annual Status Report on Biorefineries in the Participating Countries.

Specific actions that have been ongoing to date are as follows:

1. Bringing together key stakeholders normally operating in different market sectors (e.g., agriculture and forestry, transportation fuels, chemicals, energy, etc.) in multi-disciplinary partnerships to discuss common biorefinery-related topics, to foster necessary RD&D trajectories, and to accelerate the deployment of developed technologies (platform function).
2. Fine-tuning and finalising the Biorefinery Classification System (see diagram on ext page) and the Definition (if necessary).
3. Mapping and assessing biorefinery-related RD&D programmes in the Participating Countries to help national governments to define their national biorefinery policy goals and related programmes.
4. Identifying the most promising bio-based products – i.e. food, feed, added-value materials (a.o. fibre-based) and chemicals (functionalised chemicals and platform chemicals (building blocks)) to be co-produced with bioenergy, to optimise overall process economics, and minimise the overall environmental impact. This process will include a rough estimation on current/future market volumes and prices.
5. Assessing the current status and developments within three (one per year) specific biorefinery areas, viz.: “biofuel-driven”, “marine”, and “food/feed-driven”.
6. Preparing a Strategic Position Paper concerning “Adding Value to the Sustainable Utilisation of Biomass on a Global Scale – Biorefinery”.

7. Developing and implementing a M.Sc. level biorefinery course to familiarise students with the concept of biorefineries and the underpinning logic.



Expected output of Joint workshop

ERA-Net Bioenergy reviewed the biorefinery area based on a draft document prepared in conjunction with the Irish country representative of IEA Bioenergy Task 42. Following discussion two areas were identified as possibilities for projects that might lead to joint call(s) under ERA-Net Bioenergy:

1. Project of further assessments that identify best practice in present biorefinery technology e.g. Mapping and assessing (point 3 above).
2. Project that groups countries and industry in several countries to accelerate adoption of suitable feedstock to technology based upon resources within particular countries/regions.

Without excluding other possible proposals from the discussion, it is proposed that the workshop examine these two areas with a view to developing some outline projects for consideration by ERA-Net Bioenergy as possible topics for joint calls.