

Final report

1.1 Project details

Project title	Participation in IEA Bioenergy Task 39 and 42 2013-2015
Project identification (program abbrev. and file)	EUDP, 64012-0245
Name of the programme which has funded the project	Energiteknologisk Udviklings- og Demonstrations Program (EUDP)
Project managing company/institution (name and address)	Københavns Universitet Institut for Geovidenskab og Naturforvaltning, IGN Rolighedsvej 23 1958 Frederiksberg
Project partners	DTU (Henning Jørgensen)
CVR (central business register)	29979812
Date for submission	

1.2 Short description of project objective and results

The objectives are to participate in the networks and activities of the IEA task 39 and 42 with the purpose of sharing knowledge and information relating to the commercial development and implementation of liquid biofuels and biorefineries.

The results of the project are an extensive international network open for Danish industry, academia and other stakeholders in the biofuels and biorefinery area. Furthermore, the two tasks are also platforms for increasing the visibility and knowledge of Danish research and technology.

1.3 Executive summary

As part of the International Energy Agency collaborative efforts the University of Copenhagen and Technical University of Denmark have participated in the activities of Task 39 Liquid Biofuels and Task 42 Biorefineries. The outcome is an extensive international network open for Danish industry, academia and other stakeholders in the biofuels and biorefinery area. Furthermore, the participation and collaboration are also platforms for increasing the visibility and knowledge of Danish research and technology.

1.4 Project objectives

See 1.2

1.5 Project results and dissemination of results

The results of the project as well as their dissemination are the networking activities and publications as listed and described below:

Meetings/Conferences

25-27/3 2013: Participation in "20th International Symposium on Alcohol Fuels (ISAF)" and Task 39 meeting, Stellenbosch, South Africa.

10-11/4 2013: Participation in Task 42 meeting, Wageningen, Holland.

23-25/10 2013: Participation in Task 42 meeting and the workshop "The Role of Biorefining in a Future BioEconomy", Graz, Østrig.

19-23/3 2014: Participation in the conference "Fuels of the Future" and joint meeting between task 39 and 42, Berlin, Germany.

3/9 2014: Co-planner of Workshop IEA Bioenergy Task 42 – "The role of industry in a transition towards the BioEconomy (BE) in relation to biorefinery" as part of the conference i-SUP 2014, Antwerpen, Belgium

29/11 - 6/12 2014: Participation in "Canadian Bioeconomy Conference" and internal Task 42 meeting in Toronto, Canada. The meeting included technical visits at the 1G bioethanol plant IGPC, Aylmer, Ontario <http://www.igpc.ca/> as well as the BioProducts Discovery and Development Centre at the University of Guelph.

9-14/3 2015 Participation in the International Symposium on Alcohol Fuels, Gwangju, Korea.

4-6/5 2015: Participation in IEA Bioenergy intertasks (Task 40 and 42) workshop and Italian stakeholders meeting on biorefineries, Sassari, Italy. Workshop "*Biomass Trade and Supply in a Global Bio-Based Economy*" as well as Task 42 meeting. Technical visit to MATRICA Biorefinery.

25-30/10 2015: Participation in "IEA Bioenergy Conference 2015", and internal meetings in Task 39 og 42 i Berlin, Germany. Technical visit Verbio ethanol plant, Schwedt, Germany.

26-27/11 2015: Participation in "Global Bioeconomy Summit 2015" and co-planner of parallel Task 42 workshop "The Future Role of Biorefining in the Bioeconomy", Berlin, Germany.

Publications/presentations in the project period which has been prepared or to which input has been delivered:

- "Straw-based bioenergy/biorefinery supply chain", intern rapport til Task 39 i forbindelse med Inter-Task projektet om mobilisering af biomasse, 2013.
- "Biofuel Driven Biorefineries" – rapport Task 42 2013. http://www.iea-bioenergy.task42-biorefineries.com/upload_mm/6/1/1/5edb2017-45dc-452c-b89b-cc14df29dbf0_Biofuel-driven%20Biorefineries%20Report%20LR%20February%202013.pdf
- "Update on implementation agendas 2014 - A review of key biofuel producing countries" rapport Task 39, 2014. <http://task39.sites.olt.ubc.ca/files/2013/05/Implementation-Agendas-8-April-2014.docx>
- Task 39 Country report for Denmark 2015: "Biofuel research and commercial development in Denmark". <http://task39.sites.olt.ubc.ca/files/2015/06/IEA-Bioenergy-Task-39-Newsletter-Issue-39-May-2015-final.pdf>
- "Upgrading Strategies for Industrial Infrastructures – Integration of Biorefineries in Existing Industrial Infrastructure". Rapport Task 42 2014. http://www.iea-bioenergy.task42-biorefineries.com/upload_mm/8/5/9/fdb36277-ef48-497c-a9cc-ac67f4d82444_Biorefinery%20integration%20in%20industrial%20infrastructure%20Working%20document%2020141218.pdf
- "IEA Bioenergy Task 42 Biorefining" – Task brochure 2014. http://www.iea-bioenergy.task42-biorefineries.com/upload_mm/8/4/2/29d02f79-75f4-4a4a-94a3-f286be30414c_11901%20IEA%20Bioenergy%20Task42_LR.pdf
- "Task 42 Country report Denmark 2014". Rapport Task 42 2014. <http://www.iea-bioenergy.task42-biorefineries.com/en/ieabiorefinery/show-8/Country-report-Denmark-2014-available.htm>
- "The role of industry in a transition towards the BioEconomy in relation to biorefinery". Rapport Task 42 2015. http://www.iea-bioenergy.task42-biorefineries.com/upload_mm/4/3/1/5881893f-6abd-415d-9e34-f40618298bce_The%20role%20of%20industry%20in%20a%20transition%20towards%20the%20BioEconomy%20in%20relation%20to%20biorefinery%20-%20final.pdf

- Presentation: "Bioethanol production from lignocellulosic biomass at high solids concentrations: Overcoming the barriers" at 20th International Symposium on Alcohol Fuels (ISAF), 25-27 March 2013, Stellenbisch, South Africa.
- Presentation: "Using Straw and MSW for Biorefineries in Denmark – Technical Developments and Demonstration Activities" at the workshop "The Role of Biorefining in a Future BioEconomy", Graz, 23/10 2013.
- Presentation: "Recent progress on biofuel commercialization activities in Denmark", ved "Fuels for the Future" conference, Berlin, 19-21/3 2014
- Presentation: "The role of industry in a transition towards the BioEconomy (BE) in relation to biorefinery" at the i-SUP conference Antwerpen, Belgium 3/9-2014
- Presentation: "Country report Denmark" at Task 42 meeting in Sassari, Italy 4-6/5 2015
- Presentation: "Role of Industry in a Transition Towards the Bioeconomy in Relation to Biorefinery" at IEA Bioenergy Conference 2015, Berlin, 26-27/10 2015
- Presentation: "Role of Industry in a Transition Towards the Bioeconomy in Relation to Biorefinery" at workshop arranged by Task 42 back-to-back "Global Bioeconomy Summit 2015", Berlin, 25-26/11 2015

1.6 Utilization of project results

Knowledge sharing and dissemination to Danish stakeholders of the network activities and fora has been an ongoing effort through the project period. These activities and knowledge are important for not only the industrial and academic research and development of the field but also for development of policies and regulation in the energy sector.

1.7 Project conclusion and perspective

The IEA collaboration in task 39 and 42 are important for both academia and industry. It will continue to be an important and very efficient platform for international collaboration on the commercial development of liquid biofuels and biorefineries.

Annex

Relevant links