

Task 40

Sustainable International Bioenergy Trade

IEA Bioenergy

IEA Bioenergy Task 40 Newsletter | Issue 1, 2012 | [Official website](#) | [Unsubscribe](#)

ABOUT US

Task 40 is an international working group under the IEA Bioenergy Implementing agreement. We conduct studies and organize events on various topics related to sustainable international bioenergy trade. Follow us on <http://www.bioenergytrade.org>

The Task is jointly led and coordinated by André Faaij (Copernicus Institute, Utrecht University) and Peter-Paul Schouwenberg (RWE Essent). Martin Junginger and Chun Sheng Goh (Copernicus, UU) are assisting and logistically supporting the Task. Kees Kwant (Agentschap NL) is Operating Agent for the Task.

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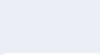
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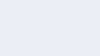
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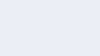
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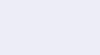
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IEA BIOENERGY TASK 40
COUNTRY REPORTS 2011

	Austria
	Finland
	Germany
	The Netherlands
	Norway
	Sweden
	United Kingdom
	United States of America

Report: Global wood pellet market and trade study

T40 has published the "Global wood pellet market and trade study" report in December 2011. This [report](#) [6.186 KB] presents the wood pellet industry and market in Europe and North America. It also includes perspectives of domestic use and trade of wood pellets in emerging markets (Asia and Latin America) and the challenges to ensure a sustainable pellet trade. It consists estimations of global wood pellet production and consumption and their trends, production capacity, utilization rate, trade statistics, prices and other trade information at country level for 2010.

[Click here for full report](#)

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Past event: Biomethane Trade Workshop in "Fuels of the future" Berlin, Jan 2012

The workshop "[Biomethane Trade](#)" took place on the 24th of January 2012 as part of the conference "Fuels of the future" at the International Conference Center (ICC) in Berlin, Germany. It was jointly organized by IEA Bioenergy Task 40, the funding program of the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety "Biomass Energy Use" and the Fachagentur Nachhaltende Rohstoffe (FNR), and the German Bioenergy Association (BBE).

Biomethane, having the advantage to be able to make use of the already existing natural gas grid for distribution, is expected to play a significant role in the biofuel sector in the future. Important stakeholders and experts from industry as well as from academia gathered at this workshop to present and discuss the latest developments in this rapidly growing market.

Generally, there are two pathways for biomethane production: biochemical and thermochemical conversion. Over the years, the plant number and production capacity of biochemical production of biomethane has increased, and is expected to grow in the future as well. Most of the biomethane plants are located in Germany, Sweden, Switzerland and the Netherlands. On the other hand, there is also a great effort to develop thermochemical conversion of biomass to bio-SNG (synthetic natural gas), considering its large potential. Currently no operating plants produce bio-SNG via thermochemical conversion (a 1 MW_{SNG} demonstration plant has been built in Güssing, Austria).

The European market for biomethane is growing rapidly, and so the trade of biomethane across borders is getting more important. The recently published study "Focus on – Biomethane" gives an overview of the latest developments and selected country profiles. (Download here: <http://www.energetische-biomassenutzung.de/de/downloads/veroeffentlichungen.html>) At this workshop, various possibilities for better use of biomethane and knowledge exchange between different countries were presented and discussed. Furthermore, biogas certification is expected to simplify the trade while at the same time addressing the sustainability issue (including the origin). Another scenario of international cooperation could be the implementation of a heavy duty dual-fuel truck corridor from north to south which involves different countries along the route. The experts agreed that instruments should be developed to secure the fair evaluation and trade of biomethane in Europe.

The following topics were presented:

- * Biomethane in Europe – Status Quo & Perspectives
- * Biomethane from Biogas - Case study Sweden
- * Methane production from woody biomass
- * Corridor of liquefied biomethane for road transports
- * National expectations and promotion plans for biomethane
- * Biomethane for long distance transport - Results of the EU-project "Scandria biogas corridor"
- * Research and demonstration for biomethane from Eastern Europe & quality demands for sustainable biomethane
- * Indirect land use change of biomethane use
- * International supply options for delivering SNG to the EU markets

Download the [presentations](#), [full program](#), and [full press release](#)

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Report: Country Reports 2011

This country reports were written within the frame of IEA Bioenergy Task 40. These are the most up-to-date country reports written by all Task 40 members. [Country report 2011](#) for [Austria](#), [Finland](#), [Germany](#), [the Netherlands](#), [Norway](#), [Sweden](#), [United Kingdom](#) and [United States](#) are now available.

Generally, the country report consists of the following elements:

1. General introduction
2. Energy policy
3. Biomass resources
4. Current and expected future energy use of biomass
5. Current biomass (energy) users
6. Biomass prices
7. Biomass import and export
8. Barriers and Opportunities

Please find the specific country reports on the left bottom column, or click [here](#).

Past event: Joint workshop: Quantifying and managing land use effects of bioenergy in Campinas, Brazil, Oct 2011

In October 2011, Tasks 38, 40 and 43 jointly organized a [workshop on land use effects of bioenergy in Campinas, Brazil on September 19-21 2011](#). This workshop aimed to bring together state-of-the-art research assessing the impacts of the increasing allocation of land use to dedicated energy crops (e.g. land-use related GHG emissions, and impacts on biodiversity and environment), and providing strategies to mitigate them. Please download the [final program](#) [659 KB] with details on the program (including a list of all oral presentations and poster presentations and all abstracts), field trips, hotels, logistics etc. The presentations are now also available for [download](#).

Report: Development of a tool to model European biomass trade - Report for IEA Bioenergy Task 40

This [report](#) [4.736 KB] presents the results of an effort for IEA Bioenergy Task 40 to develop a modelling tool for international biomass trade. Part of this work has also been done in the frame of the RE-Shaping project, and parts of the methodology and the results have also been published as a RE-Shaping deliverable (Hoefnagels, Junginger et al. 2011). In addition, the scenarios for International solid biomass imports were originally developed for the European Commission (Junginger, 2011).

The main aim of this report is to illustrate the approach to include logistic cost of biomass in an energy model and implications to supply and demand of biomass for bioenergy. The costs, as presented in this report, are not intended to and do not always reflect actual (fluctuating) prices of feedstocks, pre-processing and transport of bulk freight.

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“Monitoring sustainability certification of bioenergy” (joint with T38 and T43)

At present numerous biomass and biofuel sustainability certification schemes are being developed or implemented by a variety of private and public organisations. Schemes are applicable to different feedstock production sectors (forests, agricultural crops), different bioenergy products (wood chips, pellets, ethanol, biodiesel, electricity), and whole or segments of supply chains. This wide range of schemes, developed largely without coordination among the organisations involved, may create confusion among the actors, depression of markets, and unnecessary cost burdens and restrictions on sustainable trade.

Within IEA Bioenergy a strategic study was initiated among Tasks 40, 43 and 38 to monitor the actual implementation process of sustainability certification of bioenergy, evaluate how stakeholders are affected by certification initiatives, quantify the anticipated impact on worldwide bioenergy trade, assess the level of coordination among schemes, and make recommendations to remove barriers which may depress markets and reduce sustainable trade. Consulting different stakeholder groups and obtaining a view on how certification schemes are operating and impacting markets is one of the main objectives of the study. It is anticipated that recommendations be representative of the whole bioenergy certification sector and therefore have high potential to improve an otherwise uncoordinated interest in ensuring bioenergy trade is sustainable.

The study was started in January 2012 and stakeholders will be consulted in the coming months. First results will be presented at the European Biomass Conference in June.

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