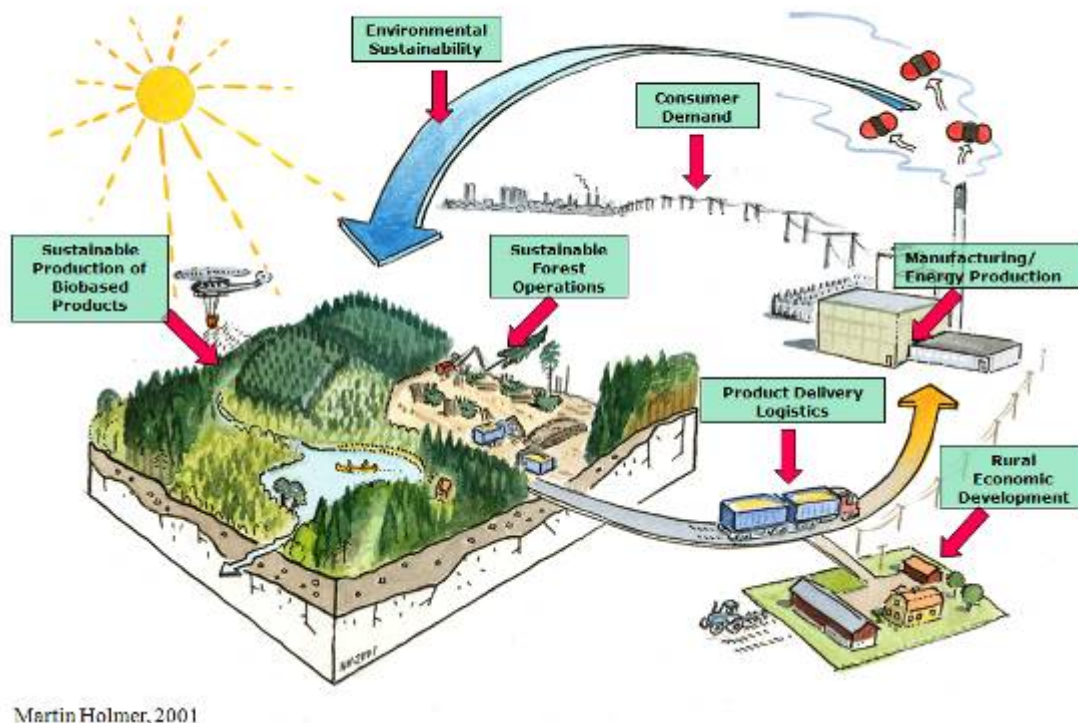


## Task 43: Biomass Feedstocks for Energy Markets



## Critical Components of Sustainable Bioenergy Production Systems



### Objective

To promote sound bioenergy development that is driven by well-informed decisions in business, governments and elsewhere.

This is achieved by the timely provision of information from rigorous analysis and synthesis and clear conclusions. Our focus is on all fields related to biomass feedstocks including biomass production (crops and supply chains), biomass markets and the socioeconomic and environmental consequences of feedstock production.



### Work scope for the Task period (2010-2012)

The Task is concerned with issues related to the linking of sustainable biomass feedstocks to energy markets, explicitly considering environmental and socio-economic aspects. It has a global scope and includes commercial, near-commercial and promising production systems in agriculture and forestry. Systems analysis integrated over several disciplines are used to evaluate alternatives across sectors and explicitly examine issues related to tradeoffs, compatibility and synergies between food, fibre and energy production systems and related markets.

A central aim is to achieve strong outreach and impact as a result of Task activities. The Task will have a significant international impact by producing and providing timely and policy-relevant science and technology specifics to targeted audiences for policy analysis and bioenergy market development.

## Work Program

The work program is organized to effectively meet the task objectives by addressing the following questions:

- How can we further develop and implement feedstock production systems to provide practical solutions for energy security, climate change, and sustainable development?
- How can policy and market-based instruments effectively promote sustainable development, and how can science-based sustainability criteria and standards be formulated to take into account the vast regional variation in conditions for production of different feedstock?
- What are costs and gains associated with productivity, competitiveness and environmental performance of feedstock supply systems and how do they impact deployment and market penetration of the systems?
- What are the motivations, opportunities and capabilities for producers in agriculture and forestry to change from conventional production systems to deploy integrated sustainable bioenergy production systems in response to new demands?
- What are necessary and sufficient conditions for financial investment in developing feedstock production systems?



## Deliverables



The Task will arrange conferences and workshops, and produce reports and other deliverables throughout the triennium, including policy-relevant reviews, case studies and science and technology briefs. All extensive reports will be complemented with executive summaries directed towards identified target groups that commonly represent a non-scientific audience. The Task will also selectively target central international conferences to maximize outreach. The planning of the work – including identification of target groups for deliverables – takes place in dialogue with the other Tasks within IEA Bioenergy and with the Executive Committee and Secretariat.

## Management

The Task Leaders work with the National Team Leaders to strengthen Task effectiveness and build international and national capacities essential to have credibility in the various feedstock supply sectors, and at the same time, capacity to deal credibly with interconnected themes that comprehensively cover whole bioenergy systems and transcend to landscape, regional, national and international scales. Recognizing the need to integrate feedstock supply with energy conversion and end-use, the Task collaborates with interrelated Tasks as well as conversion Tasks to ensure that analytical and conceptual linkages with markets are strong.



Photographs courtesy of Pär Aronsson, Rolf Björheden, Stig Larsson, Brent Perry, Sorin Popescu, Dominik Röser, and Tat Smith

## Task 43: Biomass Feedstocks for Energy Markets

**Website:** [www.ieabioenergytask43.org](http://www.ieabioenergytask43.org)

### Task Leader

Göran Berndes, Dept. of Energy and Environment, Chalmers University of Technology, SE-412 96 Göteborg, Sweden.  
Phone: +46 31 77203148, +46 730 794287; Fax: +46 31 772 3150; E-mail: [goran.berndes@chalmers.se](mailto:goran.berndes@chalmers.se)

### Associate Task Leader

Tat Smith, Faculty of Forestry, University of Toronto, 33 Willcocks Street, Toronto, Ontario, M5S 3B3, Canada. Phone:  
+1 416 978 5480; Fax: +1 416 978 3834; E-mail: [tat.smith@utoronto.ca](mailto:tat.smith@utoronto.ca)

### Operating Agent

Åsa Karlsson, Swedish Energy Agency, Energy Technology Department, Box 310, SE-631 04 Eskilstuna, Sweden.  
Phone: +46 16 544 2342; Fax: +46 16 544 2099; E-mail: [asa.karlsson@energimyndigheten.se](mailto:asa.karlsson@energimyndigheten.se)

### Secretary and Information Support

Sally Krigstin, Faculty of Forestry, University of Toronto, 33 Willcocks Street, Toronto, Ontario, M5S 3B3, Canada.  
Phone: +1 416 946 8507; Fax: +1 416 978 3834; E-mail: [sally.krigstin@utoronto.ca](mailto:sally.krigstin@utoronto.ca)

### Participating Countries (1 January 2011)

**Australia:** Brendan George, Industry & Investment NSW;  
E-mail: [brendan.george@industry.nsw.gov.au](mailto:brendan.george@industry.nsw.gov.au)

**Canada:** Jeff Karau, Natural Resources Canada; E-mail:  
[jeff.karau@nrcan.gc.ca](mailto:jeff.karau@nrcan.gc.ca)

**Denmark:** Kjell Suadican; University of Copenhagen; E-mail:  
[kjs@life.ku.dk](mailto:kjs@life.ku.dk)

**European Commission:** Jean-Francois Dallemand; Joint  
Research Centre – Institute for Energy; E-mail: [jean-francois.dallemand@ec.europa.eu](mailto:jean-francois.dallemand@ec.europa.eu)

**Finland:** Antti Asikainen; Finnish Forest Research  
Institute (METLA); E-mail: [antti.asikainen@metla.fi](mailto:antti.asikainen@metla.fi)

**Germany:** Jorg Schweinle; Johann Heinrich von Thünen-  
Institute (vTI); E-mail: [joerg.schweinle@vti.bund.de](mailto:joerg.schweinle@vti.bund.de)

**Ireland:** Kevin McDonnell; Johann University College  
Dublin; E-mail: [kevin.mcdonnell@ucd.ie](mailto:kevin.mcdonnell@ucd.ie)

**Italy:** Fabrizio Rossi; Agriconsulting S.p.A.; E-mail:  
[f.rossi@agriconsulting.it](mailto:f.rossi@agriconsulting.it)

**Netherlands:** Jan van Esch, Ministry of Agriculture,  
Nature and Food; E-mail: [w.j.van.esch@minlnv.nl](mailto:w.j.van.esch@minlnv.nl)

**New Zealand:** Peter Hall, Scion; E-mail:  
[peter.hall@scionresearch.com](mailto:peter.hall@scionresearch.com)

**Norway:** Bruce Talbot, Norwegian Forest and Landscape  
Institute; E-mail: [Bruce.Talbot@skogoglandskap.no](mailto:Bruce.Talbot@skogoglandskap.no)

**Sweden:** Dr. G. Egnell, Swedish University of Agricultural  
Sciences; E-mail: [gustaf.egnell@seksko.slu.se](mailto:gustaf.egnell@seksko.slu.se)

**United Kingdom:** Ian Tubby, Forestry Commission  
England; E-mail: [ian.tubby@forestry.gsi.gov.uk](mailto:ian.tubby@forestry.gsi.gov.uk)

**U.S.A.:** Marilyn Buford, USDA Forest Service; E-mail:  
[mbuford@fs.fed.us](mailto:mbuford@fs.fed.us)