

# Fuel Flexibility in Biomass Combustion

The Key to Low Bioenergy Costs?



Sjaak van Loo  
Claes Tullin

World Bioenergy Conference Workshop  
Jönköping, Sweden, 31 May 2006



# Introduction to IEA Bioenergy <sup>(1)</sup>

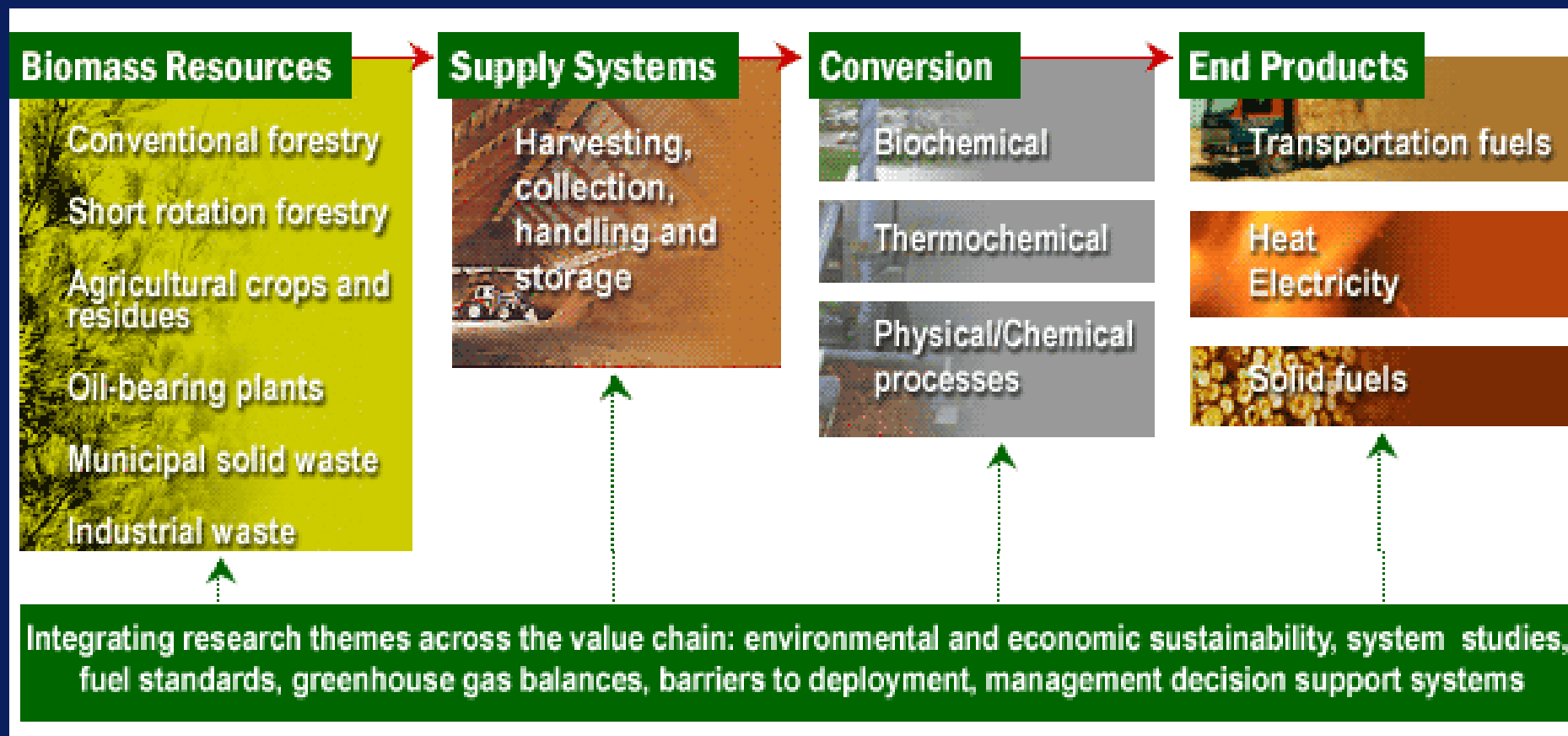
- The IEA was founded to implement an international energy programme in response to the oil shocks.
- Activities are directed towards collective energy policy objectives of energy security, economic and social development, and environmental protection.
- Activities are set up under Implementing Agreements. There are 40 active Implementing Agreements.

IEA Bioenergy



# Introduction to IEA Bioenergy (2)

- **IEA Bioenergy** provides an umbrella organization where experts from research, government and industry work together



[www.ieabioenergy.com](http://www.ieabioenergy.com)

# **IEA Bioenergy Task 32: Biomass Combustion and Co-firing <sup>(1)</sup>**

## **Objectives:**

- **To stimulate further expansion of the production of energy from biomass combustion**
- **Generating and disseminating information on technical and non-technical barriers and anticipated solutions for:**
  - **dedicated biomass combustion systems, and;**
  - **biomass co-firing in existing coal fired power plants.**

# IEA Bioenergy Task 32: Biomass Combustion and Co-firing (2)

- **Experts from 12 countries:**

**Australia**

**Austria**

**Belgium**

**Canada**

**Denmark**

**European Commission**

**Germany**

**Netherlands**

**Norway**

**Sweden**

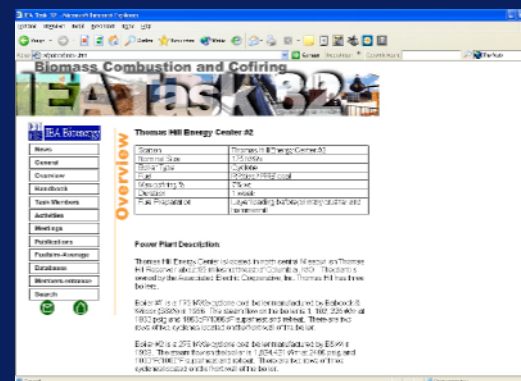
**Switzerland**

**United Kingdom**

- **Working together in:**

- **Cooperative projects**
- **Meetings, Workshops, Conferences, Excursions**
- **Cooperation with other Networks**

[www.ieabcc.nl](http://www.ieabcc.nl)



# Fuel Flexibility: The key to low bioenergy costs?

- The desire to cut costs leads to the use of “**uncommon**” and “**low spec**” biomass fuels
- Determining factors for optimal fuel-technology combination:
  - **market issues**
  - **fuel characterisation and standardisation**
  - **fuel preparation**
  - **fuel quality and deposit formation/emissions**
  - **boiler design**
- We wish you a pleasant and informative Workshop!!