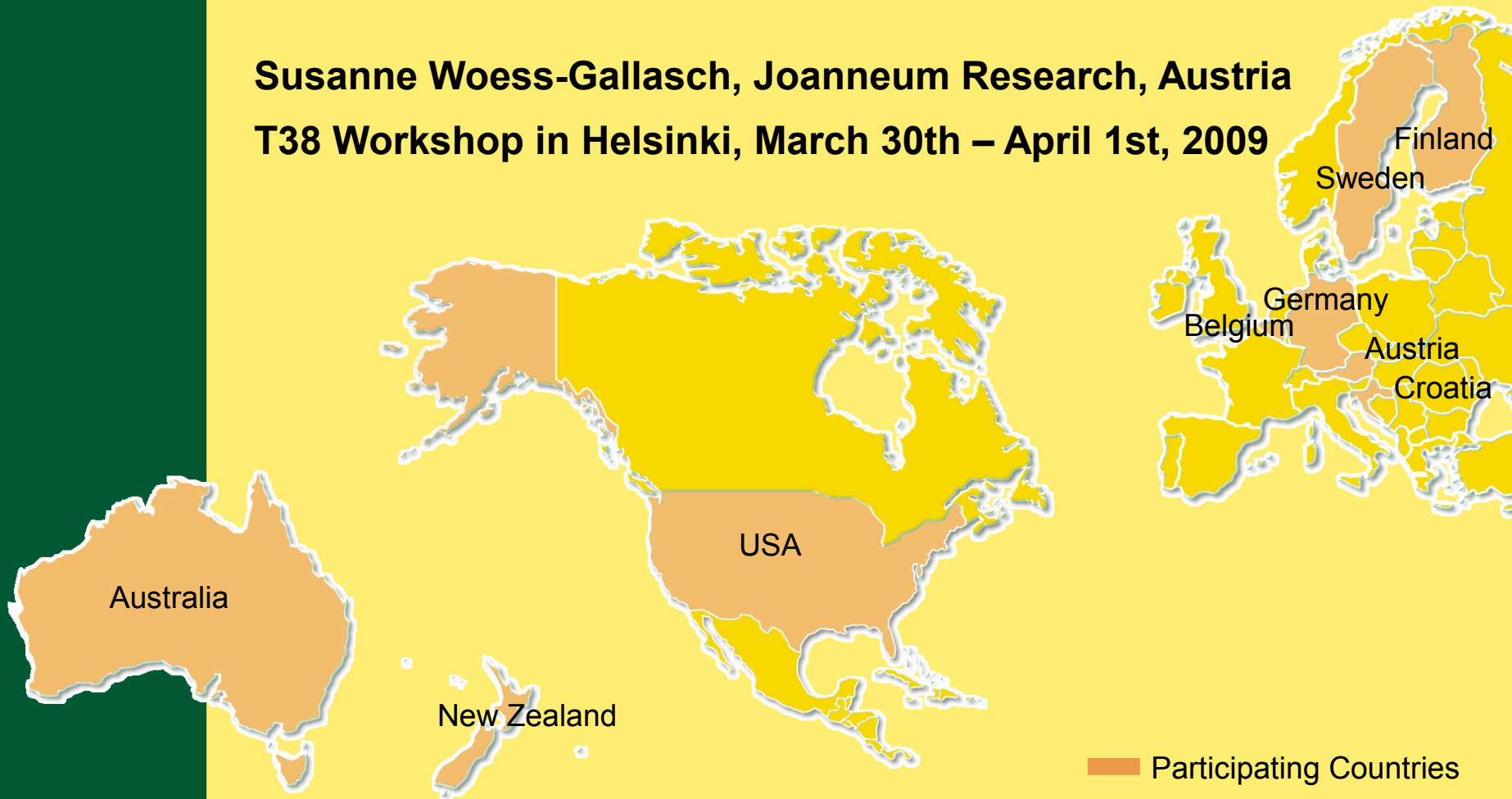


# Greenhouse Gas Balances of Biomass and Bioenergy Systems

Susanne Woess-Gallasch, Joanneum Research, Austria

T38 Workshop in Helsinki, March 30th – April 1st, 2009



- international network for coordinating national RD&D programs and exchanging information,
- set up in 1978 by the IEA, currently 22 countries or organizations are members
- series of Tasks, each with a defined work program
- **Mission:** To facilitate, coordinate and maintain **bioenergy research**, development and demonstration **through international cooperation and information exchange**

# IEA Bioenergy Tasks

- **Biomass resources:** Forestry and agricultural products, municipal solid waste,
- **Biomass conversion:** Combustion, thermochemical and biochemical processes, biorefineries
- **Bioenergy utilization:** Heat and power, transportation fuels,
- **Integrating research themes:** socio-economic drivers, greenhouse gas balances, biomass trade, bioenergy systems analysis.

# Participating Countries and NTLs 2008

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**Australia**

Annette Cowie

**Co-Task Leader**



**Austria**

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**Belgium**

Florence Van Stappen



**Croatia**

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Kenneth Möllersten



**United States**

Mark Downing

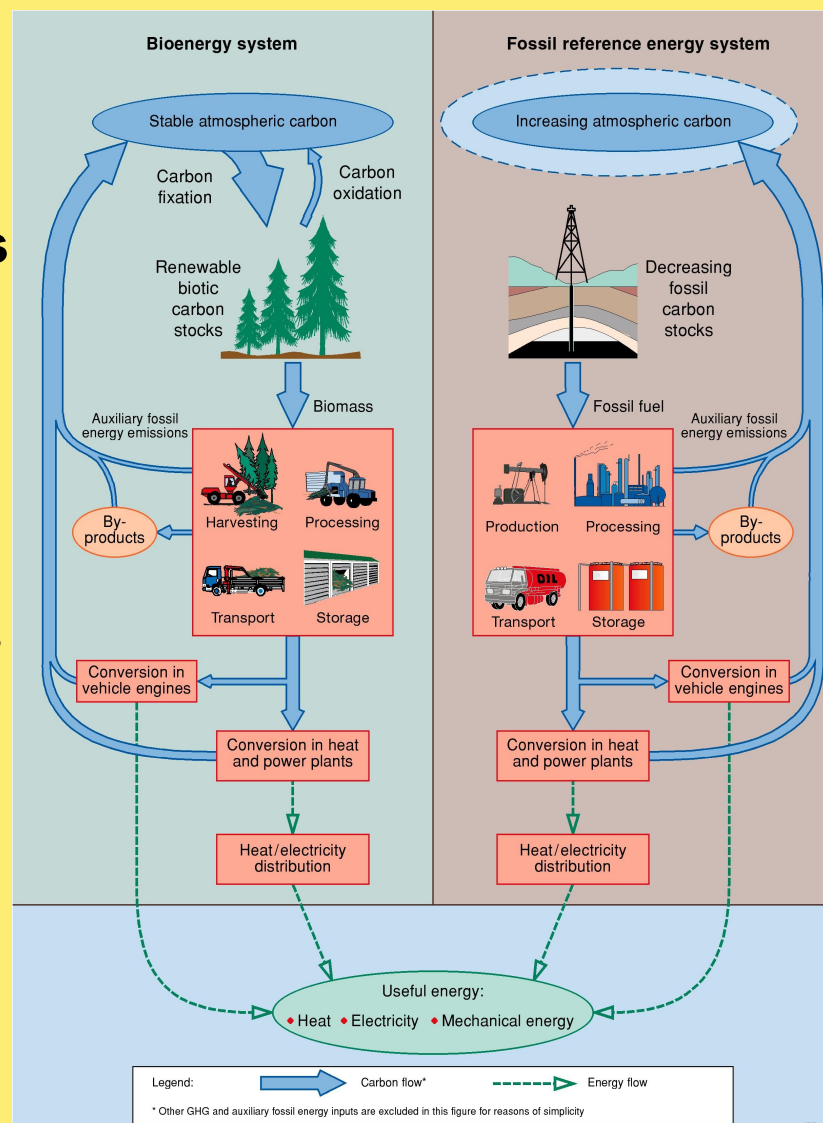
# Objectives of Task 38

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- **Develop, demonstrate and apply standard methodology for GHG balances**
- **Increase understanding of GHG outcomes of bioenergy and carbon sequestration**
- **Address policy relevant issues on GHG mitigation**
- **Promote international exchange of ideas, models and scientific results**
- **Aid decision makers in selecting mitigation strategies that optimize GHG benefits**

# Standard Methodology

- Carbon stock dynamics
- Trade-offs and synergies
- Permanence
- Emission factors
- Efficiency
- Up stream energy inputs
- By-products
- Leakage
- Other GHG's



# IEA Bioenergy

## Task 38

**Thank you for your attention**

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**[www.ieabioenergy-task38.org](http://www.ieabioenergy-task38.org)**



 Participating Countries