Task 38

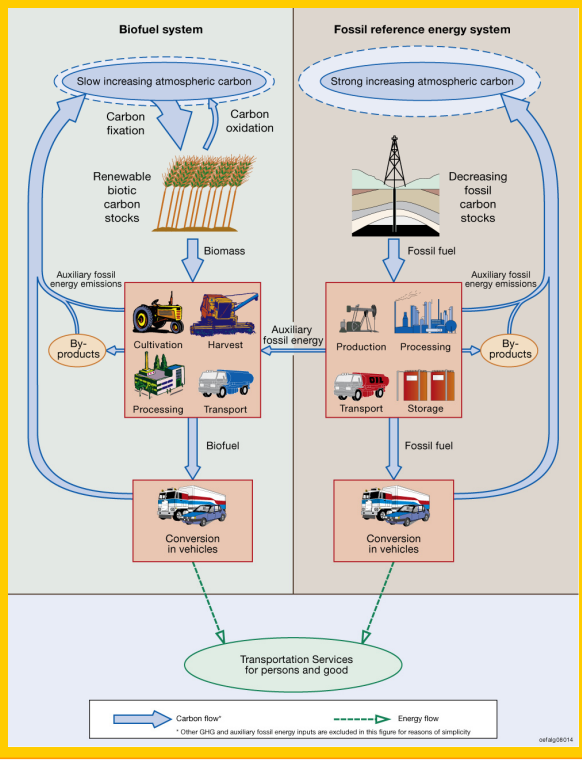
Objectives

- Develop, demonstrate and apply standard methodology for GHG balances
- Increase understanding of GHG benefits 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

Key Activities

- Standard Methodology for GHG Balances of Biomass/Bioenergy Systems and the Methodological toolbox
- Case Studies
- Publications, Papers, Brochures, Presentations
- Organisation of Workshops
- Website
- Cooperation

Standard Methodology for GHG Balances of Biomass and Bioenergy Systems



HIGHLIGHTS

www.ieabioenergy-task38.org

IEA Bioenergy

Task 38 Greenhouse Gas Balances of Biomass and Bioenergy Systems

Case Studies

Australia

co-firing system of biomass and a wood fired conversion facility

Char as a soil amendment

Austria

Maize to biogas for electricity and heat

Canada

Pellet production from woody biomass for use in Europe.

- Bio-oil pyrolysis from sawmill residues and thinnings from a juvenile spacing program

Croatia

- Potential of biodiesel production in the context of Joint Implementation

Finland and Sweden

Sequestration in construction wood versus use co-generation

Ireland

peat use for energy

municipal solid waste as an energy fuel

Netherlands

Wood pellets from Canada and palm kernel shells from Malaysia for energy

New Zealand

Sawmill residues for energy

United Kingdom

Miscanthus fuelled biomass projects

United States

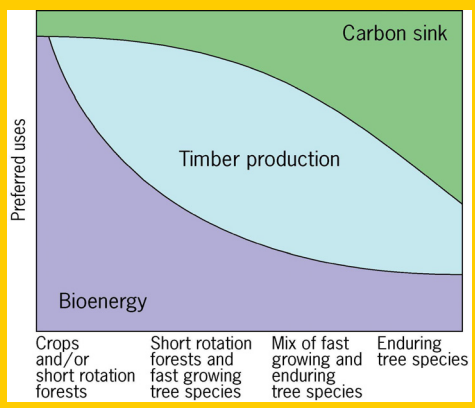
Anaerobic digestion plant of organic wastes

Hot Topics

- Direct and indirect land use change
  - Biofuel
  - Bioenergy
- Albedo change
- Soil organic carbon
- Land use optimization

Coniferous plantations Austria

Eucalyptus and irrigated agriculture, Pietermaritzburg, South Africa



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