

# Global Bioenergy Partnership

*Working together to promote bioenergy  
for sustainable development*

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Global Bioenergy Partnership (GBEP)

*Sustainable Biofuel Production in Tropical and  
Subtropical Countries*

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## G8 Commitments and Mandates

### 2005 Gleneagles Plan of Action:

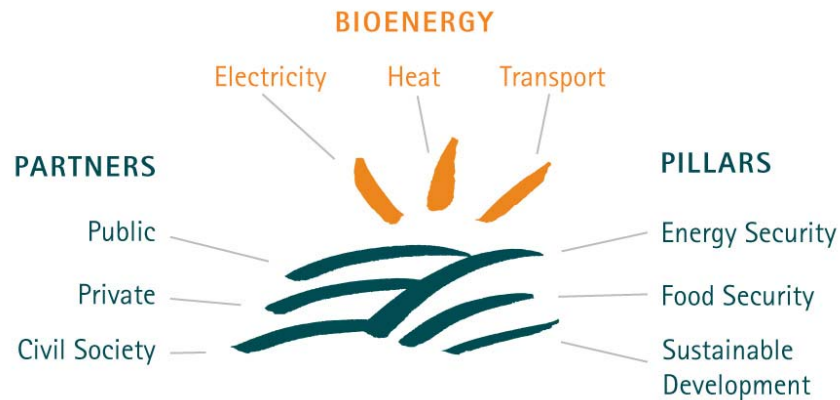
*“We (the G8) will promote the continued development and commercialisation of renewable energy by: [...] d) **launching a Global Bioenergy Partnership** to support wider, cost effective, biomass and biofuels deployment, particularly in developing countries where biomass use is prevalent, following the Rome International Workshop on Bioenergy”.*

### 2007 Heiligendamm Summit Declaration:

*“We invite the **Global Bioenergy Partnership (GBEP)** to continue its work on biofuel best practices and **take forward the successful and sustainable development of bioenergy**”*



## GBEP – Scope, Partners, Pillars



## BIOENERGY: Main Benefits

- **Sustainability:** clean and renewable energy source
- **Availability:** increased energy access - rural areas
- **Flexibility:** power, heat and transport
- **Energy security:** diversified energy mix, domestic sources
- **Mitigation of climate change**
- **Diversification** of rural livelihoods
- **Utilization** of degraded land



## BIOENERGY: Key Challenges

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- Ensuring **sustainability**
- Safeguarding **food security**
- Protecting **biodiversity**
- Managing competition for **land and water**
- Controlling pollution of **air, water and soils**
- Removing barriers to **bioenergytrade**



## GBEP Objectives

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- Favour **efficient and sustainable** uses of biomass
- Facilitate **bioenergyintegration into energy markets**
- Create a **global high-level policy dialogue** and **facilitate international collaboration**
- Foster the **exchange of information**
- Act as a **cross-cutting initiative**, working in synergy with other relevant activities and avoiding duplications



## GBEP Programme of Work

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- **First GBEP Report**  
“A Review of the Current State of Bioenergy Development in G8 +5 Countries”
- Facilitate the **sustainable development of bioenergy** and collaboration on bioenergy **field projects**.
- **Harmonization of methodologies** for measuring GHG emission reductions for transport biofuels and solid biomass
- **Raising awareness** and **information management**

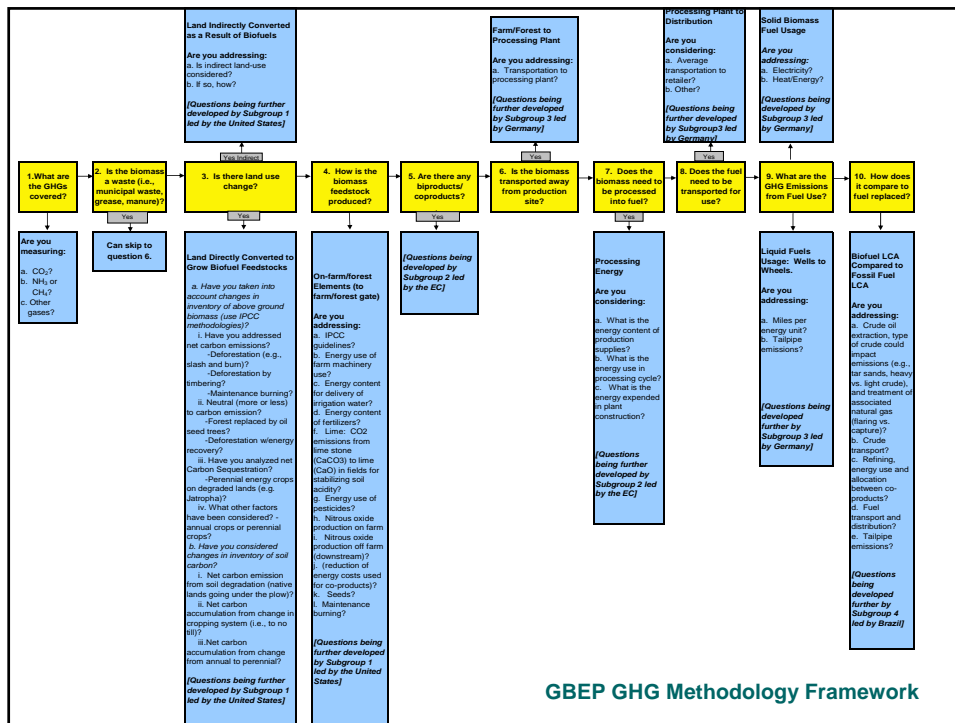


## GHG Methodologies Task Force

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- The GHGs to be covered;
- The effects of direct land use change, both in terms of above and below ground carbon inventories (**US** lead);
- The effects of the production cycle, including fertilizer production, agricultural inputs and processing energy (**EC** lead);
- Fuel Transportation and Use(**Germany** lead);
- Corresponding factors to facilitate comparison with the fuel replaced (**Brazil** lead).





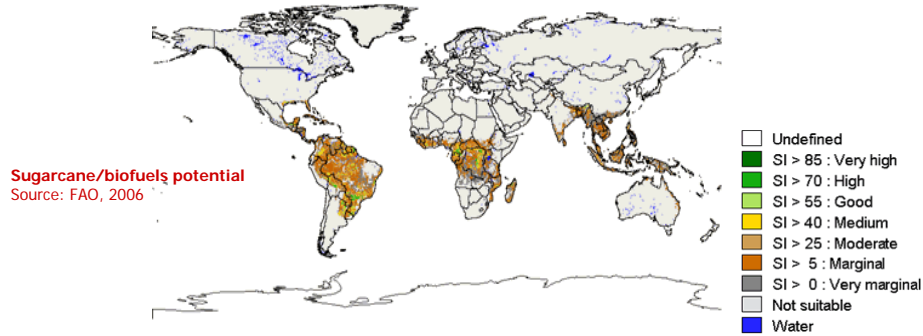
GBEP GHG Methodology Framework

## GBEP - Sustainability Bioenergy Task Force

### Actions and Objectives:

- Develop an inventory of what is being done on bioenergy sustainability internationally;
- Identify and discuss commonalities, differences and issues requiring further consideration;
- Facilitate the sharing of information, data, experiences and best practices relating to sustainable bioenergy production and use;
- Promote shared understanding with a view to developing a voluntary and flexible framework on sustainable bioenergy and ways to achieve it.

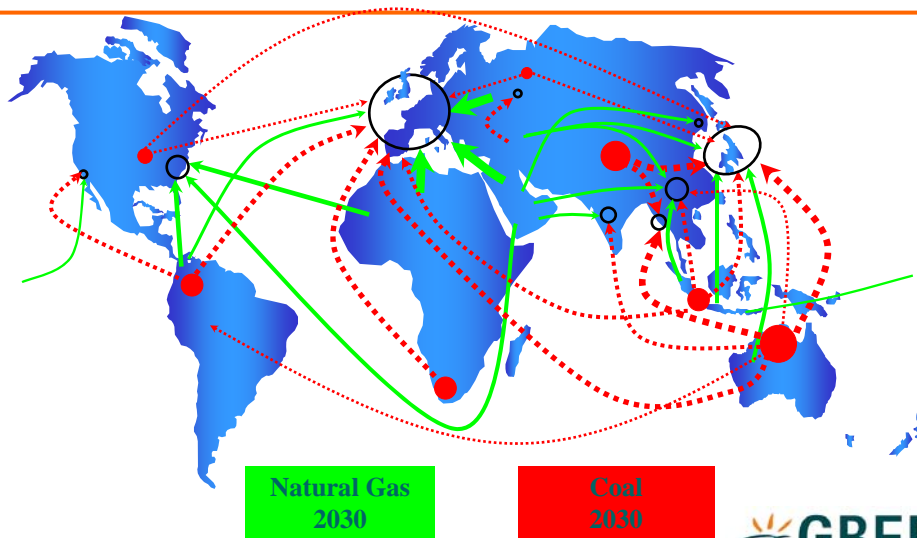
## Bioenergy can change the geography of the global energy market



- > Increasing
  - the diversity of geographic and fuel sources;
  - the energy security;
  - the economic role of developing countries;
  - the development of fuels and technologies towards a low carbon economy.
- > Challenging the fossil fuels economy



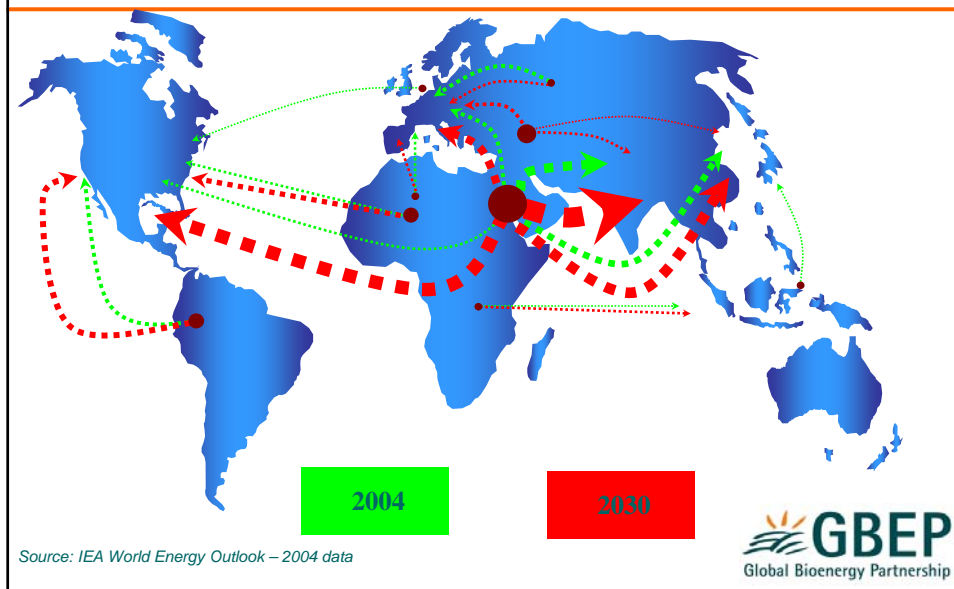
## International Gas and Coal Flows



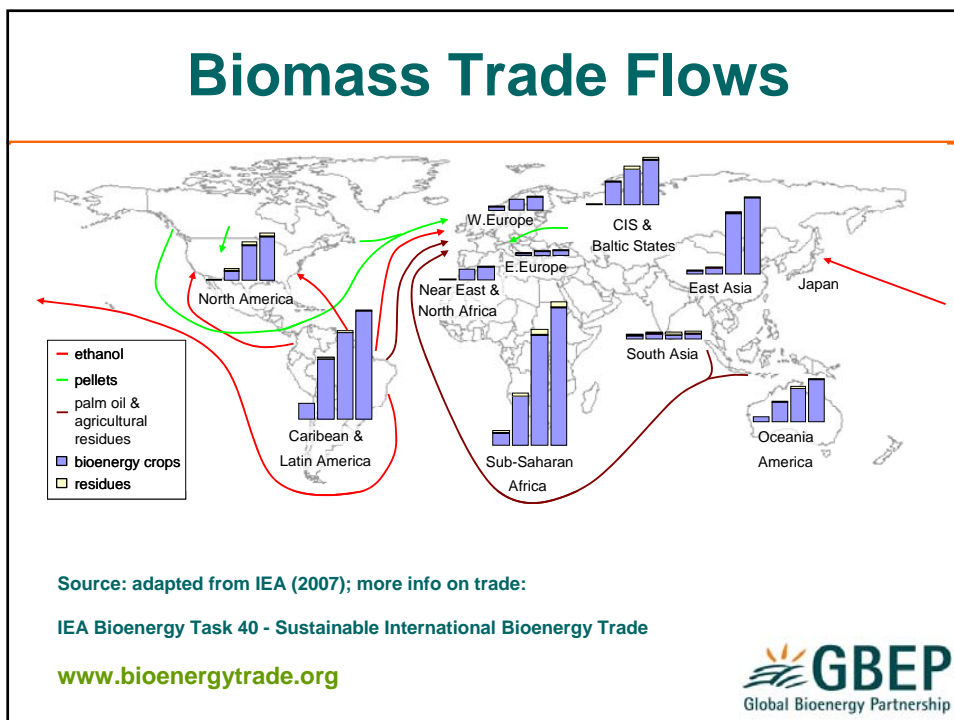
Source: WEC Italy analysis based on IEA World Energy Outlook 2004 and Energy Information and Administration data



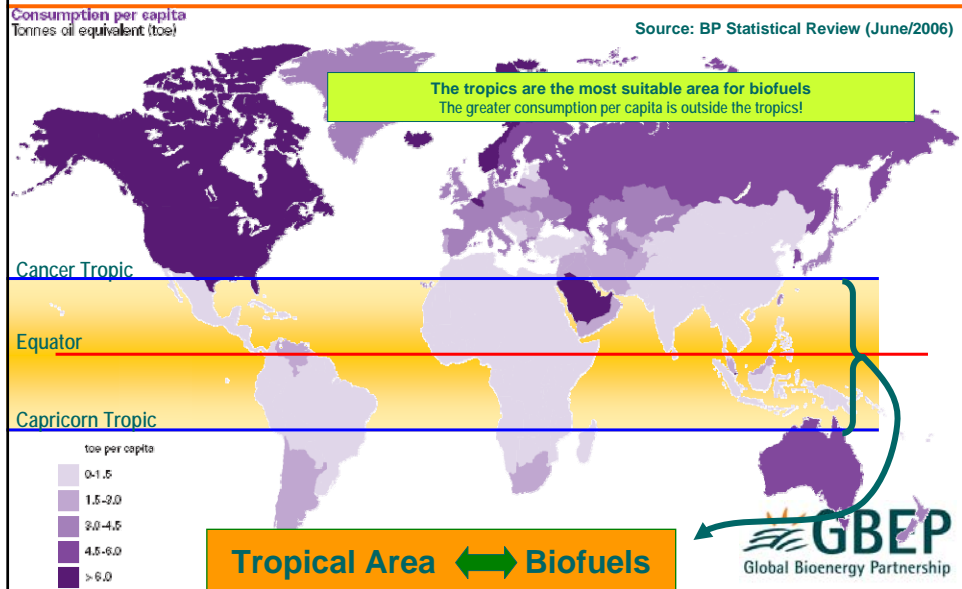
# International Oil Flows



# Biomass Trade Flows



# ENERGY CONSUMPTION/BIOENERGY POTENTIAL



## GBEP Partners' activities in cooperation

- The **United Nations Foundation** is implementing several activities towards the promotion of bioenergy sustainable development and in particular projects such as "**Bioenergy Evaluation Toolkit**" that enable policymakers in performing socio, economic and environmental analyses before selecting bioenergy policy options.
- **UNCTAD** will finalize by the end of 2008 a research study entitled "**The biofuels market: current situation and alternative scenarios**" with the aim of identifying possible trade scenarios resulting from several policy and technology developments. The assumption is that a number of variables may alter the current status of global production and trade of biofuels. The research will detail the qualitative implications of the variables as well as the quantitative trade implications, in order to better understand the future of the biofuels market.
- **Harvard's University** is running the "**Biofuels and Globalization project**" that examine the trade, economic development, and environmental dimensions of the emerging global biofuels industry. Activities underway include examination of potential implications of increased biofuel trade on the economies of developing countries particularly those in tropical regions.

## For further information

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