

Global Bioenergy Partnership

*Working together to promote bioenergy
for sustainable development*

**UN-ENERGY AND SYSTEM-WIDE APPROACH TO CLIMATE CHANGE
“Sustainability and Commercialization of Bioenergy”**

UNFCCC COP 13 – Aston Bali Hotel, 13 December 2007

CORRADO CLINI

GBEP Chair



A CONFLICT OF INTERESTS

Energy security and Climate security

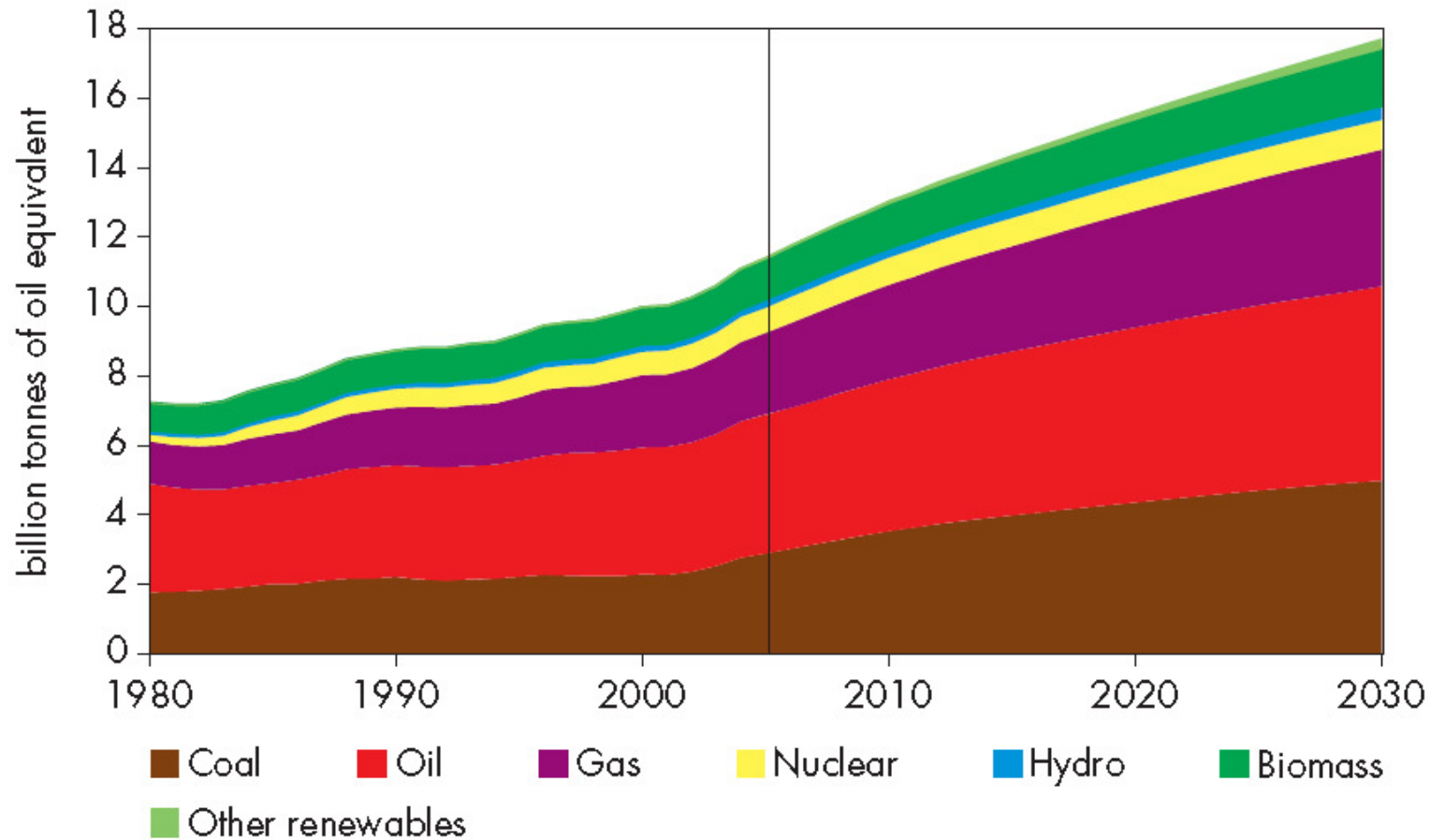
According to the **Intergovernmental Panel on Climate Change (IPCC)** a global emissions reduction by 30%-50% should be reached in the timeframe 2030-2050, to drive the stabilization of CO₂ concentration at a safe level (450-550 ppm) by the end of the century, to avoid irreversible changes in the climate system.

According to the Reference Scenario in the **IEA World Energy Outlook 2007**:

- world energy consumption will increase about 55% in the next 25 years, 84% from fossil fuels;
- the global CO₂ energy related emissions will increase of about 57%.

WORLD PRIMARY ENERGY DEMAND

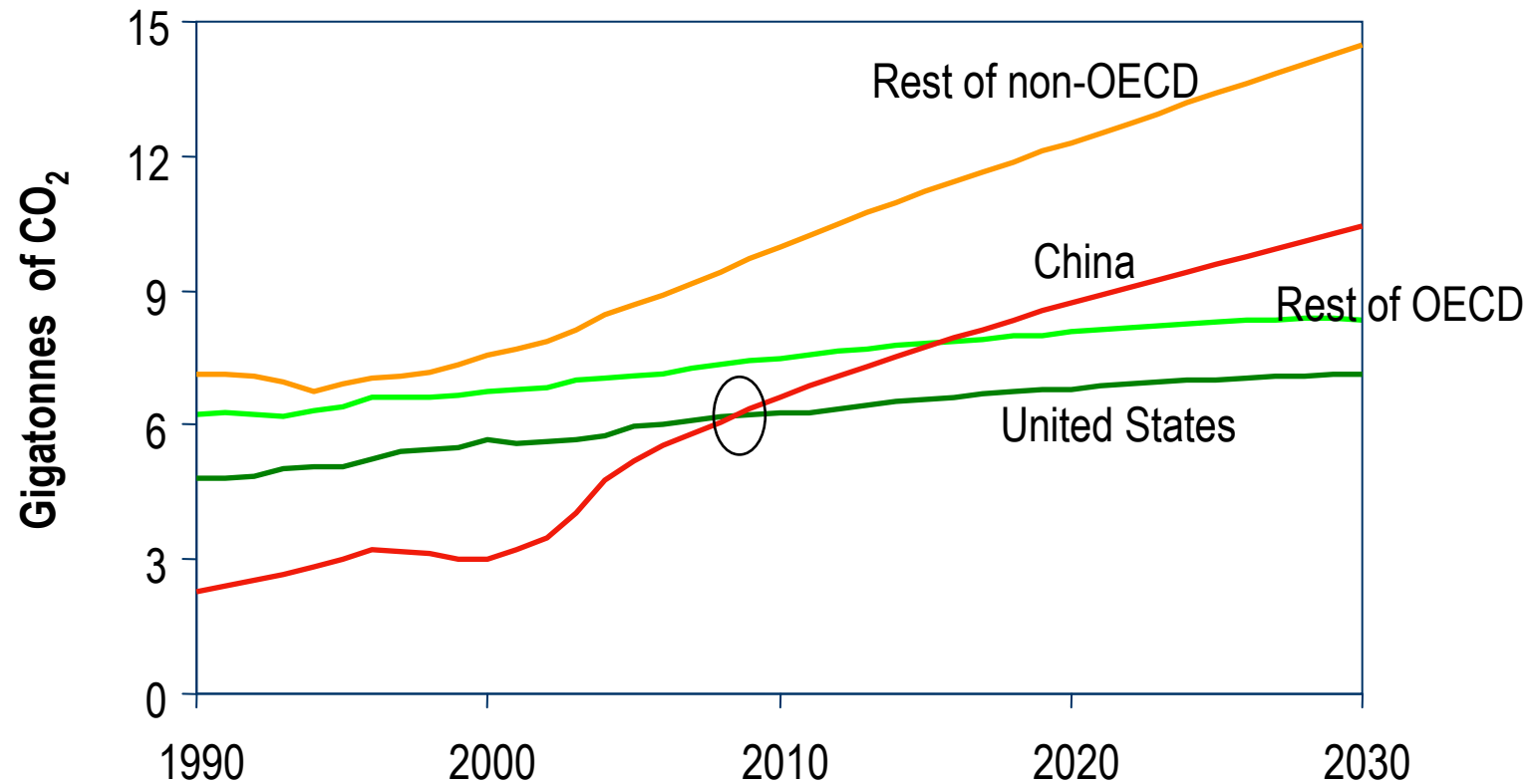
(Reference Scenario WEO 2007)



Source: Reference Scenario WEO, IEA 2007

ENERGY-RELATED CO₂ EMISSIONS

(Reference Scenario WEO 2006)



Source: Reference Scenario WEO, IEA 2006

BIOENERGY

a key role to meet the short term Kyoto targets and the long term CO2 stabilization

To be effective in approaching CO2 stabilization, the long term global strategy and measures should be designed and should start immediately.

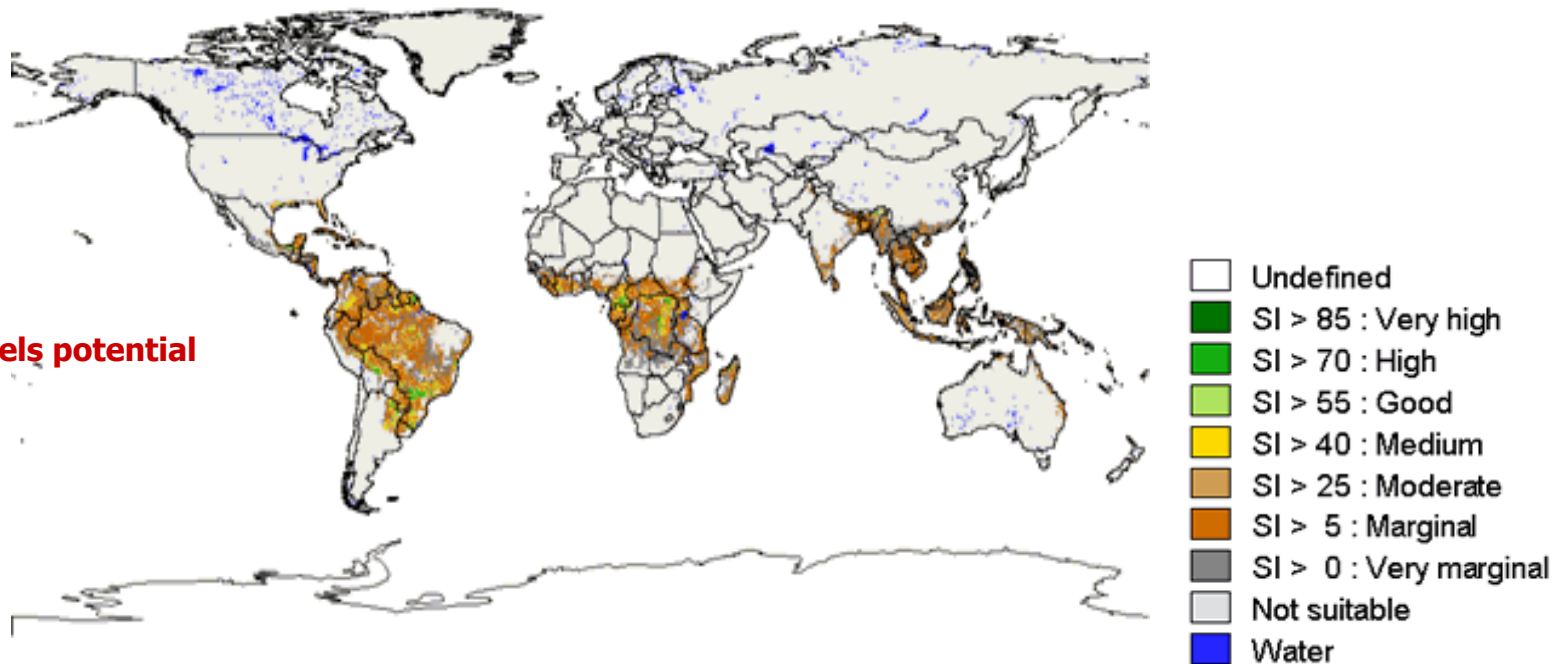
The challenge is to combine the short term measures to meet Kyoto targets with the long term global strategy

Bioenergy can help meeting the increasing energy demand in the short term.

Bioenergy can be “carbon neutral”, effective to reduce the net carbon emissions, palying a key role in “decarbonizing” the future global energy system.

Bioenergy can change the geography of the global energy market

Sugarcane/biofuels potential
Source: FAO, 2006

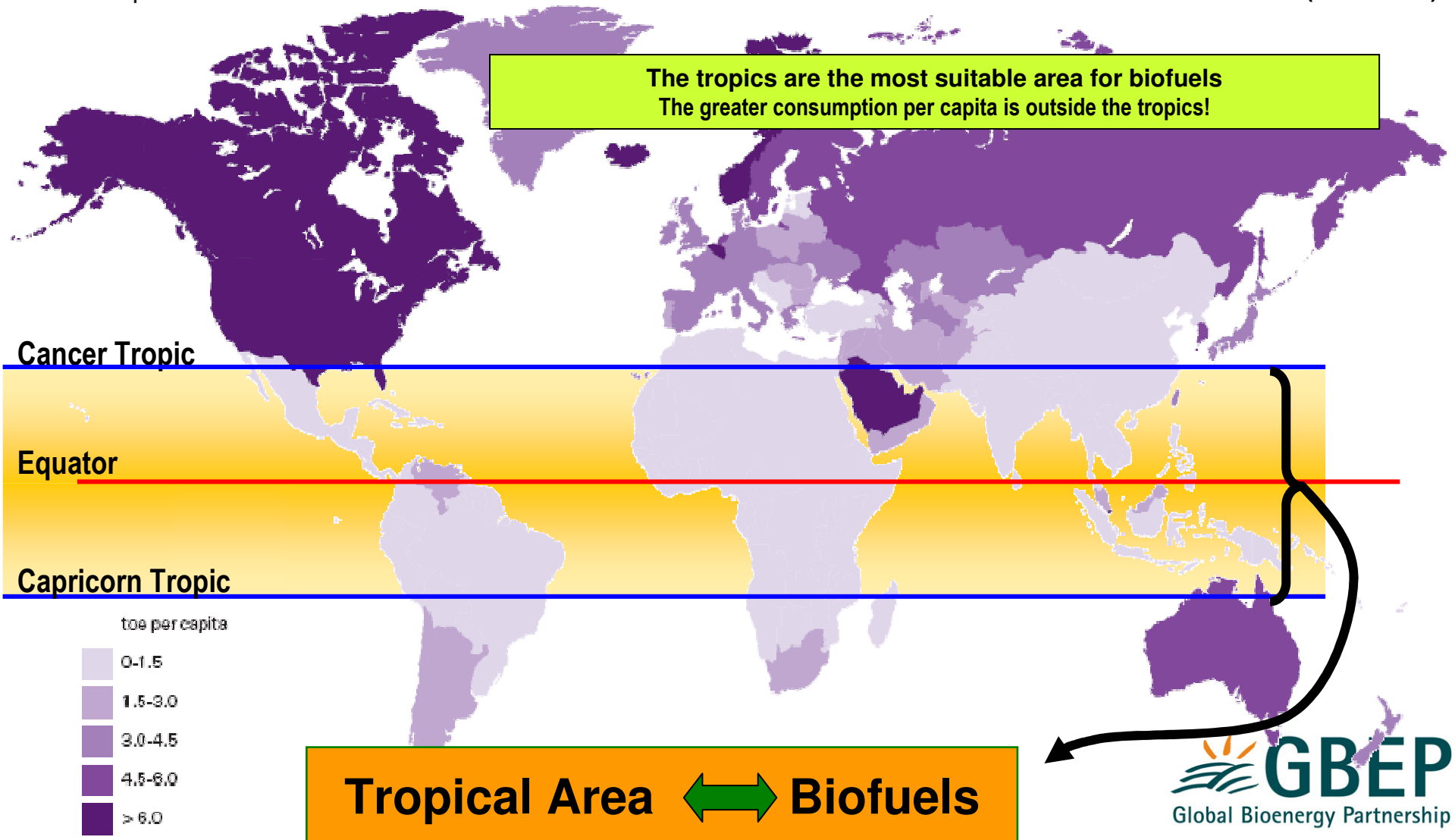


- > **Increasing**
 - diversity of geographic and fuel sources;
 - energy security;
 - economic role of developing countries;
 - development of fuels and technologies towards a low carbon economy.
- > **Challenging the fossil fuels economy**

ENERGY CONSUMPTION/BIOENERGY POTENTIAL

Consumption per capita
Tonnes oil equivalent (toe)

Source: BP Statistical Review (June/2006)

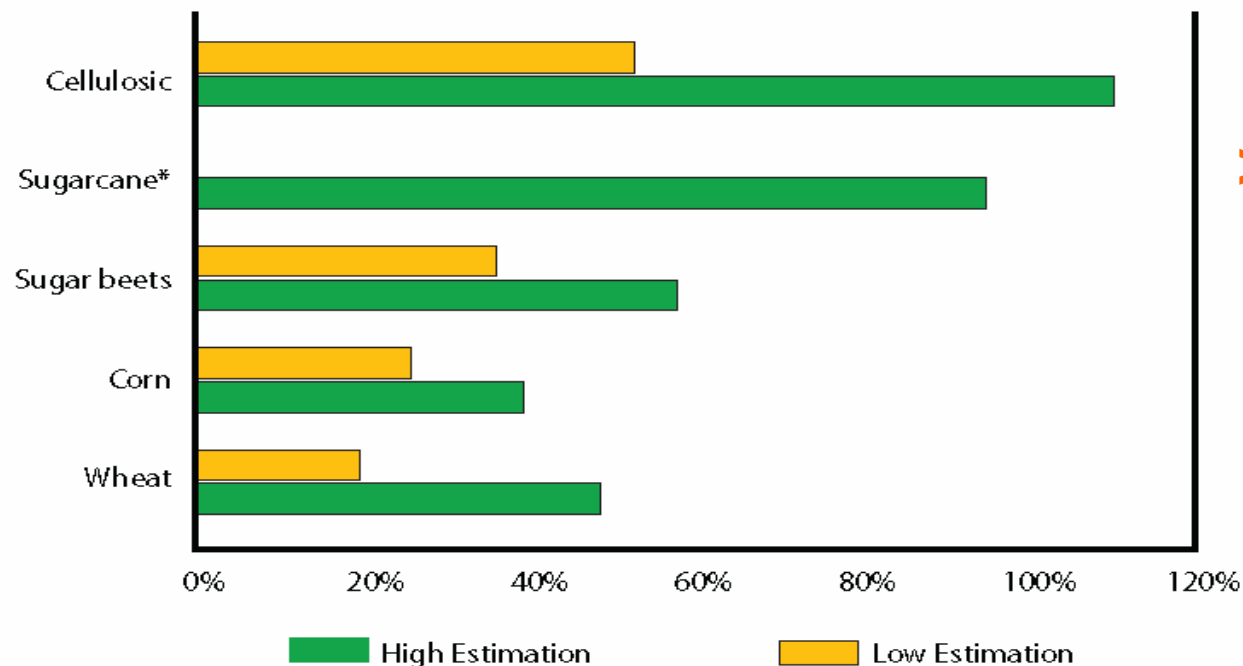


Biofuels: Key Challenges

- Ensuring **sustainability** (e.g. palm oil in Indonesia)
- Protecting **biodiversity** (e.g. soy bean and palm oil plantations: biodiesel production threatens rainforests)
- Controlling pollution of **air, water and soils**
- Safeguarding **food security** (e.g. price effects on agricultural commodities)
- Managing competition for **land and water**
- Removing barriers to biofuel **trade**

BIOFUELS: TOWARDS A SUSTAINABLE OPTION

- > Labeling and certification could be used to ensure sustainable development, environmental gains and promote social equity.
- > However, sustainability criteria should not represent a way for the introduction of un-necessary trade barriers and protectionism against developing countries export opportunities.



- > Biofuels can help reducing emissions and addressing energy security if produced in appropriate way.

Source: IEA

G8 COMMITMENTS AND MANDATES

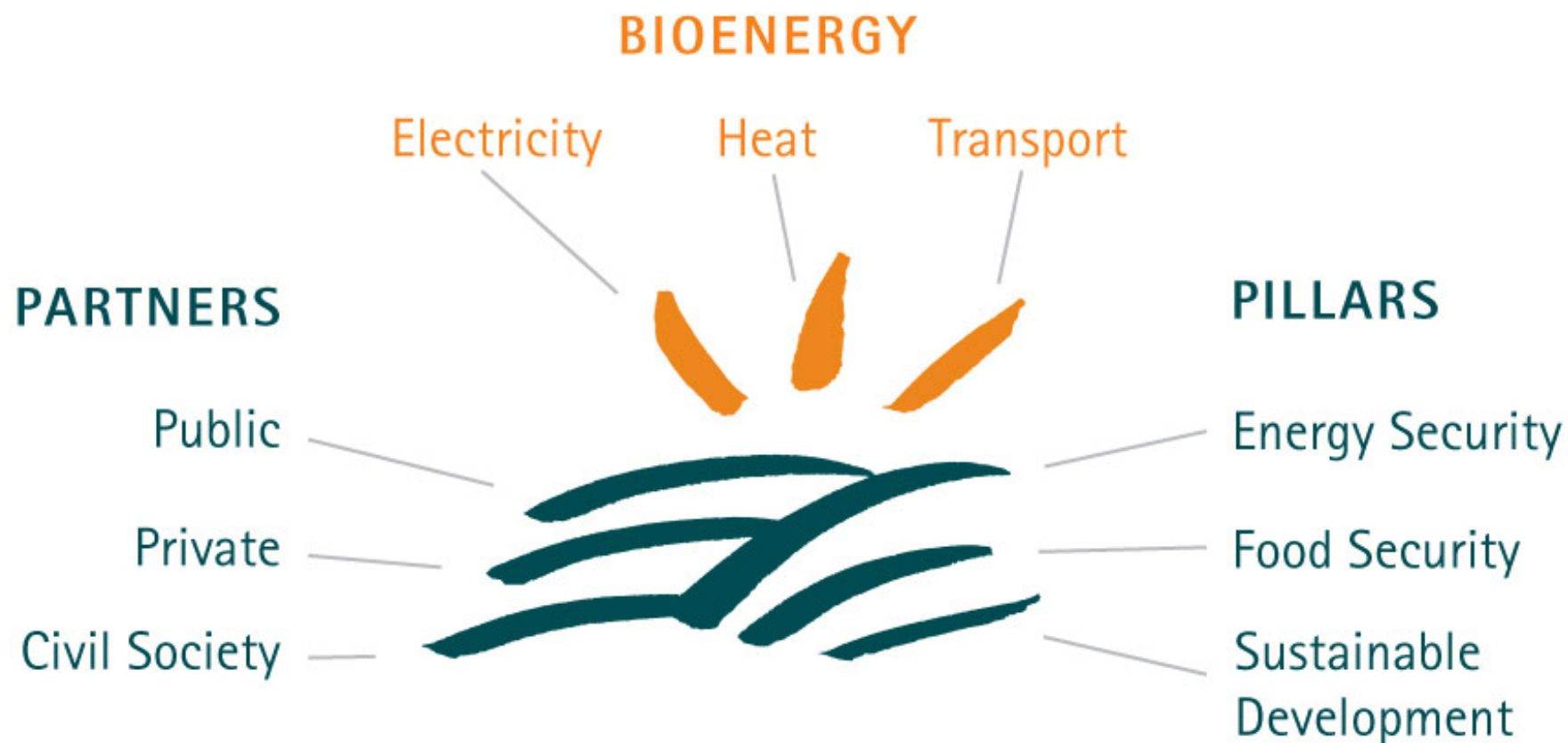
2005 Gleneagles Plan of Action

*“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



GBEP PROGRAMME OF WORK

- **GBEP Report** “A Review of the current State of Bioenergy Development in G8 +5 Countries” (FAO - Leading Partner)
- **Facilitate collaboration on bioenergy field projects** (UK - Leading Partner)
- **Harmonization of GHG Methodologies for Transport Biofuels** (US – Leading Partner)
and for Solid Biomass (Leading partner: Germany)
- **Awareness Raising and Information management**

GBEP Programme of Work

FIRST GBEP REPORT

“A Review of the Current State of Bioenergy Development in G8 +5 Countries”

- It provides an overview of the current state of bioenergy development in G8 +5 Countries. It helps identify where there is common ground in policy priorities and concerns, and opportunities for international cooperation, as well as providing guidance on what still needs to be done for a sustainable development of bioenergy.
- GBEP delivered this Report in the occasion of the 20th World Energy Congress, on 13 November 2007
- The Report is available at www.globalbioenergy.org

GBEP Programme of Work

HARMONIZATION of GHG METHODOLOGIES

GBEP Task Force on the HARMONIZATION of METHODOLOGIES for measuring GHG emission reductions from the use of biofuels for transportation

- US is the GBEP leading Partner
- US hosted the first GBEP Task Force meeting in Washington DC on 9-10 October 2007.
- Main objectives of this GBEP Task Force:
 - Identify commonalities in how different countries and institutions are measuring the GHG impacts of biofuels
 - Develop a checklist of elements for life cycle analysis, in view of a harmonized methodology

GBEP Programme of Work

RAISING AWARENESS AND FACILITATING INFORMATION

This GBEP activity seeks to increase the understanding of pertinent issues related to bioenergy development among Partners and between the Partnership, other technical and political actors, and the general public. It also provides the basis for a deeper and more effective coordination of ongoing activities on bioenergy.

GBEP's awareness-raising and information management activities are focusing on two main areas:

- development of GBEP information material and the GBEP website (www.globalbioenergy.org);
- participation in relevant international conferences and meetings focused on bioenergy, and organization of specific GBEP events.

For further information

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www.globalbioenergy.org