



Biofuels: Prospects, Risks and Opportunities

FAO's State of Food and Agriculture Report 2008

COMPETE MEETING Mali, November 2008

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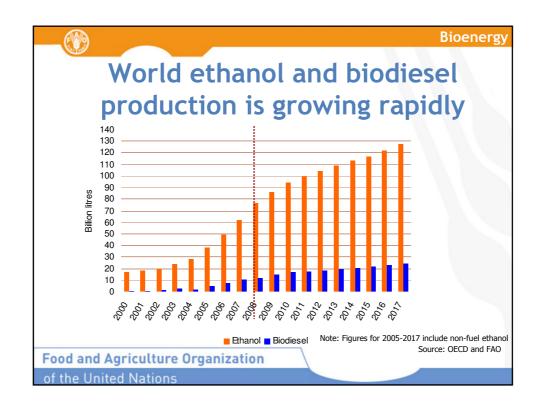
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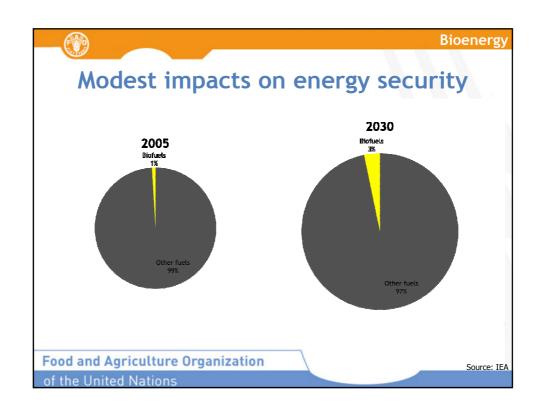


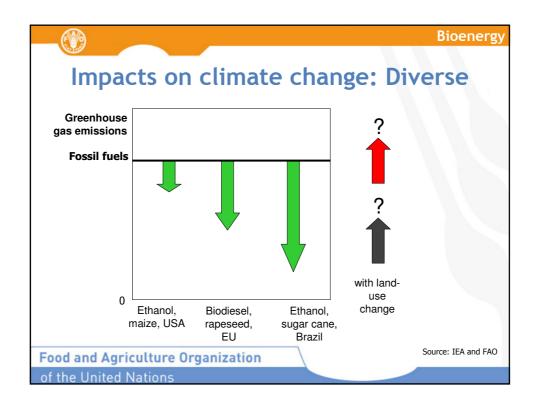
Bioenergy

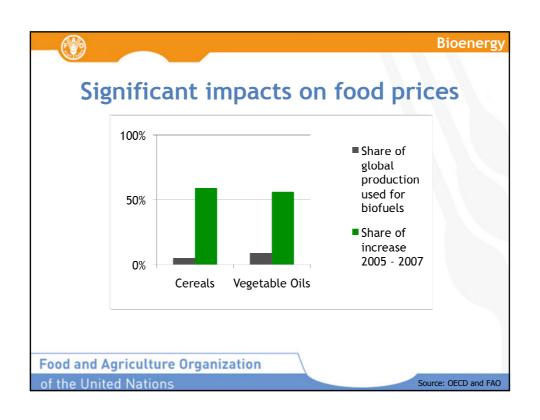
Overview

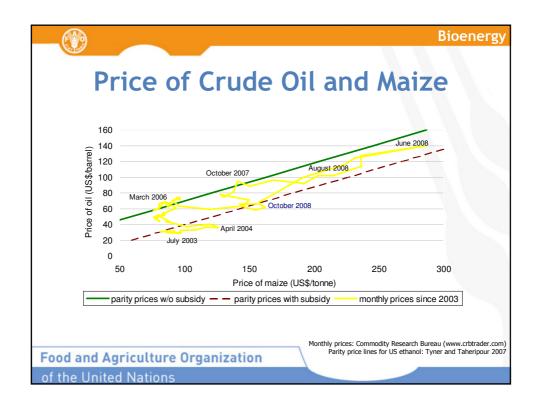
- Do biofuels contribute to energy security?
- Do they reduce greenhouse gas emissions?
- Do biofuels increase agricultural commodity prices?
- Are rising prices a problem?
- Are biofuels an opportunity for agriculture? And for poverty alleviation?
- What is the role of policies?

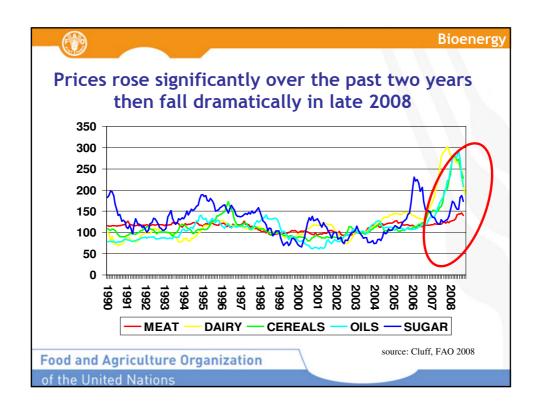


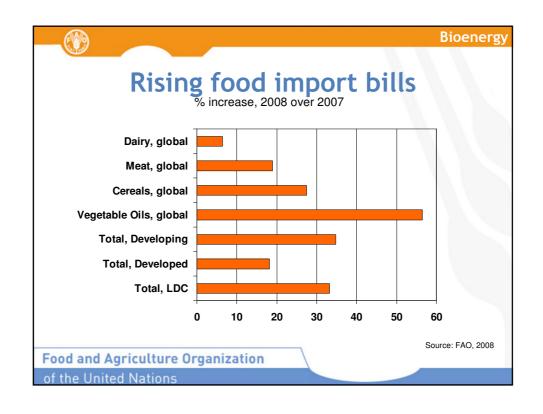


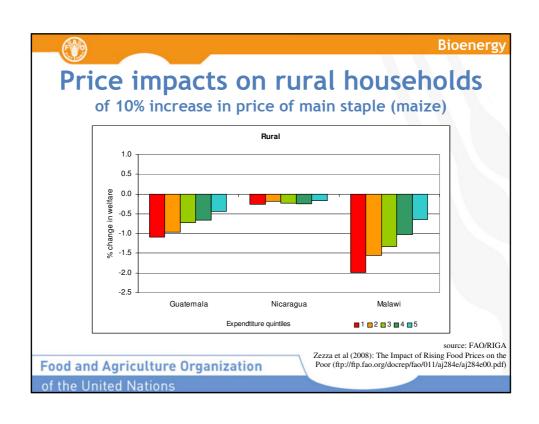














Opportunities for Agriculture

- Farmers are responding to incentives
- Harvests are increasing
- ...but it's mostly in developed countries
- ...but over 920 million people still lack access to sufficient food
- ...but 36 countries are in acute food crisis requiring external assistance

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Bioenergy

Opportunities for poverty alleviation

- many of the poorest countries well placed in agro-ecological terms
- rural growth driven by agriculture reduces poverty more than other sectors
- 75% of the world's poor live in rural areas

but investment needed:

- technologies seeds and irrigation
- infrastructure
- access to finance
- institutions

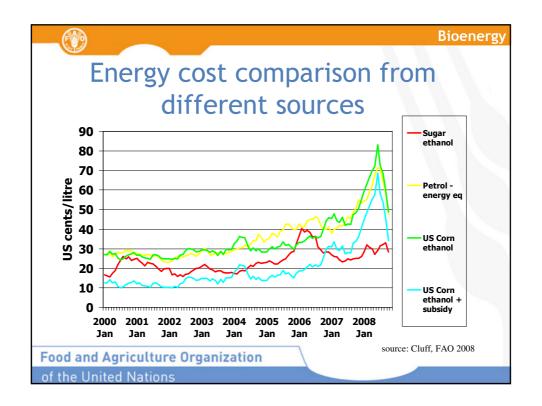
...and safety nets!

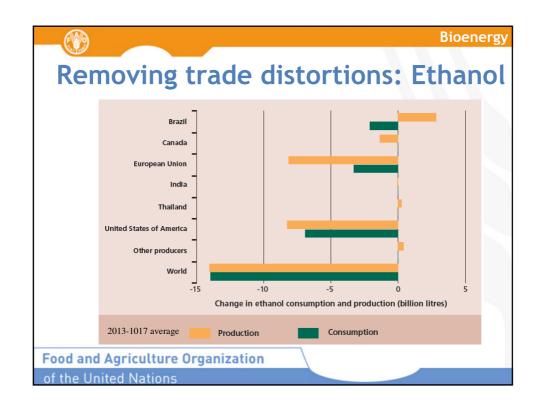


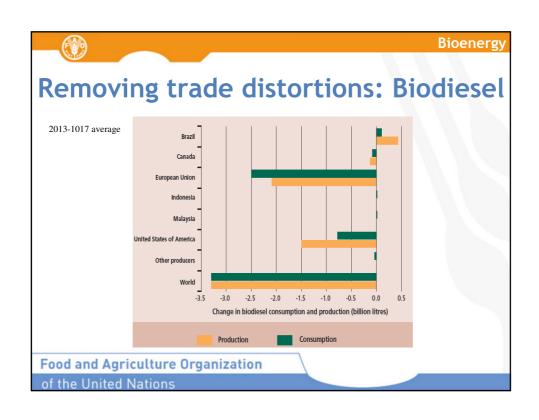
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Current OECD policies

- costly!
- drive artificially high growth rate
- favour OECD over developing country producers
- limited achievement of stated objectives
 - modest impacts on energy security
 - diverse impacts on climate change
 - significant impacts on agriculture and food security





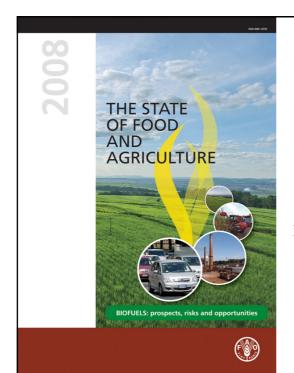




Policy action is urgently needed

- Review current biofuel policies
 - performance based
 - level playing field
- Promote technological innovation
- Protect the poor and food insecure
- Invest in agriculture and rural development
- Ensure environmental sustainability
- Promote international policy coordination

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Available on FAO's website at

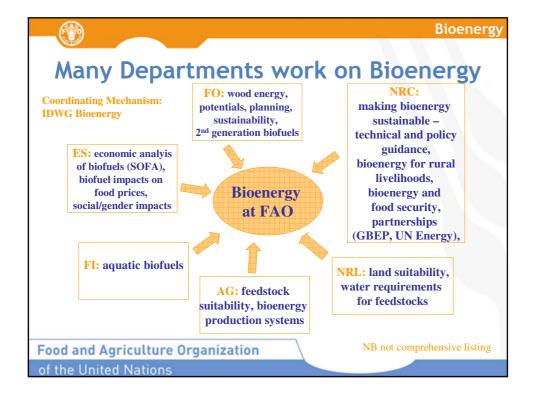
http://www.fao.org./sof/sofa/





HLC Declaration: Bioenergy

- In-depth studies are necessary to ensure that production and use of biofuels is sustainable in accordance with the pillars of sustainable development and take into account the need to achieve and maintain global food security.
- Called upon relevant inter-governmental organizations, national governments, partnerships, the private sector, and civil society, to foster a coherent, effective and resultsoriented international dialogue on biofuels in the context of food security and sustainable development needs.





FAO Bioenergy: Selected Work

- Bioenergy Environmental Impact Analysis (BIAS) -Analytical Framework
- Livelihoods Impacts of Small-Scale Bioenergy Initiatives
- Guidance on Safeguard Mechanisms for Bioenergy Investments (with UNEP/UN Energy)
- Country Assistance policy/strategy support
- Bioenergy and Food Security Project (BEFS)
- Global Bioenery Partnership (GBEP)

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Bioenergy

Bioenergy and Food Security Project

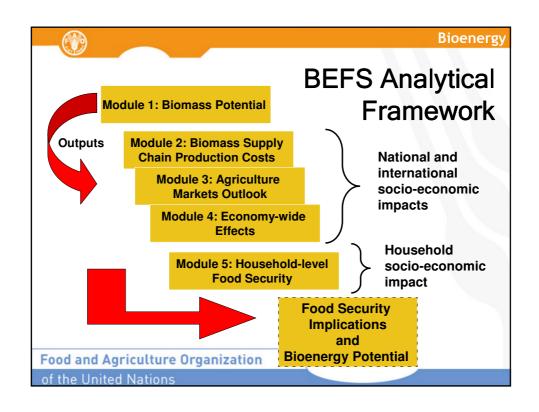
Objective: Mainstreaming food security concerns into national and sub-national assessments of bioenergy potential.

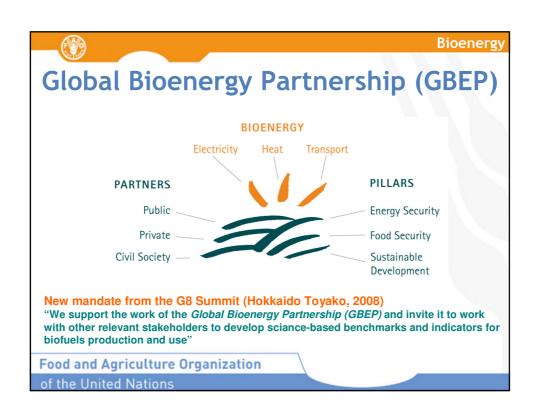
- Phase 1: Develop analytical framework and guidance to assess the bioenergy and food security nexus
- Phase 2: Assess bioenergy potential and food security implications
- Phase 3: Strengthen institutional capacities, exchange knowledge, pilot sustainable and foodsecure bioenergy practices and recommend standards and policies

Country teams in Tanzania, Peru, Thailand

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GBEP Programme of Work

Facilitate the sustainable development of bioenergy and collaborate activities in the bioenergy field projects

GBEP Task Force on Sustainability lead by UK

- Formulate a harmonized methodological framework on GHG emission reduction measurement from the use of biofuels for transportation and from the use of solid biomass GBEP TF on GHG Methodologies lead by USA
- Raise awareness and facilitate information exchange on bioenergy

GBEP Secretariat is hosted at FAO

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Bioenergy

Some key FAO Publications & Links

FAO Bioenergy Portal (corporate):

http://www.fao.org/bioenergy/home/en

SOFA 2008: Biofuels - Prospects, Risks and Opportunities http://www.fao.org/es/esa/en/pubs sofa 08.htm

HLC Information Paper: Bioenergy, Food Security and Sustainability

ftp://ftp.fao.org/docrep/fao/meeting/013/k2498e.pdf

UN Energy: Sustainable Bioenergy - A Framework for Decision Makers (2007)

http://esa.un.org/un-energy/pdf/susdev.Biofuels.FAO.pdf