

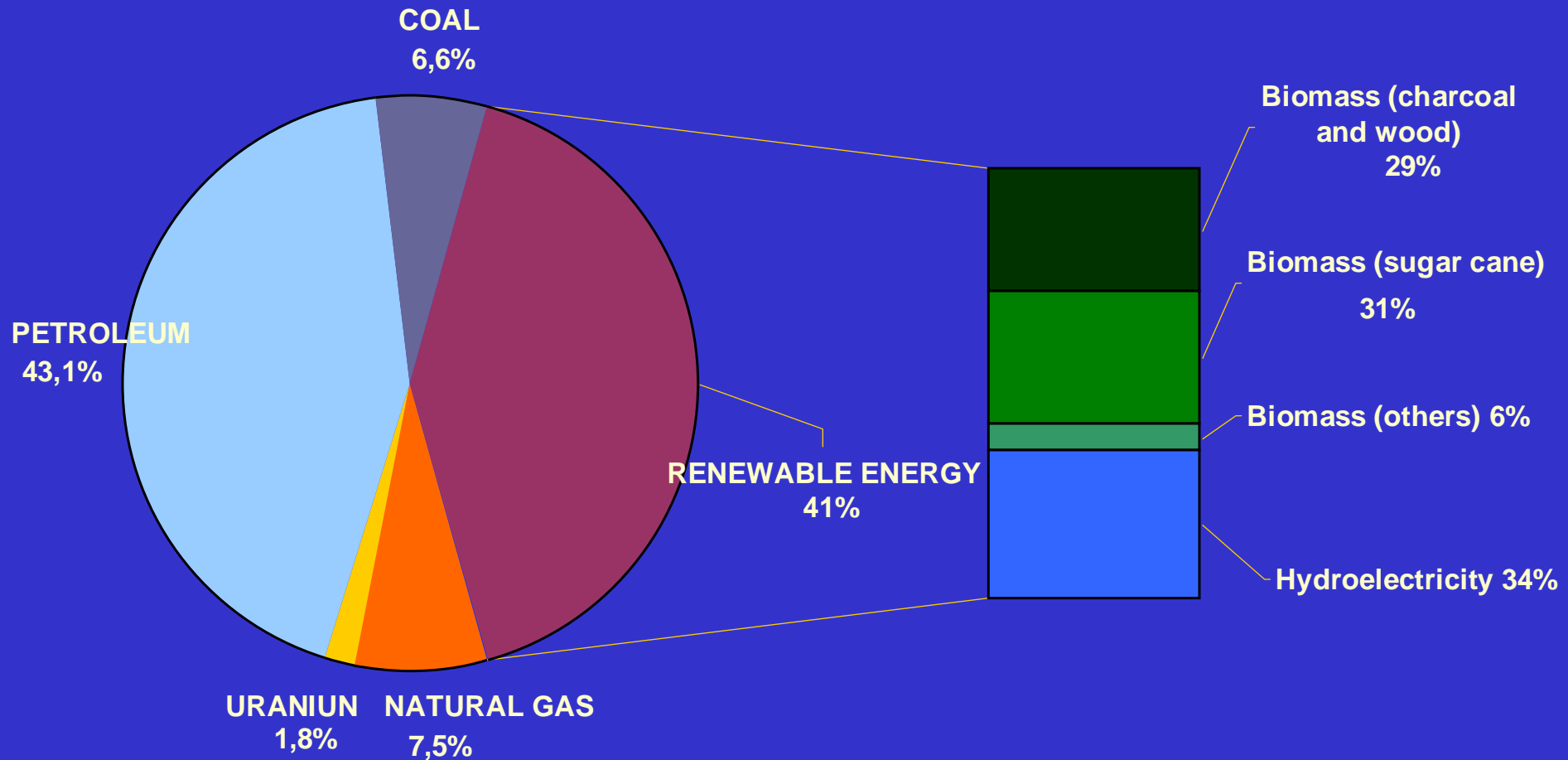
THE AGRIENERGY AS AN ENERGETIC OPTION FOR THE FUTURE

*MINISTRY OF AGRICULTURE, LIVESTOCK AND
FOOD SUPPLY*

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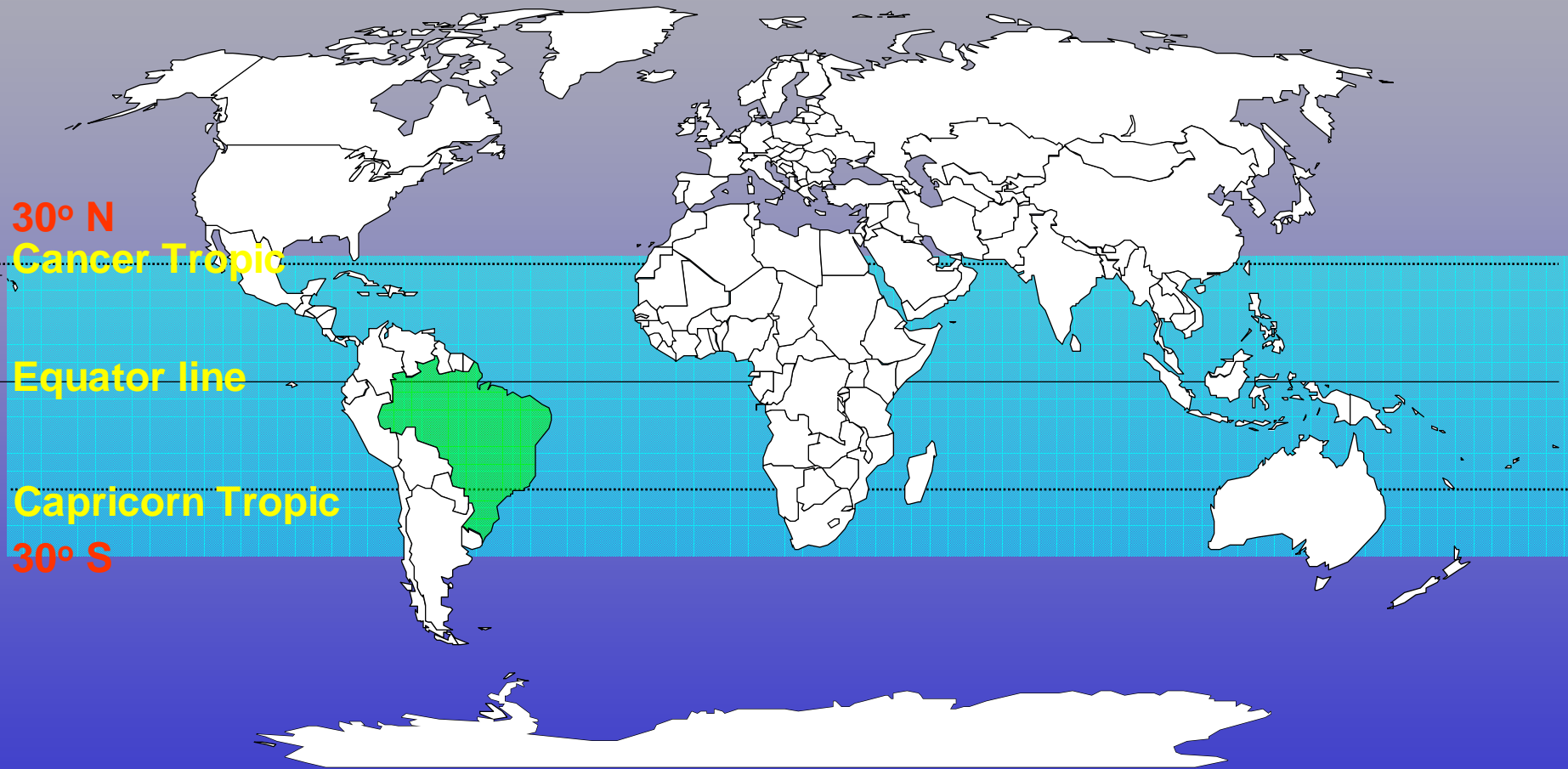
IEA Bioenergy - November, 2005

THE BRAZILIAN ENERGY MIX



Fonte: MME-2005

The Brazilian vocation for biofuels ‘BRAZIL, THE COUNTRY OF BIOMASS’



THE AGRIENERGY NATIONAL PLAN

1 - THE "NATURE" FACTOR

2 - THE "ENVIRONMENT" FACTOR

3 - PHYSICAL LIMIT OF PRODUCTION

4 - ESTRATEGIC GLOBAL ISSUES

THE AGRIENERGY NATIONAL PLAN

1 - FUEL ETHANOL

2 - BIODIESEL

3 - AGRI -FORESTAL RESIDUES

4 - CULTIVATED ENERGY FORESTS

THE AGRIENERGY NATIONAL PLAN

1 - FUEL ETHANOL-CONSOLIDATED PRODUCT

2 - BIODIESEL - PROJECT

3 - AGRI-FORESTAL RESIDUES

4 - CULTIVATED ENERGY FORESTS

FUEL ETHANOL

FACTS THAT MAKE IT EASY TO USE IT IN LARGE SCALE:

a - VERY FAVORABLE NATURE

(safe, efficient e easily produced in large scale)

b - ENVIRONMENTAL BENEFITS

c - EASILY INTRODUCED IN THE CONSUMERS MARKET

FUEL ETHANOL

MAIN ADVANTAGES:

a - HIGH PRODUCTIVITY

b - RELATIVELY LOW COSTS OF PRODUCTION

c - LOW CONSUMPTION OF FOSSIL FUELS IN THE PRODUCTION PROCES

FUEL ETHANOL

MAIN LIMITATIONS

- a - LIMITED BLEND INTO GASOLINE ON THE CURRENT FLEET
- b - DESTINED ONLY FOR USE IN LIGHT VEHICLES

THE AGRIENERGY NATIONAL PLAN

1 - FUEL ETHANOL

2 - BIODIESEL - PRODUCT FOR THE FUTURE

3 - AGRI-FORESTAL RESIDUES

4 - CULTIVATED ENERGY FORESTS

BIODIESEL

MAIN ADVANTAGES:

a - STRATEGIC OPTION FOR POOR COUNTRIES

b - PHYSICAL-CHEMICAL SIMILARITY WITH MAIN
PRODUCT (FOSSIL DIESEL)

BIODIESEL

MAIN LIMITATIONS:

- a - LOW PHYSICAL YIELDS OF THE RAW MATERIALS PER AREA
- b - LOW COMPETITIVENESS OF PRODUCTION COSTS

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THE ROLE OF THE FEDERAL GOVERNMENT

A- Public Policies Management

B - International Affairs

- Negotiations at international boards
- Negotiations with other countries

C - Strategic Foresight

THANK YOU!!

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