BRAZIL BIOFUELS EXPERIENCE

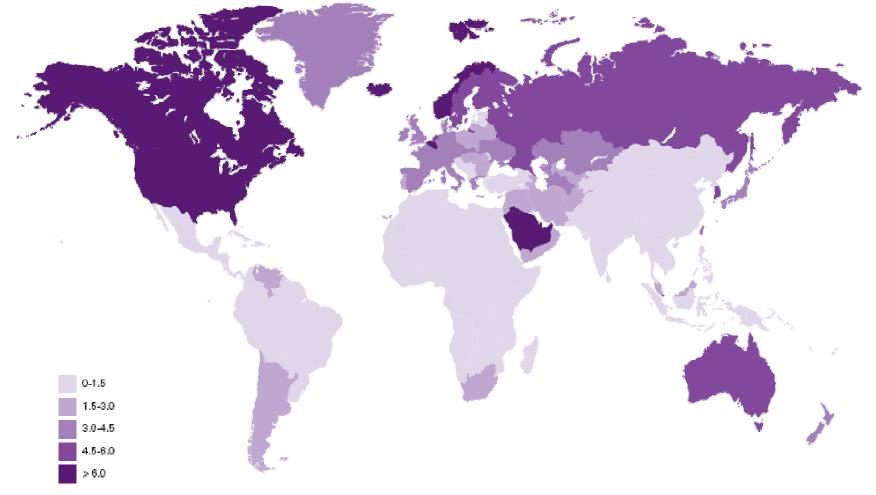
Luiz Alberto Figueiredo Machado

Beijing, 8th November 2008

WORLD ENERGY CONSUMPTION

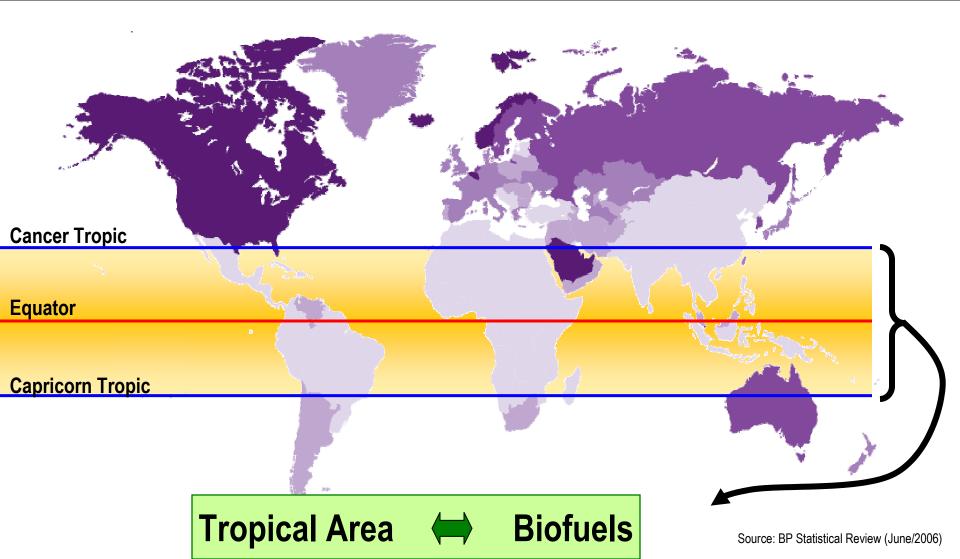
Energy consumption - Per capita

Tones oil equivalent (toe)

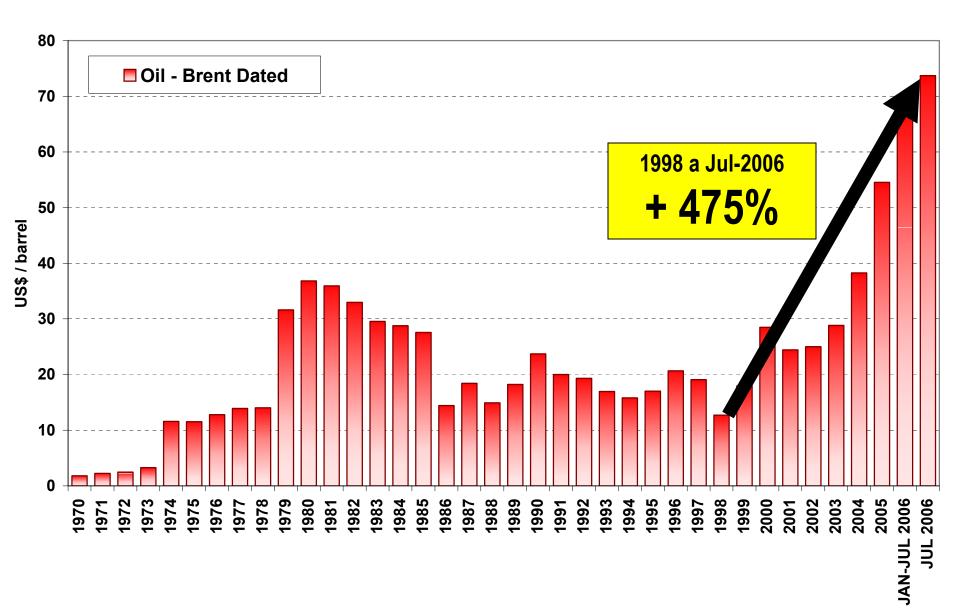


WORLD ENERGY CONSUMPTION

The greater consumption per capita is outside the tropics!



CRUDE OIL PRICES

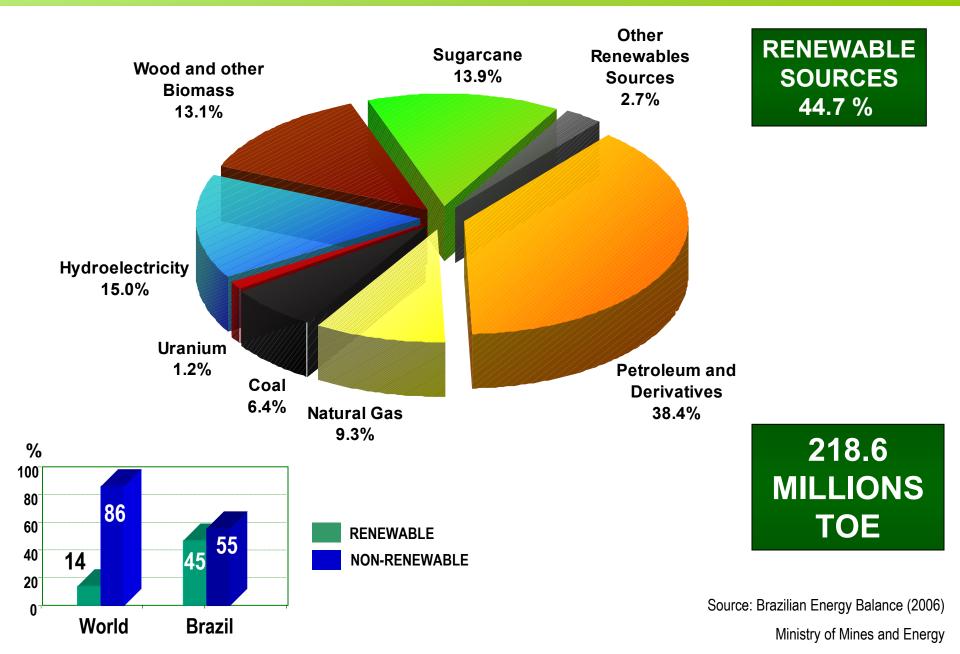


THE CHALLENGE FOR ENERGY POLICY

- Long term energy supply security
- Cheaper prices for energy sources
- Keeping the local energy competitiveness
- Dealing with climate change and environment



BRAZILIAN ENERGY MATRIX - 2005



Ethanol in Brazil: 83 Years of Experience



1925: First tests using ethanol blends with gasoline

Incentives established by the Pro-Alcohol in 1975

- Ethanol price lower than gasoline price
- Guaranteed payment to the producer

Tax reduction for hydrated ethanol cars

The only remaining incentive nowadays

- Loans for ethanol producers to increase their capacity
- Gas stations ought to sell ethanol
- Maintenance of strategic stocks

Flex-Fuel Cars

- Launched in the Brazilian Market in 2003.
- Currently nine carmakers are producing and selling *Flex Fuel* vehicles (*FFV*) in Brazil.
- Current fleet FFV (2008): ~ 3,000,000 vehicles.



Share of Flex Fuel and Gasohol (25% Ethanol) Vehicles in the Light Vehicles Brazilian Market.

Source: ANFAVEA

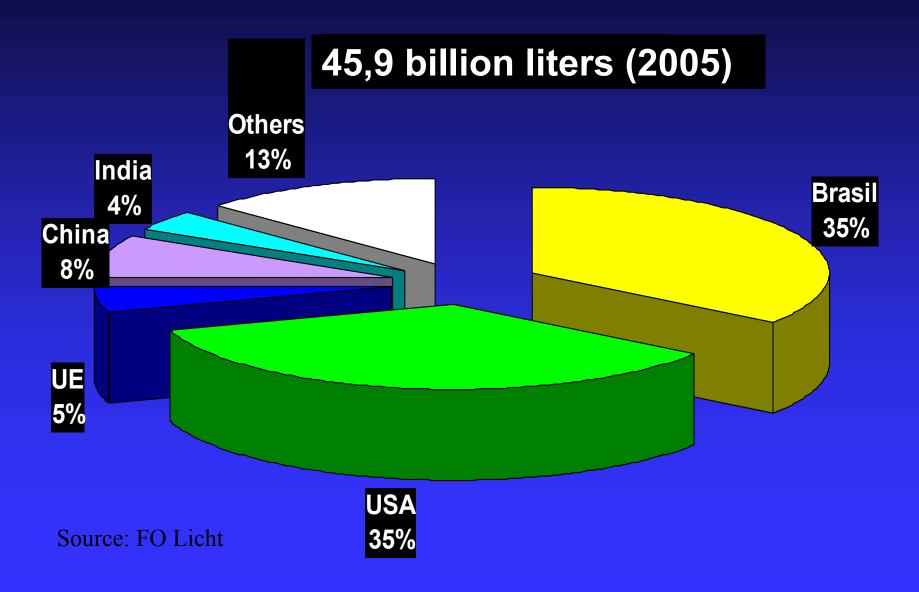


Benefits for the Consumers

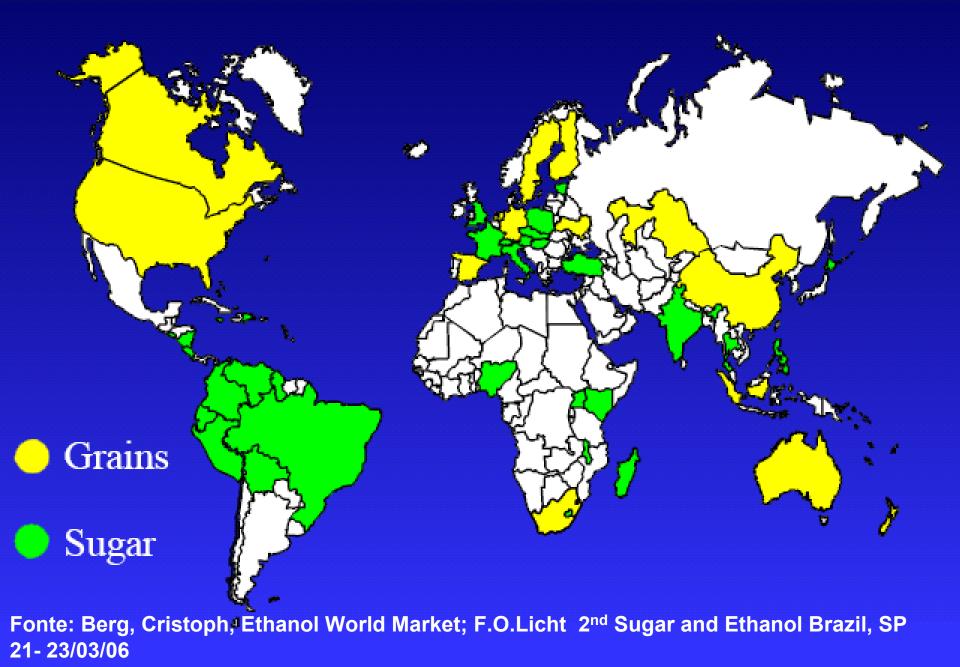
- Vehicles can be fueled with a mix gasoline/hydrated ethanol in any proportion at any point in time.
- Possibility to choose the fuel in each refueling in accordance with the price at that particular pump station, availability, performance and consumption.



Ethanol World Production



World Fuel Ethanol 2006



Ethanol in Brazil: Oil economy and environmental benefits

FUEL DEMAND FOR LIGHT VEHICLES IN BRAZIL

