

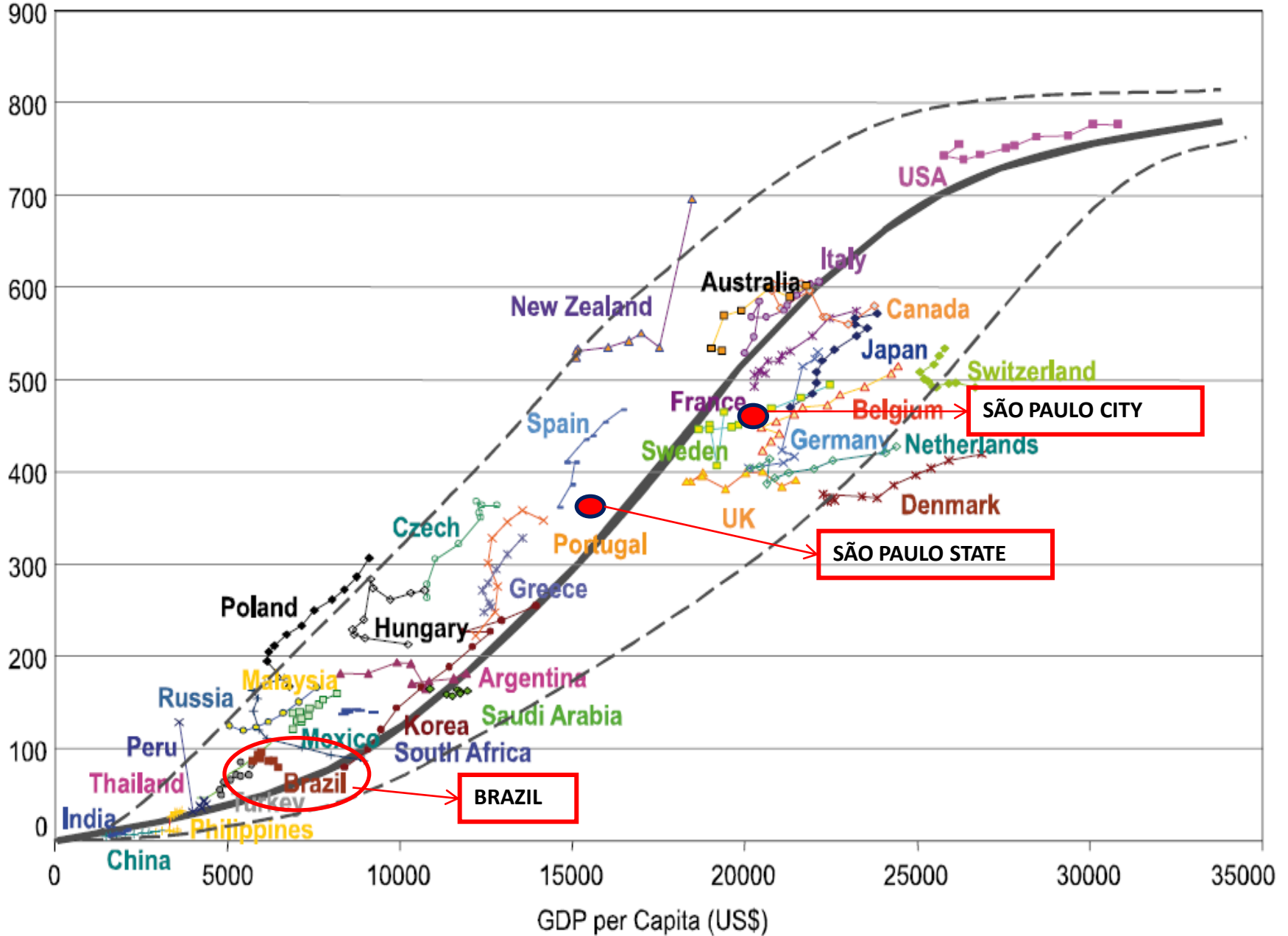
# Ethanol Summit 2011

O papel da cana num mundo de baixo carbono

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07/06/2011

Vehicle Ownership/1000 Persons



# “Birth certificate” of the Ethanol Program in Brazil

## I. The expansion of ethanol production (supply)

Decree 76593 (November 14, 1975)

The price of ethanol should be at parity with sugar and 35% higher than the price of 1kg of sugar

## II. The expansion of ethanol consumption (demand)

Mandates for the amount of ethanol mixed into the gasoline (25% today).

Setting the price of ethanol paid to the producers at 59% of the selling price of gasoline.

# Ethanol Energy Balance

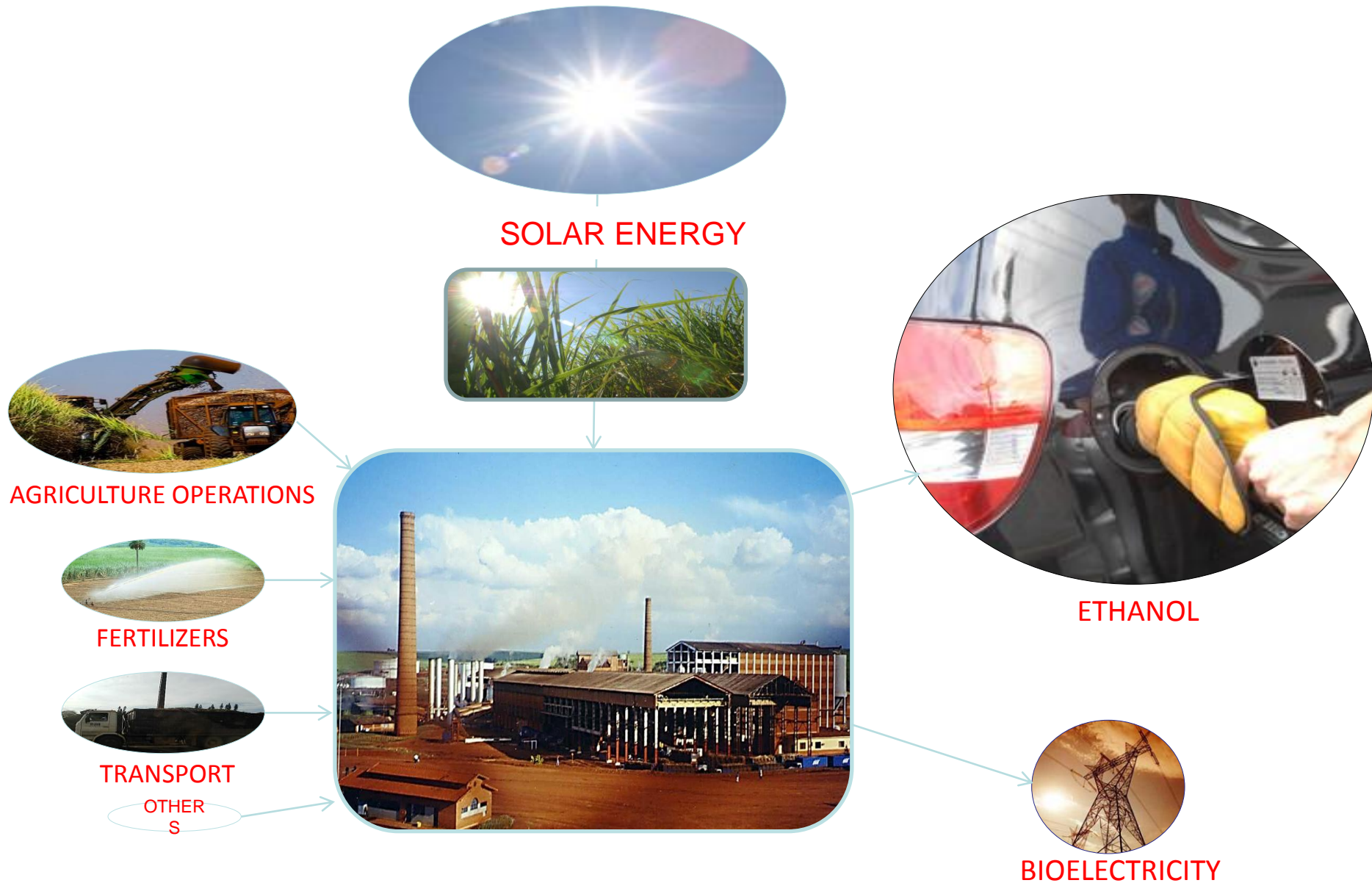


TABLE R12. Biofuels Blending Mandates

NOTE: Data from GSR 2010 – need updating/confirmation; Data in black are updated for 2010.

Country	Mandate
Argentina	B5 by 2010; E5 by 2010
Australia	E2 in New South Wales, increasing to E10 by 2011; E5 in Queensland by 2010
Bolivia	B2.5 by 2007; B20 by 2015; E10
Brazil	B5 by 2010; E20–E25 currently
Canada	E5 by 2010 and B2 by 2012; E5 in Alberta; E7.5 in Saskatchewan; E8.5 in Manitoba; E5 in Ontario; Quebec 5% target by 2012 from advanced biofuels
China	E10 in 9 provinces
Colombia	B10 by 2010 and B20 by 2012; E8 by 2010
Czech Republic	B3.5
Dominican Republic	E15 and B2 by 2015
Ethiopia	E 10 by 2011
Germany	Biofuels share 6.75% by 2010 and 7.25% by 2012; biodiesel 4.4% by 2009; ethanol 2.8% by 2009 and 3.6% by 2015
India	20% blending of biofuels both for bio-diesel and bio-ethanol by 2017
Italy	E1, B1
Jamaica	E10 by 2009
Kenya	E-10 by 2010
Malaysia	B5 by 2008
Mexico	E6.7 by 2010 in Guadalajara, by 2011 in Monterrey, by 2012 in Central Valley
Pakistan	B5 by 2015; B10 by 2025
Paraguay	E18–E24; B5
Peru	B5 by 2011; E7.8 by 2010
Philippines	B2 and E10 by 2011
Portugal	B7 by 2010
South Korea	B3 by 2012
Spain	B5.8 by 2010
Thailand	B3 by 2010; E10
United Kingdom	B3.25
United States	Nationally, 130 billion liters/year by 2022 (36 billion gallons); E10 in Iowa, Hawaii, Missouri, and Montana; E20 in Minnesota; B5 in New Mexico; E2 and B2 in Louisiana and Washington State; 3.4 billion liters/year biofuels by 2017 (0.9 billion gallons) in Pennsylvania
Uruguay	B5 by 2012, less than E5 until 2015, then greater than E5 after 2015

Notes: Table shows binding obligations on fuel suppliers; there are other countries with future indicative targets that are not shown here; see the Biofuels Policies section. Chile had voluntary guidelines for E5 and B5. South Africa had proposed mandates of E8–E10 and B2–B5. Some mandates shown may be delayed by market issues. Mandates in some U.S. states take effect only in future years or under certain future conditions, or apply only to portions of gasoline sold. Sources: All available policy references, including the IEA online Global Renewable Energy Policies and Measures database and submissions from report contributors.

## Present production and potential demand for ethanol

Country/region	Present gasoline consumption (billion liters per year) 2007	Present ethanol production (billion liters per year) 2008	Potential demand resulting from present mandates up to 2020/22 per year
US	530	34	136
European Union	148	2.3	8.51
China	54	1.9	5.4
Japan	60	0.1	1.8
Canada	39	0.9	1.95
United Kingdom	26	0.03	1.3
Australia	20	0.075	2.0
Brazil	25.2	27	50
South Africa	11.3	0.12	0.9
India	13.6	0.3	0.68
Thailand	7.2	0.3	0.7
Argentina	5.0	0.2	0.25
The Philippines	5.1	0.08	0.26
Total	943.2	67.3	209.75

## World ethanol production, 2009

Liter per year (billions)	
United States	27.40
Brazil	16.70
European Union	0,99
China	0,64
Canada	0,22
India	0,06
Other	0,33
World	46.34