

**CONFERÊNCIA REGIONAL DA AMÉRICA LATINA E
CARIBE SOBRE ENERGIAS RENOVÁVEIS**

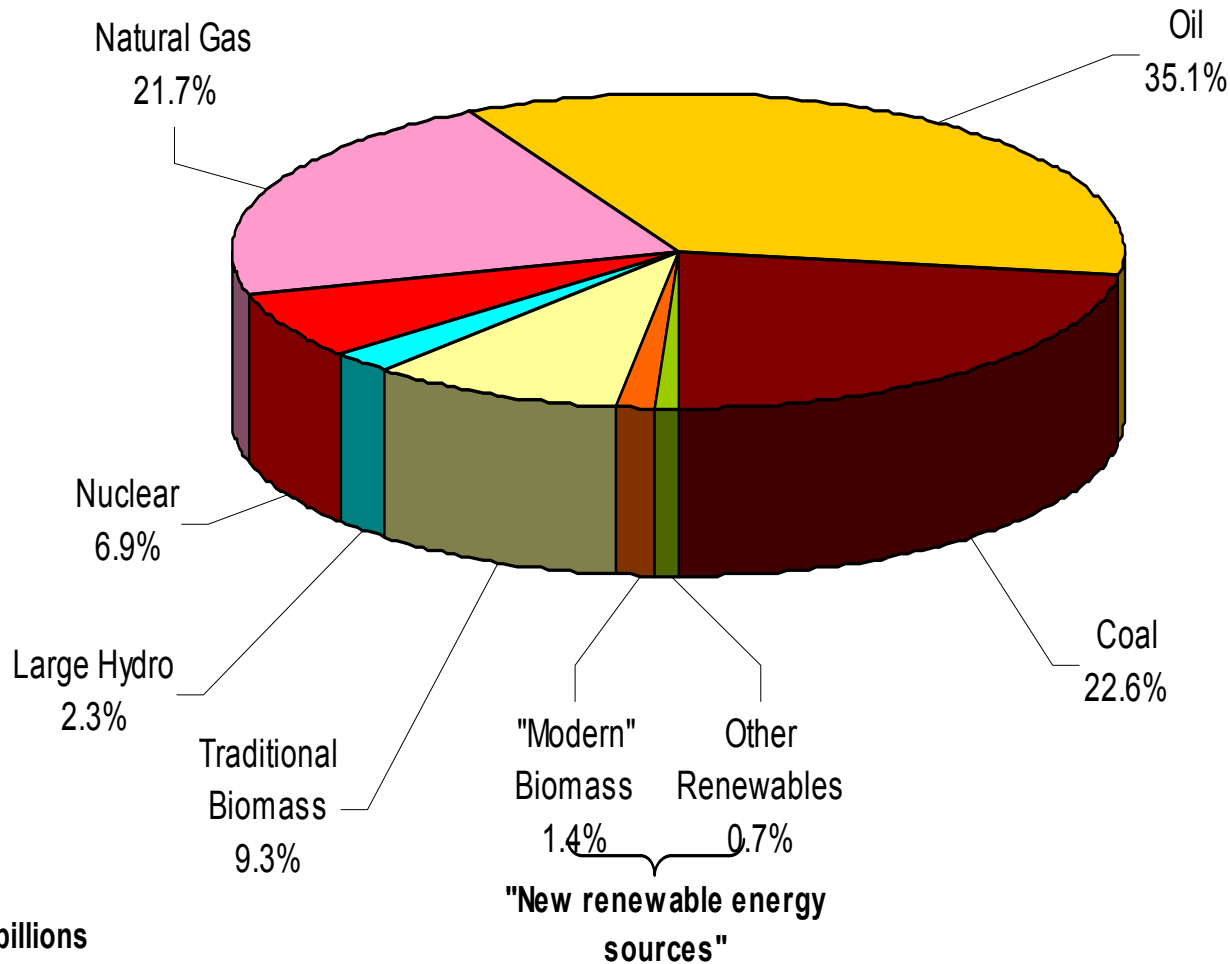
BRASÍLIA, 29-30 Outubro 2003

**Energias Renováveis na
América Latina e Caribe
(LAC)**

José Goldemberg

World Consumption of Primary Energy and Renewables, by Energy Type, 2001

Shares of total 418 EJ (9.99 Gtoe)



Population: 6.157 billions

Total energy use: 9.99 Gtoe

Per capita energy use: 1.65 toe per capita

Growth rate energy 1971 - 2000: 2.10% per year

Energy in the WSSD Final Plan

Par. 19 (e) Diversify energy supply by developing advanced, cleaner, more efficient, affordable and cost-effective energy technologies, including fossil fuel technologies and renewable energy technologies, hydro included, and their transfer to developing countries on concessional terms as mutually agreed. With a sense of urgency, **substantially increase the global share of renewable energy sources with the objective of increasing its contribution to total energy supply**, recognizing the role of national and voluntary regional targets as well as initiatives, where they exist, and ensuring that energy policies are supportive to developing countries' efforts to eradicate poverty, and regularly evaluate available data to review progress to this end;

ILAC

(ILAC - Iniciativa Latinoamericana y Caribeña para el Desarrollo Sostenible)

i) increase renewable energy use in the region to, at least, 10% of total energy consumption in the region by the year 2010.

Final Report of the Seventh Meeting of the Inter-Sessional Committee of the Forum of Ministers of the Environment of Latin America and the Caribbean

EU Directive 2001/77/EC

The promotion of electricity produced from renewable energy sources is a high Community priority (...)

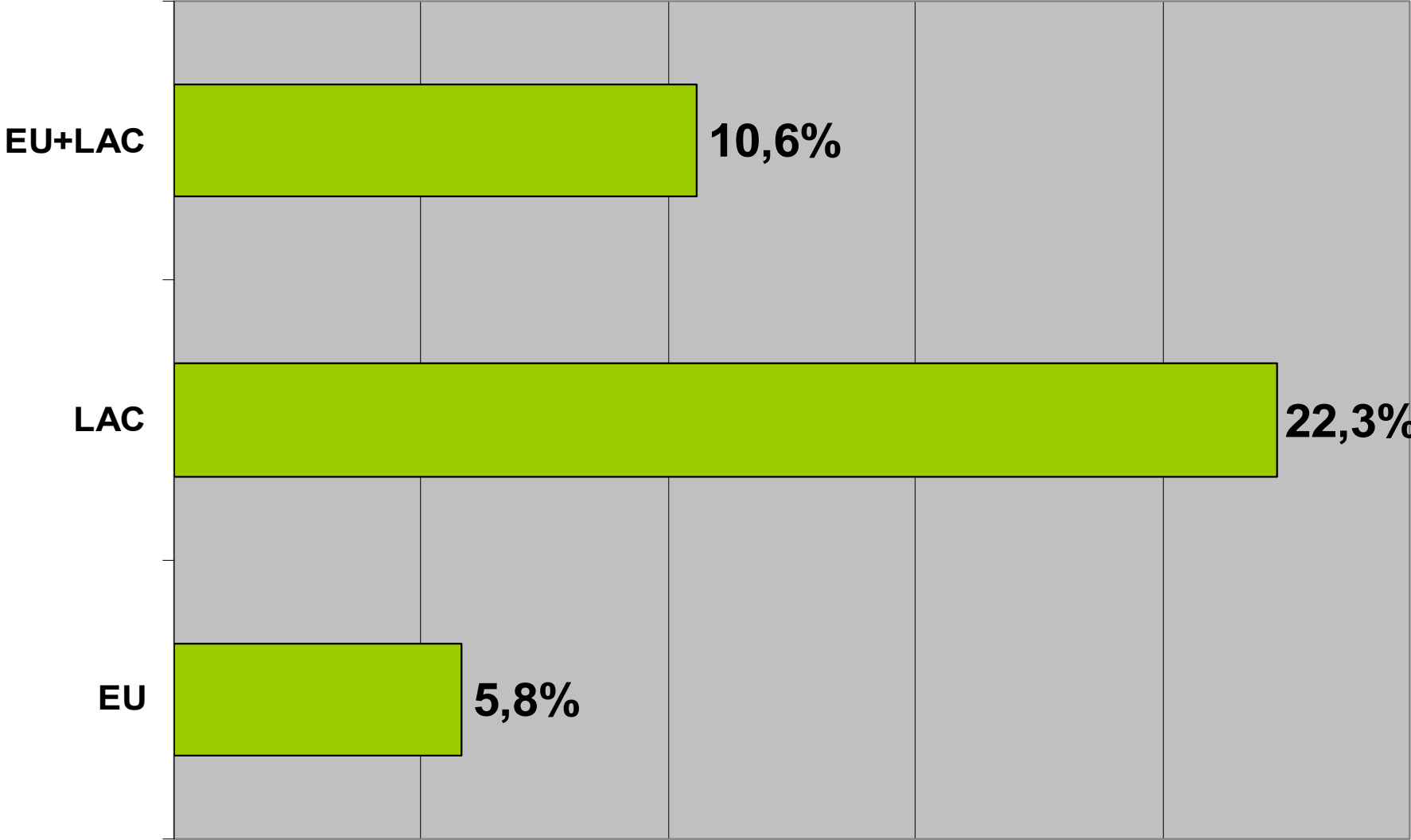
*The strategy and action plan (...) are directed towards the goal of **achieving a 12% penetration of renewables in the Union by 2010***

*(...) all Member States should be required to set national indicative targets for the consumption of electricity produced from renewable sources.(...) If necessary for the achievement of the targets, the Commission should submit proposals to the European Parliament and the Council which **may include mandatory targets.***

4.(...) the Commission shall assess to what extent: (a) Member States have made progress towards achieving their national indicative targets; (b) the national indicative targets are consistent **with the global indicative target of 12 %of gross national energy consumption by 2010 and in particular with the 22,1 %indicative share of electricity produced from renewable energy sources in total Community electricity consumption by 2010.**

Renewable Energy TPES

from IEA (2000) and woodfuel estimates (Patusco, 2000)



Country or Region	Fossil and nuclear	Hydro	Geo thermal, Solar, etc.	Combustibles Renewables & Waste	Weight in region	TPES 2000 (millions of toe)	RE %	RE without CRW %
CUBA	61,9%	0,1%	0,0%	38,0%	18,7%	7,7	38,1%	0,1%
DOMINICAN REPUBLIC	59,5%	1,9%	0,0%	38,6%	8,5%	3,5	40,5%	1,9%
HAITI	0,0%	1,6%	0,0%	98,4%	3,7%	1,5	100,0%	1,6%
JAMAICA	69,5%	0,6%	0,0%	29,9%	3,9%	1,6	30,5%	0,6%
NETHERLANDS ANTILLES	100,0%	0,0%	0,0%	0,0%	28,0%	11,5	0,0%	0,0%
TRINIDAD-AND-TOBAGO	99,8%	0,0%	0,0%	0,2%	37,2%	15,3	0,2%	0,0%
THE CARIBBEAN	84,4%	0,3%	0,0%	15,3%	100,0%	41,1	15,6%	0,3%
ARGENTINA	91,7%	3,8%	0,0%	4,5%	11,1%	65,5	8,3%	3,8%
BOLIVIA	80,8%	3,7%	0,0%	15,6%	0,8%	4,6	19,2%	3,7%
BRAZIL	60,5%	15,0%	0,0%	24,5%	29,6%	174,6	39,5%	15,0%
CHILE	75,1%	6,9%	0,0%	17,9%	4,0%	23,6	24,9%	6,9%
COLOMBIA	75,3%	8,5%	0,0%	16,2%	5,5%	32,5	24,7%	8,5%
COSTA RICA	0,0%	30,7%	53,7%	15,6%	0,3%	1,6	100,0%	84,4%
ECUADOR	86,6%	6,5%	0,0%	6,9%	1,7%	10,1	13,4%	6,5%
EL SALVADOR	32,0%	3,2%	21,3%	43,6%	0,5%	3,2	68,0%	24,4%
GUATEMALA	21,9%	3,8%	0,0%	74,3%	0,9%	5,2	78,1%	3,8%
HONDURAS	5,2%	12,1%	0,0%	82,7%	0,3%	1,6	94,8%	12,1%
MEXICO	88,6%	2,0%	3,6%	5,7%	23,8%	140,4	11,4%	5,7%
NICARAGUA	35,2%	0,8%	4,8%	59,2%	0,4%	2,4	64,8%	5,6%
PANAMA	76,4%	8,7%	0,0%	14,9%	0,5%	3,1	23,6%	8,7%
PARAGUAY	1,5%	65,8%	0,0%	32,7%	1,2%	7,0	98,5%	65,8%
PERU	70,7%	11,1%	0,4%	17,8%	2,1%	12,5	29,3%	11,5%
URUGUAY	68,1%	18,8%	0,0%	13,1%	0,5%	3,2	31,9%	18,8%
VENEZUELA	94,0%	5,4%	0,0%	0,5%	16,8%	99,5	6,0%	5,4%
LATIN AMERICA	77,0%	8,5%	1,2%	13,4%	100,0%	590,6	23,0%	9,6%
L.AMERICA+CARIBBEAN	77,5%	7,9%	1,1%	13,5%	107,0%	631,7	22,5%	9,0%
LAC without Brazil	84,0%	5,2%	1,5%	9,3%	109,9%	457,096	16,0%	6,7%

Learning curve for RE

Ethanol Cumulative Production (thousand m3)

