



Ministério de
Minas e Energia



AMCHAM RIO E BRATECC
11ª INTERNATIONAL CONFERENCE
BRAZIL ENERGY AND POWER

Renewable Energy in the Total Primary Energy Supply of Brazil
(Brazilian Energy Policy)

Altino Ventura Filho
Secretary of Energy Planning and Development

Rio de Janeiro, 26/August/2013

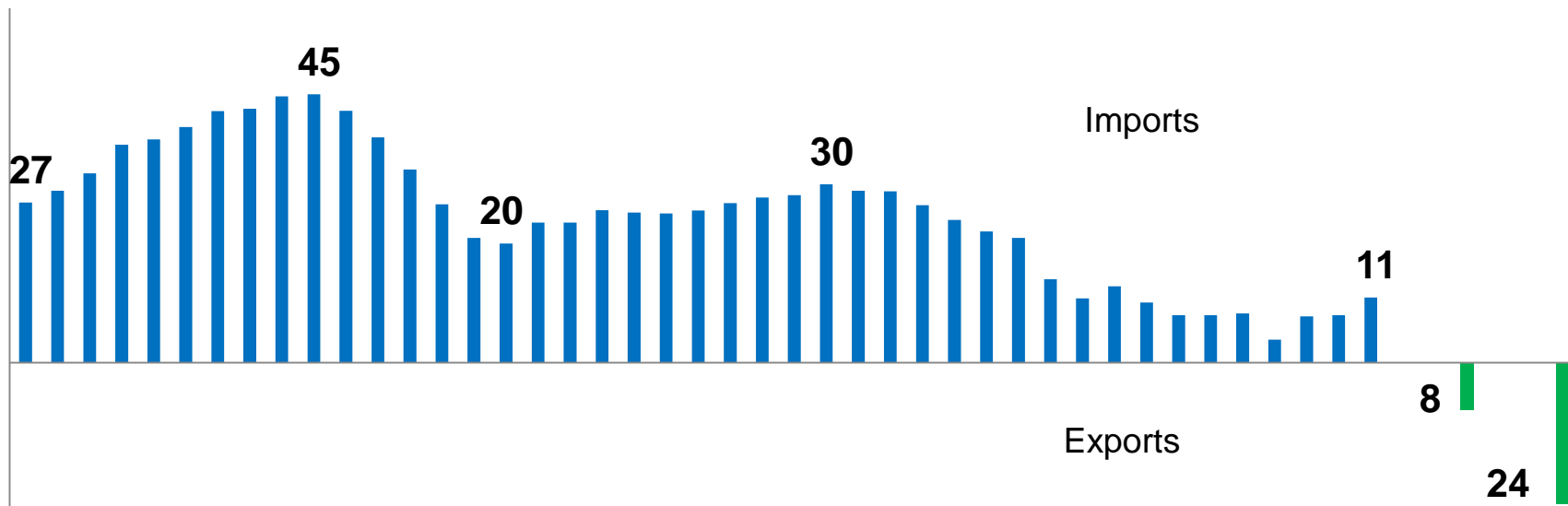


Brazil

Self-sufficiency and Energy Trade

Energy Dependence Ratio (Net Imports / Total Energy Supply - %)

%

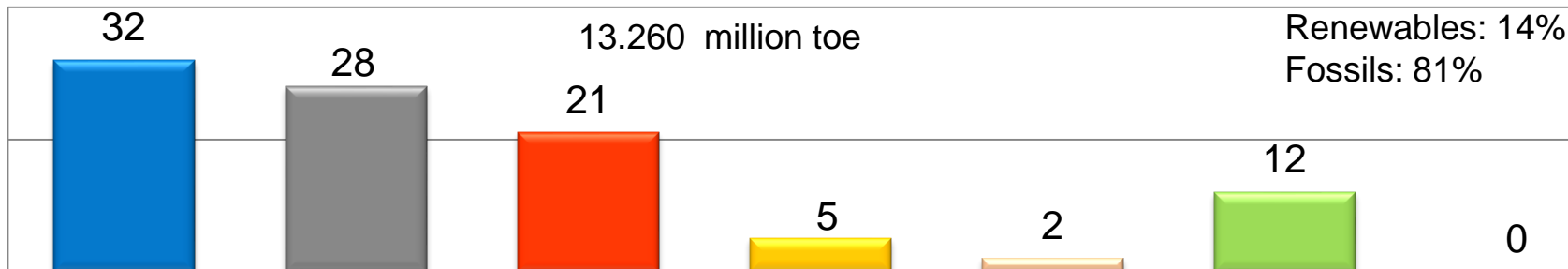




ENERGY SUPPLY MATRIX WORLD x BRAZIL (%)

%

World - 2012



%

Brazil - 2012

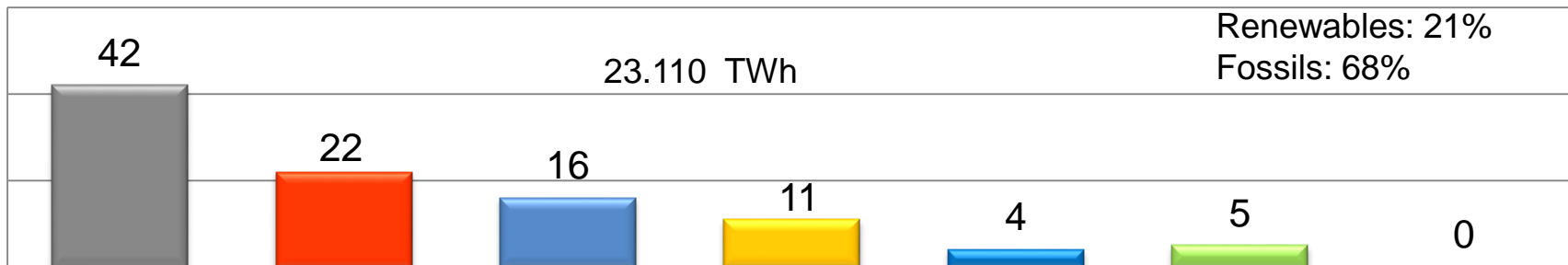




ELECTRICITY SUPPLY MATRIX WORLD x BRAZIL (%)

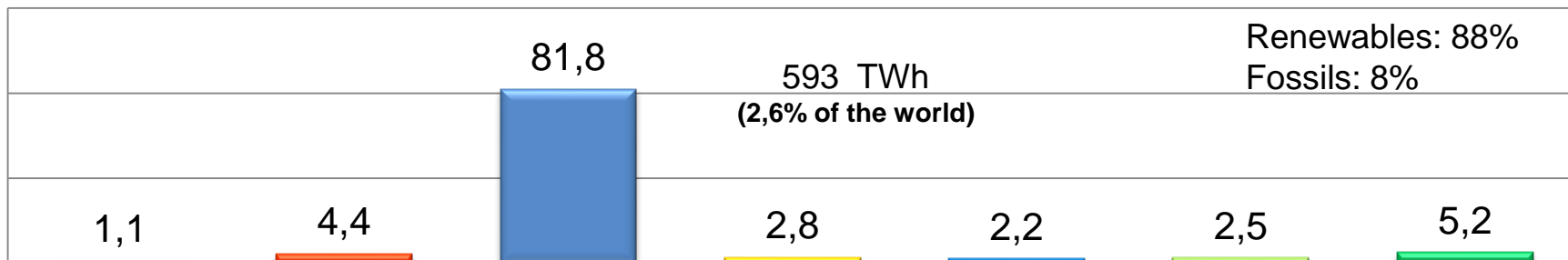
%

World - 2012



%

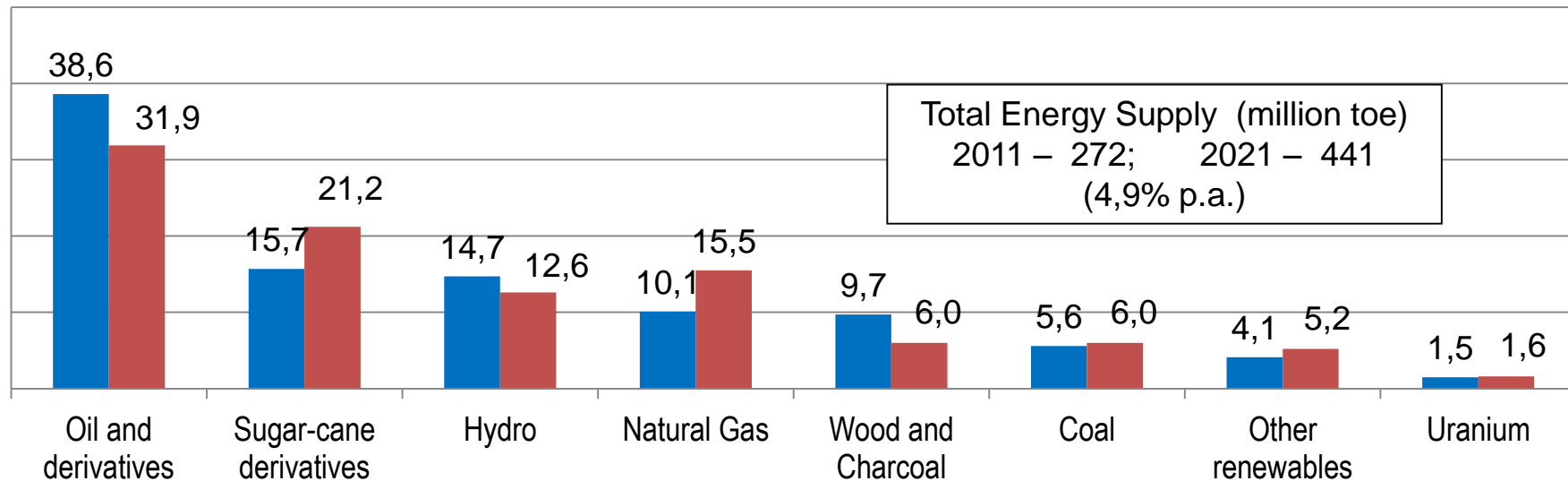
Brazil - 2012





BRAZILIAN ENERGY SUPPLY MATRIX – 2011 / 2021

%



Fossils

Brazil: 2011 – 54,3%; 2021 – 53,5%

World: 2010 - 81%

Renewable

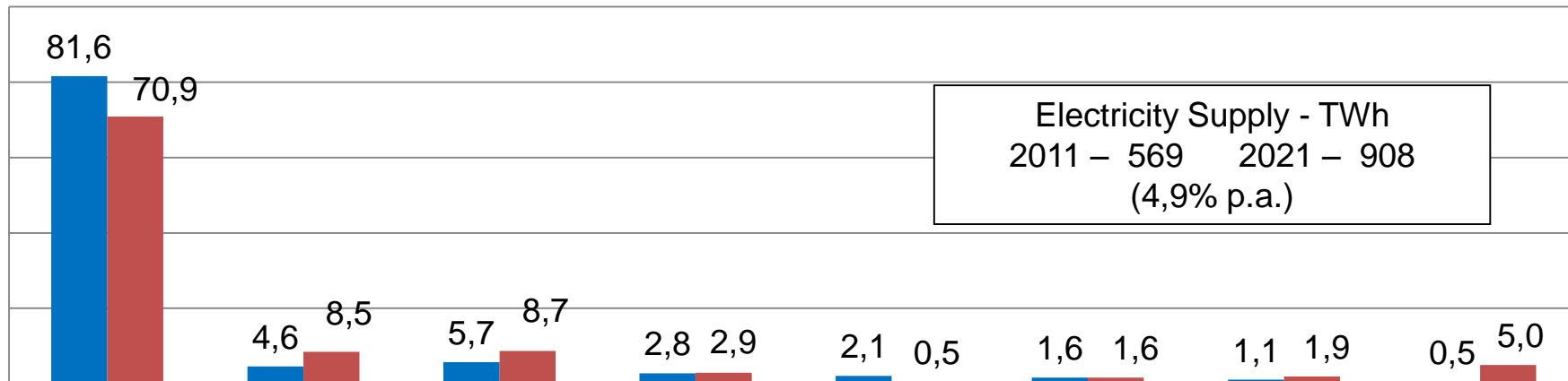
Brazil: 2011 – 44,1%; 2021 – 45,0%

World: 2010 - 13%



BRAZILIAN ELECTRICITY SUPPLY MATRIX – 2011 / 2021

%



Electricity Supply - TWh
 2011 – 569 2021 – 908
 (4,9% p.a.)

Fossils

Brazil: 2011 – 9,4% ; 2021 – 12,5%

World:2010 – 68%

Renewables

Brazil: 2011 – 87,8%; 2021 – 84,6%

World: 2010 – 18%



BRAZIL INSTALLED CAPACITY

Year	2011	2021
MW	117.100 (hydro 82.500 - 70%)	197.000 (hydro 118.900 - 60%)

79.900 MW in Ten Years Growth - 2011/2021 (7.990 MW/p.a)

Source	MW	%	
Hydro	36.400	45,6	} 76,4%
Wind	14.200	17,8	
Biomass	10.400	13,0	
Natural Gas	11.600	14,5	(Pré-Sal and others)
Oil	2.900	3,7	
Coal	1.600	2,0	
Nuclear	1.400	1,8	
Industrial Gas	1.300	1,6	
Total	79.900	100,0	(13.000 MW autoproducer)