Current Pledges, Offsets and their consistency with 2ºC

Bangkok, April 3rd, 2011

PLURINATIONAL STATE OF BOLIVIA

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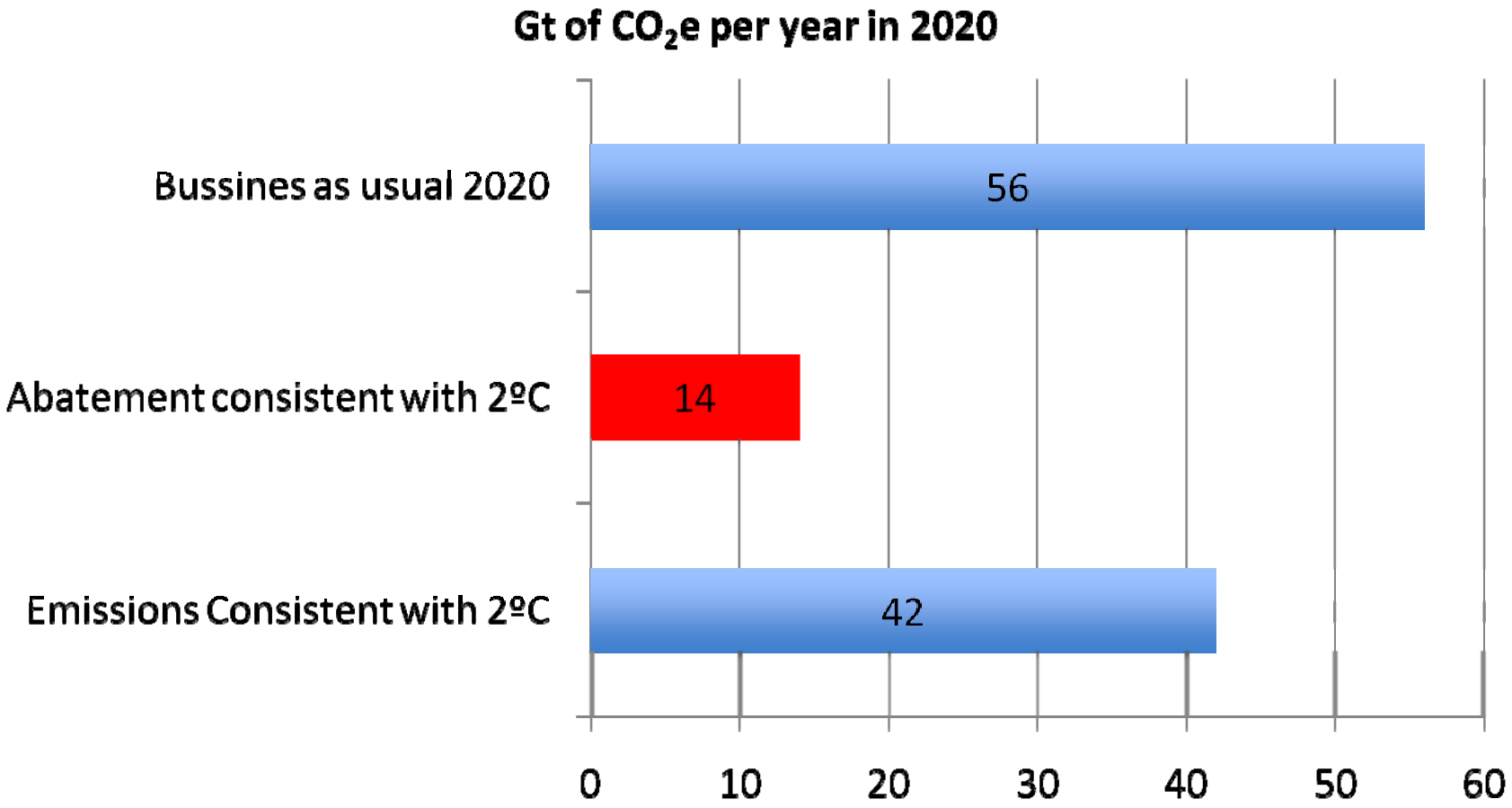
Abatement for 2°C



Sources: STOCKHOLM ENVIROMENT INSTITUTE, The implications of International Greenhouse Gas Offsets on Global Climate Change, http://seis-us.org/publications/id/380
UNEP, The Emissions Gap Report, Are the Copenhagen Accord Pledges Sufficient to Limit Global Warming to 2 ºC or 1,5ºC?, www.unep.org/publications/ebooks/emissionsgapreport/

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Emissions pledges

	Lower ambition	Higher ambition	Base Year	Notes
Developed Countries				
U.S.	17%	17%	2005	The U.S. submission states "in the range of 17%"
Europe	20%	30%	1990	We also apply the EU-27 pledge to other countries in Europe[13]
Japan	25%	25%	1990	
Canada	17%	17%	2005	
Australia	5%	25%	2000	
New Zealand	10%	20%	1990	
Developing Countries				
China	40%	45%	2005	Below 2005 intensity (per GDP)[14]
India	20%	25%	2005	Below 2005 intensity (per GDP) and excludes ag sector
Brazil	36%	39%	2020	Below 2020 reference emissions[15]
Mexico	30%	30%	2020	Below 2020 reference emissions
South Africa	34%	34%	2020	Below 2020 reference emissions
Indonesia	26%	41%	2020	Below 2020 reference emissions[16]
South Korea	30%	30%	2020	Below 2020 reference emissions
Others	Various		2020	We adopt the pledge assessment of Climate Analytics et al. (2010)[17]

Sources: STOCKHOLM ENVIROMENT INSTITUTE, The implications of International Greenhouse Gas Offsets on Global Climate Change, http://seis-us.org/publications/id/380
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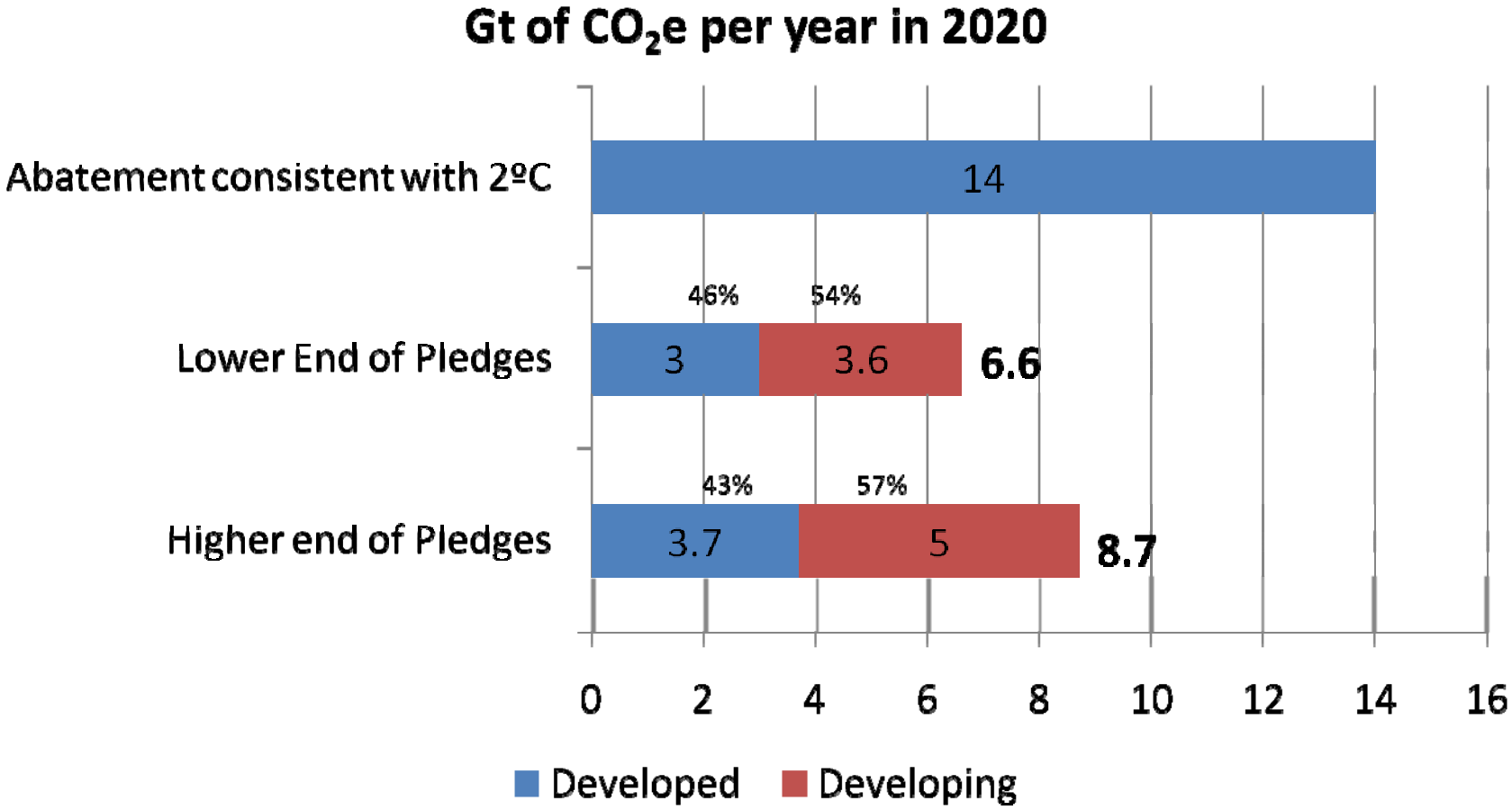
Abatement for 2°C and Current Pledges



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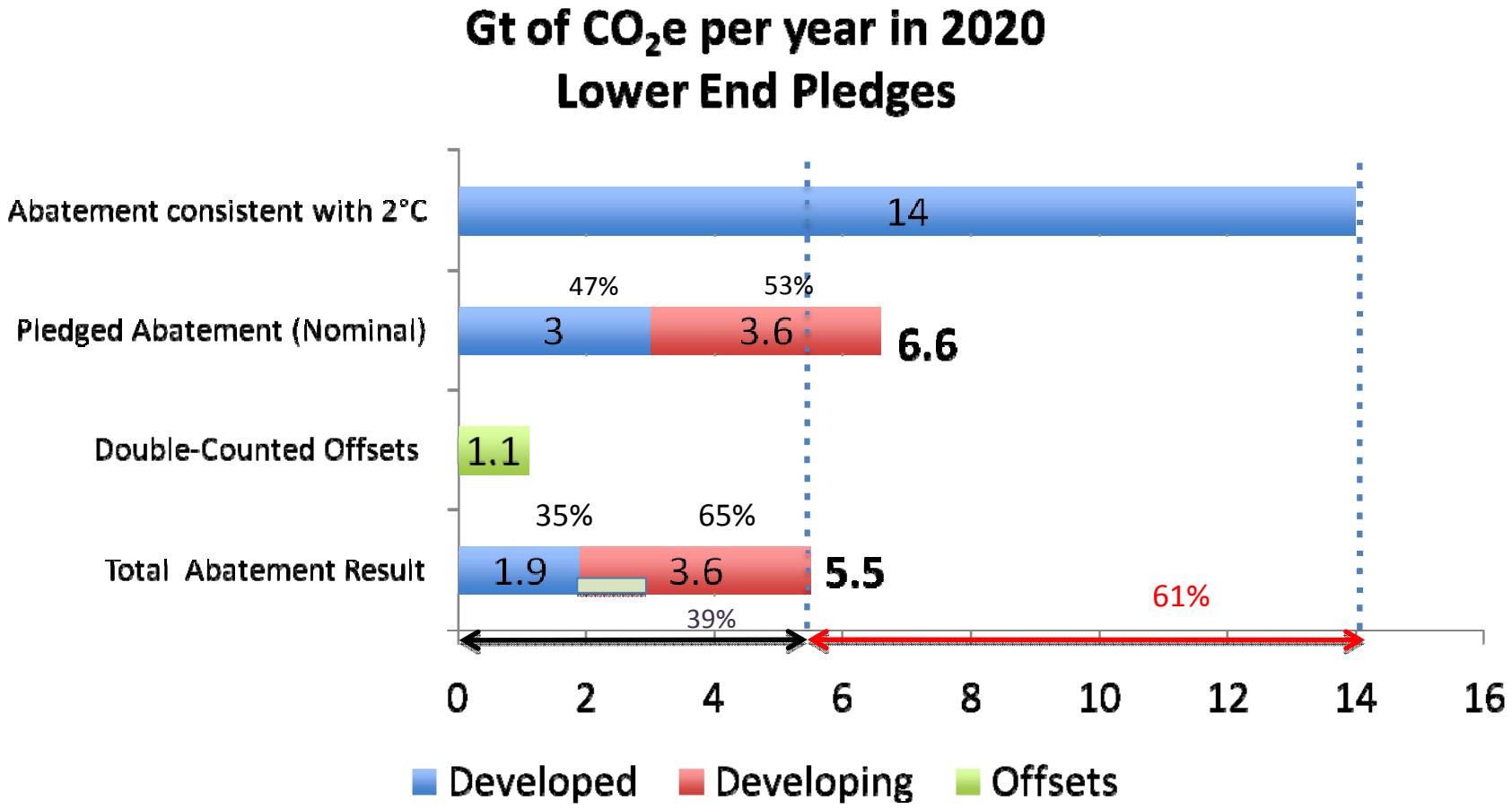
Implications of Offsets on Global Climate Change



Sources: STOCKHOLM ENVIROMENT INSTITUTE, The implications of International Greenhouse Gas Offsets on Global Climate Change, http://seis-us.org/publications/id/380

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Forecast Emissions for developed countries Scenario: Offsets Count Twice Scenario

Gt of CO_2e per year in 2020

	U.S.	Europe	All Other Developed	Total
BAU Emissions	6.8	5.5	6.1	18.4
Pledged Abatement – Lower ambition	1.3	1.0	0.7	3.0
Pledged Abatement – Higher ambition	1.3	1.5	0.8	3.7
Assumed Offset Limit – Lower ambition	None	0.5	None	
Assumed Offset Limit – Higher ambition	None	0.8	None	
Forecast Offset Usage – Lower ambition	0.3	0.5	0.4	1.2
Forecast Offset Usage – Higher ambition	0.2	0.7	0.4	1.3
Forecast Internal Abatement – Lower ambition	0.9	0.5	0.3	1.7
Forecast Internal Abatement – Higher ambition	1.1	0.8	0.4	2.4
Fraction of Abatement as Offsets – Lower ambition	26%	47%	61%	41%
Fraction of Abatement as Offsets – Higher ambition	15%	45%	49%	35%

Sources: STOCKHOLM ENVIROMENT INSTITUTE, The implications of International Greenhouse Gas Offsets on Global Climate Change, http://seis-us.org/publications/id/380
Forecast Emissions, offset usage, and Abatement in 2020 in Developed Countries under Offsets Count Twice Scenario; Offset Use Limited by Potential of Current Mechanisms to 1.3 Gt CO2e.

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Estimate of Offset Usage and Double-counting under four combinations of Pledge Ambition and Offset Mechanism

	Pledge Ambition	
Offset Mechanisms	Lower	Higher
Current mechanisms		
Total Offset Usage	1.2	1.3
Double-counted Offsets	1.1	1.1
Expanded mechanisms		
Total Offset Usage	1.2	1.6
Double-counted Offsets	0.8-1.2	0.6-1.6

Sources: STOCKHOLM ENVIROMENT INSTITUTE, The implications of International Greenhouse Gas Offsets on Global Climate Change, http://seis-us.org/publications/id/380

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Conclusions

- The gap in the abatement is 7.4 to 5.3 Gt. of CO_2e (53% to 38%)
- This can lead us to a 4°C to 5°C increase in the global temperature
- Developing countries are going to do more emission reductions than developed countries (54% vs. 46 % in LEP and 57% vs. 45% in HEP)
- The offsets can be 16% of global nominal pledges (11 Gt. CO_2e for Lower End Pledges)
- Because of offsets the abatement can be only 5.5 Gt. for the Lower End Pledges.
- The gap in the abatement will be higher because of offsets: 8.5 Gt. for the Lower End Pledges. (61 % of the 14 Gt. of CO_2e)
- With offsets developing countries will do even more effort than developed countries (65% versus 35%)