

Quantified emission reduction commitments by individual Annex I Parties Presentation by South Africa

Workshop on issues relating to scale of emission reductions to be achieved by Annex I Parties

AWG-KP 7.1, Bonn, 27 March 2009

Ranges

Box 13.7 The range of the difference between emissions in 1990 and emission allowances in 2020/2050 for various GHG concentration levels for Annex I and non-Annex I countries as a group^a

Scenario category	Region	2020	2050
A-450	Annex I	-25% to -40%	-80% to -95%
ppm CO ₂ -eq ^b	Non-Annex I	Substantial deviation from base- line in Latin America, Middle East, East Asia and Centrally- Planned Asia	Substantial deviation from baseline in all regions

- Annex I -25% to -40% below 1990 levels by 2020 for lowest stabilisation level assessed (IPCC AR4, p. 776, Box 13.7)
- Domestic effort for Annex I, carbon market only reduces costs
- Existing pledges from Annex I fall well short of the range
- Range provides a fixed point that should serves as a basis for individual Annex I commitments, not pledge-based



Three approaches

- Top-down (2 variants): to differentiate within Annex I, reflecting responsibility, capability, development and other factors
 - Based on Responsibility, Capability and Development-based approach (RCD)
 - Historical responsibility 1850-2000
 - Capability should include HDI, not just GDP / capita
 - Assumes a development threshold to remove poverty
 - Based on Income, Emissions Intensity, Emissions trends and Population trends (4-factor)
- Bottom-up: In-country assessment
 - Based on studies of mitigation potential for individual AI countries, in-country, or national communications (typically low)
 - With additional measures



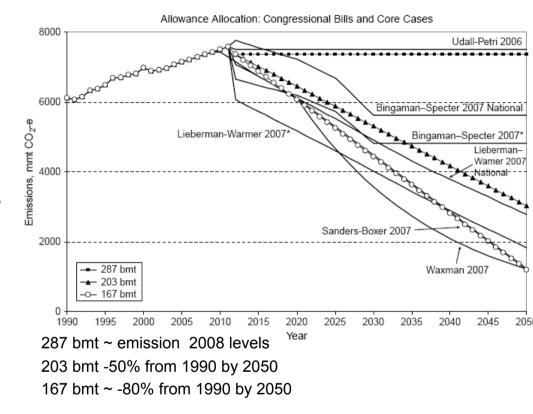
In-country assessments

- National Communications
- In-country studies suggest more ambitious targets are possible
- Canada
 - "20% below 2006" → -9% below 1990 levels
 - National communication: -2% with add'l measures
 - IISD report -40% below 1990 in 2020
- Germany
 - Nat'comm: 21% by 2020 compared to 1990 levels
 -41% with additional measures
- Australia: -5% to -15% below 2000 levels by 2020
 - CAIT data set: +17% to +5% above 1990 levels



- Obama: -80% by 2050 (should be from 1990)
- 'Return to' 1990 levels by 2020 – no reduction
- Various studies Pew, MIT, Paltsev
 - Sanders-Boxer is consistent with 167 bmt, and Waxman's proposal is below this
- Argonne Nat'l Lab: moderate energy policies enough for return to 1990 levels by 2020
 - Need to see additional measures

USA



Doing so little for so long, cannot be reason to be allowed to do less than required-by-science in future



Rationale and criteria

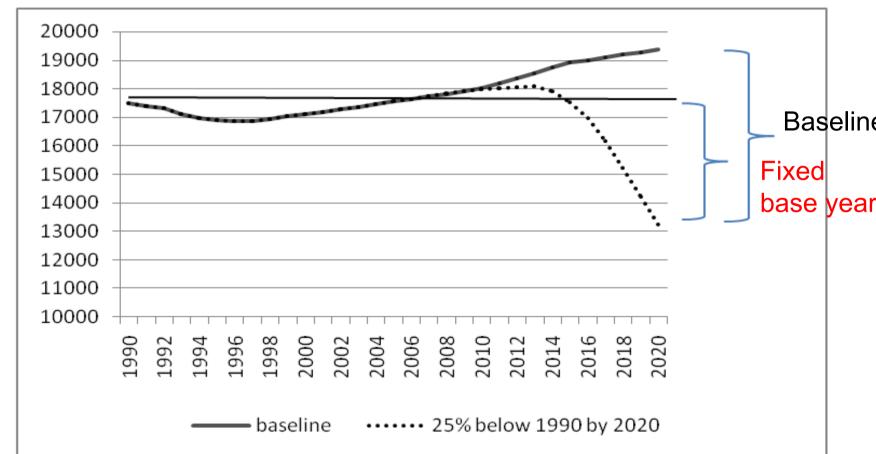
- Take responsibility and capability index, based on Art 3.1, drawing on Greenhouse Development Rights
- Exclude NAI, recalculate index for A1 countries only
 - Weighted index 60% responsibility, 40% capability, different weightings possible
- Annex I mitigation requirement as group, here -40% below 1990 levels by 2020
- Assign mitigation requirement in relation to RCD index
- Defines number for each A1 country
 - reduction from countries baseline emissions in 2020
 - preferably as reduction from fixed base year, 1990

Income, intensity, emissions trends and pop trends

- Four indicators for mitgiation potential
 - adjusted for Annex I as group to -45%



Reduction against baseline projection very different to same percentage reduction against fixed base year



Reductions bigger compared to baseline Baselines typically assume no change in lifestyles, production and consumption patterns



	RCD for - 40%		Four Factor		RCD for - 40%		_Four Factor
	Baseline method	1990 method			Baseline method	1990 method	
Australia	9%	-28%	-36%	Latvia	-133%	-25%	-45%
Austria	-31%	-60%	-45%	Lithuania	-89%	-27%	-45%
Belarus	-65%	-15%	0%	Luxembourg	-44%	-55%	-45%
Belgium	-44%	-61%	-45%	Netherlands	-34%	-42%	-45%
Bulgaria	-5%	-16%	-45%	New Zealand	0%	-20%	-23%
Canada	-24%	-33%	-35%	Norway	-31%	-56%	-42%
Croatia	46%	-28%	-45%	Poland	6%	-30%	-45%
Czech							
Republic	-11%	-34%	-45%	Portugal	19%	-37%	-45%
Denmark	-45%	-48%	-45%	Romania	-14%	-18%	-45%
Estonia	-73%	-22%	-45%	Russian Federation	-43%	-17%	-57%
Finland	-10%	-36%	-45%	Slovakia	36%	-30%	-45%
France	-52%	-58%	-45%	Slovenia	122%	-36%	-45%
Germany	-65%	-51%	-45%	Spain	24%	-45%	-45%
Greece	18%	-33%	-45%	Sweden	-66%	-65%	-45%
Hungary	4%	-33%	-45%	Switzerland	-52%	-58%	-41%
Iceland	-20%	-35%	-32%	Turkey	71%	-15%	-45%
Ireland	-3%	-36%	-45%	Ukraine	-44%	-9%	-90%
Italy	-10%	-42%	-45%	United Kingdom	-80%	-70%	-45%
				United States of			
Japan	-24%	-38%	-36%	America	-51%	-50%	-36% 8



Thank you