

















POLES MODEL: Assumptions on how to broaden participation

• All countries, also DCs, implement Energy Efficiency policies, specifically in transport and residential sectors. Includes:

- Better foresight and information.
- Increased Technology Development
- Additional Energy Efficiency Standards

• In order to meet the 2°C objective, developed countries take the lead, gradually increasing participation from developing countries.

• Answer the question to what extent the guidance from the 2005 EU Spring Council can translate into a 2°C emission scenario:

the EU looks forward to exploring with other parties strategies for achieving necessary emission reductions and believes that, in this context, reduction pathways for the group of developed countries in the order of 15-30% by 2020, should be considered

European Commission: DG Environment













* * * * * * * * *	The role of energy eff	ficiency by 202	20	
• EE reduce residential a	s emissions most in transport, and commercial sectors.			
•EE achieves 1/3 of the necessary global reductions by 2020.		2020 Share of emission reductions due to EE scenario		
 Energy standards key to deliver real reductions "Trickle through" effect into developing 				
		Annex I	35%	
countries' p	countries' product markets		31%	
		Non - Annex I	27%	
		European Commission	: DG Environment	















	2020		2030	
-	Emission targets (compared to 1990)	Domestic emissions (compared to 1990)	Emission targets (compared to 1990)	Domestic emissions (compared to 1990)
USA	-23 %	-4 %	-39 %	-21 %
EU27	-31 %	-21 %	-46 %	-35 %
FSU	-42 %	-39 %	-54 %	-51 %
Japan	-26 %	-24 %	-41 %	-37 %

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	2020			2030		
	Participation global carbon market?	Baseline emissions (compared to 1990)	Domestic emissions (compared to 1990)	Emission targets (compared to 1990)	Domestic emissions (compared to 1990)	
Brazil	Yes	31 %	32 %	34 %	31 %	
China	Yes	140 %	85 %	150 %	103 %	
ndia	No	165 %	165 %	218 %	179 %	



Results: Cost of action is consistent with global economic development

		Impact on GDP					
		2020			2030		
	GDP 20	005=100	Annualised change	GDP 20	105=100	Annualised change	
	baseline	reduction	from 2005	baseline	reduction	from 2005	
USA	156.8	154.6	-0.15%	194.9	190.1	-0.20%	
EU27	135.1	129.9	-0.19%	158.1	146.9	-0.24%	
FSU	214.1	213.4	-0.37%	298.8	287.6	-0.47%	
Japan	130.4	129.3	-0.08%	162.6	160.0	-0.11%	
Brazil	165.4	164.8	-0.04%	244.6	242.3	-0.09%	
India	205.6	204.3	-0.10%	331.6	328.9	-0.11%	
China	213.1	212.4	-0.05%	317.2	314.5	-0.11%	
World	155.3	153.2	-0.14%	200.8	196.2	-0.19%	

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Co-benefits: Reducing GHG emissions reduces emissions of other air pollutants

Costs of air pollution policies in the EU would decrease significantly due to climate policies, estimates using the GAINS model:

Co-benefits from Climate Change Policies				
	Reduction compared to 2020 baseline emissions			
CO2	-9.31%	-22.75%		
SO2	-5.90%	-12.11%		
NOx	-2.30%	-6.08%		
PM2.5	-3.15%	-5.94%		

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