





## Translating Stabilization Targets: Near-Term Emissions Pathways "Emissions Corridor": Several emissions pathways lead to a similar stabilization level Variation is due to timing and height of the emissions peak and emission reduction before and after the emissions peak Near-term emissions targets (e.g., 2020) or ranges will therefore help define what is expected from int'l efforts Results of stabilization pathway analyses often differ due to: Representation of carbon cycle Overshooting or not Non-CO2 gasses Land use change and forestry









## Example Country Scenarios – CCAP Sectoral Approach

	Option 1		
	Change Relative	Change Relative	
	to 1990	to BAU	
USA	0%		
EU25	-30%		
Russia	-30%		
Japan	-30%		
Annex I	-20%		
Brazil	166%	-1%	
China	64%	-27%	
India	135%	-24%	
Mexico	151%	-5%	
South Africa	71%	-7%	
South Korea	149%	-22%	
Non-Annex I	125%	-12%	



Source: Schmidt et al., 2006; Höhne et al. 2006

Example Country Scenarios 2						
		Option 2				
		Change Relative to 1990	Change Relative to BAU			
	USA	0%				
	EU25	-24%				
	Russia	-37%				
	Japan	-22%				
	Annex I	-18%				
	Brazil	90%	-21%			
	China	95%	-22%			
	India	164%	-21%			
	Mexico	85%	-27%			
	South Africa	55%	-21%			
	South Korea	138%	-28%			
	Non-Annex I	102%	-22%			
Center for Clean Air Policy	Source: Schmidt	et al., 2006; Höhne et al.	2006			

## Global Emissions Budgets: Near-term Implications

- Global Emissions Budget (GEB) is a total net cumulative GHG emissions over the mitigation timeframe that should not be exceeded if the stabilization target is to be achieved.
- Under the BAU scenario, GEB for 2001-2100 is 6976 GtCO2.

Stabilization Targets	GEB for 2001-2100 (GtCO <sub>2</sub> )	% of BAU GEB
450 ppm CO <sub>2</sub> e	2100	30%
550 ppm CO2e	3700	53%

## Cumulative emissions

enter for

- » 2001-2003: 75 GtCO<sub>2</sub>
- » 2004-2030: 911 GtCO2 under IEA Reference Scenario







