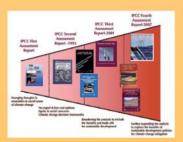
20 YEARS OF THE IPCC

Working Group III - Climate Change Mitigation



The Working Group III Assessment and Special Reports reflect an evolution of ideas regarding the economics and social dimensions of climate change mitigation

Between 1970 and 2004 greenhouse gas (GHG) emissions have increased by 70%



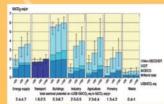
Mitigation is possible and a wide range of mitigation technologies are commercially available now and in the mid-term - but hard choices are needed

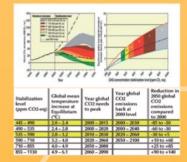


By 2025 GHG emissions are projected to increase between 25-90% (using IPCC SRES scenarios), but bottom up and top down studies indicate that there is sufficient economic mitigation potential over the

All sectors can contribute, but the respective potential and costs differ within regions and among economic sectors.

- A large number of mitigation technologies are available now and in the near future An effective carbon-price signal could realize significant mitigation potential
- A variety of policies and instruments are available to create incentives for mitigation action
- RD&D efforts and technology transfer
- Market creation
- Tax credits and charges
- Standard setting and regulatory measures
 Changes in lifestyles and behaviour patterns can
- contribute to climate change mitigation
 - Occupant behaviour, cultural patterns, consumer choices
 - Reduction of car usage, improved urban planning and more availability





Short-term action matters to achieve stabilization targets in the longer term

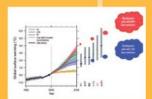
Mitigation efforts over the next two to three decades will have a large impact on opportunities to achieve lower stabilization levels.

Costs depend on stabilization target and level, baseline, portfolio of technologies considered and rate of technological change

Mahilization levels (ppm CO3-eq)	Median GDP reduction (%)	Range of GDP reduction (%)	Reduction of average aerosal GDP growth rates %
590-710	0.2	-4.6-1.2	< 0.06
\$35-390	9.6	0.2 - 2.5	< 0.1
445-535	Not available	<3	< 0.12

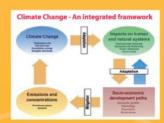
Suggested reduction targets for

Scenario	Region	2000	2000
A-430 ppm	Annes I	-25% to -48%	-80% to -95%
CO _F ee	Non-Armen I	Sufestantial deviation from baseline in Latin America, Atlabile East, fast Asia and Contrally- Planted Asia	Substantial deviation from baseline in all regions
B-SSF page	Annex I	-10% to -30%	-875 to -90%
CO ₂ eq	Non-Armes I	Deviation from baseline in Latin America and Middle East, East Asia	Deviation from baseline in most regions, reportally in Letin America and Middle East
C-659 ppm	Annes I	4%, to -25%	-30% to -80%
CO _r eq	Non-Armes I	Excise	Deviation from baseline in Eatin America, Michille East, and East Asia



There is a two-way relationship between climate change and sustainable development

- Climate change will worsen the gap in distributional goods and services between and within generations as the poor and disadvantaged will be the most affected
 An effective climate change strategy will require a portfolio of policies and measures that integrate development, equity and sustainability
 Linking sustainable development with climate change policies will make it easier to control climate changes risks
 Decision making in a sustainable development context would require broadening economic analysis of climate change, by including all co-benefits



Climate change policy alone will not solve the climate change problem

Decisions about other policies that seem unrelated to climate

- Macro-economic policy: taxes, subsidies, other fiscal policies, structural adjustment
- Trade policy: "embodied carbon", removing barriers for low-carbon products, domestic energy sources
- Energy security policy: efficient energy use, domestic energy
- Access to modem energy: bio-energy, poverty tariffs Air quality policy: clean fuel
- Bank lending policies: lending for efficiency/renewable energy, avoid lock-in into old technologies in developing

A broad range of policy initiatives is needed in energy, environment, trade, economics, banking and insurance.



