

THE IMPACTS AND CHALLENGES OF CLIMATE CHANGE

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Impact



climate change

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Impact to Major Economies

Economies	Yr.	Organization / Strategies	Description
Canada	1990	National Action Strategy on Global Warming	No-Regrets, National Integration statements.
	1992	Energy Efficiency Act	Authorizing Officials in regulating energy consumption.
	1995	National Action Program on Climate Change , NAPCC	Principle codes of responses to climate change.
	1998	Climate Change Action Fund, CCAF	Supporting any activities related to reducing GHG.
	1998	Technology Early Action Measures, TEAM	Investing technologies beneficial to GHG reduction.
	2005	Moving Forward on Climate Change: A Plan for Honouring Our Kyoto Commitment	Embarking on climate change adaptation work inter-departments.
	2006	Canada's Clean Air and Climate Change Act (under developing)	Regulating air pollution and GHG emissions.
Japan	1997	地球温暖化対策推進本部	Official-led climate change adaptation center
	1998	地球温暖化対策の基本法	
	2008	Smart Adaptation	Integrated adaptation plans with geology, urban plan, agricultures, and etc.
South Africa	2004	National Climate Change Response Strategy	Pollution and waste management, energy, agriculture and water.
	2010	National Climate Change Policy White Paper (developing)	Synergizing stakeholders engagement.

Impact to Major Economies (con't)

Economies	Yr.	Organization / Strategies	Description
United Kingdom	2000	Climate Change: The UK Programme	Commitments to Kyoto Protocol.
	2001	Climate Change Levy; Climate Change Agreements	Tax Incentives.
	2001	The Carbon Trust	Promoting technologies in low-carbon.
	2002	Renewable Obligation Order	Building UK renewable markets.
	2004	The Energy Act	Regulations and framework of clean energies.
	2005	The UK Climate Impact Programme (UKCIP)	Helps organisations to adapt to inevitable climate change.
	2006	UK National Allocation Plan 2005 - 2007	Plans to EU Emission Trade System.
	2006	Climate Change: The UK Programme 2006	Revisions of Climate Change 2000.
	2006	Climate Change and Sustainable Energy Act	Promoting Green energy and renewable energy.
	2007	Engery White Paper	Executive plan to 2020.
	2007	Energy Efficiency Action Plan (EEAP)	Targeting on 9% energy saving in 2016.
	2008	Climate Change Act	Regulating GHG emissions.
	2008	Carbon Emissions Reduction Target (CERT)	Reducing Carbon Emissions.
	2008	The Department of Energy and Climate Change (DECC)	Newly established official department
	2009	UK Renewable Energy Strategy	Plannings of renewable energy.
	2010	Carbon Reduction Commitment (CRC)	Official offices and commercial stores commitments in Carbon reduction.
EU	2009	Climate-Energy Legislative Package	Reducing GHG emission.
	2009	SET – Plan, Strategic Energy Technology Plan: Investing in the Development of Low Carbon Technologies	Excutive plans of Renewable Energy Technology.
	2010	EUROPE 2020	10-year plan of sustainable economy entity.

Global Perspective



Mitigation

- Carbon Dioxide
- Nitrous Oxide
- Methane
- CFC
- HFC
- PFC
- SF6

Green House Gas Emission

1997 Kyoto Protocol

1998 Japan, Act of Global Warming

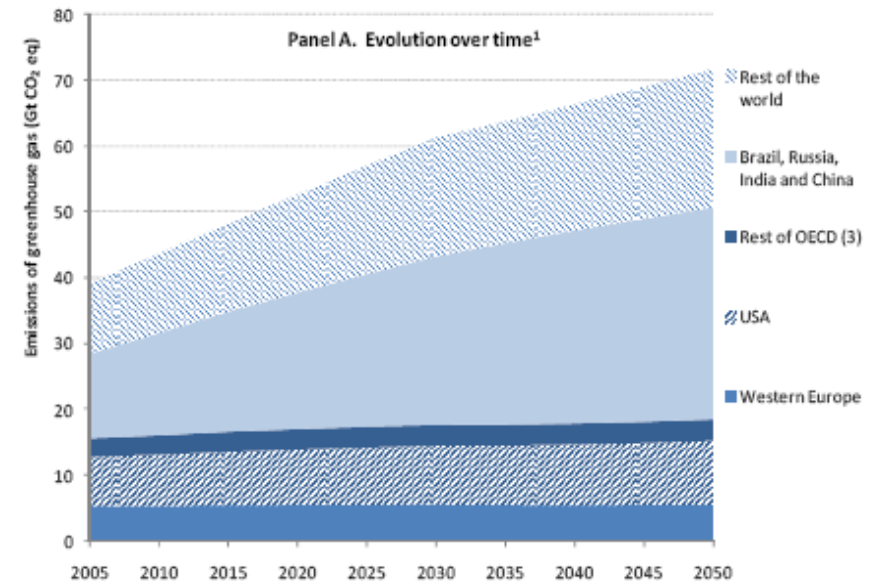
2007 IPCC, Mitigation of Climate Change

2008 UK, Climate Change Act

2008 UK, Carbon Emissions Reduction Target

2009 EU, Climate Energy Legislative package

Figure 1. Developing countries would account for most of the projected increase in world greenhouse gas emissions over the coming decades



Adaptation



Define: Risk Governance



how risk-related decision-making unfolds when a range of actors is involved, requiring co-ordination and possibly reconciliation between a profusion of roles, perspectives, goals and activities.

Risks such as those related to increasingly violent natural disasters, food safety or critical infrastructures call for coordinated effort amongst a variety of players beyond the frontiers of countries, sectors, hierarchical levels, disciplines and risk fields.

Risk Governance Partners



The diagram illustrates four pairs of Risk Governance Partners. Each pair is represented by two overlapping, arrow-shaped boxes pointing towards each other. The left box in each pair is light green with a dark green border and a dark green arrowhead on the right. The right box is light blue with a dark blue border and a dark blue arrowhead on the left. The text inside the boxes is in a black, italicized serif font. The pairs are: Economies (green) and Economies (blue), Corporations (green) and Shareholders (blue), Citizens (green) and Government (blue), and Human Beings (green) and Nature (blue). A horizontal bar at the top consists of an orange segment on the left and a light blue segment on the right.

Economies

Economies

Corporations

Shareholders

Citizens

Government

Human Beings

Nature



DON'T LET OUR PARTNERS DOWN



Challenges



TAKE ACTIONS

ACTION



Agreement in Cancun

Global effort to implement it

Including TAIWAN



When we are still thinking, they are incessantly sinking!!



To be continued...