

Conventions

Terminologies

Treaty

Between two/few countries

Convention

Many countries under world orgn.

Amendment

Change in clause

Protocol

Major amendment in convention



Conventions

Terminologies

Conference of Parties (CoP)

Parties of Convention

Meeting of Parties (CMP)

Parties of protocol

Signatory

Intention, not binding

Ratification

By own national procedures, binding



Earth Summit at Rio



CBD Signed RIO 1992

AG. 21 UNFF UNCCD Initiated UNFCCC Signed



United Nations Framework convention on Climate Change

- Came into force on 21st March 1994
- •(90 days after 50th ratification), Total 197 countries

Objective

•Stabilize green house gas concentrations at a level that would prevent dangerous anthropogenic (human induced) interference with the climate system.

Achieved within a timeframe sufficient

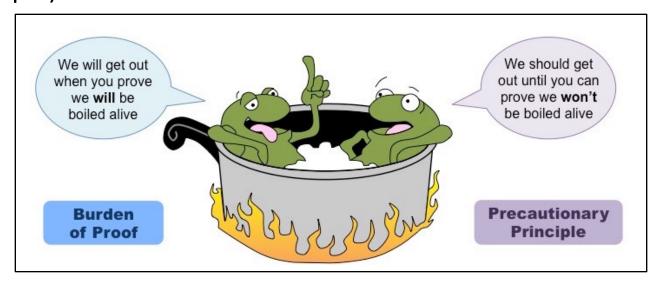
- To allow ecosystems to adopt naturally to climate change
- Food production not threatened
- Economic development to proceed in sustainable manner



IMP. PRINCIPLES

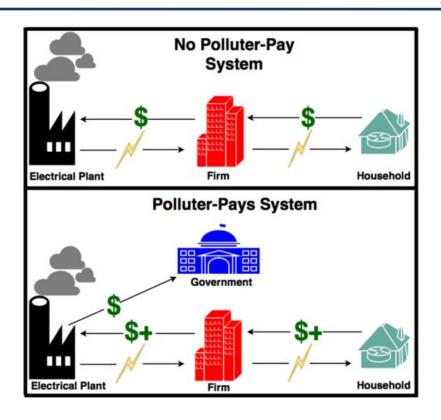
Precautionary Principle

•Precautionary measures to anticipate, prevent or minimize causes and mitigate. When serious/irreversible damage, lack of full scientific certainty not a reason for postponement (sure science principle).





IMP. PRINCIPLES



Polluters Pay

Onus on countries responsible



Definition (s)

Climate Change

•Change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which in addition to natural climate variability observed over comparable time periods.









Annex I – Organisation of Economic Co-operation and Development (OECD) + 12 Economy in transition countries (EIT) (C & W Europe)

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Australia
Austria
Belarusa/
Belgium
Bulgariaa/
Canada
Czechoslovakiaª/
Denmark
European Economic Community
Estoniaa/
Finland
France
Germany
Greece
Hungarya/
Iceland
Ireland
Italy
Japan
Latviaa/
Lithuaniaa/
Luxembourg
Netherlands
New Zealand
Norway
Polanda/
Portugal
Romaniaa/
Russian Federationa/
Spain
Sweden
Switzerland
Turkey
Ukrainea/
United Kingdom of Great
  Britain and Northern Ireland
United States of America
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Annex II - Annex I - EIT

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Australia
Austria
Belgium
Canada
Denmark
European Economic Community
Finland
France
Germany
Greece
Iceland
Ireland
Italy
Japan
Luxembourg
Netherlands
New Zealand
Norway
Portugal
Spain
Sweden
Switzerland
Turkey
United Kingdom of Great
  Britain and Northern Ireland
United States of America
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Parties





Parties

Annex I and Annex II

Onus for past increase Cut to 1990 levels by 2000

Annex II

Finance and Technology to EIT and developing countries

Non Annex

Developing countries

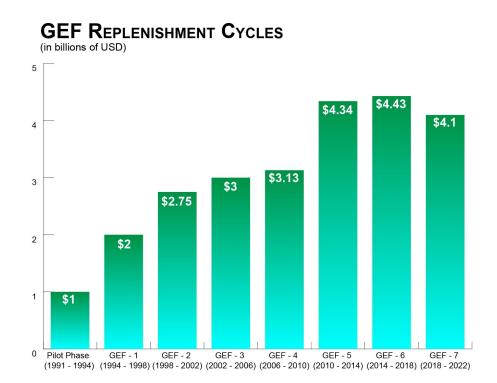
Least Developed Countries

49 countries



Global Environment Facility (GEF)

- Interim arrangement
- •UNDP, UNEP and World Bank
- Grants and loans by this arrangement
- Financial support over and above they already provide



- Replenished every 4 years by 40 GEF donor countries
- World Bank is trustee



Reporting

Annex I – Annual Inventory of Green house gas

emissions- 1990 base year and every year since

Non-Annex – Report in more general terms, less

regularly, contingent on funding



Secretariat

- Secretariat in Bonn
- CoP every year, Presidency- Host country of CoP



- Venue rotates among 5 UN regions (Africa, Asia, Latin America & Caribbean, Central, Eastern & Western Europe and others)
- Bodies under conventions and Protocols
- Convention- 2 each from 5 regions, 1 small island nation (35%)
 Women)



Secretariat

In force on 15th February, 2005, 192 countries - parties

- Convention Only asks to adopt policies and measures on mitigation and report periodically
- Kyoto protocol operationalizesconvention by committing to limitCHG emissions as per agreed targets



Common but differentiated responsibility and respective capabilities



Annex A Green House Gases

- 1. Carbon dioxide (Co₂)
- 2. Methane (CH₄)
- 3. Nitrous Oxide ((N₂O)
- 4. Hydrofluorocarbons (HFCs)
- 5.Perfluorocarbons (PFCs)
- 6.Sulphur hexafluoride (SF₆)



Annex B

1.Emission reduction/
levels w.r.t base level in
1990 to each country
2.Average 5 % reduction
from base year in 5 years
in first commitment period
(2008-12)



English		F • 070 /	
Page 24		Japan	94
-	Annex B	Latvia*	92
		Liechtenstein	92
Party	Quantified emission limitation or	Lithuania*	92
	reduction commitment	Luxembourg	92
	(percentage of base year or period)	Monaco	92
		Netherlands	92
Australia	108	New Zealand	100
Austria	92	Norway	101
Belgium	92	Poland*	94
Bulgaria*	92	Portugal	92
Canada	94	Romania*	92
Croatia*	95	Russian Federation*	100
Czech Republic*	92	Slovakia*	92
Denmark	92	Slovenia*	92
Estonia*	92		92
European Community	92	Spain Sweden	92
Finland	92		
France	92	Switzerland	92
Germany	92	Ukraine*	100
Greece	92	United Kingdom of Great Britain and Northern Ireland	92
Hungary*	94	United States of America	93
Iceland	110		
Ireland	92	* Countries that are undergoing the process of transition to a market economy.	
Italy	92		

Levels are same/increase/decrease



Market based mechanisms

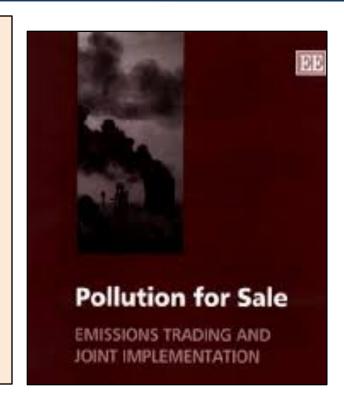
- Primarily through national resources
- But also through 3 market based mechanisms
- Does not matter where they are removed/reduced
- Green investment in developing countries
- Transfer to newer cleaner technology



Market based mechanisms

1. International Emissions Trading

- Emissions permitted but not used can sell to that are over their targets
- Commitment period reserve not to drop below certain level - prevent overselling



2. Joint Implementation

Emission reduction/removal project in another Annex B party

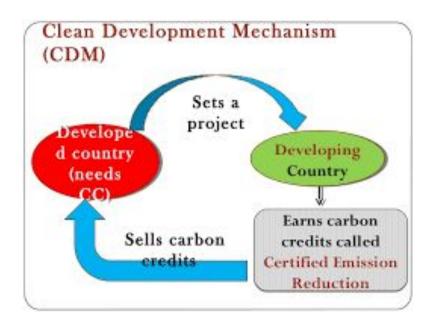


Market based mechanisms

3. Clean Development

Mechanism

 Implement emission reduction project in other countries



• Saleable Certified Emission Reduction (CER) credits each = one tonne of Co_2 eg. Rural electrification through solar, more energy efficient boilers



Adaptation Fund

 In 2001 to finance concrete adaptation projects in developing countries that are particularly vulnerable to climate change

Financed with share of proceeds from CDM project activities
 and also other sources

 Share of proceeds from CDM- 2 % of certified emission reduction (CERs) issued for a CDM project activity



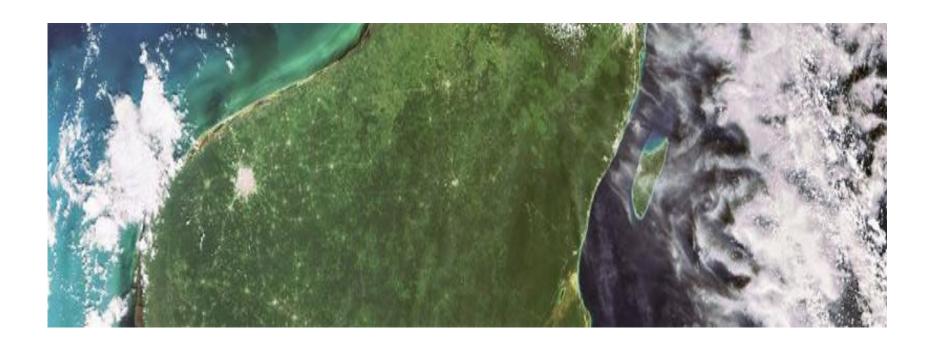
Results-1st commitment period

- •38 countries committed (USA/Canada did not ratify/withdraw)
- •36 countries committed to 4 % reduction
- •Achieved 24.2 % below 1990, With USA/Canada-11.8%
- •Dissolution of Soviet Union and financial crisis of 2007-08 contributed
- •Global emissions increased by 32% from 1990-2010 others



Cancun-1997

Commit to max. temp rise of 2°C above pre- industrial levels and lower to 1.5°C in near future.





Cancun-1997

Technology mechanism in 2012 to be fully operational to boost innovation and spread of new climate friendly technologies

Establish Green Climate Fund to finance developing countries — Interim trustee is World Bank

Cancun Adaptation Framework –

Adaptation committee for stronger cohesive action.







Doha Conference-2012



Amendment to Kyoto Protocol – Doha Gateway Plan



Doha Conference-2012



To stay below max 2 degree temp rise (pre industrialisation level)



Scale up efforts even before 2020



Universal climate change agreement covering all countries from 2020, to be adopted by 2015



Doha Conference-2012

Second commitment period-8 years from 2013-20

- 18 % reduction below 1990 levels (15% global emissions)
- •TO be accepted by atleast 3/4 (144 countries)
- Till now only 140 countries



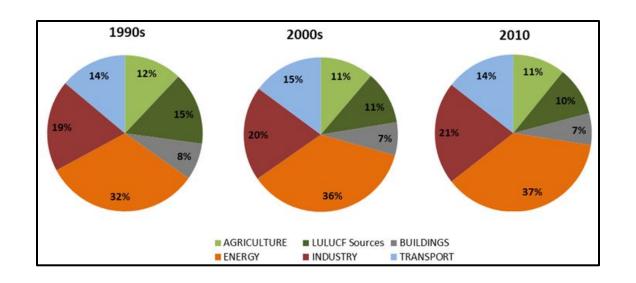


•Intense Domestic preparations for Nationally determined Contributions well before December 2015

REDD Plus



- IPCC special report on climate change and land
- Agriculture, Forestry and other land use 23 % of emissions
- REDD plus largest potential
- Non carbon benefits biodiversity, food security, clean water







Warsaw framework for REDD plus



REDD +





FAO, UNDP and UNEP (UN REDD)	Under UNFCCC
Funding and technical support to	Voluntary climate change mitigation
National REDD+ prog.	approach in developing countries
Assist them to qualify for	Reduced emission from (i) def. & degrada.
payments under convention	(ii) sustainable mgt. (iii) conservation and
	enhancement of carbon stocks
Established in 2007	2013-Warsaw (Acronym first used)



National REDD+ Strategy India 2018

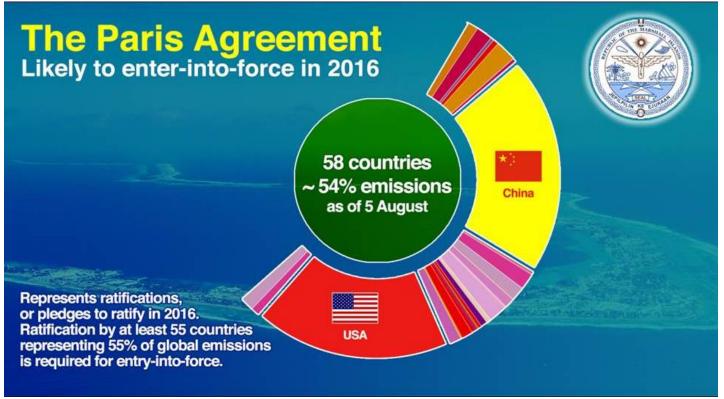


REDD Plus requirements

1.Forest reference emission level	2. National strategy/Action plan
2. Monitoring and reporting system	4. Social and environmental
	safeguards while implementing



Paris Agreement- 2015



Historic- 196 signatories- All countries- 186
 parties (ratification)



Paris Agreement - 2015

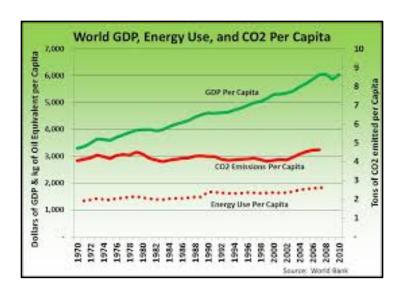
- Long term climate action post 2020
- Nationally Determined targets (NDC) countries ambition for reducing emissions
- •186 parties-first submission, 3 parties second submission
- •Came into force in November 2016 after 55 parties accounting for 55% of total emissions ratified.
- India NDC on 2nd Oct 2016



Paris Agreement - 2015

India NDC

8 Intentions, 3 quantitative



Reduce emissions intensity of its GDP by 33 to 35 % by 2030 from 2005



40 % electric power capacity from non fossil fuel (from GCF)



Paris Agreement - 2015 India NDC



Additional carbon sink of 2.5 to 3.0 billion tonnes of CO2 equivalent through additional forest and tree cover by 2030.





UNFCCC -Rio in 1992

(Only developed countries, no targets, not binding)



Kyoto Protocol- 1997

(Developed countries-binding targets)



Cancun-2010

(temp. decrease, GCF, technology mechanism, Adaptation framework, REDD Plus safeguards)





Contd..

Doha - 2012

(Second commitment period, NDC for all countries)



Warsaw – 2013

(INDC formulation, REDD plus)



Paris - 2015

(All countries, NDC)