

Climate Change: Facts and politics; science and art; present and future

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Inconvenient truth



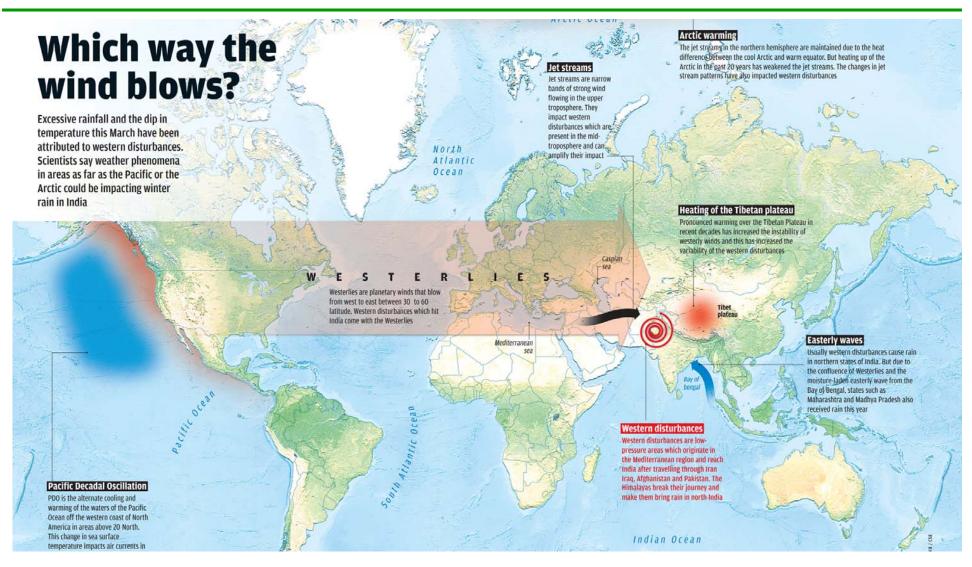
- Climate change is real
- The world needs to cut emissions drastically and urgently
- Poorest not responsible for climate change – are worst impacted
- We will lose development dividend



The face of India's farmer Grief, despair, desperation Unseasonal rain, hail, freak storms have destroyed crops over millions of hectares

Not just normal variability





Is this climate change?



- Cannot say if this season of despair is linked to climate change
- But cannot say that these extreme weather events are not climate change
- Weird is now normal
- Normal is now devastating the poor not responsible for climate change are worst impacted

Negotiations on economy Not ecology

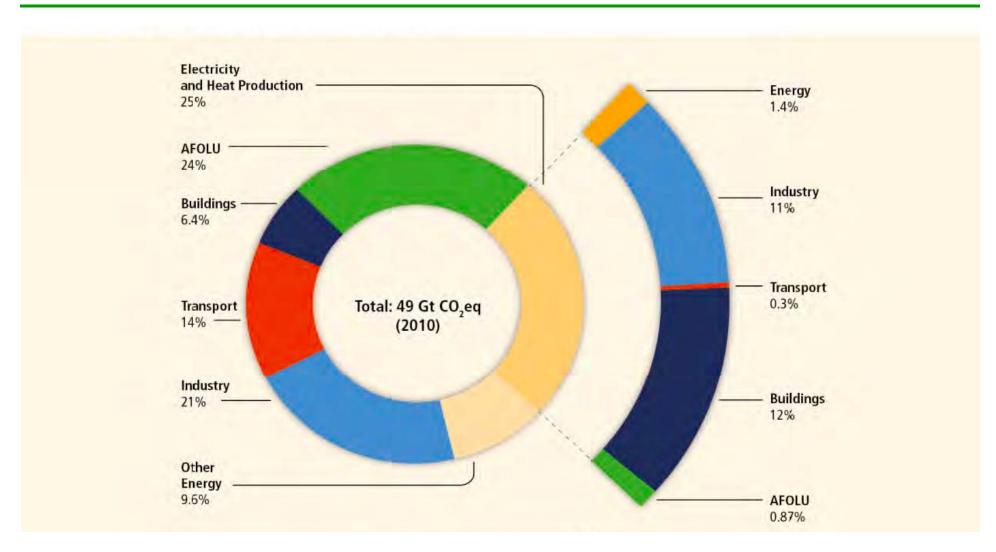


Climate change is about economic growth
No country has built a low carbon economy
So action is little and too late
Convention signed in 1992
25 years later world is still talking;
procrastinating; finding excuses not to act

Economic growth on line

Emissions are about economy



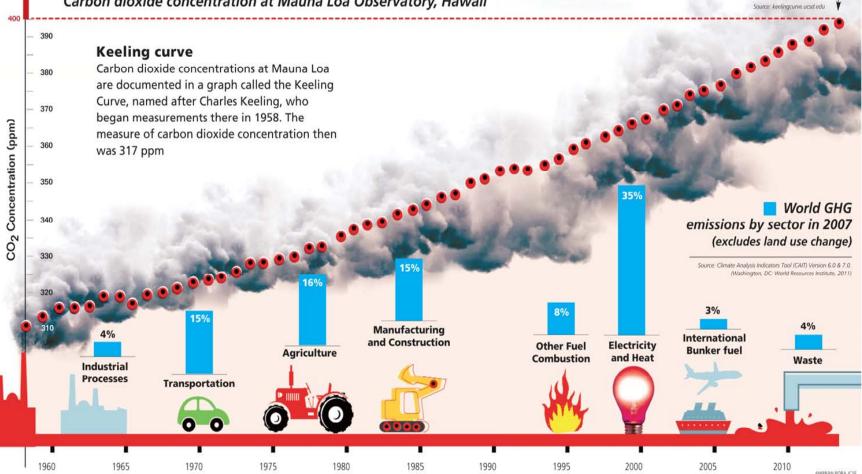


A first in human history

Carbon dioxide levels have crossed 400 ppm. This means the impacts of climate change will be even more pronounced—droughts, floods and sea level rise, for instance. If the world does not act to limit carbon dioxide emissions, climate change will cause devastation worldwide, and more so in South Asia. The poor will end up with a raw deal

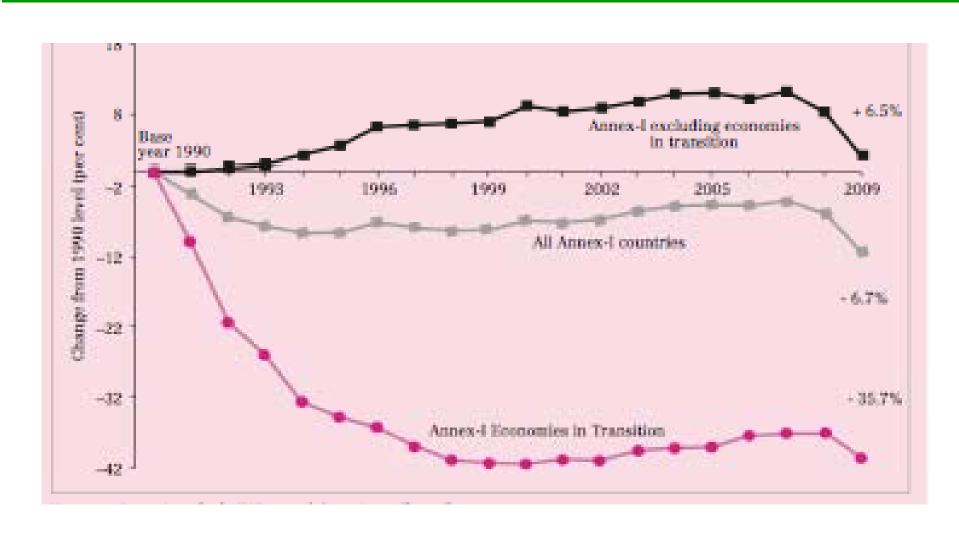
BREACHES
400
PPM ON
MAY 9, 2013

Carbon dioxide concentration at Mauna Loa Observatory, Hawaii



Rich countries: not meeting Kyoto target

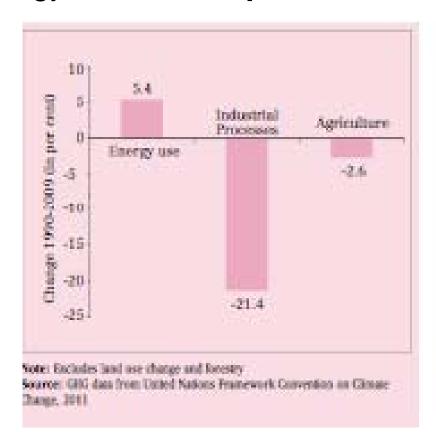


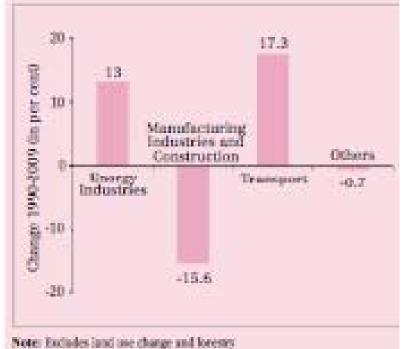


1990-2009: no transition in energy use



Energy emissions up; within energy, industry and transport up





Source: GHG data from United Nations Framework Convention on Climate

Change, 2011

Growth has to be reinvented

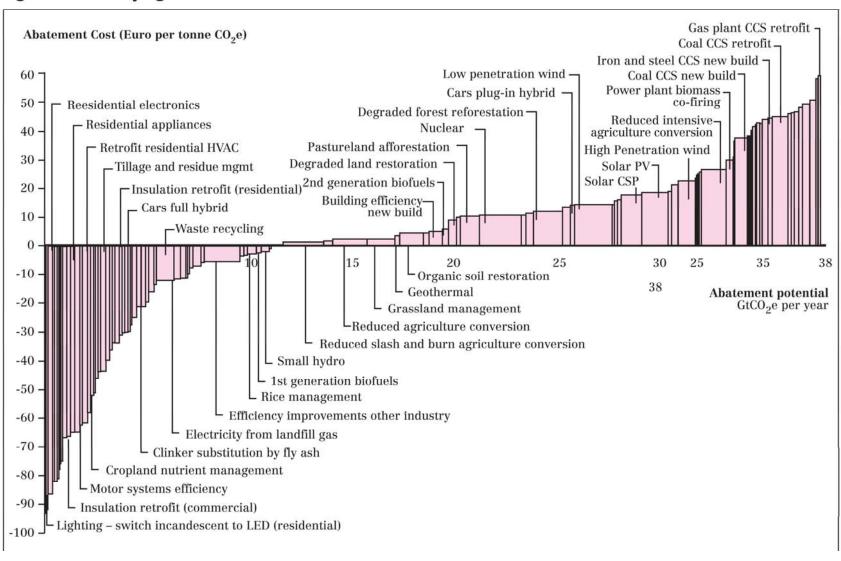


- Drastic reduction requires transformation
- Energy basket to be changed from fossil to non-fossil
- Consumption to be reduced drastically
- As yet, world talks about low-carbon growth but has not found answers

Soft options used Needed is transformation



Figure 1: McKinsey's global GHG abatement cost curve



Growth has to be shared



Climate change is about sharing growth between nations and between people

The rich must reduce so that the poor can grow. Create ecological space

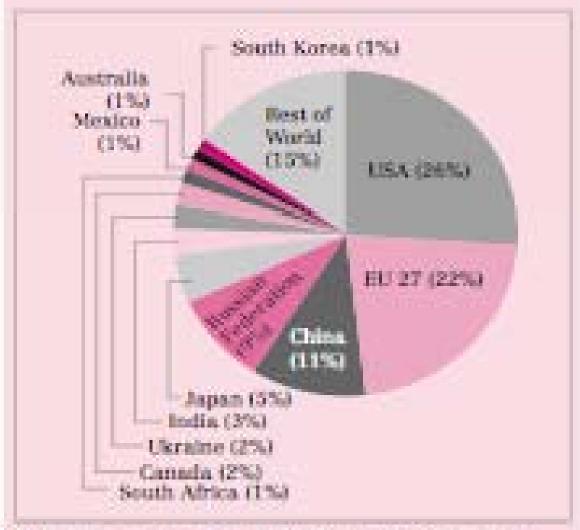
Cannot freeze inequity

Stock and flow Historical and current



- Carbon dioxide stays in the atmosphere – 70-100 years
- Historical emissions: A tonne of CO2 emitted in 1850 same value as tonne of CO2 emitted in 2005
- Burden is about past, present and future

Graph 2: Cumulative CO2 emissions, 1950-2007, without land use



Sonerer Climate Analysis Indicators Tool (CAIT) Version 8.0. (Washington, DC: World Resources Institute, 2011)

Add up and then count

Cumulative Emissions of few

Present scenario



1 US citizen =

107 Bangladeshis

134 Bhutanese

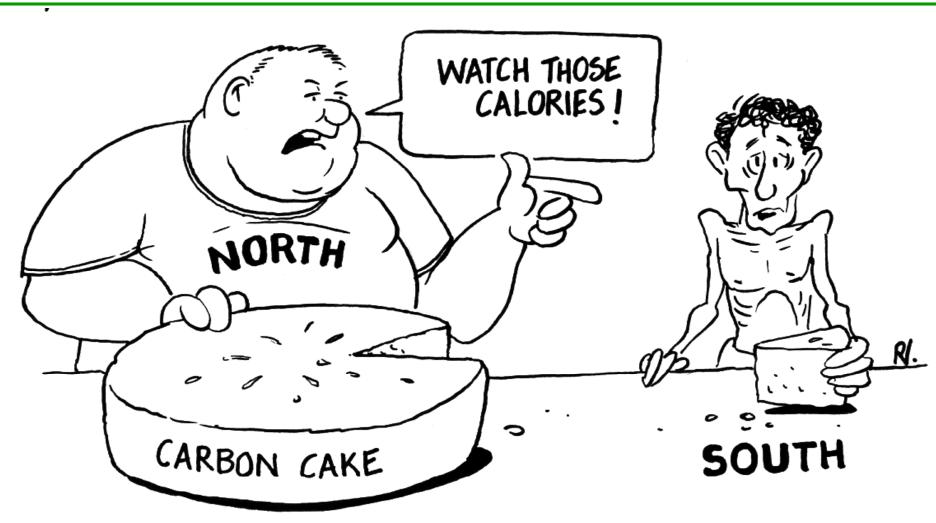
19 Indians

269 Nepalese

Unacceptable. Need to secure ecological space for growth

Acceptable???





Procrastination no option



- In our interest to get an effective deal
- But also imperative that deal is based on principles of equity
- Our right to development secured

How? Possible?

Agreement in 1992: built on science and good politics



 UN Framework Convention on Climate Change 1992 is based on the principle that a group of countries (Annex 1) created problem; have to reduce emissions first; create space for the rest to grow

 Common but differentiated Responsibilities

Principles are politics



Principles:

- Rights to the global common
- Historical responsibility of some
- Right to development
- Responsibilities of rest to act based on finance and technology access

Inconvenient truth

1992-2015:

Rio-Peru: world has changed



- 1992 Annex 1 countries = 70 per cent of annual emissions
- 2012 Annex 1 countries = 43 per cent of annual emissions

- Rich did not reduce
- But rest grew to take up space
- Now run out of space

How to share the past, present and future?

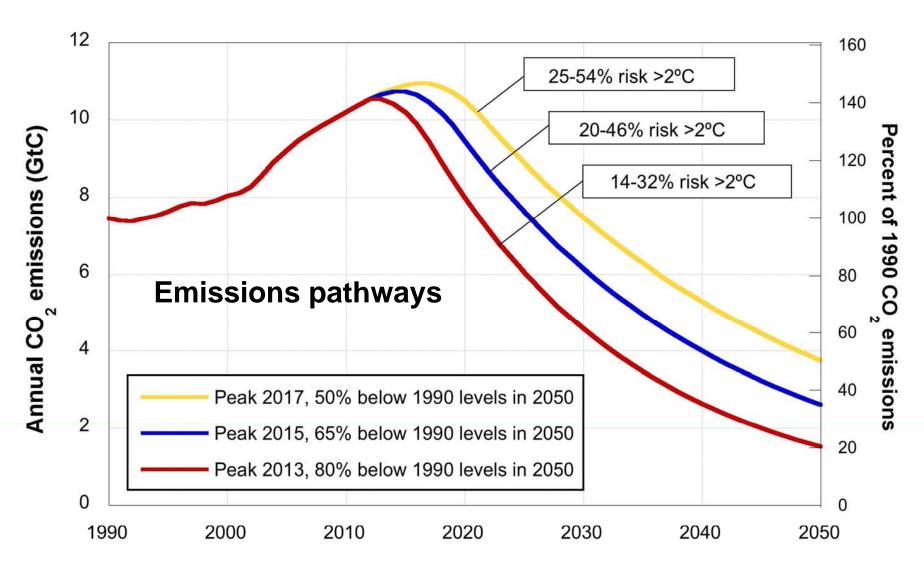


That is the question

- Developed countries say historical emissions is past, cannot be counted
- Now must talk about what is left to meet 2 degree target
- All must contribute

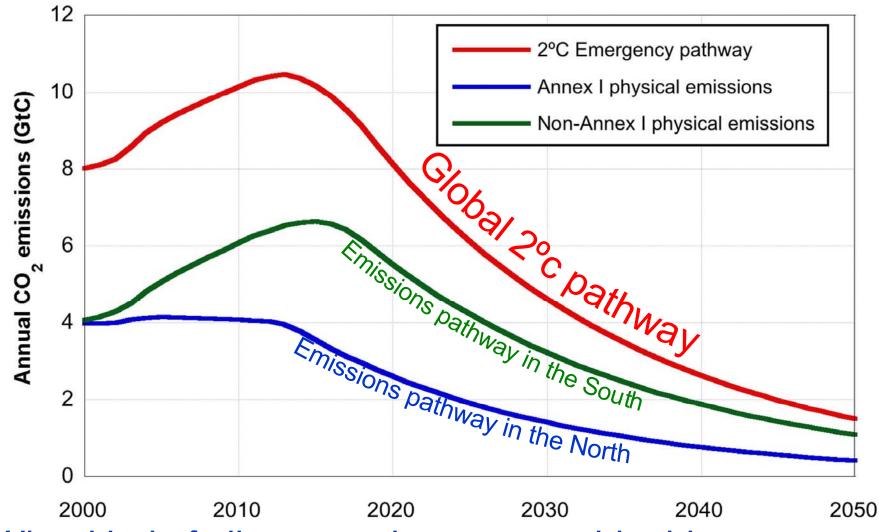
How to remain within the budget?







How to divide the budget?



What kind of climate regime can enable this to happen...?

Tough negotiations ahead



- World is getting warmer
- Impacts are beginning to show
- Rich did not reduce as committed
- Poor are increasing emissions
- Space has been occupied historical
- Remaining carbon space is limited
- Funds and technology transfer remain empty promise



Maneuvering space limited

But no option but to deal

Peru-Paris: what will happen?



- Durban 2011 agreed
- New deal by 2015 (Paris) to avoid 2 degree rise in temp above pre-industrial era. Implement by 2020
- Gigatonne Gap before 2020 to be filled
- Funds would be provided Green Climate Fund set up
- BUT

All or some or all and different



- Durban agreement: new deal will be "applicable to all"
- Fight over what this means?
- Actions: say developing countries
- Commitments: say developed countries
- Final consensus
- Intended Nationally Determined
 Contributions (INDC)

Equity re-defined



- All countries will put on the table their INDC
- What they can do and by when
- It is voluntary
- They decide so it is equitable
- Will it add up?
- Will it keep world below 2° C?

Add up and dance: equity reference framework



- By March-September 2015 countries will submit INDC
- These will be 'added' to see how the world is above or below its target to reduce
- Then games will begin
- All countries are expected to increase their bids once numbers don't add up
- This is when things get hot

How not to add up?



- China-US deal
- Agree to equalize emissions equity redefined
- China goes up to 12-13 tonnes per capita (from 8 tpc); US down to 12-13 from current 17 tonnes
- Both agree to take equal share of atmospheric space

Operationalize equity



Have to put forward principles on how the world must operationalize equity

Agree to take INDC, but insist that these are measured against past and future contributions.

Make equity the yardstick to determine INDC

Equity is pre-requisite



Is about cooperation. If the rich emitted yesterday, the emerging rich world will do today and tomorrow

Cooperation demands equity and fairness

Effective action only possible with equity

Between now and 2020



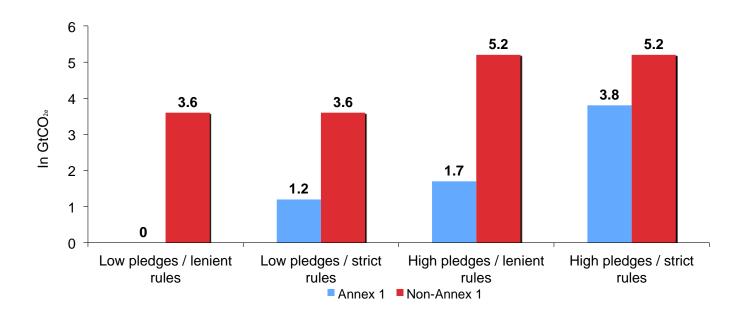
- There is a gap between what countries have agreed to do and what should be done to keep world below 2° C
- How to fill?
- US has pledged 17% below 2005 level (roughly 0-3% below 1990 level)
- Already developing countries doing more than their share

Shifts the burden of transition



 SEI assessment of UNEP report on 'emission gap' makes clear 'gap is growing' – between rich and poor





Short-lived gases or action?



- Rich countries want action on gases that are short lived – get rid of these and get quick relief
- HFC refrigerant/air conditioner coolant
- Black carbon from incomplete combustion of diesel cars and cookstoves
- Methane from rice paddy, livestock and oil and gas (shale gas)

Funds not coming



- Green Climate Fund: \$100 billion by 2020
- Empty
- Adaptation Fund: From CDM proceeds
- Empty

Fight is to delink INDC from financial commitment

Loss and Damage



- Most vulnerable nations have said that adaptation will not be enough
- Need to account for loss, pay for damage
- But 'lost' fight as this mechanism is now under the adaptation framework
- Rich countries do not want to discuss liability or compensation

REDD+



- Cheapest option to reduce emissions is to landuse – in developing world
- Protect forest
- Grow forest
- Agreement on REDD+
- But funds tied to Green Climate Fund
- National entity agreed so rights of forest dwellers national responsibility

REDD+ whose account



- Brazil has said that REDD+ should not be linked to market instrument
- Rich countries (and India) would like to sell forest as 'offset' to rich countries
- Should not happen countries should account for forest protection and payments to local communities in their accounts

CSE proposal Right to development



- Will involve all countries
- All will live within limits set by the planet
- Emission cuts will be based on science;
 ambition to cut drastically to stay within at least 2° C
- Limits will be for all; based on equitable sharing of common atmospheric space

New deal



World running out of space and time

- Must raise ambition
- Must create framework for all to reduce; based on limits for all

Need deal based on equity and fairness No effective global deal without equity

Will not derail process; will strengthen it

Climate change real



- Action urgent
- Ambition necessary

- Take national action
- But demand global action to match scale, pace of climate change and contribution to creating the problem