The post-2012 negotiation process: Key actors, views and trends

Axel Michaelowa

michaelowa@perspectives.cc

Structure of presentation

- Options on the table
- Emission targets
- Emission paths
- Policy scenarios
- Negotiation positions at Montreal
- Miracle technologies?

Options on the table

Global Triptych / Extended Global Triptych

Multi-Sector Convergence UNFCCC Impact Response Instrument

Insurance for Adaptation Funded by Emissions Trading

Sectors Adaptation

Expansion

Keep It Simple, Stupid (KISS)

Ability to Pay Soft Landing in Emissions Growth

Equal Mitigation Costs

Multistage / New Multistage Graduation and Deepening

Expanded "Common but Differentiated"

Further Differentiation

Equity Parallel Climate Policy

Global Preference Score Contraction and Convergence

Human Development Goals with Low Emissions

Sustainable Development Policies and Measures

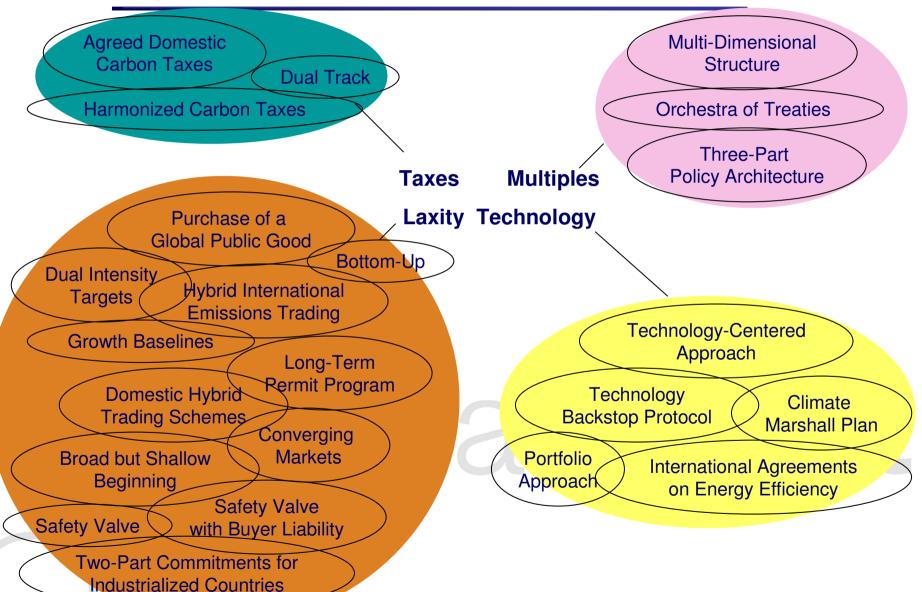
South-North
Dialogue

Per Capita Allocation

Brazilian Proposal

Global Framework: Kyoto, Decarbonization, and Adaptation

Options on the table II



Emission targets

Deriving targets

Concentration target in ppm

Emissions path

- Tolerable rate of climate change
- Tolerable abatement costs

Absolute vs. relative (per capita, per € GDP)

- Absolute: anti-cyclical, see hot air of EITs
- Relative: pro-cyclical, see Bush proposal

Principles for differentiation

- Need for economic development
- Responsibility for the problem
- Capacity, i.e. ability to pay

Emissions path

What is dangerous climate change?

- Warming from preindustrial period <2 ℃ (we have already reached +0.7 ℃!)
- Given higher climate sensitivity of most recent climate modelling results, stabilization at 450 ppm is necessary for <2°
- Stern Review asks for 500-550 ppm

When do global emissions have to peak?

- **2020?**
- **2040?**
- What are realistic reduction rates afterwards?
- Strong impact on medium-term policy path!

Principal design options

Basic modes of allocation of emissions budgets

- Grandfathering
- Equal per capita (current or historical)

Concrete target proposals

- Contraction and convergence: from grandfathering to per capita
- Preference scores: weighting grandfathering and per capita preferences
- Triptych or multi-sector convergence: sectoral convergence
- Brazilian proposal: cumulative emissions
- Multi-stage: Countries progressively take up differentiated targets

Policy scenarios

Graduation and deepening

 Core strengthens its targets and gets expanded in concentric circles. Combined with high flexibility

Market convergence

 EU, Japan and Canada link their emissions trading systems and thus start a bottom preturn to a broader system. Low price

Orchestra of treaties

 Cap and trade treaty for some countries, technology treaty, transfer to DCs

Human development

 Differentiation of survival and luxury emissions for allocation of country emission budgets

Policy elements

- Global greenhouse gas tax with local recycling
- Coordinated efficiency standards
- Technology Marshall Plan to develop backstop technologies
- Subsidisation of mitigation action in developing countries
- Under Kyoto-type regime
 - Regional/sectoral CDM
 - Biofuel obligation
 - CER obligation

Country positions

EU

- <2 °C, -15 to -30% for industrialised countries 2020</p>
- Kyoto-style, "committing all large emitters", full flexibility, include aviation, shipping and forestry

Japan

- METI wants a very loose regime
 - no short-term targets
 - lower environmental integrity of the Kyoto mechanisms

Canada

No clear position so far

US

Technology first, targets only if relative

India and China

No willingness to take up targets

Technology development

German wind power policy shows that it is possible to get a new technology into a mass market within a decade

- Willingness to spend a lot of money
 - Spread the burden widely and concentrate the gains
- Get a coalition of technology developers, local population and policymakers
 - Interest groups from structurally weak regions profited

Is it possible to change incentives from maximising market expansion to maximising cost reduction?

Lock-in of inadequate technology?

Graduation: engaging developing countries

- Countries take up mitigation commitments once they cross thresholds defined by per capita income, per capita emissions and institutional affiliation
- System of concentric circles: the lower the threshold, the less stringent the commitment
- Large emitters below any threshold do not graduate but can participate in policy-based generation of emission credits

Graduation: coverage of emissions

	Graduation index	Emissions (million t	Share of world	Emissions change
		CO ₂ eq.)	emissions	1990-2000
			(%)	(%)
6 countries	5.1 to 1.9	117.2 to7.2		+142 to +26
Average Annex B	1.8	305.6	0.9	+92
8 countries	1.6 to 1.2	521.2 to 2.4		+81 to +0
Lowest Annex II	1.2	1234	3.6	+72
26 countries	1.1 to 0.5	849.9 to 1.5		+316 to -9
Lowest Annex B	0.5	4109	12.0	+21
Total	_	5548	16.5	+36

- Large emitters (>50 million t CO₂ eq.) below any threshold: 26 countries with 29% of world emissions
- Total reductions of graduating countries by 2015: ~1 billion t CO₂ eq. p.a.

Deepening: stronger commitments

• Industrialised countries take strong mitigation commitments

	Target (% change from 2008-2012)	Emissions gap 2000 (%) to target	Emissions gap 2000 (million t CO ₂ eq.)
Ukraine ¹	-47	2.1	10
Russia ¹	-42	15.5	257
Australia	-12	24.8	95
EU-28		16.8	827
Canada		42.1	213
New Zealand	-6	15.2	11
US		31.3	1653
Iceland		0	0
Japan	-3	19.8	217
Norway		14.9	7
Switzerland		5.9	3
Sum (compared to 1990)	-23.3	17.9	2293

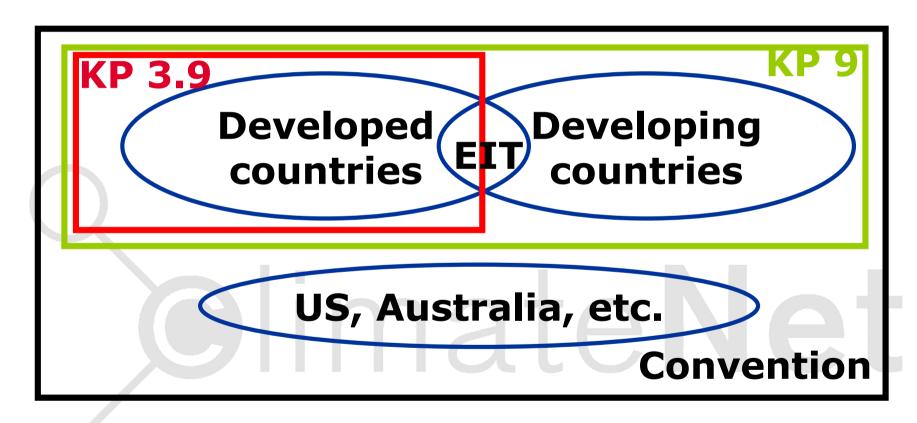
- Need for flexibility: accept all types of sinks!
 - Terrestrial, marine and geological

Political strategies

- Extreme weather events create public willingness for action even in those countries reticent to engage in climate policies
 - The window of opportunity is short as public memory fades quickly
 - Lock in policy decisions quickly
- Apply balanced menu of carrots and sticks
 - Countries need to have incentives to graduate
- Market the increasing number of mitigation approaches available at decreasing costs, particularly at today's high fossil fuel prices

Post-2012 negotiation tracks

Kyoto track Convention track



Negotiation positions at Montreal

Positions on different tracks:

		Developing countries	Developed countries	US
KP	End date	2008	"No gap"	-
3.9	Process	Ad-hoc group	Joint WG of SB	
KP 9		Negative	Positive	_
Convention		Positive	Positive	Negative

OlimateNe

Miracle technologies?

- Carbon capture and storage
 - Future Gen
 - EU research funding
 - IPCC special report essentially written by industry reps
 - Very optimistic cost estimates
 - Lifeline of coal industry
- Biofuels
 - Fashionable due to high oil price
 - Allows carmakers to divert attention from failure of low emission vehicle technology

Thank you!

Further information:

www.perspectives.cc

or: michaelowa@perspectives.cc