

Linkage: A Promising Approach to Achieving the Goals of the Durban Platform

Hosted by

The Harvard Project on Climate Agreements

The Enel Foundation

The International Emissions Trading Association

Robert N. Stavins

Albert Pratt Professor of Business and Government, Harvard Kennedy School

Director, Harvard Project on Climate Agreements

Nineteenth Conference of the Parties

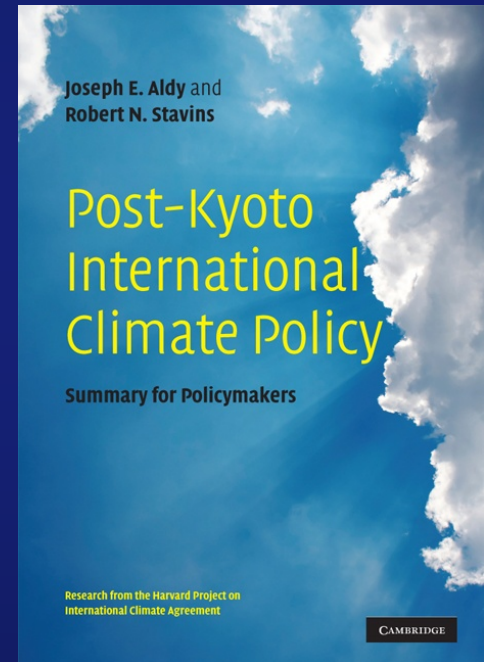
United Nations Framework Convention on Climate Change

Warsaw, Poland

November 18, 2013

Developing and Advancing Ideas for Climate Policy

- The Harvard Project on Climate Agreements
 - Mission: To help identify and advance scientifically sound, economically rational, and politically pragmatic public policy options for addressing global climate change
- Drawing upon research & ideas from leading thinkers around the world from:
 - Academia
 - Private industry
 - NGOs
 - Governments
- 50 research initiatives in Argentina, Australia, China, Europe, India, Japan, and the United States



Linkage of Greenhouse Gas Emissions Trading Systems: Learning from Experience (Matthew Ranson and Robert Stavins)

- **Cap-and-trade systems are preferred approach in many jurisdictions**
 - European Union, Australia, New Zealand, California, Quebec, China, etc.
 - *Linking* – unilateral or bilateral recognition of allowances – across these cap-and-trade systems *reduces* overall costs, market power, and price volatility
 - But linking *causes* automatic propagation of cost-containment design elements: banking, borrowing, and safety valve
 - Therefore, advance *harmonization* can be necessary
- **An Alternative**
 - If cap-and-trade systems link with a *common* emission-reduction-credit system, such as CDM, the cap-and-trade systems are *indirectly linked*
 - All the *benefits of linking are achieved* – cost savings, etc.
 - But propagation of design elements across systems *greatly diminished*
- **In principle, either could form a *de facto* international policy architecture**
 - So, we surveyed existing and planned linkages of both kinds

Linkages from Cap-and-Trade Systems to Credit Systems

System 1	System 2	Type of Linkage	Enact. Date	Effect. Date	Prices at Enactment		Caps (mtCO ₂)		Notes and References	
					#1	#2	#1	#2		
EU ETS	CDM	One-way	2004	2005	€9	\$5	2,299	na	D	1, 16, 17
EU ETS	CDM	One-way	2004	2008	€9	\$5	2,299	na	D	1, 16, 17
EU ETS	CDM	One-way	2004	2013	€9	\$5	2,299	na	D,E	1, 16, 22
EU ETS	JI	One-way	2004	2008	€9	\$6	2,299	na	D	1, 16, 18
Switzerland	CDM	One-way	1999	2008	none	\$4-\$7	na	na		17, 19
New Zealand	CDM, JI, RMU	One-way	2008	2008	none	€1	na	na		17,20,21
Australia	CDM, JI	One-way	2011	2012/15	none	€6	TBD	na		4
RGGI	Any credit system	One-way	2005	2009	none	\$5-8	110	na	B	8
RGGI	Any credit system	Delinking	2013*		none	\$5	165	na	B	9
California	Acre and Chiapas	One-way	*					na		25
Quebec	Acre and Chiapas	One-way	*					na		25
Tokyo ETS	CDM	One-way	2008	2010	\$142	\$18	13	na	F	23

Limits on the Use of Offset Credits

System	Period	Limit as % of Cap	Notes
EU ETS	2013-2020	varies	(a)
EU ETS	2008-2012	0-20	
Swiss ETS	2008-	8	
New Zealand ETS	2008-	unlimited	
Australia's Clean Energy Act	2012-	12.5	(b)
RGGI	2009-	3.3	(c)
California's CAT system	2013-	8 or 0	(d)
Quebec's CAT system	2013-	8 or 0	(d)

Learning from Experience

- **Significant increase in links among GHG cap-and-trade systems,**
 - ... both directly, and indirectly through credit systems (CDM), although role of CDM may be greatly diminished (by various constraints).
- **There is clearly a strong political revealed preference for linking**
 - Linkage is a multi-faceted *policy* decision used by *political* jurisdictions to achieve a variety of objectives.
 - Many economic, political, and strategic factors influence decision to link,
 - ... including geographic proximity and emissions-reduction integrity.
 - Some theoretically important effects of linking, such as loss of control of domestic carbon policies and prices,
 - ... do not appear to have deterred real-world decisions to link.

Implications for Role of Decentralized Linkages in Future International Climate Policy Architecture

- **Kyoto Protocol may be in its final commitment period, ...**
 - ... covering only a small fraction of global GHG emissions.
- **Under the Durban Platform for Enhanced Action, ...**
 - ... negotiators may gravitate toward a *hybrid system*,
 - Top-down elements for establishing targets
 - Bottom-up elements of pledge-and-review tied to national policies and actions.
- **Incentives to link national policies are likely to produce *more links* among regional, national, & sub-national cap-and-trade systems.**
 - This growing network of decentralized, direct linkages may turn out to be a key part of a future hybrid climate policy architecture.

Linkage: A Promising Approach to Achieving the Goals of the Durban Platform

Hosted by

The Harvard Project on Climate Agreements

The Enel Foundation

The International Emissions Trading Association

Nineteenth Conference of the Parties

United Nations Framework Convention on Climate Change

Warsaw, Poland

November 18, 2013

For More Information

Enel Foundation

http://www.enel.com/en-GB/enel_foundation/

International Emissions Trading Association

<http://www.ieta.org/>

Harvard Project on Climate Agreements

www.belfercenter.org/climate

Harvard Environmental Economics Program

www.hks.harvard.edu/m-rcbg/heep/

www.stavins.com