Linkage of Regional, National, & Sub-National Climate Policies under the Paris Agreement

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Can National Policies and INDCs Alone Lead to a Workable and Effective Climate Regime?

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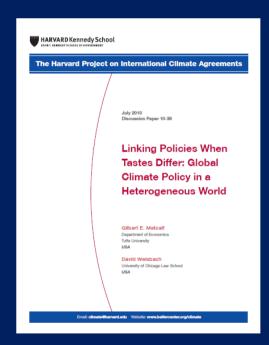
Key Challenge for COP-21

Central Question

- > Can Paris Agreement, with INDCs anchored in domestic political realities, ...
- > ... adequately address emissions with sufficient ambition?
- Are there ways to enable and facilitate *increased ambition* over time?
- ➤ Linkage of regional, national, and sub-national policies can be part of the answer connections among policy systems that allow emission reduction efforts to be redistributed across systems
- Cap-and-trade emerging as instrument of *choice* in many countries
 - Regional, national, and sub-national levels
 - European Union, New Zealand, Northeast USA, California, Quebec, Ontario, China, Korea, etc.
- But, national (& sub-national) policies will be heterogeneous ...

Policy Linkage in a Heterogeneous World

- Global agreement should accommodate heterogeneity both in locus of regulation (super-national to sub-national) and policy instrument:
 - Cap-and-trade systems
 - Carbon tax systems
 - Emission reduction credit systems
 - Command-and-Control regulations
- Linkage among heterogeneous policies ranges from straightforward to infeasible
- But benefits of linkage are considerable
 - Cost savings → greater ambition
 - Reduce market power
 - Reduce total price volatility
 - Allow for distributional equity (UNFCCC's "common but differentiated responsibilities")
 without sacrificing cost-effectiveness

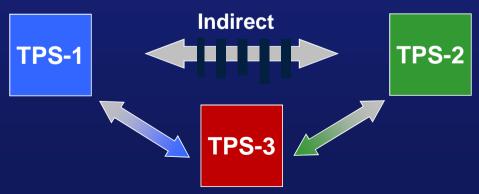


What is linkage?

- **Definition**: Connections among cap-and-trade systems or heterogeneous policy instruments that allow emission reduction efforts to be redistributed across systems
- **Direct linkage**: One or both systems *recognize* the other's allowances for compliance (can be unilateral/one-way or bilateral/two-way)



■ Indirect linkage: Allowance supply and demand in one system *affects* S&D in another system through direct links with a common system



What needs to be in the Paris Agreement to facilitate effective linkage?

- "Facilitating Linkage of Heterogeneous Regional, National, and Sub-National Climate Policies through a Future International Agreement"
- First principle: Do No Harm ...
 - If poorly designed, the 2015 agreement could actually inhibit effective linkage
 - Example: "supplementarity requirements," as were discussed in Kyoto (and included in KP)
- What should the 2015 agreement include?
 - Statement that countries can achieve parts of their INDC targets by financing or otherwise facilitating actions in other jurisdictions



The Institutional Path Ahead

- Copenhagen illustrated problems with process under United Nations
 - ➤ 197 countries, when 20 account for about 90% of global emissions; and UNFCCC (default) voting rule is consensus (unanimity?)

■ **Major Economies Forum** – accounts for about 90% of global emissions; but initiated and led by USA, and forum for discussion, not negotiation

■ **G20** – finance ministers; have met on climate change; similar to MEF list

Other multilateral, bilateral, including China-USA

The Institutional Path Ahead (continued)

Climate Clubs

- Bottom-up nature of Paris 2015 agreement opens doors for "coalitions of the willing"
 - Clubs could be parallel to, and within or outside of UNFCCC context
- Possible Approaches
 - ➤ Club of National Carbon Taxes (Victor 2011, Barrett 2013, Nordhaus 2015)
 - Carbon-Market Coalitions (Stewart 2013, Morgan 2013, Keohane 2014)
- Benefits: greater c/e, market liquidity, reduced concerns about competitive distortions, free-riding, and carbon leakage
 - And by providing exclusive membership benefits, club can encourage wider uptake
- But need for exclusive benefits raises serious concerns, such as with recommendations for imposition of *border adjustment measures* on nonmembers

Conclusions

- International cooperation essential, but key action will be at national levels
 - > Paris Agreement provides opportunity for new path forward
 - One key necessary condition met: adequate scope of participation (INDCs from countries accounting for more than 93% of global emissions)
 - Other key necessary condition: adequate ambition of policies
 - Paris is only the first step, review INDCs every 5 years
 - But even Paris INDCs significant
- In years to come, major locus of international cooperation:
 - ➤ May continue to be UNFCCC
 - > Or it may be other existing venues (G20?)
 - > Or it may be climate clubs
- But under any of these venues, importance of carbon-pricing and linkage remain!

For More Information

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