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Wissenschaftszentrum Nordrhein-Westfalen

Institut Arbeit und Technik Kulturwissenschaftliches Institut

Wuppertal Institut für Klima, Umwelt, Energie

JET-SET

Joint Emissions Trading as a Socio-Ecological Transformation

Side - Event

Linking Emissions Trading Schemes -Assessment of Institutional, Environmental and Economic Considerations

COP11/MOP1, Montreal 3 December 2005, 10.30-12.30









Presentations





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Joint Emissions Trading as a Socio-Ecological Transformation

Linking Emissions Trading Schemes -Research Framework and Project Design

Ralf Schüle

Side - Event COP11/MOP1, Montreal 3 December 2005, 10.30-12.30





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0. Contents

- **1.** Why analysis of linking schemes?
- 2. Project Design
- **3.** Methodology
- 4. Policy Scenarios
- **5.** Assessment of Scenarios



2.1 Emerging domestic schemes

Mandatory Schemes	EU, Canada, RGGI
Voluntary System	Japan
Cap and Trade Schemes	EU
Credit-and-Baseline Schemes	Canada
ETS combined with Tax Systems	Switzerland
ETS combined with Subsidies	Japan

- Linking institutionally possible? Barriers and Obstacles?
 - **Recommendations?**



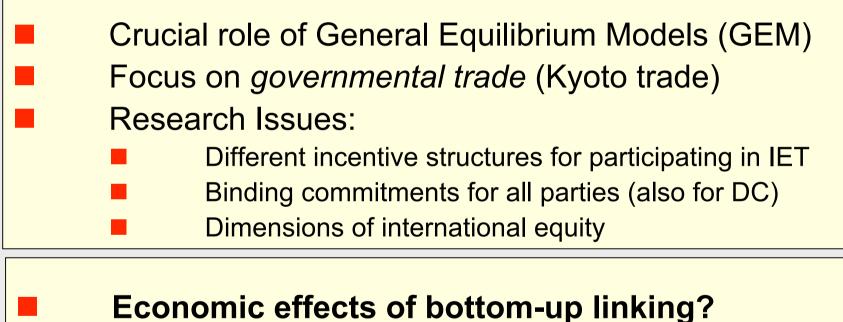
2.2 Institutional Conditions

Coverage of the Scheme	Allocation Methodology		
Definition and Recognition of Units	Compliance Period, Allowance Validity and Banking		
Absolute versus Relative Targets	Monitoring, Reporting, Verification and Accounting		
Stringency of Targets	Compliance Framework, Penalities		
Sensitive Issues?			

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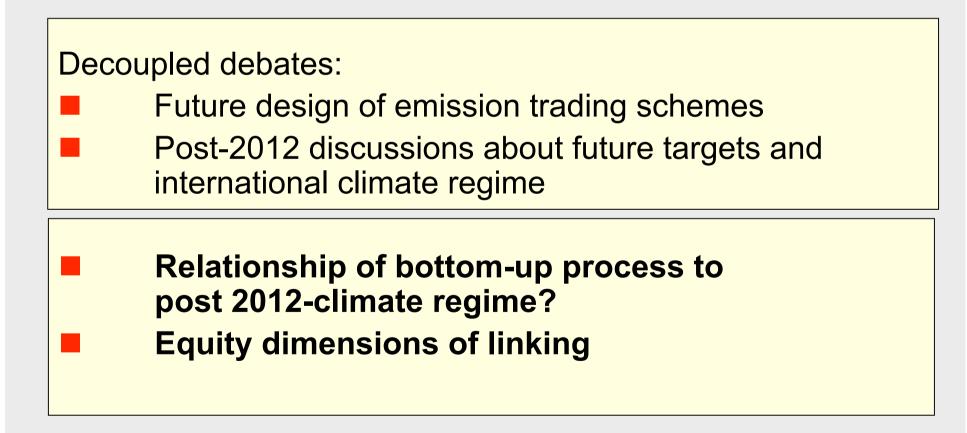
2.3 Economic Assessments of Market Designs



Comparability with findings for gov. trade? Partial Equilibrium Approach



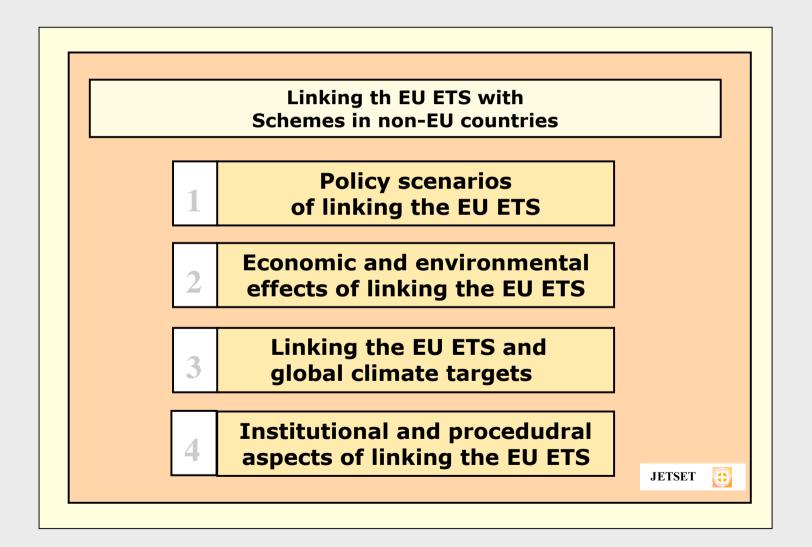
2.4 Post 2012 targets and global climate regime



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Linking Schemes 3. Project Design



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Linking Schemes 4. Methodology

Assessing the effects of linking

Scenario technique

- Developing policy scenarios (specified by storylines)
- Assessment in economic, environmental and institutional terms

Basic variables

- Participating countries (realistic perspective)
- Institutional status with regard to the climate regime
- Temporal Dimension

(by when domestic schemes will be developed and probably linked to an emerging multi-national ETS)

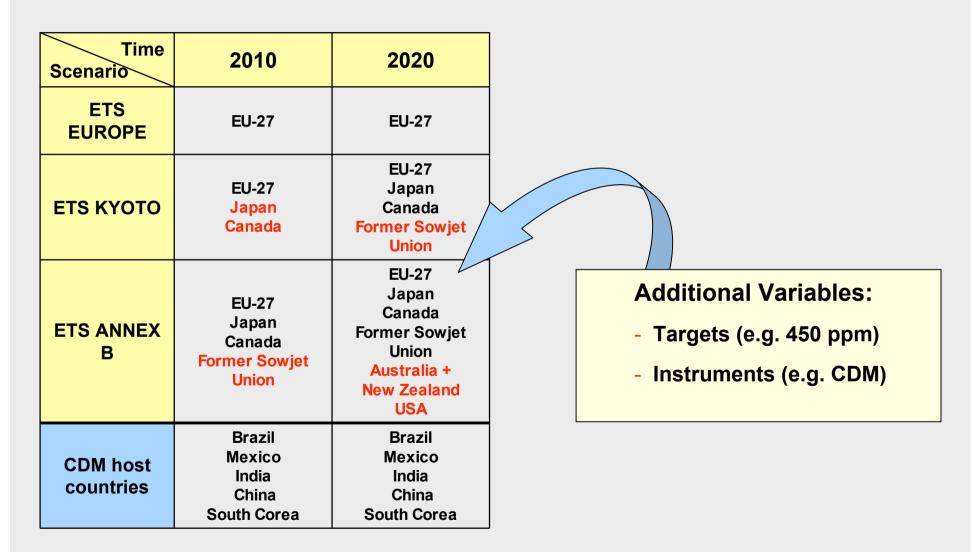
Linking Schemes 5. Policy Scenarios



Time Scenario	2010	2020
1. ETS EUROPE	EU-27	EU-27
2. ETS KYOTO	EU-27 Japan Canada	EU-27 Japan Canada Former Sowjet Union
3. ETS Current ANNEX B	EU-27 Japan Canada Former Sowjet Union	EU-27 Japan Canada Former Sowjet Union Australia + New Zealand USA
CDM host countries	Brazil Mexico India China South Corea	Brazil Mexico India China South Corea

Linking Schemes 5. Differentiating Policy Scenarios







Linking Schemes 6. Assessing Policy Scenarios

Compliance Costs

- Level of emission abatement
- Distributional effects
- Compatibility in design
- Equity dimensions



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Thank you for your attention!

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