

# Linking

Garth Edward Shell Trading



## Leaked EU proposal... to link or not to link...

All contingent on Russian ratification and entry into force of the Protocol

- Quantitative:
  - Member States can convert CERs or ERUs into EU allowances up to 6% of allowances allocated in the national allocation plan.
  - The proposal does not prevent a Member State from generating and buying CERs and ERUs in order to use them for Kyoto compliance.
- Qualitative

page

- Exclusion of LULUCEF, nuclear and hydro that does not meet World Commission on Dams' criteria.
- Presumably the proposal does not prevent a Member State from generating or buying such CERs and ERUs in order to use them for Kyoto compliance.



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### Trading and quant constraints...

- How will governments devolve the 6% limit to companies?
- Assuming
  - 6% constraint is pro-rated per installation allocation
  - CER/ERUs are cheaper than EU allowances
- This creates a secondary market in "conversion rights" if:
  - (ERU/CER price + conversion premium) < EU allowance price</p>
- Since EU allowances fully fungible, Irish/Danish/Spanish companies can convert ERU/CER through Slovak/Czech/Latvian installation account
- If CER/ERUs are cheaper than EU allowances then this conversion will be maximized until either (a) prices equalize, or (b) 6% of the aggregate of all NAPs has been converted to EU allowances.
- Net effect is a transaction cost on companies. Governments are exempt from this.



### Trading and qualitative constraints...

- Exclusion of LULUCEF, nuclear and hydro that does not meet World Commission on Dams' criteria.
- But some Annex 1 countries will not apply the same contraints
- Hence, scope for Japanese/Canadian companies to swap EU compliant CER/ERUs for EU non-compliant CER/ERUs
- EU compliant CER/ERUs will trade at premium until:

(EU allowances + conversion rate) = price of EU non-compliant CER/ERUs

This is a real constraint when no non-EU company has any more EU compliant CER/ERUs



page



### Linking questions

- US credits/offsets/VERs:
  - Chicago Climate Exchange
- Renewable energy credits
- Spark spread

page

- (gas + allowance cost + operating cost) < power price</p>
- ▶ 10x + (1y) + k <25
- (coal + allowance cost + operating cost) < power price</p>
- ▶ 5x + (2y) + k <25

