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## The following presentation is based on a variety of collaborative projects





Green Deal for industry: a clear policy framework is more important than funding



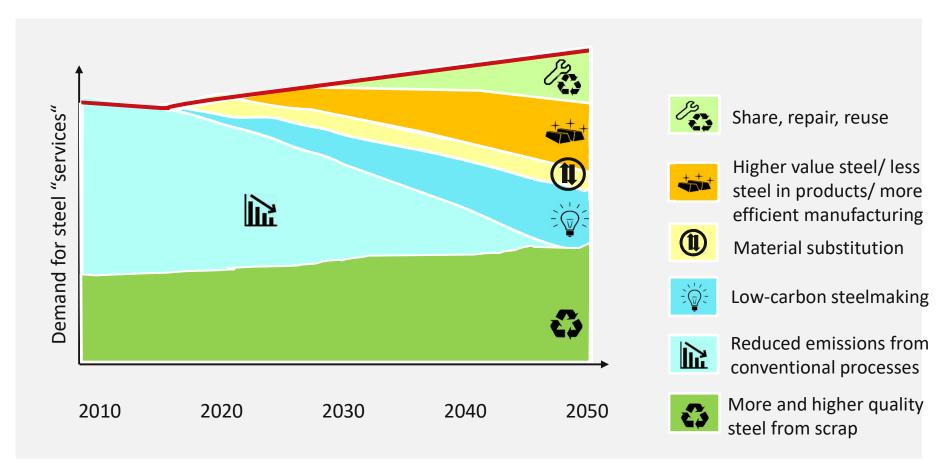
https://www.diw.de/documents/publikationen/73/diw\_01.c.813281.de/dwr-21-10-1.pdf

https://climatestrategies.org/projects/european-climate-friendly-materials-platform/



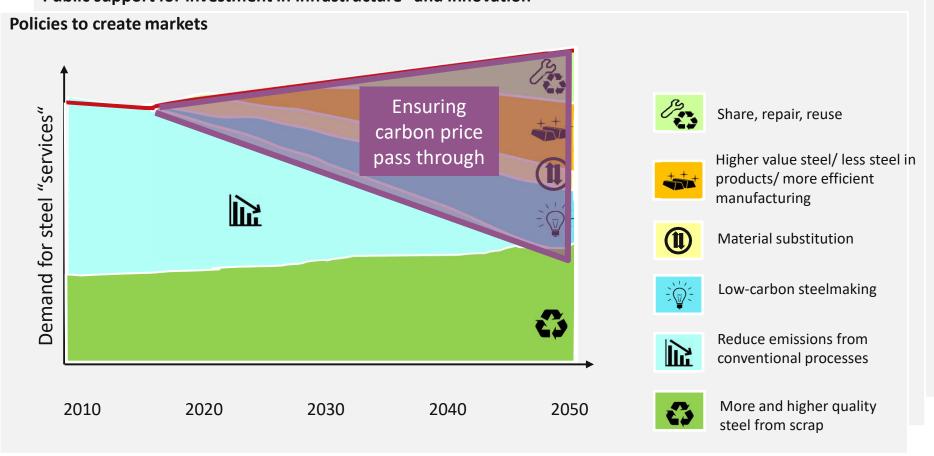
## A portfolio of mitigation options for pathway to climate neutrality

Illustration for European steel sector (no numerical simulation)



#### **Engagement, information and training programs**

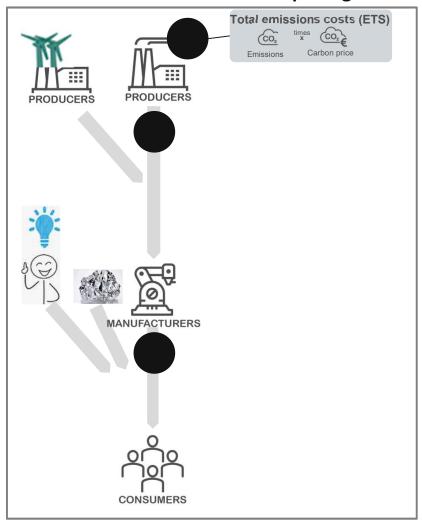
Public support for investment in infrastructure\* and innovation



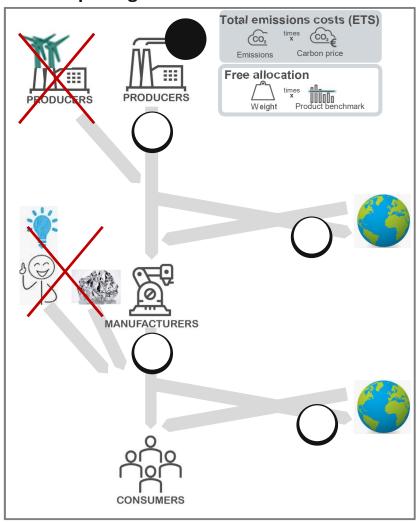


# Global momentum towards carbon pricing ... ... but limitations of carbon pricing with free allowance allocation

### Desired incentives from carbon pricing



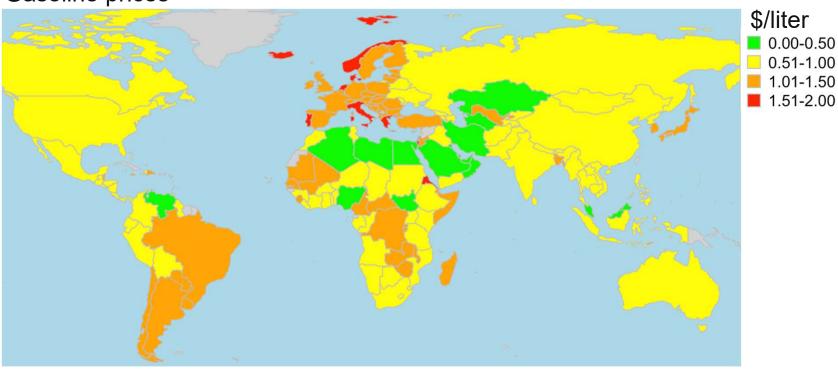
### **Carbon pricing & free allowance allocation**





## The world as a mosaic – with differing, but effective, CO2 prices?

### Gasoline prices



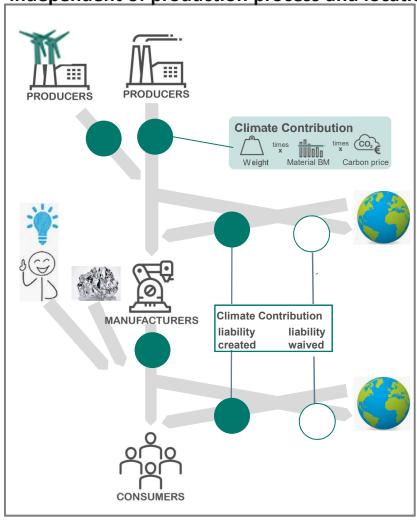
- Corresponds to experience: Charges and taxes are local not global
- Matches governance structure
- Can respond to timing and preferences of political process
- Can be integrated with policy package for just transformation



## Can a climate contribution deliver an effective carbon price?

### **Excise on materials**

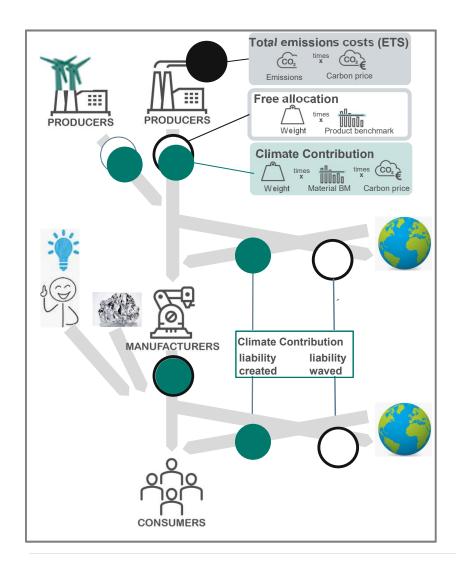
independent of production process and location



- Creates incentives for material efficiency and substitution
- No incentives for carbon efficient and climate neutral material production
- Does not create carbon leakage risks

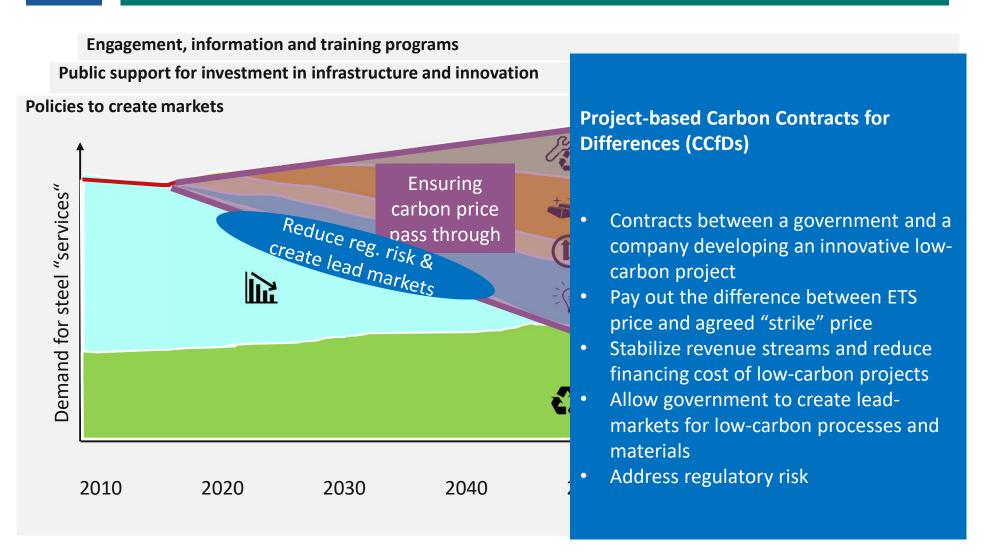


## Can a climate contribution together with ETS and free allowance allocation create an effective carbon price signal?



- Creates incentives for material efficiency and substitution
- Creates incentives for carbon efficient and climate neutral material production
- Does not create carbon leakage risks
- Creates resources, blue-print, and basis for global cooperation
- Compatible with global minimum carbon price (top up) & pathay to global approach.

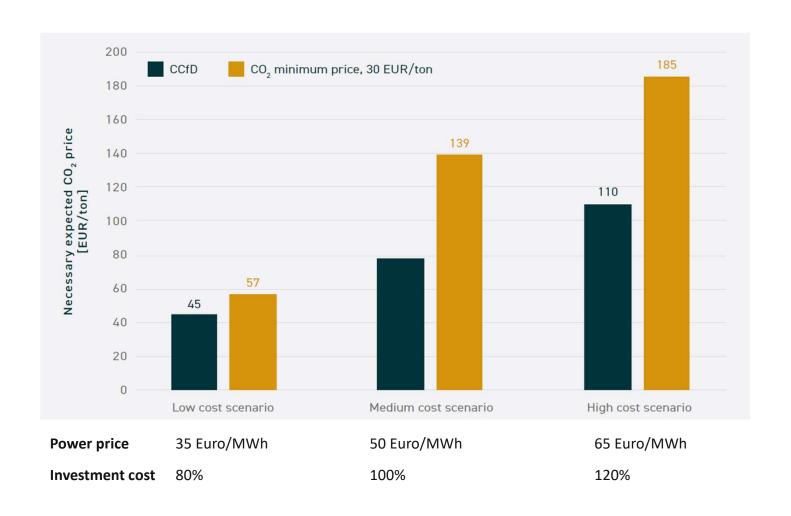




Source: Richstein, J. (2017), "Project-Based Carbon Contracts: A Way to Finance Innovative Low-Carbon Investments", DIW Discussion Paper No. 1714; Sartor, O. and Bataille, C. (2019), "Creating a business case for carbon-neutral basic materials: How Carbon Contracts for Difference could help kick-start commercial-scale projects", IDDRI Study No. ST06-19

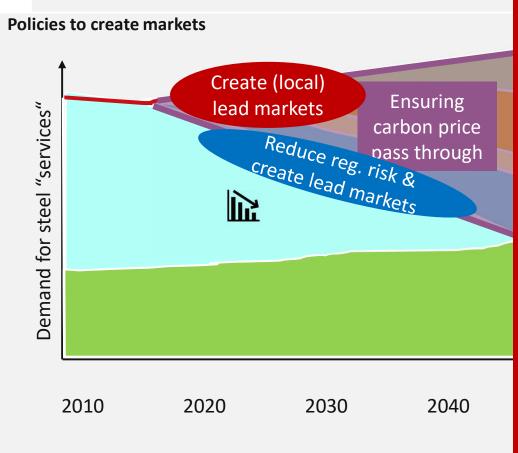


## Quantifying the effect of Project-based Carbon Contracts for Differences



### **Engagement, information and training programs**





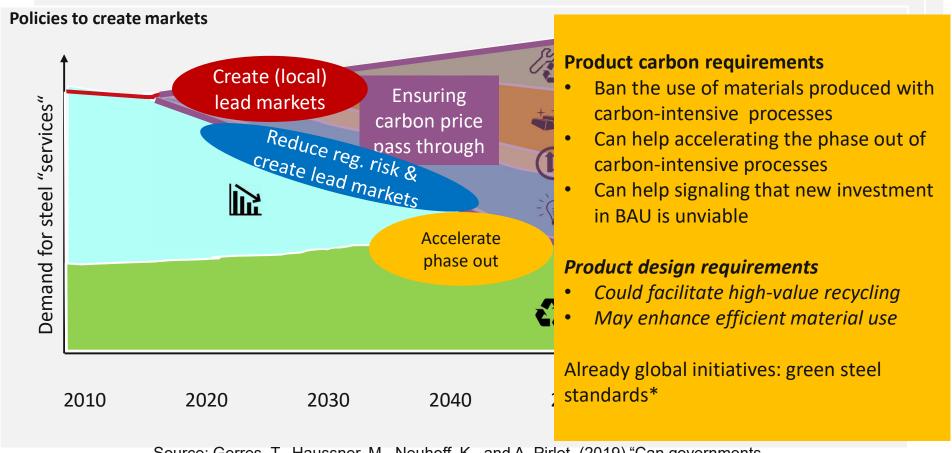
#### **Green Public Procurement**

- Accounts for the environmental impacts in the award of public contracts
- Includes shadow carbon price (> ETS), functional carbon or technical requirements
- National/local authorities can create lead markets for climate-friendly product design, material choice and usage patterns
- Allows governments to respond to local initiatives and national and European emission reduction targets
- Consider providing financial support for incremental cost and capacity building



### **Engagement, information and training programs**

Public support for investment in infrastructure and innovation



Source: Gerres, T., Haussner, M., Neuhoff, K., and A. Pirlot, (2019) "Can governments ban materials with large carbon footprint? Legal and administrative assessment of product carbon requirements", DIW Discussion Paper No. 1834 (forthcoming in Review Of European Comparative & International Environmental Law)

\*https://www.responsiblesteel.org/



## Summary

### **Engagement, information and training programs**

Public support for investment in infrastructure and innovation

