



Official launch of the report



**Impacts of a global carbon price on
consumption and value creation**

Implications for carbon pricing design

17/11/2016 – 10:30-12:00

COP22 - EU Pavilion Brussels, Blue Zone

- > Three-year research partnership between the **Generation Foundation** and **Ecofys**, from 2016 until 2019
- > Key research question: **How can carbon pricing facilitate sustainable global economic growth?**
- > **Five topics** to address the key research questions
- > Topic 1 (this presentation): **umbrella topic** for consecutive four topics
- > Work plans for topic 2 (internal carbon pricing) and topic 3 (carbon pricing revenues) currently in the making
- > Any **collaboration** with interested parties is very much welcomed

Our approach for Topic 1

- > For **Topic 1**, the partnership team **collaborated** with the Norwegian University of Science and Technology and PBL Netherlands Environmental Assessment Agency

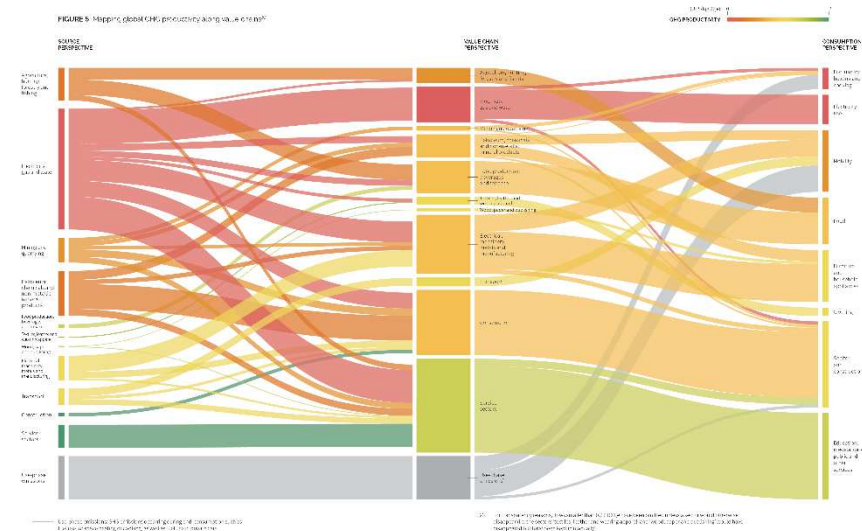


A global GHG productivity map

- > A **global GHG productivity map** showing the relationship between **GHG emissions** and **value creation** in **global value chains** using three perspectives

- Source perspective
- Value chain perspective
- Consumption perspective

- > Focus on **eight** different **consumption categories**: fuel use, electricity use, mobility, food, furniture and Appliances, mobility, clothing, shelter and construction and services



- > Analysis allows to calculate “**value at stake**” and “**impact on consumer prices**” and to derive recommendations on the design of effective carbon pricing policies

Nine implications for carbon pricing

- 1 A **global carbon price** is unlikely to cause major shifts in consumption patterns between materials, food and services.
- 2 Majority of GHG **emissions** occur **upstream**, whereas **value creation** happens more **downstream**.
- 3 The carbon price is not always passed on in the value chain and does not **incentive** lower GHG emissions **downstream**.
- 4 Carbon pricing approaches are needed that incentivise higher GHG productivity throughout **full value chains**.
- 5 Large consumer-facing companies can apply **internal carbon pricing** approaches to tackle own and supply chain emissions.
- 6 **Public entities** could further step up in requiring the construction supply chain to **disclose** information on GHG productivity.
- 7 Consumption of electricity, fuel use for heating and cooking, and mobility are **attractive candidates** for carbon pricing.
- 8 For **cost-effective decarbonisation**, competing technologies fulfilling the same require a **similar carbon price**.
- 9 **Income distribution effects** resulting from carbon pricing policies need sufficient attention. **Revenue recycling** approaches could be used to compensate for undesirable effects.

Collaboration and contact details



- > Our partnership welcomes **collaboration** with interested parties
- > To receive **news and updates** about our partnership, please sign up at cpu@ecofys.com
- > Contact **Ecofys**:
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