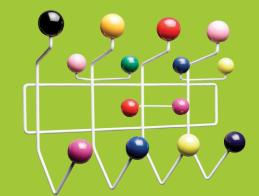


The transition to the low-carbon society: which role for taxation?

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Outline

- 1. Transitions and system thinking
- 2. Using taxation to drive technological innovation
- 3. The social practices model
- 4. Barriers
- 5. Case study: Energy transition Flanders/Belgium
- 6. Conclusions



1. Transitions and system thinking

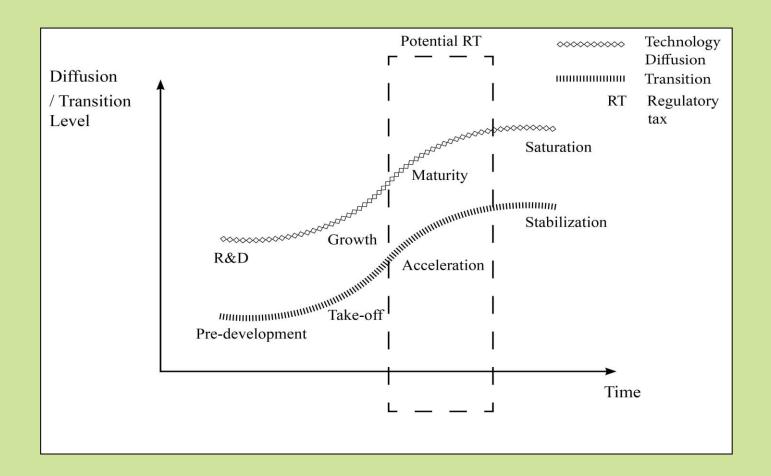
- Persistent sustainability problems
- Socio-technical systems (Rotmans & Loorbach, 2010)
 - Structure: infrastructure, technology, institutions, economy;
 - Culture: dominant images, values and paradigms;
 - Practices: routines, habits and procedures.
- Transition theory: Need for radical system changes (= transition)
- Where does regulatory taxation fit in?



2. Taxation and technology

- Socio-technical systems (netmans & Loorbach, 2010)
 - Structure: infrastructure, technology, institutions, economic system and performance,
 - Culture: dominant images, values and paradigms;
 - Practices: routines, habits and procedures.





• Vollebergh, Johnstone: environmental taxes stimulate innovation



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 - Structure: infrastructure, technology, institutions, economic system and performance;
 - Culture: dominant images, values and paradigms;
 - Practices: joutines, habits and procedures.



3. Practices and culture

- Work in progress
- Rational choice
- Transition governance?
- Social practices theory (Reckwitz, 2002): practices are explained by 3 elements: materials, competences and meanings: cannot be governed directly.
- Response:
 - Government is an important actor
 - Compromise: bounded rationality
- Tax on the 'materials'

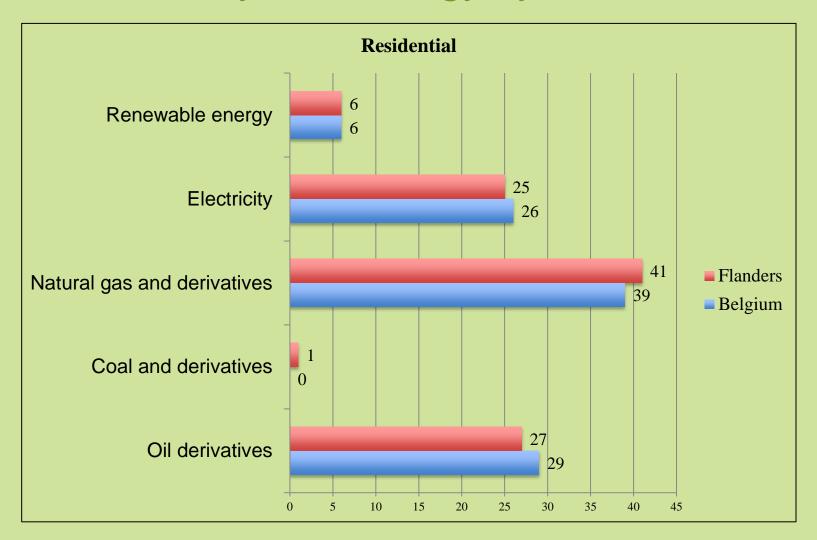


4. Barriers

- Rebound effect
- Carbon leakage
- Public and political acceptance
- Lock-in



5. Case study: the energy system



Source: Energy Balance Flanders (VITO) + IEA



6. Conclusions

- We do see potential for regulatory taxation;
- Environmental taxation as part of a policy package;
- Potential long term effects
 - Regulatory tax in acceleration phase, taxing dominant technologies or practices
 - Practices and culture: theoretical discussion is ongoing

