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The “technical” choices

From modelling to measuring

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Modelling



- Modelling crucial in 2011 Roadmap
- Changes compared to 2011
 - Question shifts from “if possible” to “how”
 - Many national and sectoral exercises
 - Assumptions have changed

Modelling – what we hear in Brussels



- COM will again use PRIMES
 - Currently discusses technical assumptions in framework of the “asset” project
- Unclear to me which role other exercises will play
- Some in COM argue modelling should not aim to set/justify new targets

Table 5: Selected international, national and sectoral strategies and scenarios

Author	Scope	Sector	Reduction Target
Austrian Government (2018)	Austria	All	36% by 2030 (compared to 2005)
WWF, Greenpeace and Global2000 (2017)	Austria	Energy	67% by 2030 98% by 2050
Belgium Government (2013)	Belgium	All	80/95%
German Government (2016)	Germany	All	80/95%
BCG/Stahl (2013)	Germany	Steel	-
BDI (2018)	Germany	All	80/95%
Greenpeace (2017)	Germany	Agriculture	50% (compared to 2010)
Swedish Government (2017)	Sweden	All	100% (by 2045)
The Swedish Shipowners' Association (2015)	Sweden	Maritime	100%
ECF (2010)	EU	All	80%
Öko (2018)	EU	All	100%
T&E (017)	EU	Buses and Freight	100%
Cembureau (2013)	EU	Cement	80%
Eurofer (2013)	EU	Steel	-
EAA (2012)	EU	Metals (Aluminium)	79%
Cefic (2013)	EU	Chemical	-
CEPI (2017)	EU	Paper	80%
Cerame-Unie (2012)	EU	Ceramics	65/78%
IEA (2017)	World	Energy	100% (by 2100)
Shell (2018)	World	All	100% (by 2100)
Shell (2018)	World	Energy	100% (by 2070)

Note: Unless specified otherwise, the targets in the table refer to 2050

Key questions



- What to model?
 - Modelling impact of different techno-economic pathways vs. modelling impact of policy choices
- Who/when/how to involve stakeholders?
 - Who: experts, stakeholders and/or bureaucrats
 - When: model selection, assumption setting, scenario definition
 - How: workshop, consultation, electronic platform