UK Office of Climate Change

Use of roadmaps for policy making: an application to cars

Sophie Hartfield

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> Office of Climate Change

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The Global Technology Project is looking at the role for international technology policy

UK Office of Climate Change Our role is to support Ministers to develop future UK strategy and policy on domestic and international climate change.

- Small independent **analytical unit** within UK government.
- **Project** based work on cross-cutting policy problems.



 Our project is considering the question: how can international technology policy help bring forward clean technologies in the least cost way possible?

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Policy making process:



A key way of driving clean technology in cars will be CO2/km standards



How should demand for low carbon technology be created?



Roadmaps are an illustration of what a least cost transition to a low carbon economy might look like, under various scenarios about costs and socioeconomic development.

Process for producing a roadmap: choice of scenarios is **Climate** important here





The cars roadmap provides a guide to whether the **Climate** sector is on track, and how tight to set future standards **Change**



Data is from modelling used in IEA Energy Technology Perspectives 2008.

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The policy maker should use roadmaps to help design policy



Nature of policy intervention

How can roadmaps help design policy?

Standards are a good way of bring down the cost of low carbon cars.



There is a case for government to provide **R&D support** for clean transport technologies. But government may not have the best information on which ones to back.



Roadmaps can help set the **level of standard**.

There are **risks** to using roadmaps to decide what to spend R&D on.



- Policy maker should firstly decide what type of intervention is needed for a given sector/technology.
- Roadmaps can then be helpful for informing how to design the policy.
 - •Especially useful for setting standards.
 - •But risks of using roadmaps to guide R&D expenditure.
- Principles of good roadmaps
 based on lots of scenarios
 good modelling
 regularly revised.