

Mobilising Models to address Challenges in the EU SDS and Climate Change Energy policy

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Key Objectives of this Process

1. Decide *which* model(s) are best suited to contribute to the meeting of sustainability objectives (in tandem with IVM)
2. Demonstrate relevance by application

Presentation Outline

- Portfolio of models available
- Contribution of such models (discussed by IVM later)
- EU Climate Change Energy Policy and EU SDS
- EU SDS Policy Targets and Indicators

1) The portfolio of models available and feasible.

- Key in relation to the responsibilities of IVM in Task 2 of Workpackage 3.
 - Review of models and focuses of each
 - Need for a “harmonising of approaches” of model usage in the absence of harmonised baselines
 - We adopt a similar methodology for sustainability criteria

2) The Potential Contribution of Models to EU SDS and Climate Energy Policy

- Key Objective for this project:
 - Decide *which* model(s) are best suited to contribute to the meeting of sustainability objectives
- TranSust project had 15 specific criteria for policy assessment. IVM have assessed the models and extensions using these criteria
- We conduct a similar analysis for EU SDS
- IVM address to follow...

3) European Union Sustainable Development Strategy (EUSDS)

- Key Objectives (4),
- Policy Guiding Principles (10)
- Challenges and Targets (7) identified.

(see associated paper, discussed later)

4) Climate Change Energy Policies (2007 Spring Council)

1. Cut GHG by 20 per cent by 2020 (Base year 1990)
2. Cut GHG by 30 per cent by 2020 if US, China and India make 'similar commitments'.
3. Binding target of 20 per cent for renewable energy sources by 2020, compared with present 6.5 per cent
4. A binding minimum target of 10% for the share of biofuels in overall transport petrol and diesel consumption by 2020 was also set.

5) EU SDS: The Key Objectives

- Environmental Protection
- Social Equity and Cohesion
- Economic Prosperity
- Meeting International Responsibilities

6) Operationalising contribution of models linked to EU SDS Key Objectives

- 1. Selection of plausible counterfactual**
 - The likely future in the absence of EU SDS and Climate and Energy (CEP) policy portfolio in order to assess a business as usual scenario.
- 2. Environmental Protection**
 - Advanced by *cost effectiveness* – meeting targets at minimum cost and by *dynamic efficiency* - policies that engender innovation.
 - How can models contribute to understanding the impact of one or more policy instruments on policy understanding and performance

6) Continued

3. Social Equity and Cohesion

- Advanced by application of polluter pays, by some forms of recycling
- How can our models contribute to understanding the impact of policy processes on social equity and cohesion?

4. Economic Prosperity

- Advanced by cost effectiveness and dynamic efficiency and (perhaps) by understanding impact on sectors and income groups. How can the models contribute to identifying efficient compliance instruments that will advance economic prosperity.

5. Meeting International Responsibilities

- How can our models relate to meeting international obligations and how will they contribute in this regard.

7) EU SDS Policy Guiding Principles (10)

- Promotion and Protection of Fundamental Rights
 - Solidarity within and between Generations
 - Open and Democratic Society
 - Involvement of Citizens
 - Involvement of Business and Social Partners
 - Policy Coherence and Governance*
 - Policy Integration*
 - Use Best Available Knowledge*
 - Precautionary Principle*
 - Make Polluters Pay*
- * How do the models make a contribution in these areas?

8) Key Challenges

- a. Climate Change and Clean Energy
- b. Sustainable Transport
- c. Sustainable Consumption and Production
- d. Conservation and Management of Natural Resources
- e. Public Health
- f. Social Inclusion, Demography and Migration
- g. Global Poverty and Sustainable Development Challenges

(See handout and Frank discussion)

Targets

- Frank Convery – see handout.