RECIPE
Report on Energy and Climate Policies in Europe
Valentina Bosetti

Research Institute:
CIRED, FEEM/CMCC, PIK
October 2007 until September 2009

We acknowledge supporting from Allianz and WWF
What is the RECIPE project

- A model comparison exercise using IMACLIM, REMIND, WITCH
- Based on harmonization of key economic drivers: population, economic growth, fuel prices.
- Analysis of a 3.5 radiative forcing scenario
- Analysis of a “imperfect” world scenarios (delayed action, fragmented action, limited technological option
Baseline
A1 – contraction and convergence
A1 – contraction and convergence

Note different scales!
A1 – contraction and convergence
Carbon intensity (CI) vs. Energy efficiency (EI)

A1-C&C vs baseline
Comparision with CCSP study (CCSP, July 2007) and ADAM

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<tr>
<th></th>
<th>2020</th>
<th>2040</th>
<th>2060</th>
<th>2080</th>
<th>2100</th>
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<td><strong>RECIPE</strong></td>
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<td>(450ppm CO2)</td>
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<td>WITCH</td>
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<td><strong>CCSP</strong></td>
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Percentage reduction in Gross World Product in the stabilisation scenario - undiscounted
- **TOCSIN**: Technology-Oriented Cooperation and Strategies in India and China: Reinforcing the EU dialogue with Developing Countries on Climate Change Mitigation
  - EU Funded (ends in fall 2009); partners from China and India
  - Three models: MARKAL/TIMES, GEMINI-E3, WITCH
  - Analysis of a stabilization scenarios 4.5 (rad. forcing), given different assumption on technology transfer and spillovers

- **Harvard Project on International Climate Agreements**
  - Quantitative comparison of the main post 2012 architectures for an agreement on climate policy

- **EMF22 – International Scenarios**

- **Forestry Modelling Forum**