

## **The POEM modelling framework**

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**The POEM project:**

**Policy Options to engage Emerging  
Asian economies in a post-Kyoto  
regime**


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## Background

- **max 2K increase only possible with China & India commitments;**
  - **but, reluctant to do so due to risk of slowing economic growth;**
  - **thus, in this project, development objectives first.**
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## Objectives

- **Investigation of multiple energy pathways providing same energy services required for the given development objectives,**
  - **and their GHG emissions and environmental, health and energy security co-benefits.**
  - **“True” mitigation cost of different pathways ?**
  - **Multi-model analysis**
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## Methodology

- **Application of integrated modelling framework**
  - **Relate models to policy (national & international)**
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## Global and national models to be applied:

- **the global climate model FAIR connected to global energy model TIMER,**
  - **the global GE model DART,**
  - **the global population and health model PHOENIX,**
  - **a national macro-economic model (India),**
  - **a national energy system model MARKAL (India)**
  - **a national macro-economic model (China),**
  - **a national energy system model MARKAL (India).**
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## More on methodology

- **Soft-linking primarily**
  - **Common assumptions**
  - **Iterative work procedure**
  - **Focus on co-benefits (local environment, health and energy security)**
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## Participant organisations

- **Chalmers University of Technology, Sweden**
  - **Indian Institute of Management, Ahmedabad, India**
  - **Indian Institute of Economic Growth, Dehli, India**
  - **Netherlands Environmental Assessment Agency, The Netherlands**
  - **Tshinghua University, China**
  - **Center for Energy and Environmental Policy Research, Chinese Academy of Sciences – Beijing Institute of Technology, China**
  - **Kiel Institute for the World Economy, Germany**
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**Thank you!**

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