

www.cprindia.org

# Integrating the political and the technical: methodologies for *multi-objective* climate and energy policy

Ankit Bhardwaj ankit.bhardwaj@cprindia.org COP 22 Marrakech 11/11/16



#### Need for a multi-criteria approach

- Nationally determined contributions (NDCs) allow for the formulation of mitigation efforts with **"development as context"**
- Implies contending with
  - contexts
  - tradeoffs
  - co-benefits



#### A tool to address multiple objectives

- An *ex ante* analog to the *ex post* evaluation tools we have
- **Transparent** decision making tool which makes visible **tradeoffs and synergies** of political choices across objectives
- Process which facilitates **multi-stakeholder** agenda setting, dialogue, and decision making
- Ability to integrate **qualitative** and quantitative knowledge across disciplines



#### Current applications

- Cooking fuel choice in rural India
- Building envelope efficiencies
- Planning in Indian cities

For more details:

http://www.cprindia.org/projects/

multiple-objective-based-energy-and-climate-policy



### MCDA tool steps

- 1. Define the problem
- 2. Identify policy objectives (and metrics)
- 3. Identify policy alternatives
- 4. Analysis of alternatives
- 5. Elicit stakeholder preferences and normalizes quantitative and qualitative information
- 6. Aggregate through weights and compare and report consequences
- 7. Uncertainty and sensitivity analysis
- 8. Policy decision



#### MCDA tool steps

- 1. Define the problem
- 2. Identify policy objectives (and metrics)
- 3. Identify policy alternatives
- 4. Analysis of alternatives
- 5. Elicit stakeholder preferences and normalizes quantitative and qualitative information
- 6. Aggregate through weights and compare and report consequences
- 7. Uncertainty and sensitivity analysis
- 8. Policy decision





#### Mapping of objectives



#### Evaluating across objectives

Social



## Challenges

- Institutions
  - Bureaucratic and institutional incentives
  - Creating or identifying appropriate forums
- Knowledge
  - How best to integrate different knowledges?
  - Data : need appropriate ex post accounting frameworks and case studies to draw from
- Process
  - Lack of capacity in holding participation
  - Coping with heterogenous stakeholders

