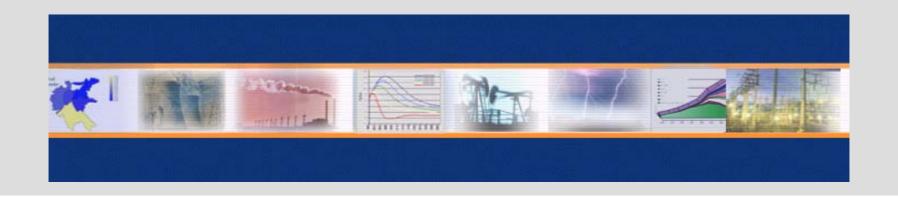
Overview of Our CAPaBLE Project





P.R. Shukla







Project Title

Integrated Assessment Model for Developing

Countries (IAMDC) and Assessment of Mitigation

Options and Sustainable Development

Opportunities





Objectives

 To develop tools for policy analysis for integrating climate change and sustainable development concerns of developing country policy makers.

To enhance capacity of developing countries for integrated
assessment of climate change mitigation options in the context of
sustainable national development priorities and policies.





Participating Countries/Institutions

China Energy Research Institute (ERI), Beijing,

India Institute of Management, Ahmedabad (IIMA)

Thailand Asian Institute of Technology (AIT), Bangkok





Tasks

- 1. Development of national scenarios
- 2. Validation of model framework
- 3. Model development
- 4. Development of Strategic Database
- 5. Website development and maintenance
- 6. Setting up Country Models
- 7. Assessment of Base Scenario
- 8. Development of integrated framework
- 9. Model integration
- 10. Capacity Building





Project Website

www.e2Models.com





Developing Country Dynamics

- 1. What make developing countries different?
- 2. Modeling vs. Model Developments





Transitions

Socio-Economic

Demographic

- Population
- Urban / Rural
- Gender ratio
- Migration

Development

- Soft indicators: Income, Equity, Literacy, Health
- Hard indicators: Infrastructure, Housing, Vehicles, Appliances

Political

- Institutions
- Laws
- Policies





Transitions Energy Resources

Fossil Futures

- Conventional Coal/Gas/ Oil
- Unconventional Oil/ Gas

Renewable Energy

- Bio-technology
- Solar

Large Hydro

- Multi-purpose schemes

Nuclear

- Fission with zero waste
- Fusion





TransitionsDemand-side Energy

- Efficient Appliances
- Substitutions (e.g. Information for transport)
- Advance Technologies
 - Fuel-cell
 - Hydrogen economy
 - Bio-engineering





TransitionsTechnology

- Logistics
 - Pipelines
- Electricity T&D
 - Decentralized utilities
- Information
 - Wireless
- Nanotechnology





TransitionsEnvironment

- Awareness
 - Pressure groups
- Income-effects
 - E.g. Kuznets phenomenon
- Laws and Regulations
 - Global agreements
 - National policies
- Technology
 - Zero-effluent Processes
 - Recylcing





TransitionsConsumption & Life-style

- Conservation
 - Substitutions
 - Recycling
- City Planning
- Architecture/ Building Codes
- Sustainable Habits / Traditions





Modeling Transitions

- Scenarios
- Dynamics
- Databases
- Linkages
- Purpose





Thank you!



