Options to achieve LCS

Break-out group discussion

Chair: Jim Watson

Presenter: Igor Bashmakov

Rapporteur: Rahul Pandey

Outline

- Behavior

- Institutions

- Technologies

- LCS Options and DCs

Behaviour

- How to combat deep inertia of social structures and behavioural routines?

- Changes in social systems could induce shift in technology/energy/end-use choices

- Intervention in behaviour / lifestyles is politically contentious: Lifestyles, Education systems, Capabilities of businesses, etc.

Behaviour (cont.)

Some issues for models / scenarios:

- Assumptions about behaviour in models and scenarios not explicit / not adequate

- Need scenarios and models that place more emphasis on institutions, behaviour as well as technology

- How to do this? 'soft modeling?'

- Study of real-life examples of more sustainable lifestyles might help inform models

Institutions

- Designing institutions to facilitate technology and behavioral changes is key

- National and international level institutions

- Decision making frameworks that consider long term trends of costs and send long term signals

- Institutions for dealing with co-benefits, conflicts between different objectives:
  - e.g. different market prices and govt regulations might induce geographical movement of energy intensive activities

Technologies

- Pervasiveness of technology definition. Broader definition can include social context.

- Portfolio of options over short and long run

- Treatment of interactions, spillovers

- Effect of methodology on relative attractiveness of technologies

- Cooperation/coordination for technological learning

LCS Options and DCs

- Barriers to expanding/scaling up infrastructure are common to both – both more acute for DCs
- Barriers to diffusion of efficient technologies need to be addressed
- Some key issues to address:
  - IPR for technology transfer
  - R&D cooperation between DC and IC govts

Central Message

A combination of technological innovation, policy implementation, institutional and behavioral changes will be necessary in creating pathways to reach LCS goal. These elements should not be treated in isolation from each other