

Energy Access, Resilience and Capacity Building

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Introduction

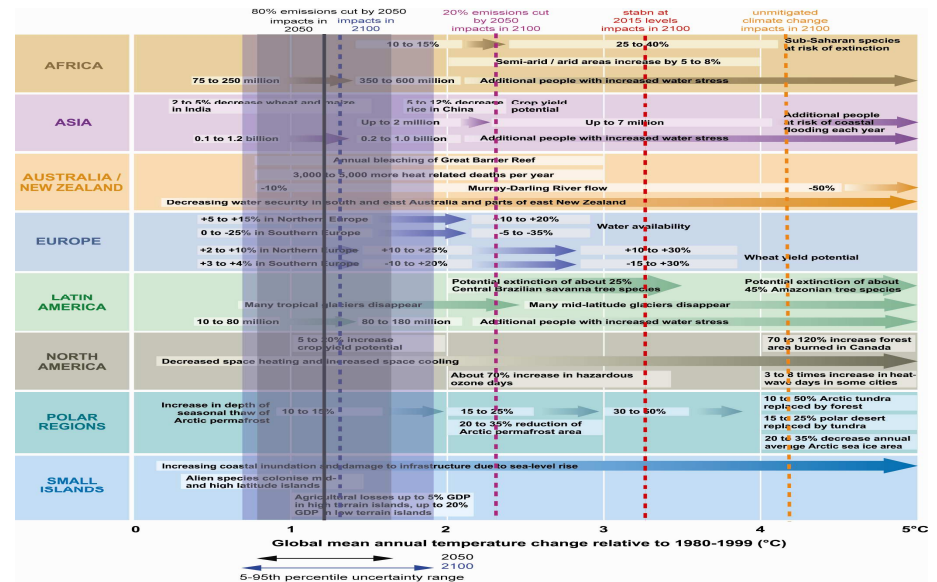
- Access to modern energy is crucial for human development, hence MDGs
- According to IEA, 2.5 million depend on traditional biomass for cooking and 1.6 million with no electricity, and most live in rural areas
- Energy provision should having the following:
 - Safer
 - Cleaner
 - Cheaper
 - High reliability
 - Promote economic growth
 - Increase personal incomes

Climate Change Mitigation Challenge

- GHG emissions are growing worldwide, 1990-2010
 - Globally: 36.4 - 51.9 Gt
 - Developed countries: 16.9-19.8
 - Developing countries: 19.5-32.1
- Continued growth path will overshoot by about 30 Gt by 2030
- Current warming makes adaptation unavoidable
- Only stringent actions are required to avoid major problems
- To achieve 2 deg or less, peaking should be between 2015-20

IPCC –AR4 Results

Scenario category	Region	2020	2050
A-450 ppm CO₂-eq	Annex I	-25% to -40%	-80% to -95%
	Non-Annex I	Substantial deviation from baseline in Latin America, Middle East, East Asia and Centrally-Planned Asia	Substantial deviation from baseline in all regions
B-550 ppm CO₂-eq	Annex I	-10% to -30%	-40% to -90%
	Non-Annex I	Deviation from baseline in Latin America and Middle East, East Asia	Deviation from baseline in most regions, especially in Latin America and Middle East
C-650 ppm CO₂-eq	Annex I	0% to -25%	-30% to -80%
	Non-Annex I	Baseline	Deviation from baseline in Latin America, Middle East, and East Asia



Strategic Options to increase Energy Access

- Options that ensure macro-economic growth

- Improving the overall economy
- Mobilisation of local investments
- Cross-learning among institutions
- Promotion of external investments

- Options targeted at urban poor

- Widespread use of LPG
- Use of cross –subsidy in tariff system

- Options for energising rural areas

- Scaling up existing interventions
- Provision of low cost, high impact options

Alternative Fuels must provide both Household and Productive Services

LPG as a modern alternative to traditional cooking fuels



LPG Use for Productive activities



LPG use in Agriculture



Scaling-up RETs is very Important

- Technology needs assessment important
- Provision of wide technology choice
- Facilitation of technical back-up services
- Provision of subsidised financial system (microfinance)
- Support existing cooperatives or promote new ones

