

## The politics of scarcity and renewable energy

Lyla Mehta

Institute of Development Studies, UK Norwegian University of Life Science

### **Current scarcity concerns**

- 'Perfect storm of energy, food, climate and water crises, cross border conflicts etc'
- 2007-2008 food and global financial crises
- So called scarcity of resources, justifying large scale land acquisitions & grabs
- Planetary boundaries and Anthropocene debates – premised on limits and scarcity

#### **Outline**

- Scarcity as taken for granted and natural
- A selective and brief journey of a concept
- Inequalities in access
- Scarcity challenges arising through a radical transition to renewable energy
- Why does it matter?

#### **Needs and scarcity**

- Basic needs like energy, water and food are intrinsically linked with notions of scarcity.
   'Scarcity' is used to justify a range of approaches to enhance access (e.g. markets, regulatory frameworks, basic rights)
- Scarcity like 'nature', 'culture' and 'modern' –
  one of the most complex and difficult words in
  the English language unstable and polyvalent
  (Raymond Williams). The meanings are shaped
  and bound up with the problems they are being
  used to discuss
- How are understandings of scarcity constructed?
   What do they obscure?

## The legacy of scarcity

"...the whole human development, at least up to now, has been a bitter struggle against scarcity."

(Jean-Paul Sartre)

### From scarcities to scarcity

- Lord Robbins (1932) Economics defined as the science that studies human behaviour as a relationship between ends and scarce means which have alternative uses'
- Legitimises the need to allocate and manage property (e.g. water as an economic good/ formalisation of rights)
- Homo oeconomicus as universal?
- Scarcity made out to be the ubiquitous and permanent feature of the human condition (from scarcities to scarcity – Xenos)

## Challenges to the scarcity postulate

- Economic anthropology (Sahlins and Polanyi)
- Common property theory
- Entitlements and Amartya Sen
- The role of meaning, practices and culture
- Socio-political perspectives and contestations around scarcity

## Living with scarcities





## Plenty within scarcity/ Scarcity within plenty





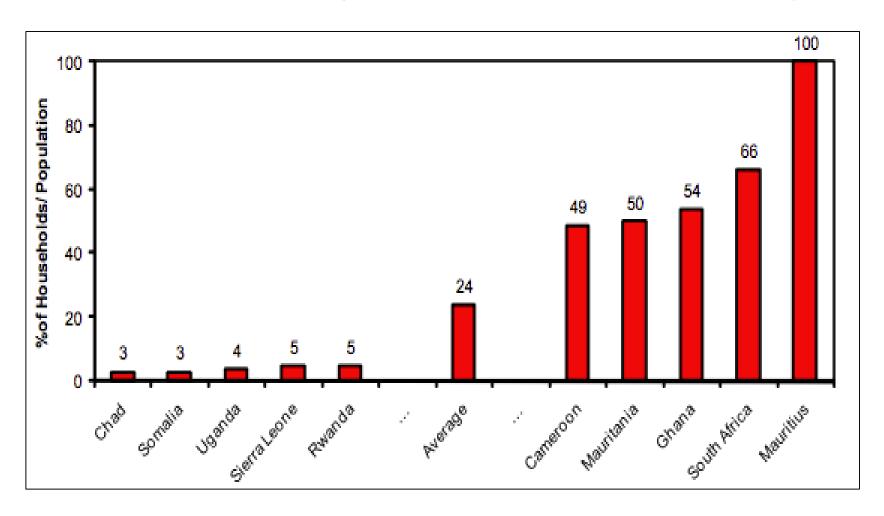
#### Problems with conventional notions of scarcity

- Focus on volumetric amounts ignores socio-political processes
- No questioning of logic of supply/ demand
- Solutions can increase control over the resource & dispossess local users
- Efficiency v/s equity considerations
- Technology portrayed as neutral
- Powerful players tend to benefit
- Neglect of local perspectives/ experiences/practices
- Scarcity is naturalised & made permanent

#### Inequality in energy access globally

- 1.5 billion have no source to electricity globally (UNEP, 2011) and demand will grow by 40%
- Energy key for socio-economic development; education, poverty, and health and all SDGs
- Global North pathways based on apparent abundance of fossil fuel resources are unsustainable
- Average person in global North consumes 24 times as much materials and 12 times more energy than person in Global South
- Investment in RE and 'green' infrastructure in global South low (UNEP 2011) / state patronage to fossil industry.
- Unequal access to energy arising through historical and socio-political processes as well as contemporary policy and business decisions

## Access rates for least and most elecritified countries in SSA (Brew and Hammond, 2010)



#### **Nexus** with land and water

- Land and water systems are tightly linked to energy production, and also vulnerable to degradation from it.
- First-generation biofuels require significant land and water inputs
- Even second-generation biofuels that are produced from non-edible biomass and non-food crops like jatropha have considerable social costs

### RE and dispossession

- Notions of 'scarcity' and 'abundance' as political strategy (N. Hildyard) and future is colonised in certain ways
- Growing perceptions of energy scarcity fuelled trends in land grabbing and large scale dispossession of local people



## RE availability v/s access

- In the global South, several potential sources for plentiful RE — e.g. proximity to the coast, plenty of sunlight and wind.
- However, despite this 'abundance', due to fluctuating character of RE sources, high variability especially when required
- This can lead to or justify price fluctuations
- Challenges to integration in transmission grid (Pueyo et al, 2016)

# Green energy business v/s energy security



### Political economy of renewables

- South Africa: Significant commercial scale RE projects and leadership in RE. Yet massive resistance from big energy giant Eskom, traditional state monopoly.
- Primacy of centralised v/s decentralised paradigms
- Kenya: despite success in wind energy, low transmission, low rural demand and high resistance due to displacement and dispossession from land

#### Conclusions

- Scarcity not natural or universal
- Responses to scarcity not neutral but as part of socio-political choices
- Linked to access, practices and meaning
- The 'manufacture' of scarcity to suit the interests of powerful actors
- Scarcity evoked as a technical term with science and technology as the 'solutions'
- Schemes to mitigate scarcity have contradictory impacts and build on local gender and power relations
- Even so called environmentally friendly infrastructure is not without wider socio political and environmental challenges

Thank you!

Photos and slides: All Lyla Mehta expect for Max Martin (no. 17), Ian Scoones (no. 15)